

IEI and IEI Worldwide

IEI Technology Corp., a leading industrial computing service provider, integrates computing platforms and customization services. IEI supplies hundreds of industrial computer boards, systems and peripherals for various customer applications, in addition to supporting OEM/ODM services. By reducing customers' design time and accelerating product development, IEI helps customers advance beyond their market competition.

IEI has an innovative R&D team, effective management system, quality assurance and over 400 products passing through more than 100 distributors in order to provide customers with the fastest time-to-market services all over the world.



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AFOLUX
Panel PC

Medical
Display
Solutions

Mobile
Solution

Industrial
PPC

AFOLUX Vertical
Market Panel PC

IEI Product and Market Coverage

Comprehensive quality assurance tests are performed on all IEI products throughout the product development cycle. Testing is initiated in the research and development phase of a product and continued throughout the manufacturing phase. Quality assurance testing throughout the product development cycle ensures all IEI products are able to provide stable performance in the industrial environments they are used.

In-house Reliability Testing Facilities



Temperature Testing



ESD Testing



Vibration Testing



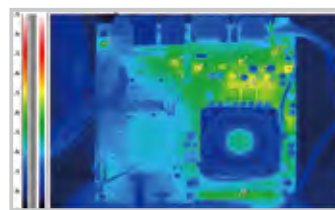
Power Consumption Testing



IP 65 Testing



Drop Testing

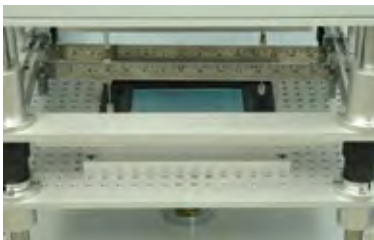


Thermal Testing



Safety Testing

Mobile System In-house Reliability Testing Facilities



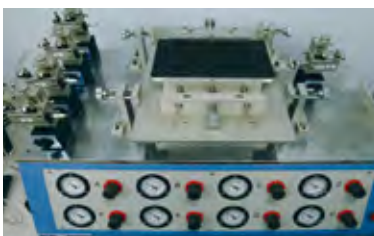
Keypad Life Test/Touch Panel Tap Test

Presses the keypad button and taps the touch panel 1,000,000 times using a test fixture. Measures the force and pressure of the keypad button and touch panel to observe potential damage.



I/O Connector and Connector Rubber Insert/Remove Test

Ensures the I/O functions after 5000 times.



Touch Panel Scratch Test

Ensures the touch panel resists deformation, surface defects, color-off, spots and scratches by testing the surface 15000 times.



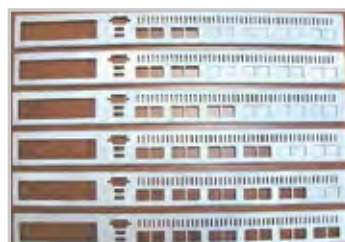
Sunshine Super Long-life Weather Meter

Simulates sunlight environments to estimate the lifespan of the materials.

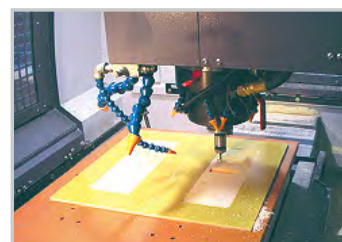
Flexible Customization Service

Example:

Front panel customization according to expansion adaptor selections



Front panel sample by in-house CNC in 2 days



Complete Line of Innovative Display Solutions

Rich Variety to Match Diversified Applications

IEI invests significantly in research and development to provide more consumer-oriented and application-specific products. Extensive design and production experience allows IEI to create products for a diverse range of industries including health care, retail, factory and home automation.



1. Mobile Systems

■ Tablet PC

New



ICEFIRE 2

Mobile Clinic Assistant

- 10.4" TFT XGA LCD
- Intel® Atom™ N2600 CPU
- Windows® Embedded Standard 7 OS



New

ICEFIRE-ET

Enterprise Tablet PC

- Intel® Atom™ D525 dual-core 1.8GHz CPU
- Microsoft® Windows Embedded Standard 7 P OS
- Wi-Fi, Bluetooth 2.1 and Ethernet LAN



New



ICECARE

Mobile Field Assistant

- TI OMAP3 AM3715 CPU and Android 2.3 OS
- 1D Laser/ 2D Imager Scan Engine, RFID Reader
- Bluetooth 2.1, Wi-Fi, 3.5G wireless with built-in GPS
- IP54 and 1M Drop Test



■ Industrial PDA

Thermal Printer

MODAT-100

3.5" Mobile POS/Ticketing

- Marvell® PXA 310 624MHz CPU
- Built-in Windows® Mobile 6.5 OS
- 1D Barcode reader, SCR, MSR and 2" thermal Printer
- Wi-Fi, Bluetooth 2.1, 3.5G and GPS



MODAT-200

Order Entry PDA

- 667 MHz ARM11 CPU
- Built-in Windows® Mobile 6.5 OS/Windows® CE 6.0 Optional
- USB 1.1 Host/Client 2.0
- Built-in Wi-Fi and Bluetooth wireless communication



New



MODAT-335A

Field Service Terminal

- Marvell® PXA 310 624MHz CPU
- Built-in Windows® Mobile 6.5 OS
- 1D/2D Barcode reader, RFID, Handle Grip and UHF
- Wi-Fi, Bluetooth 2.1, 3.5G and GPS



■ In-Vehicle Computing

New

VTT-1000-WiFi

Vehicle Tracking Terminal

- 3.5" TFT LCD touch screen
- Embedded with ARM9 400MHz CPU
- Pre-installed Windows® CE 6.0
- Built-in GSM/GPRS and Wi-Fi



New

iKarPC-Lite

7" In-Vehicle Computer

- TI Sitarta ARM Cortex A8 CPU
- Android 2.3.4 OS
- Bluetooth, Wi-Fi, 3G and GPS
- CAN-bus supports OBD-II



GPS CAN UHF AVL-3000

Auto Data Server

- Intel® Atom™ N2600 Cedar View
- Microsoft® Windows Embedded Standard 7 E OS
- UHF RFID Reader and 4 Channel Video Capture
- CAN-bus support OBD-II/FMS/J1939



2. Medical Solutions



MMD Series

■ Diagnostic Monitor 12bit 32bit DICOM

- 5MP/3MP/2MP 12-bit Grayscale Diagnostic Monitors
- 3MP/2MP 30-bit High-Brightness Color Diagnostic Monitors
- 4MP 30" Dual-Input Color Diagnostic Monitor
- 2MP 20.1" Grayscale & Color Image Review Monitors



POC Series

Reviewing Color

■ Medical Panel PC

- 15"~19" All-in-One Medical Panel PC Platform
- Slim & Compact Size for Easy Installation
- Medically Certified for Safety Requirements



pCART Series

■ Medication Cart

- Battery System Integrated for max. 8hrs operation time
- Easy-to-Use & Easy-to-Clean
- Flexible Configuration for Storage Space



IBS Series

New

■ Interactive Bedside Station

- 2nd Generation Intel Core i platform
- 19" PMVA Wide Viewing Angle LED backlight display
- Video Conferencing, Digital TV, Nursing Call for Bedside Applications
- RFID, Smart Card Reader, DICOM GSDP Compliant for Clinical Applications
- Visual Annunciation with LED Dash Light

3. Display Systems

X86-Based Panel PC

RISC-Based Panel PC

Light Industrial Panel PC

General Purpose



AFL2-W21A

New

AFOLUX GEN 2 Series

- W7"-W21.5" stylish flat bezel design with plastic housing
- Resistive touch or projected capacitive touch for option
- EM/Mifare RFID reader built-in
- Front panel IP 64 protection

Vertical Market



AFL-412A

AFOUX Vertical Market Series

- In-wall mounting easy to install with changeable front bezel
- Webcam/speaker/digital microphone built-in

Heavy Industrial Panel PC

General Purpose



PPC-5152A

PPC Series

- 8.4"-19" rugged Panel PC with metal housing
- IP 64/IP65 protection
- Flexible expansion interface

Vertical Market




UPC-V315

New

PPC Vertical Market Series

- Redundant power backup
- Sunlight readable LCD
- I65/I67 complete waterproof

4.3" Multi-Touch



IOVU-430M

IOVU series

- RISC-based processor
- Built-in Windows® CE embedded OS
- Fanless system
- IP 64 front panel compliant

4. Display Monitor

5. Display Workstation

6. Display Console



SRM-150GS

- **DM series** - Industrial monitors
- **SRM series** - Sunlight readable monitors
- **TDM series** - Extended temperature display monitors
- **LCD-KIT Series** - Open frame LCD monitors
- **AFOLUX monitor** - Multiple video input monitors



WS-612GS

- **WS series** - Heavy-duty and expandable with different CPU performance configuration
- **RPC/EC series** - Easy rack-mount industrial workstation



LKM-9268

- **LKM series** - 1 or 8 Port LCD KVM switch

7. Video Wall Controller/Splitter



iVW-122

Full HD (1080P) Resolution Video Wall Box

- Resolution up to 1920 x 1200
- Video wall array: 2 x 2 / 3 x 3
- Supports GeniMask bezel masking technology
- Digital signage layout designer, server and player support



iVW-FD-122

Ultra High Resolution (Above 1080P) Video Wall Box

- Resolution up to 3840 x 2400 / 4080 x 2304 / 4096 x 768
- Video wall controller* Supported video wall array: 2 x 2 / 3 x 3 / 1 x 3 / 1 x 4 / 3 x 1 / 4 x 1 / 1 x 2 (LCD) / 1 x 2 (projector)
- Supports GeniMask bezel masking technology
- Digital signage layout designer, server and player support



Solution Table

Solution	Mobile System		X86-Based Panel PC			RISC-Based Panel PC	Display Monitor	Display Workstation	Display Console	Medical Display Solutions			
	Tablet PC	In-Vehicle Computing	Industrial PDA	AFOLUX Gen II	AFOLUX PPC	PPC	IOVU SERIES	DM SERIES	WS SERIES	LKM SERIES	Diagnostic Mono Display	Diagnostic Color Display	Medical Panel PC
LCD SIZE	8.0"/10.4"	8.0"	2.8"/3.5"	7"-W21.5"	5.7"-W19"	6.5"-19"	4.3"-W7"	6.5"-19"	10.4"-17"	15"/17"	W20.1"/21.3"	21.3"/30"	15"-19"

2013 New Product Highlight

FULL HD 21.5" AFOLUX 2 PPC



AFL2-W21A-H61 Introduction

AFL2-W21A features an all-in-one computing system equipped with 21.5"(16:9) wide format 1920x1080 FHD resolution, projective capacitive based LCD panel. Versatile key peripheral functions built-in for diversified self-service and promotion usage in different application areas, such as retailing, hotel, education and public space and so on.



Flat and Narrow Bezel Design

- Complete flat bezel, easy to clean, avoid dust accumulation
- Narrow bezel design and symmetric bezel width allows landscape & Portrait screen mode support different application.
- Stylish outlook



Innovation "Light Fanless" System

- Real-time monitors environmental temperature by EC control K-type thermal couple built-in
- Smart Fan function automatically activated by light fanless control setting
- Efficiently manage system



NFC/RFID-ready System

- Optional NFC payment device allows transaction between consumer handheld devices
- EM/Mifare RFID module for option



Interaction with System

- Visual management by LED dash board
- Fast hot key setting
- WEBCAM/MIC./DisplayPort bi-direction communication

AFL2 PPC Product Family

IEI announces its new strategy for the AFL2-series product family with the advent of the new member for the AFL2-W21A of products. From small to large size, entry performance to high performance, IEI one-stop-shopping strategy lets you easier to make the best buying decision.

- W7 to 21.5-inches full-range of display sizes
- Providing projective capacitive touch solutions for 15, wide 15, wide 7, wide19 and 21.5-inches, no matter you need, be it scenario control, interactive touch computers, there is sure to be a perfect touch solution which is the right one for your project needs.

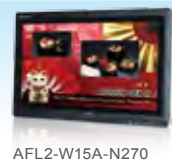
Performance (Light Fanless)



Mainstream



Entry (Fanless)



15" UPS Panel PC with Intel® 3rd Generation Core i3

Fanless Slim Body!



UPC-V315-QM77 Introduction

Powerful Management by UPS Function

The UPC product family provides the UPS (Uninterruptible Power Supply) function, ensuring the UPC products reliably used for automation and vehicle application. The built-in battery allows standby power for data backup and management under sudden power shut-down situation, increasing redundancy for real-time record processing.



Redundant DC Backup

PWR1 : 9 V (+/-0.3 V) ~ 36 V
PWR2 : 10.5 V (+/-0.3 V) ~ 36 V

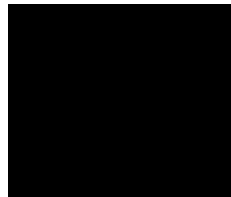


-20°C 60°C



Fully IP65 Water and Dust Resistance

Sealed aluminum alloy body tightly screwed by secured M4 screws and I/O connectors is protected by cover and waterproof rubber coil.



Block out



Slaughter House Factory



Forklift Management


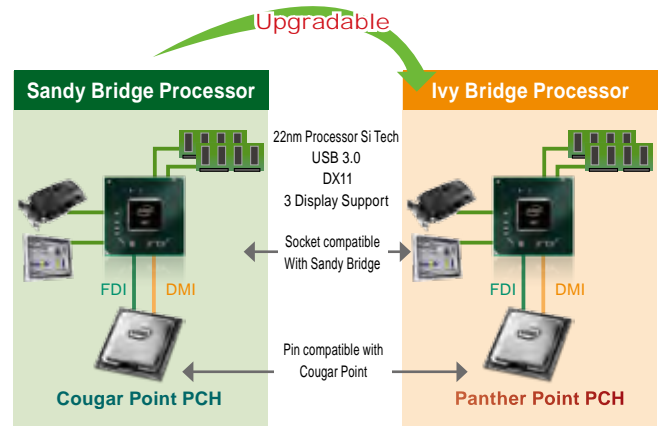





Flower Market Management

The UPC-V315 is a high performance fanless PC with Intel® 3rd Generation Core i3-3217UE and DDR3 up to 8 GB, and support DirectX11, OpenGL3.1, OpenCL1.1, dual independent display among LVDS/VGA/HDMI. Reliable system design especially ideal for harsh environment application.

45nm Process Technology		32nm Process Technology		22nm Process Technology
Penryn Intel® Core™ Microarchitecture	Nehalem NEW Intel® Microarchitecture (Nehalem)	Westmere Intel® Microarchitecture (Nehalem)	Sandy Bridge NEW Intel® Microarchitecture (Sandy Bridge)	Ivy Bridge Intel® Microarchitecture (Sandy Bridge)
TICK	TOCK	TICK	TOCK	TICK

Ivy Bridge:
First Microprocessor on Intel's latest 22nm Process Technology

Product			 New
	UPC-12A-GM45	UPC-V312A-D525	UPC-15A-QM77
LCD Size	12.1" (4:3)	12.1" (4:3)	15" (4:3)
Brightness	600 nits/1000 nits	600 nits	400 nits
Platform	Intel® GM45	Intel® D525	Intel® QM77
UPS	Yes, Built-in battery for UPS function	Yes, external lead acid battery	Yes, external lead acid battery
Featured I/O	4 x COM 6 x USB 2.0 2 x GbE LAN 1 x VGA	1 x COM 4 x USB 1 x GbE LAN 1 x VGA 2.0	4 x COM 4 x USB 2 x GbE LAN 1 x VGA 2.0 1 x HDMI
Expansion	Either one PCI or one PCIe expansion slot	N/A	N/A
IP Protection	Front IP65	Complete IP65	Complete IP65

Short-range Communication Technologies

Comparison of short-range communication technologies

Technology	Standard	Frequency	Range	Data Rate
RFID	ISO 10536	13.56MHz	0 ~ 2 mm	9.6 Kbps
	ISO 14443	13.56MHz	0 ~ 10 cm	106, 212, 424Kbps
	ISO 15693	13.56MHz	0 ~ 70 cm	26 Kbps
NFC	ECMA-340, 352, 356, ISO/IEC 18092, 2148, 1ETSI TS 102 190	13.56MHz	0 ~ 20cm	106, 212, 424Kbps
Infrared	IrFM	405 THz - 300 GHz	20 ~ 30cm low power to 1 ~ 2m	9.6 Kbps ~ 4 Mbps
Bluetooth	Bluetooth v1.2	2.4GHz	10 ~ 80m	720Kbps

RFID: ISO Standards

ISO Standard	Band	Wavelength	Application
ISO 18000-2	Under 135KHz	LF	Animal identification, ID cards, factory data collection
ISO 11784/5	Under 135KHz	LF	Animal identification, ID cards, factory data collection
ISO14443A/B	13.56MHz	HF	Smart cards, transportation
ISO 15693	13.56MHz	HF	ID cards
ISO 18000-3	13.56MHz	HF	Logistics
ISO 18000-7	433MHz	UHF	Cargo
ISO 18000-6	860-960MHz 922-928MHz	UHF	Global supply chain management
ISO 18000-4	2.45GHz	MW	Real time location system, electronic toll collection

What is NFC?

- NFC is an open-platform technology, which is being standardized in the NFC Forum.
 - Initiated by Philips(Mifare) , Sony(Felica), Samsung, Nokia to form NFC(Near Field Communication) alliance.
- NFC is based on and extends on RFID. It operates on 13.56 MHz frequency.
 - Compatible with today's field proven contactless Mifare® and FeliCa™ smart cards
- NFC communication range is up to 10 cm.
- NFC standard supports different data transmission rates such as 106kbps, 212 kbps, and 424 kbps.



■ NFC Tag

The tag is a thin simple device containing antenna and small amount of memory. It is a passive device, powered by magnetic field. Depending on the tag type the memory can be read only, re-writable, and writable once.



■ NFC Reader

The reader is an active device, which generates radio signals to communicate with the tags. The reader powers the passive device in case of passive mode of communication.



NFC-related specifications

	ISO 14443	NFCIP-1	MIFARE	Felica
Command protocol	ISO 14443-4	NFCIP-1 command protocol	MIFARE command protocol	ISO 18092 Felica
Framing and low-level protocol	ISO 14443-3-A ISO 14443-3-B	ISO 14443-3	ISO 14443-3-A	ISO 14443-3
Radio	ISO 14443-2-A ISO 14443-2-B	ISO 14443-2	ISO 14443-2-A	ISO 14443-2

■ NFC Operating Modes



Card Emulation mode

An NFC-enabled device acts as reader when in contact with tags. In this mode, the device can act as a tag or contactless card for existing readers.



Reader/Writer mode

The NFC enabled device can read or write data to any of the supported tag types in a standard NFC data format.



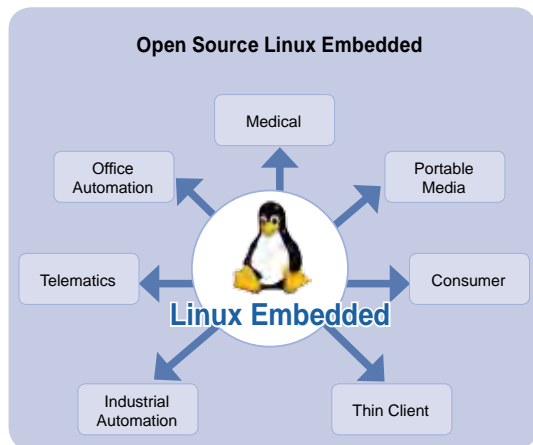
Peer-to-peer mode

Two NFC-enabled devices can exchange data. Peer-to-Peer mode is standardized on the ISO/IEC 18092 standard.

Complete Embedded OS Support

IEI embedded systems offer customer the turnkey OS solution to reduce OS platform design efforts and accelerate the product time to market. IEI product development focus on consistently offering customers the leading and innovative industrial computing products, therefore IEI support Linux Embedded and the complete range of Microsoft Windows Embedded solutions to the embedded computing market. This support optionally includes the licensed embedded OS, and the CD pack contains all necessary SDK (Software Development Kit) materials and user manuals.

1. IEI Linux Embedded



2. Microsoft Windows® Embedded Family



Flexibility, Source Level Control, Multiple CPU Architectures

Fixed Features, Express Development, Windows Desktop Compatibility

3. Windows® Embedded Categories

	Windows® Embedded Enterprise	Windows® Embedded Standard 7	Windows® Embedded Compact 7
On-device ROM	XP Pro: 128 MB RAM; 1.5 GB Hard Drive Vista: 1 GB RAM; 40 GB Hard Drive Windows 7: 1GB RAM (32Bit) 2GB RAM Windows 7: 1GB (64Bit), 16GB Hard Drive	Reduced Footprint 12,000 Individual Components 560MB at smallest	700 components, 500KB at smallest
Supported Processors	XP Pro: 300 MHz 32-bit (X86) Vista: 1 GHz 32-bit (X86)/64-bit(X64) Windows 7: 1GHz 32Bit (X86)/ 64-Bit (X64)	X86, X64	ARM MIPS SH4 X86
Real-Time OS	Yes, Via Third Party Plug-in	Yes, Via Third Party Plug-in	32-bit Native Real-Time Support, Unified Kernel
Embedded Device Management	No	Yes, with Windows Embedded Device Manager 2011	No
Application Support	Existent or Customized Win 32 Applications or Win 64 Applications (on 64-bit editions of Vista and Windows® 7)	Full Win 32 Application compatibility	Customized Win 32 Applications
Application	Control, Automation, ATM	Bulletin, Automation, Surveillance, Networked Media Devices	Digital Media Adapter, GPS navigation, terminal client device
Function	XP Professional	XP Professional for Embedded Systems	
Authorization Type	Full XP Professional	Full XP Professional	
Life Cycle (end date)	PC OEM	Embedded Channels	
Technical Support	2009/1/31	2016/12/31	
Recovery CD	No	Yes	
	Only OS Recovery	Total Recovery (Include AP,OS, Driver)	

4. Windows® Embedded Standard 7

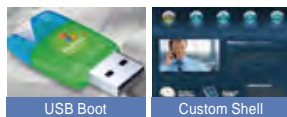
Features: * Features will all comply in Windows Embedded 8.

Componentized version of Windows 7 Ultimate for embedded systems

- Reduced BOM cost: Reduced image size using components (Minimum Footprint > 400MB, Minimum RAM > 512 MB)
- Processor Supports: Insert space between (x86), and 32-bit/64-bit
- Multi-Language Packages Multi-touch Support

Embedded enabling features

- Enhanced Write Filter & File Based Write Filter
- USB Boot
- Hibernate Once Resume Many
- Custom Shell



System protection with file or OS read only set up function to prevent improper operation

Functionality	EFWF (RAM Mode)	FBWF
Write Through Capability	None	File and Folder Write Through
Commit	Commit Whole Overlay	File Commit Only
HORM	Yes	No
Relative Protection	Higher Protection (Lower in I/O stack)	Less Protection (Higher in I/O stack)

Componentized version of Windows® 7 Ultimate for embedded systems

Componentization Technical Concepts

- Embedded Core
- Feature Sets
- Drivers
- Languages



Image configuration editor



IEI One Key Recovery Solution

IEI's unique One Key Recovery solution allows you to recover and backup your operating system without a lot of complicated settings. One Key Recovery comes bundled with every IEI SBC, embedded system, and all-in-one panel PC product.



Supports Auto Recovery Model!

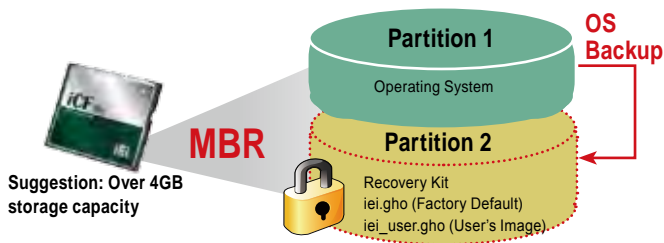
Recovery Tool for IEI Products Only

The IEI recovery CD was developed exclusively by IEI using Windows PE 2.0. It allows users to do a full system backup and restore from system failures. One Key Recovery keeps costs low, because it eliminates the need to buy additional system backup and recovery tools.



Recovery Partition

A hidden partition is a logical section of a disk which is not accessible to the operating system. After building partitions for OS and one key recovery, and execute one key recovery set up process, the partition for one key recovery will be hidden. It may be used to protect confidential data or store backup of the system.



IEI Recovery Solution Advantages:

- No need to make recovery discs by yourself or follow trivial imaging procedures
- Simple steps to backup or restore the system. No IT personnel required.
- Backup/Restore system easily through unique multi-menu
- One key to make recovery disc
- One key to restore system

IEI Products Only



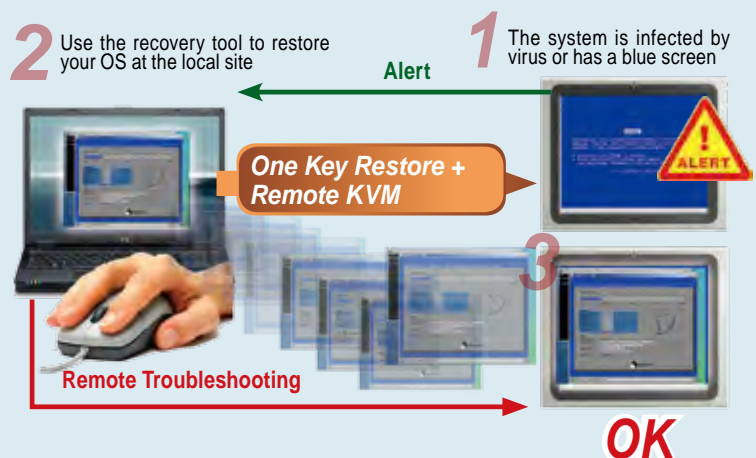
IEI Certified Sticker

The IEI recovery CD is only for IEI products. A message will show to warn "you are an illegal user" if using the CD for non-IEI products. This protection is detected through the BIOS of the IEI boards.

Benefits

Remote maintenance reduces the cost of IT infrastructure

All migration tasks can be performed remotely from a central management console. This saves cost by reducing physical visits.



Rapid Recovery and Restoration Ensures Seamless Workflow

A. Local operation: Fix problems at your finger tips via hot key

By pressing F3, users can access the backup/recovery process easily. One Key Recovery simplifies the imaging and migration process, increasing efficiency in system maintenance.

Support OS List	
Windows® XP	Windows® Vista
Windows® 7	Windows® CE 5.0
Windows® CE 6.0	Windows® XP Embedded
Linux OS	4.Ubuntu 6.10, 7.10 , 8.10
1.RedHat 9	5.Debien 4.0, 5.0
2.RedHat RHEL- 5.4	6. SuSe 10.3, 11.2
3.Fedora Core 7, 8, 10, 11, 12	

One Key Backup / Restore

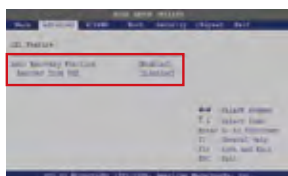
- One-Key Recovery**
 - Factory restore: restore your system to default setting (iei.gho)
 - Restore your last backup: recover the last system configuration (iei_user.gho)
- One-Key Backup**

Backup your operating system to the secure hidden partition. You can create your own ghost image as "iei_user.gho" including your application programs set-ups.

```

1. Factory Restore
2. Backup system
3. Restore your last backup.
4. Manual
5. Quit
Please type the number to select and then press Enter:
    
```

B. Auto scheduling: Instant problem solving from auto recovery **New**

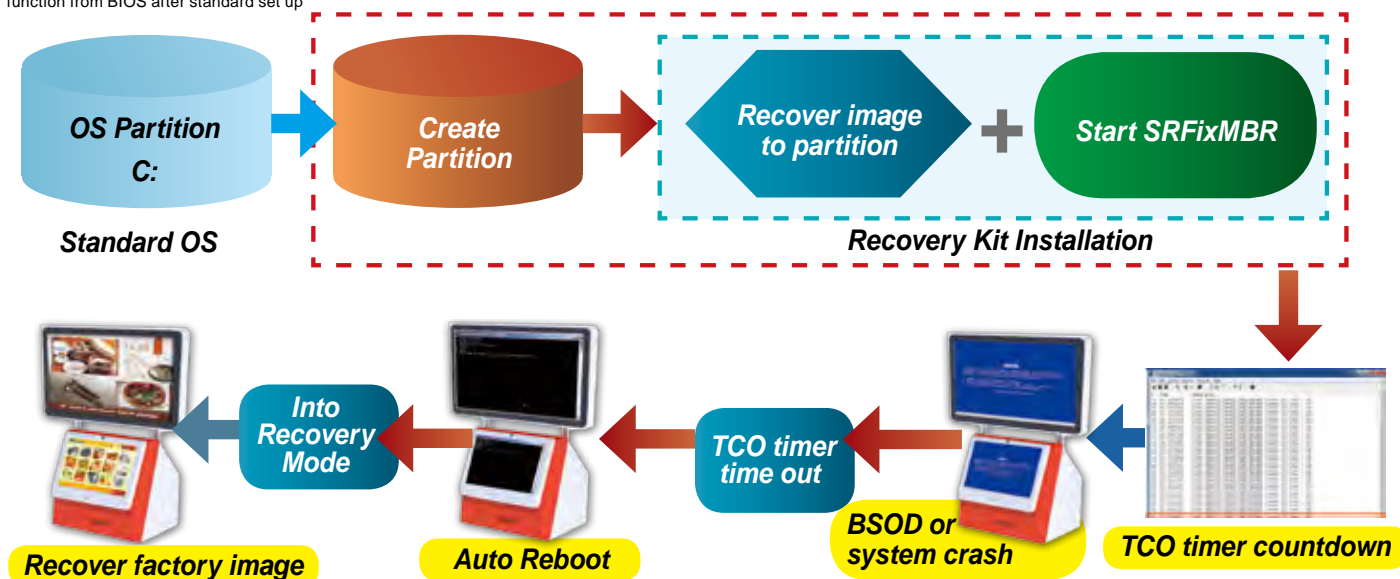


Make sure to enable auto recovery function from BIOS after standard set up

When the system encounters a Blue Screen of Death (BSoD) or hangs for 10 minutes [Default setting is 10 minutes , If want to change the time setting please contact us], the auto recovery function enables the factory default image automatically. This function shortens repair downtime, ensuring continuous work.

Support OS List	
Windows 2000	Windows XP Embedded
Windows XP	Windows Embedded Standard 7
Windows Vista	

Optional function, support by request.



C. Network: Remote recovery through LAN **New**

One key Recovery also provides a remote recovery function. IT professionals can easily maintain client device through the network. When the system has a Blue Screen of Death (BSoD) or hangs for 10 minutes [Default setting is 10 minutes , If want to change the time setting please contact us], the default factory system image can be restored from server to ensure seamless workflow.

Install utility from One Key Recover CD for server

Server requirement

Linux server with DHCP, TFTP and HTTP function

Install setup from One Key Recover CD for client device

Client Operation System support

Windows 2000	Windows 7
Windows XP	Windows Embedded
Windows Vista	Windows Embedded Standard 7

Restart client through LAN

Optional function, support by request.

IEI Complete Touch Options

IEI offers complete touch screen options in diverse product lines and sizes.
IEI develops user-friendly products.

■ New Touch, More Strength

There are two main types of touch panels in the industrial PC industry: resistive type and capacitive type. IEI debuts their resistive and projected capacitive touch screen which incorporates state-of-the-art ID design with a slim PPC solution.

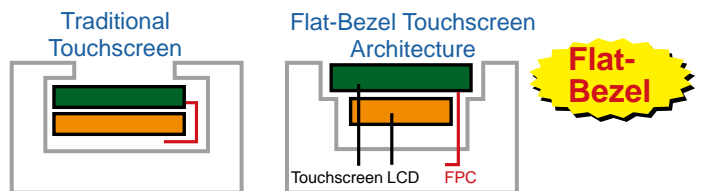
Type	Resistive			Capacitive	
	4-wire	5-wire	Touch window	Surface capacitive	Projected capacitive
Input Method	Hand or Stylus	Hand or Stylus	Hand or Stylus	Hand	Hand
Glove	Yes	Yes	Yes	No	Yes (Medical glove)
Single/Multi-touch	Single	Single	Single	Single	Multiple
Hardness	3H	3H	3H	6H	6H
Transparency	78%	78%	80%	85%	85%

■ Touch Window Technology

Flat-bezel design utilizes an additional film on the touch panel and cover the circuit on the edge with printing. It eliminates the need of a traditional touch screen bezel.

Features:

- 100% usable area on front screen
- Slim and trendy look
- Easy to clean screen prevents dirt, water, and grease accumulation



■ Projected Capacitive Touch

Combines benefits from resistive touch and surface capacitive touch

Projected capacitive touch technology forms an X-Y grid by etching a single layer to form a grid pattern of electrodes, or by etching two separate, perpendicular layers of conductive material with parallel lines or tracks to form the grid.

Features:

- 6H vandal proof glass surface against damages
- Glove operation outperforms the limits of surface capacitive touch
- Up to 90% transparency provides better visual experience than resistive touch
- Supports Windows® 7 multi-touch function

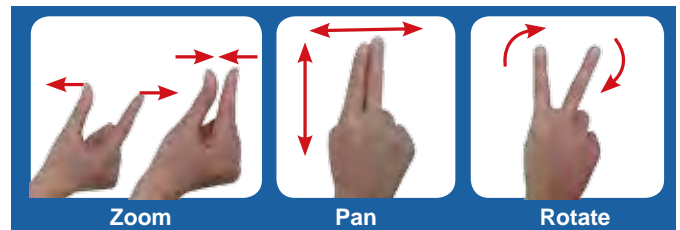


Multi-touch Scenarios on Windows® 7



Multi-touch Scenarios:

- Navigating the internet
- Reading and sorting email
- Viewing photos and video
- Playing casual games
- Navigating and arranging files, folders and windows



IEI Touch Screen Solution Guide

All AFOLUX GEN II PPCs provide either resistive type or projected capacitive type touch screen

Ordering instruction

- Resistive type touch are denoted with an **R** after the CPU. i.e., AFL2-15A-H61/R
- Projected capacitive type touch are denoted with a **PC** after the CPU. i.e., AFL2-15A-H61/PC



Type of Touch	7"	8"	10"	W10"	12"	15"	W15"	17"	W19"	21.5"
Resistive Touch Screen	AFL2-W07A-CV/R	AFL-F08A-N270/R AFL2-08A-CV/R	AFL2-10A-CV/R	AFL2-W10A-CV/R	AFL2-12A-D525/R AFL2-12A-HM65/R	AFL2-15A-H61/R	AFL2-W15A-N270/R AFL2-W15A-780/R AFL2-15A-H61/R AFL2-W15B-H61/R	AFL2-17A-H61/R	AFL2-W19A-H61/R	
Projected Capacitive Touch Screen		AFL-F08A-N270/PC		AFL2-W10A-CV/PC	AFL2-12A-D525/PC AFL2-12A-HM65/PC	AFL2-15A-H61/PC	AFL2-W15A-N270/PC AFL2-15A-H61/PC AFL2-W15B-H61/PC	AFL2-17A-H61/PC	AFL2-W19A-H61/PC	AFL2-W21A-H61/PC

Waterproof Certification Laboratory

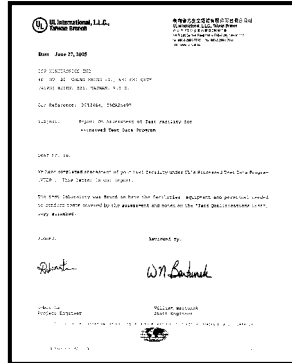
IEI ruggedized LCD products follow standard testing procedures (UL 50) and are designed for high reliability. We mainly provide IP 64, IP 65 and the latest IP 67 specifications for various mechanical dust and water resistant designs, ideal for outdoor and harsh environment applications.



IEI's LCD products are front sealed and tested in the certified house chamber under UL's Witnessed Test Data Program (WTDP).



IP 66 / UL 50



UL 50 Certificate
Chamber strictly approved by Underwriters Laboratories Inc.
 IEI's in-house water resistance chamber is approved by the UL organization commonly recognized in North America.



IP 67



IP 64



IP 65

The IP Code defined in international standard IEC 60529 classifies the degrees of protection provided against the intrusion of solid objects, dust, accidental contact, and water in electrical enclosures. It consists of the letters IP followed by two digits and an optional letter. The digits indicate conformity with the conditions summarized in the tables below.

First digit

The first digit indicates the level of protection that the enclosure provides against access to hazardous parts

Level	Object size protected against	Effective against
0	-	No protection against contact and ingress of objects
1	• Ø50mm	Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part
2	• Ø12.5mm	Fingers or similar objects
3	⊥ 2.5mm	Tools, thick wires, etc.
4	⊥ 1mm	Most wires, screws, etc.
5	dust protected	Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact
6	dust tight	No ingress of dust; complete protection against contact

Second digit

Protection of the equipment inside the enclosure against harmful ingress of water.

Level	Protected against	Details
0	not protected	—
1	dripping water	Dripping water (vertically falling drops) shall have no harmful effect
2	dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position
3	spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect
4	splashing water	Water splashing against the enclosure from any direction shall have no harmful effect
5	water jets	Water projected by a nozzle against enclosure from any direction shall have no harmful effects
6	powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects
7	immersion up to 1 m	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion)
8	immersion beyond 1 m	The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer

IEI light Fanless System

Performance & Fanless is no Longer a Tradeoff!!

IEI LIGHT FANLESS SYSTEM is a highly effective smart system. Running on Intel H61 platform, it provides stable fanless running system and strengthens the system protection. IEI LIGHT FANLESS SYSTEM embedded smart sensor can tests the ambient temperature automatically. CPU fan can changes the speed according to ambient temperature and be adapted to the condition which needs complete fanless system. For example, it can be used in high performance and silent both in need situation, such as: multimedia platform next to patient bedside, gaming, airport kiosk, restaurant ordering system.....and so on.

Benefits

- **Power Saving**
Auto switch on/off fan can reduce redundant power consumption
- **Expanding system lifecycle**
Helping users to run system more effectively, It runs system more effective, enhancing the life cycle of CP.
- **Effectively manage system environment**
User can monitor the information of system easily
- **High performance with noiseless**
IEI supports noiseless situation for the user having quiet and high performance circumstance.

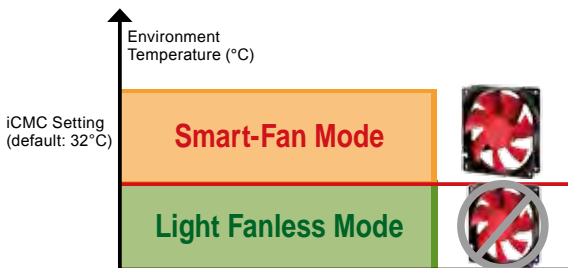


Accommodate in these module

- AFL2-15A-H61
- AFL2-W15B-H61
- AFL2-17A-H61
- AFL2-W19A-H61
- AFL2-W21A-H61

Light Fanless Operation Features

- Automatic switch between Smart Fan Mode and Light Fanless Mode
- Fan protection for temperature hysteresis in +-2C
- Strengthen system protection by auto fan switching on when reaching the temperature set by user



Automatically switched on/off



Smart fan operation automatically turns on when environment temperature is higher than 32C (default setting)

Smart Temperature Sensor ensures System Stabilization

AFOLUX Gen II light fanless technology utilizes K-type thermocouple temperature sensor to detect environment temperature and control fan operation, enhancing system stability and remote environment control. When the environment is lower than temperature setting by user, the fan will be switched off, showing the advantage of quite and dust free from fanless mode. While the environment temperature is higher, the smart fan mode will be turned on to speed up heat emission.

Environmental Temperature Detection

Thermocouple signal	Temperature	Thermic electromotive force (mV)	Material		
			+	-	
High Temperature	K	-200~1200	-5.89/-200°C / 48.8/1200	Cr, Ni	Al, Mn, Si
Medium Temperature	E	-200~800	-8.82/-200°C / 61.02/800	Cr, Ni	Ni, Cu
	J	-200~350	72.28/750 / -7.89/-200°C	Fe	Ni, Cu
Low Temperature	T	-200~350	17.82/350 / -5.6/-200°C	Cu	Ni, Cu

External Environment Sensor

External sensor can use k-type sensor to measure the external environment which is surrounding machine.



Embedded Environment Sensor

K type thermocouples is made by nickel chromium or aluminium plated nickel

IEI Light Fanless Application



Patient Bedside Entertainment System

Supporting high performance in audio entertainment system. Fanless system reduce dust accumulation do not spread disease by air.



Clean room

In clean room, it's difficult to have sound transmission, having light signal can displays the notification to help the operator running work

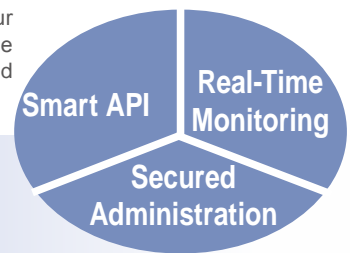


Semi-outdoor kiosk

Ticket selling machines used in semi-outdoor kiosk have warning light can help buyer to follow the buying process

iCMC (IEI Cooling Management Console)

Key embedded functions are configured through API or by a DEMO utility. IEI is happy to provide our customers with the release of this suite of software APIs (Application Programming Interfaces). These offer not only the underlying drivers required but also a rich set of user-friendly, intelligent and integrated interfaces, which speeds development, enhances security and offers add-on value for AFOLUX2 series.



Benefits

● Enhance System Reliability

- Auto adjust the fan speed, based on the environmental temperature
- Real-time monitoring of system status

● Thermal Protection

The fan will turn on automatically to cool down the system when the CPU temperature exceeds 80 °C, no matter the Temperature of Fanless is enabled or not.

IEI's AFL2 PPC series come equipped with iCMC, a micro controller that provides embedded features for system integrators. Embedded features have been moved from the BIOS level to the system level, to increase reliability and simplify integration.



Real-time Monitoring

- CPU T-junction temperature
- System Internal Air
- Environmental temperature
- CPU fan speed



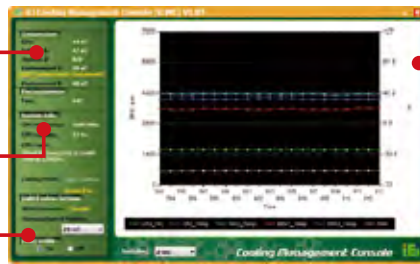
CPU Information

- CPU specifications
- CPU loading (%)



Light Fanless Settings

- Trigger temperature of light fanless settings: Under the temperature, light fanless mode kicks in. Above this temperature, smart fan mode kicks in.
- Configurable trigger temperature: Disable/4°C/8°C/12°C/16°C/20°C/24°C/28°C/32°C (default)/36°C/40°C



Graphical Data

- Green: CPU frequency
- Pink: CPU temperature
- Blue: System temperature
- Yellow: Environment temperature 1
- Red: Environment temperature 2
- Purple: Fan speed

LED Light Visual Management

AFL2 17",W19",W21" system embedded effective brightness LED dash board. Each LED IC can be set by the user in multiple functions such as brightness, color, form to be a visual management tool. It can be adapted to product line signal, patient emergency signal in hospital, advertising machine...etc.



Features

- LED 256 programmable colors
- Signaling light display user demand
- Manual scripts for LED lighting programs
- 100% software programmable for colors, light duration, and light patterns
- Totally 34 light sections for AFL2-W19A-H61 and AFL2-W21A-H61; 30 light sections for AFL2-17A-H61; Each light section can be configured independently.

■ IEI Exclusive Light Bar Simulator

Support LED Light Bar control API for the customer to suit their own software program. Light bar signals are corresponded to the light buttons. User can customize their own necessary to suit different condition.

Function Button
Add/Insert/Copy/Delete/Up/Down/Loop Start/Loop End

30/34 light buttons
User can choose the light of position to display LED Light Bar

Display time adjustment
User can insert the necessary time to display light show. (between one to twenty seconds)

Access Key
One-key setting function help users easily customize.

Full Colors
User can choose the optimal color

Scripts
Showing the detail information about lighting display

■ LED Dash Board for Visual Alarm System/Status Notification!!



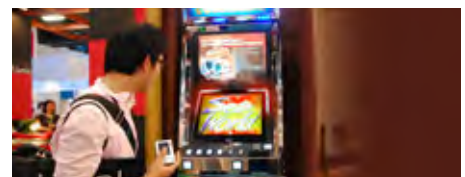
Helping product line to be fluent

Having the light bar signal to announce specific problem in product process. Assist the operator to run production.



Browsing medical list to be convenient

Patients' history case can show on the screen. With the light bar, it can notice doctors to pay attention on specific illness.



Showing appealing light simulation

Gaming machine shows appealing visual effect in entertainment arena. Displaying light effect in gaming machine to catch people's attention creating nice atmosphere.

IEIMobile®

A Professional Mobile Solution Provider

About IEIMobile

IEIMobile was established as an independent business unit by IEI Technology and the ICP group. We are a professional mobile solution provider seeking to revolutionize the way people work. Our goal is to provide our customers with reliable, affordable and ready-to-use mobile devices by developing mobile industrial products with the most advanced communications and easy-to-use mobile applications.

Our comprehensive product portfolio includes tablet PCs, industrial PDAs and in-vehicle (automotive) computing devices. We serve the needs of a wide range of industries such as retail, logistics, healthcare, construction, manufacturing, transportation and hospitality. By integrating design and innovation technologies with exceptionally-made mobile devices and manufacturing know-how, IEIMobile offers a superior production model for clients requiring design, engineering and Original Design Manufacturing (ODM) services.

At the heart of our designs is a celebration of the true spirit of mobile technology – the idea that businesses should be empowered to operate with greater autonomy, efficiency and imagination. More value-added features can be customized and integrated by using our products as a service-oriented wireless platform. IEIMobile is here to help businesses realize their full potential.

Our Roots, Our History: Industry Insight and Expertise

For the first time in 2004, one out of every six people was connected wirelessly anywhere, anytime, enabling people around the world to expand their personal relations into powerful networks and unparalleled business opportunities. As a leading industrial computer solution provider, IEI Technology recognized this record breaking event as a defining trend towards mobile computing in the industrial sector that will be met with explosive growth as mobile communication in the consumer market reaches maturity.

Instead of evolving and expanding organically in response to new market demands, and being limited by the scope of existing product lines and services, IEI Technology sought to utilize its extensive industry experience and indisputable expertise by creating an independent business unit - IEIMobile.

Being rooted in IEI Technology and the ICP Group, we are blessed with years of industry insight and expertise. Through our ability to identify market opportunities and trends, as well as develop affordable, high quality devices, IEIMobile focuses on creating a valued brand worldwide.



Partner for Growth

To seize opportunities in the fast-growing mobile computing market, IEIMobile, part of IEI Technology and the ICP Group, seeks partners that deliver both a competitive advantage and a bottom-line impact to our clients. We approach collaborative relationships with the same passion and commitment that we invest in our client relationships. Building on a legacy of quality and industry leadership, we offer opportunities for new venture creation as well as professional ODM services to meet individual client needs.

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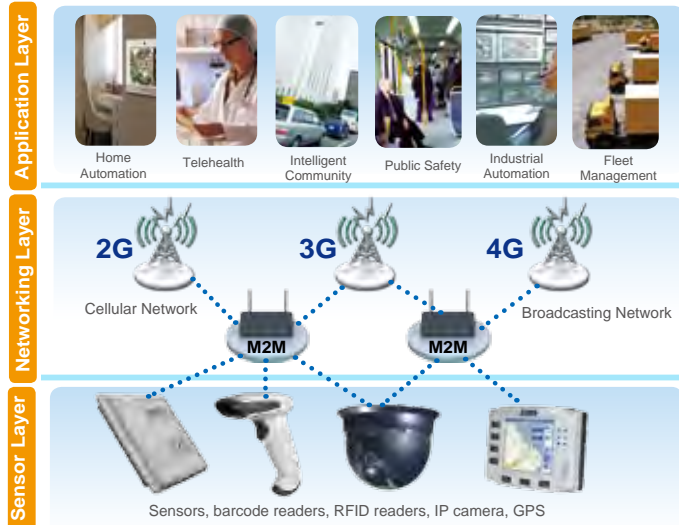
Optional Peripherals



The Internet of Things

By definition, "The Internet of Things" is literally having every "thing" connected in a vast, gigantic network, consisting of three layers: sensor layer, network layer, application layer.

What makes the IOT feasible is the world's advancement in data capture and wireless technologies. Adoption of data capture technologies have seen a stable growth in the market during the past few years. Wireless technologies on the other hand, which is the cornerstone of turning captured information into business intelligence, has undergone many innovative developments. Amongst these, Wi-Fi and mobile broadband technologies are the most popular for mobile applications.



Wi-Fi

Commonly known by its trademark name "Wi-Fi", the range of products using the IEEE 802.11 family of standards allows electronic devices to exchange data wirelessly over a computer network. A device with Wi-Fi functions, such as a laptop, smartphone, or tablet pc, can connect to a network resource such as the Internet through a wireless network access point.

Although Wi-Fi has become a popular option for connecting industrial devices, the issues that face mobile industrial applications are quite different from the issues encountered in a typical commercialized application. Industrial application requires greater energy efficiency and undisrupted Wi-Fi connection to ensure optimal business operation. To meet these requirements, IEIMobile's Wi-Fi enabled devices provides the following:

- Power saving mode while the device is on suspend and Wi-Fi communication is in idle.
- Auto connection to existing wireless LAN.
- Seamless wireless roaming and auto-switching.



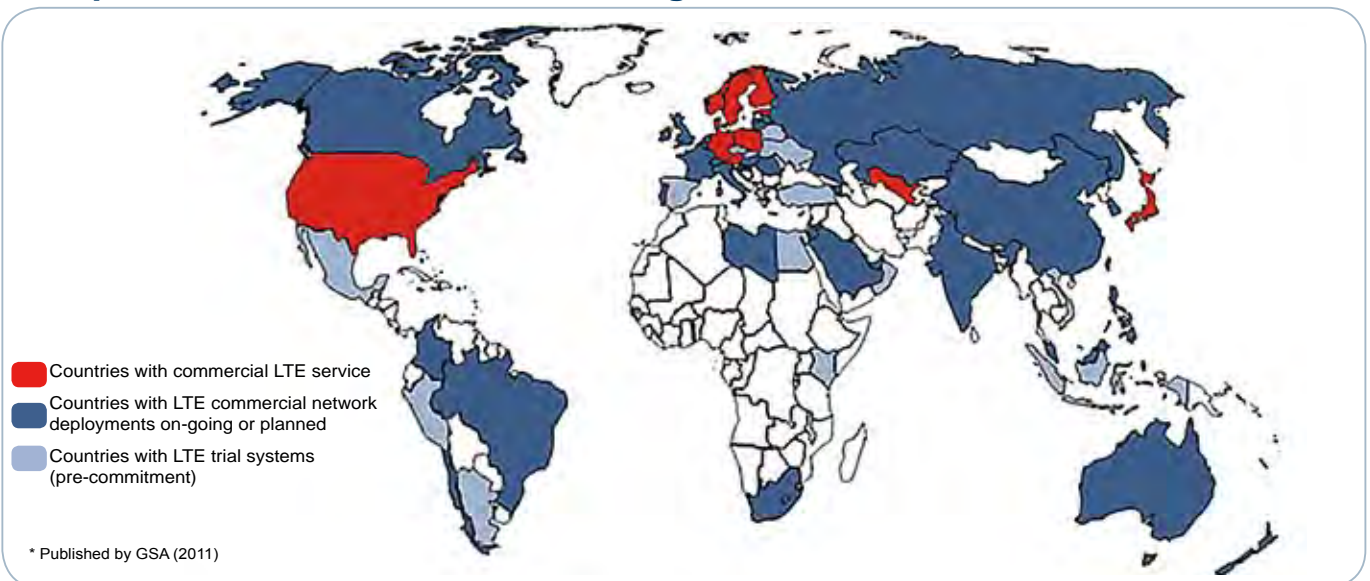
Mobile Broadband

Mobile broadband refers to high-speed wireless Internet access through a portable modem. Traditional broadband services utilize cable modem, DSL, which are wired to buildings, greatly limits the mobility of internet access. By contrast, mobile broadband that utilizes cellular networks for wireless access. 3G and 4G are the most common in use today.

Since 2003, cellular providers have been rolling out 3G networks with improved data download and upload speeds. With the rapid evolution of wireless technology, the 4th Generation (4G) wireless network was first introduced in 2010 and is expected to be the successor of previous 2G and 3G networks. Currently, the Long Term Evolution (LTE) is the 4G network being deployed worldwide.

3G LTE	Data Rate	
	3G	4G
High Mobility Communication (moving vehicle)	384 kbit/s	100 Mbit/s
Low Mobility Communication (walking / stationary)	2Mbit/s	1 Gbit/s

180 operators in 70 countries investing in LTE



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Mobile Wireless Technology Trends

Wireless technologies play an important role in the Internet of Things (IOT). The demand for mobility and automation has caused breakthrough innovations that will change the market and the world's infrastructure. Currently, two definitive trends in the wireless industry can be seen

My Wi-Fi (MiFi)

A mobile Wi-Fi hotspot device is called a MiFi Hotspot. It turns 3G signals from a SIM card into Wi-Fi signals and creates a personal Wi-Fi hotspot. This means that users can connect up to five different Wi-Fi enabled devices to the internet at once.

Compared to the alternative mobile broadband connectivity for wireless communication, it is a more cost-efficient options. Advantages include:

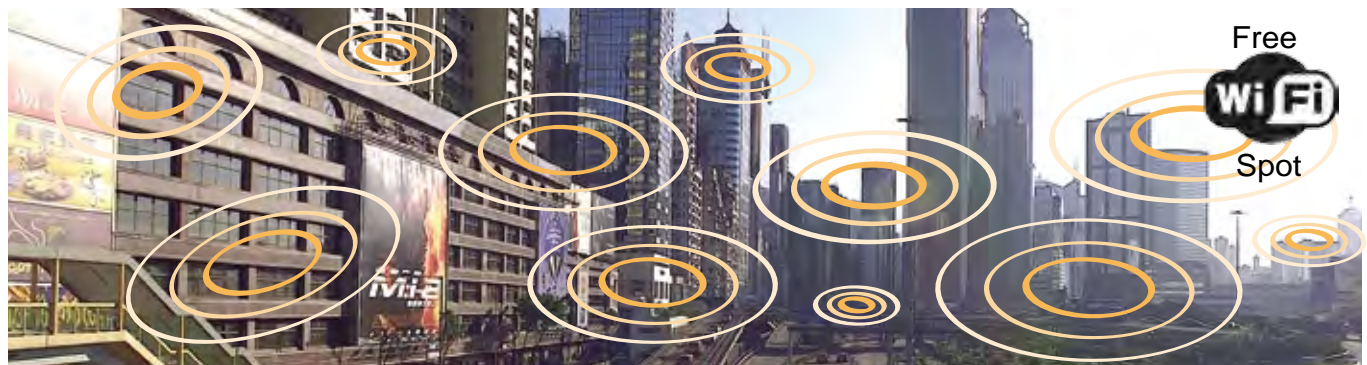
- 1.Connect multiple devices
- 2.Choice of carriers – including regional carriers
- 3.Potential discount if added to an existing service plan (depends on carrier)
- 4.Optional 4G connection (depends on carrier)
- 5.Potential for contract-free/prepaid service which is beneficial if service is not needed all the time
- 6.Ease of upgrade from 3G



1
IEIMobile Solutions

Municipal Wireless Network (Muni-Fi)

Muni-Fi is the concept of turning an entire city into a wireless access zone, giving rise to the "wireless city". It requires the deployment of hundreds to thousands of hotspots in the city and allows Wi-Fi enabled devices to make connections automatically. Earlier initiatives charged users for access. As wireless becomes increasingly ubiquitous, users can expect free access to Wi-Fi hotspots regardless of location as governments worldwide are engaged in related developments already.



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IEIMobile Applications

The Internet of Things (IOT) holds an enormous amount of opportunity and value for the industry. Having information available anytime anywhere can enhance the decision making process, increase information accuracy, and decrease costs associated with traditional business practices:

As Wi-Fi technology and infrastructure become increasingly ubiquitous and mature, the adoption of mobile devices with Wi-Fi connections will be a standard. With built-in Wi-Fi modules and internal antennas, IEIMobile's devices can connect to Wi-Fi hotspots (MiFi, Muni-Fi) and enable information obtained by mobile field workers to be transferred to the back end office.

However, in situations where Wi-Fi hotspots (MiFi, Muni-Fi) are unavailable, mobile broadband modems can be used to access wireless communication. IEIMobile's devices integrated with mobile broadband modules (such as 3G) offer fast, powerful, and stable wireless connections for users on the move.

5
Optional Peripherals

Our Dedicated Product Lines

Tablet PC

ICE Series - Your cutting-edge digital assistant

With a focus on ergonomic design and features, the ICE series tablet PC offers versatility in application and field-proven durability.

The ICE Series tablet PC features exceptional ergonomics, industrial sealing and high drop resistance for withstanding the most extreme industry-specific environment. Our obsessive attention to detail and passion for quality create a winning formula that promises to delight and inspire your staff on-the-go. It is the ultimate productivity tool for field services.



Industrial PDA (EDA)

Modat Series - Your data manager on the go

The Modat series industrial PDA (EDA) brings real-time mobile computing and cost-effective mobility in one customizable, robust package.

The next generation of industrial PDA (EDA), the Modat Series, provides a total wireless solution with Windows® Embedded Handheld or Android operating system. The Modat Series industrial PDA features a full range of wireless communication options and optimal suites of data capture technologies in one lightweight, versatile and robust package. It is specially suited to solutions in the retail, hospitality and logistics environment.

Automotive PC

Automotive PC Series - Your reliable companion on the road

Raising the bar for premier in-vehicle infotainment systems, the automotive PC series optimizes user comfort and the power of sophisticated navigation technologies for your mobile work fleet.

The automotive PC series is a CAN-bus integrated mobile computing device that promises to answer all your field force automation needs. Empowered by the latest and most advanced navigation technologies available, your fleet operation is secured and optimized at minimal cost.



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IEIMobile®
Integrated Service Platform

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Tablet PC



Tablet PC

The Coming of a New Age



At the mention of the 'Tablet PC', one cannot help but form images of Apple's iPad and its flawless touch screen features in their minds. The success of this fancy computing object, released in April 2010, was made possible by a combination of technological innovations and marketing expertise. With sales totaling 15 million in 2010, the iPad is symbolic of the coming of a new age. Indeed, over 80 new tablets were announced to compete with the iPad in early 2011 – the year of the tablet PC.

For the few that have yet to catch up with technological advancements, a tablet PC is a medium-sized computer in a slate enclosure without a keyboard or a mouse. It features a touch screen display that utilizes a stylus, digital pen, or fingertip as the primary input method. This concept of mobile computing is nothing new. Microsoft® and others developed their version of the tablet PC in the 90s, but were often criticized to be underpowered, bulky, and plagued by inefficient use of stylus or digital pen.

Along with the stable growth of tablet PCs in the consumer market, R&D breakthroughs have continuously resolved problems encountered by past designs and ensured the usability of such devices. Nowadays, a low power consumption fan-less CPU provides better system reliability; the availability of lightweight embedded OS greatly enhances computing power; the development of sophisticated touch-screen technology offers a more intuitive way of working with computers; and the penetration and integration of wireless technology makes communication effortless. In addition, due to its mobility, ease of use, and wide applications, the tablet PC is becoming and will be the most natural adoption for the enterprise sectors.

For example, in the healthcare industry, getting the right information at the right time can often mean the difference between life and death. It is imperative for clinicians to receive the most up-to-the-minute information throughout all stages of the care delivery process. The mobility of the tablet PC not only improves the accuracy of patient data entry, it also offers quick access to complete patient data and reference materials at point-of-care. The result is safer, more efficient and higher quality patient care.

In the construction industry where workers are accustomed to computing while standing or walking, a full function tablet PC combined with rugged durability greatly increases productivity and reduces risks. It allows for real time data capture and verification of inspections, punch lists, and schedule updates while keeping projects on time and within budget. Engineers can access and mark-up plans and drawings from anywhere in the field, enabling faster decision-making and up-to-date information gathering. Job site safety is constantly monitored, minimizing litigation risks.

For sales representatives expected to work from anywhere, a tablet PC offers more than just a way to create and deliver engaging presentations. It allows the user to maintain and access accurate customer information on the road, complete contracts, upload orders remotely, and track asset transfers instantly. By using a tablet PC to automate forms and file sales reports, salespeople no longer need to re-key data back in the office.

IEIMobile believes the tablet PC will inspire unfathomable innovations and we are here to provide a platform where industries can explore unlimited opportunities.



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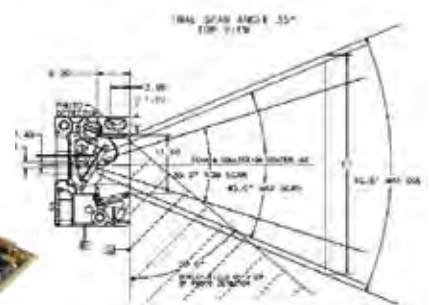
IEIMobile for Automatic Identification and Data Capture (AIDC)

Equipped with leading barcode and RFID reading technologies, IEIMobile's extensive product portfolio offers solutions across a broad range of application areas.

Barcode Reading: The successful adoption of technology involves more than choosing the right fit. IEIMobile has rich experiences in resolving related design and system integration issues such as:

- Power Management
- Housing and Optical Design
- Wavefront Distortion
- Exit Window Materials
- Laser and Collection Clear Aperture
- Abrasion Resistance and Anti-Reflection (AR) Coatings
- Exit Windows Distance, Angle, and Decode Zone
- Pitch, Skew, Roll, Bi-Directional, and Omni-Directional
- Aggressive Decoding Algorithms

IEIMobile adopts the leading barcode brand



In addition, IEIMobile's bundled Software Development Kit (SDK) provides a user manual, demo source codes, and an easy-to use API to control barcode reader performance in areas such as:

- Data Baud Rate
- Transmission Speed
- Trigger Mode
- Data Options, Prefix and Suffix Values
- Beeper Settings
- Laser Beam Options
- LED On/Off
- Power Mode Settings
- Enable or Disable Symbology Decode Support



The leading barcode engine provides the best decoding technology.



1D/2D Barcode

Barcoding is a mature technology that has been around since the 1960s. Almost all fields of business today use barcoding to identify and track commodities, allowing for a more automated business process that reduces human error and increases productivity. It is widely accepted because of the low cost of barcode labels and internationally established standards such as UPC (Universal Product Code) for grocery items, ISBN for books, and ISSN for periodicals that facilitate unique product identification. Barcodes, therefore, have become unique and universal and can be recognized anywhere in the world.

Barcodes are read by barcode scanners using optical laser or imaging software technology. Linear or 1D barcodes are a series of parallel vertical lines, while 2D matrix codes come in patterns of dots, squares, and other geometric patterns. 2D barcodes typically stores more data than 1D barcodes. Since information on barcodes cannot be updated and require a direct line-of-sight between the code and the reader in order to be read individually, its use has been replaced by RFID in industries where products are relatively complex and expensive such as the IT and the freight industry. However, barcoding can still find its place in retail point of sale environments, payment transactions, ownership transitions, or in applications which require decisions in material flow.



RFID – Radio Frequency Identification



RFID (Radio Frequency Identification) is an automatic identification technology that uses radio waves to access digital data encoded in an RFID tag. Information is sent to and read from RFID tags by a reader using an attached antenna. An RFID reader is basically a radio frequency transmitter and receiver, controlled by a microprocessor or digital signal processor. Therefore, data can be captured simultaneously from many tags within range of the antenna regardless of their position and placement. With a single tag on each product item or pallet, every object can be automatically identified and tracked from factory to shelf without breaking any security sealing or tearing any packaging. RFID is ideal for work-in-process tracking, closed-loop asset management, and security and access control systems.

RFID tags are comprised of an integrated circuit (IC) with an attached antenna. Their sizes and forms are determined by the application requirements. Some of them can be as small as a grain of rice, making them ideal for theft prevention. Information is stored in the IC and transmitted through the antenna to a reader. Tags can be read-only or allow for both read and write function. In situations where a tagged item needs to be monitored, tracked and reviewed at every phase, a writable RFID tag allows for real-time information updates as it moves through the supply chain.



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Applications

Healthcare

Barcodes are traditionally used in medical environments to prevent medication and surgical errors during the patient-care process. Barcode technology can aid in dispensing and administering medication and blood products, collecting and tracking specimen tests and x-rays as well as managing and locating medical files and equipments. On every incoming patient's wrist, there is a barcode that holds identity information, reasons for admittance, allergies and medication prescribed. The barcode is scanned to verify the patient's identity before medication is administered or before the patient undergoes a medical procedure.

In the medical field, the RFID technology helps to eliminate medical mistakes. For example, when a tissue or fluid sample is collected from a patient at a hospital, an RFID tag can be automatically tracked through various preparation stages, therefore reducing data entry errors or mishandling. A pathologist can then retrieve patient records directly from the tag to the computer screen to ensure accurate patient and sample identification.



Logistics

It is in logistics warehousing that RFID technology offers the greatest potential for scalability and application development. International logistics giants such as FedEx, DHL and UPS are all actively involved in the experimentation and implementation of RFID technology to streamline operations and optimize performance. Storage management systems, automatic data acquisition, and real-time asset tracking are among the many RFID applications that benefit businesses today.

Retail

Wal-Mart, Zara and other leading retailers were among the first to apply RFID technology to inventory management. Reduced labor cost is one immediate value brought by RFID implementation, as merchandise is recorded and tracked automatically, eliminating the need for human handling. Out-of-stock is decreased and overstock is prevented through improved visibility from RFID-enabled distribution systems. Not only can retailers keep more items on stock, they can also greatly improve shelf availability, leading to more sales and improved revenue.

Self-service

- Allow customer to check price, obtain product related information or even motivate them by providing promotional information



Customer Loyalty Program

- Customers can access their loyalty card to see their accumulated credit and reward programs



Advertising

- Play multimedia video to grab customers' attention and make shopping more interesting
- In DVD rental stores, customers can watch movie preview by scanning a DVD barcode



Production Line Information

- Operator can scan barcodes on a WIP carrier to get production information and update production status



Access Control

Compared with traditional access control systems, like barcode and magnetic stripe readers, RFID technology provides complete hands-free access to secured areas. People carrying packages, and those with disabilities, no longer have to struggle in front of the reader, trying to make closer contact. Hands-free access provides quick entry during inclement weather and makes attendance management more convenient. Electronic vehicle registration at car parks further ensures that only authorized personnel are admitted. Any unauthorized access can be recorded in real-time, triggering security to respond to an alert.



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iE Mobile Solutions

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Automation Panel Solutions

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Optional Peripherals

Tablet PC



Model		ICEROCK	ICEFIRE	ICEFIRE 2	ICECARE
Display	LCD Size	8.0" TFT LCD	10.4" TFT LCD	10.4" TFT LCD	7" TFT LCD
	Brightness (cd/m ²)	350 cd/m ²	350 cd/m ²	350 cd/m ²	500 cd/m ²
	Max. Resolution	800 x 600 pixels SVGA	1024 x 768 pixels XGA	1024 x 768 pixels XGA	800 x 480 pixels WVGA
	Viewing Angle	70/70/60/70 Deg.	88/88/88/88 Deg.	88/88/88/88 Deg.	60/70/70/70 Deg.
	Touch Screen	5-wire Resistive Type Touch	Resistive Supports Multi-touch and Gesture	Resistive Supports Multi-touch and Gesture	Projective Capacitive Touch
	Digitizer	N/A	2048 levels @ full scale Pressure Resolution	2048 levels @ full scale Pressure Resolution	N/A
System	CPU	Intel® Atom™ Z530 1.6GHZ	Intel® Atom™ D525 1.8GHZ	Intel® Atom™ N2800 1.86GHZ	T1 Sitara AM3715
	Chipset	Intel® SCH US15WP	Intel® ICH8M	Intel® NM10	N/A
	Operating System	Microsoft® Windows XP Embedded	Microsoft® Windows Embedded Standard 7 P(WES7P)	Microsoft® Windows Embedded Standard 7 P(WES7P)	Android 2.3.4
	Memory	2GB DDR2 on board	2GB 1333MHz DDR3 SDRAM	4GB 1333MHz DDR3	4GB eMMC Flash + 512MB SDRAM
	Storage	CompactFlash® slot SD card slot	1.8" 32G SSD	mSATA 8G SLC	SD Slot
Communication	Wireless LAN	Wi-Fi 802.11 b/g/n	Wi-Fi 802.11 a/b/g/n	Wi-Fi 802.11 b/g/n	Wi-Fi 802.11 b/g/n
	Bluetooth	Bluetooth V3.0 + HS (Class II)	Bluetooth V2.1 + EDR (Class II)	Bluetooth V3.0 + EDR (Class II)	Bluetooth 2.1 + EDR
	Modem	WCDMA/HSUPA (option)	WCDMA/HSUPA (option)	WCDMA/HSUPA (option)	WCDMA/HSDPA
	GPS	Option	N/A	Option	GPS w/ internal antenna
Data Collection	Camera	1.3 megapixels	3 megapixels and LED light	1.3 M CMOS camera (front) / 3 M CMOS camera (rear)	2 M CMOS camera (front)/ 5 megapixels CMOS camera (rear)
	Light Sensor	Ambient Light Sensor	N/A	N/A	N/A
	Barcode	1D Laser/2D Imager Scan Engine	1D Laser/2D Imager Scan Engine	1D Laser/2D Imager Scan Engine	1D Laser/2D Imager Scan Engine
	RFID	13.56 MHz RFID support ISO 14443A (Mifare) ISO 15693	13.56 MHz RFID support ISO 14443A (Mifare) ISO 15693	13.56 MHz RFID support ISO 14443A (Mifare) ISO 15693	13.56 MHz RFID support ISO 14443A (Mifare) ISO 14443B (Felica) ISO 15693 NFC
Indicators & Buttons	LED Indicators	Power/ Wi-Fi/Bluetooth/HDD/ 3.75G Status LED	Power/ Wi-Fi/Bluetooth/ RFID/ Battery Status LED	Power/ Wi-Fi/Bluetooth/ RFID/ Battery Status LED	Charging/Full battery LED (Orange / Green) BT enable / disable LED (Blue) Wi-Fi enable / disable LED (Green) 3.5G enable / disable LED (Green)
	Hot Keys	5-way navigation key 8 x Programmable function keys	5-way navigation key Barcode Scanner/ RFID / LED Torch/ Camera/ Wi-Fi/ Bluetooth/ SAS/Function Key	5-way navigation key Barcode Scanner/ RFID / LED Torch/ Camera/ Wi-Fi/ Bluetooth/ SAS/Function Key	Power on/off switch Reset key 4 x Function keys (Home / Menu / Back / Search)
I/O Interface	USB	2 x USB 2.0 Full Speed 1 x Mini USB	1 x USB 2.0 Full Speed	1 x USB 3.0	2 x USB 2.0
	LAN	1 x 10M/100M/1G LAN	1 x 10M/100M LAN	1 x 10M/100M/1G LAN	1 x 10M/100M LAN
	Audio	2 x 1.5W Speaker 1 x Mic in	1 x 2W Speaker 1 x Mic in	1 x 2W Speaker N/A	1 x 1.5W Speaker 1 x Digital Mic
	LED Torch	N/A	1 x LED Torch	1 x LED Torch	N/A
Power	Power Adapter	12V @ 5A @ 60W	12V @ 5A @ 60W	12V @ 5A @ 60W	19V @ 2.1A @ 40W
	Docking Power Adapter	N/A	19V@ 4.74A @ 90W	19V@ 4.74A @ 90W	N/A
	Battery	7.4V 2400 mAh Li-ion Battery	Dual 11.1V 1880mAh Li-ion Battery	Dual 11.1V 1880mAh Li-ion Battery	Dual 11.1V 1880mAh Li-ion Battery
Environment	Operating Temperature	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	-10°C ~ 40°C
	Storage Temperature	-20°C ~ 60°C	-10°C ~ 60°C	-10°C ~ 60°C	-10°C ~ 60°C
	Humidity	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing
	Drop Survival	1.0 M	90 cm	90 cm	1.2 M
	Environment Protection	IP 62 compliant front panel	IP 64 compliant front panel	IP 64 compliant front panel	IP 64 compliant front panel
	Certifications	CE/FCC	CE/FCC, Medical-grade Class B	CE/FCC, Medical-grade Class B	CE / FCC
Physical Characteristics	Dimension(LxWxH)(mm)	255 x 180 x 37	270 x 265 x 29	270 x 265 x 29	248 x 153 x 36
	Weight	1.1 kg	1.7 kg	1.7 kg	0.95 kg

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Optional Peripherals

ICEFIRE

10.4" Mobile Clinic Assistant

- 10.4" TFT XGA LCD
- Intel® Atom™ D525 dual core platform
- Powered by Windows® Embedded Standard 7 P(WES7P)
- Dual-mode input (Digitizer + Multi-Resistive Touch)
- Dual hot swappable batteries
- 1D/2D barcode reader, RFID reader, smart card reader and fingerprint reader
- Bluetooth, Wi-Fi, 3.75G wireless



3.75G/HSUPA	Bluetooth	Wi-Fi	1D Barcode Scanner	2D Barcode Scanner					
Digitizer Screen	Touch Screen	Camera	Fingerprint Reader	SCR	RFID	Windows XP	Windows 7	Intel Intelligent Systems Alliance	One Key Recovery

Mobile Clinic Assistant Applications



Retrieve patient data at bedside for optimal point-of-care treatment.



Instant access to patient medical history for real-time diagnosis.



Accurately capture and record patient symptoms during an emergency.



Increase productivity and decrease opportunities for error through documentation directly at point-of-care.

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High Performance and Low Power Consumption Mobile Platform

The ICEFIRE is powered by 1.8 GHz Intel® Atom™ D525 dual-core processor (1M cache). It is a compact and highly integrated application processor with excellent performance that allows low idle mode to improve power efficiency.

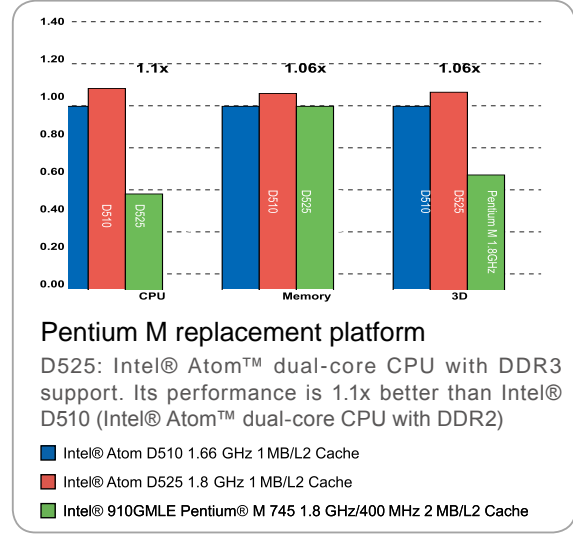


Features

- **DDR3 support up to 4GB by UEFI BIOS**
 - » Power saving more than 30% compared to DDR2
 - » Higher bandwidth performance, up to 2133 MT/s standardized
- **UEFI BIOS**
 - » Under 10 seconds boot time for fast boot
 - » Supports more than 2.2 TB HDD capacity
 - » Supports dual ranks x16 DDR3 memory up to 2 GB per DIMM, system up to 4 GB
- **New graphic performance**
 - » The GPU contains 3rd generation graphics core GMA3150 and supports DX9*, MPEG2 hardware acceleration
 - » VGA resolution up to 2046 x 1536 pixels
 - » Single 18-bit LVDS resolution up to 1366 x 768 pixels

The ICEFIRE is preinstalled with Windows® 7 Professional for Embedded Systems. With Windows Touch, gestures, handwriting, voice recognition, and advanced 3D display control, users' experiences are limited only by their imagination.

The ICEFIRE is designed based on Windows and Intel® open architecture to extend mobility for point-of-care and healthcare software applications. This mobility allows many tasks to be performed on the run, minimizing time wasted between the nursing station and the patient's room. The ICEFIRE enables nurses to deliver higher quality patient care while significantly improving productivity.



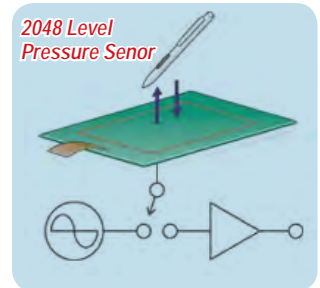
1
IEIMobile Solutions

Dual-Mode Input

Along with Windows® 7 digitizer support and dual-mode input support, the ICEFIRE features both WACOM digitizer and traditional resistive touch input with auto-sensing and auto-switching. When a digitizer pen moves close to the screen of the ICEFIRE, the digitizer automatically takes effect and switches off resistive touch input mode.

The digitizer is a more accurate and sensitive input method that can detect stylus pressure, speed, and angle. This feature is suitable for a clinician to note patient's vital signs. Another key benefit of the digitizer is to prevent mis-touch. A clinician can use the digitizer pen to write accurate prescriptions without the worry of input errors. The working principles of the EMR® digitizer are as follows:

- The tablet surface incorporates a sensor board that detects the pen's movement.
- Weak energy is induced in the pen's resonant circuit by a magnetic field generated by the sensor board surface.
- The pen's resonant circuit then makes use of this energy to return a magnetic signal to the sensor board surface.

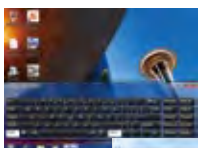


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Automation Panel Solutions

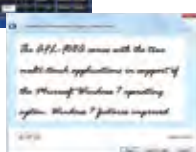
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Enhanced on-screen keyboard



Hand-writing recognition

Dual input modes combined with acceleration keys make computing flexible and convenient for healthcare staff working in many different applications.

The ICEFIRE also provides Windows® 7 featured multi-touch, gesture, and hand-writing recognition.



Digitizer Mode



Resistive Touch Mode



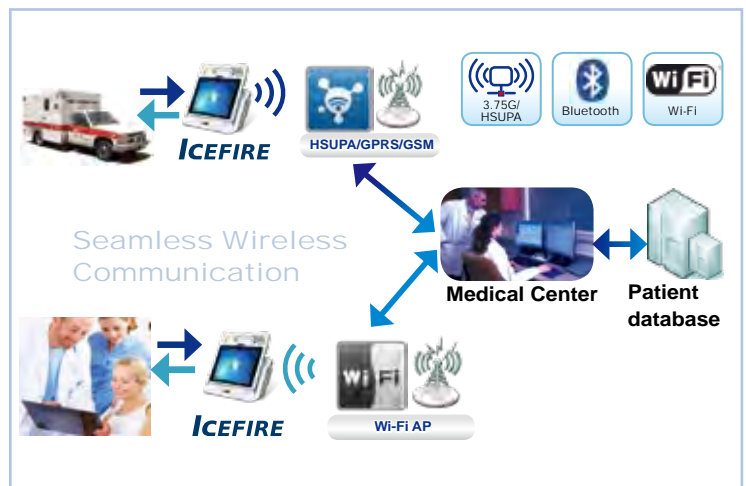
Multi-Touch Support

Seamless Wireless Communication

In a local area where wireless LAN is available, the ICEFIRE connects to a wireless local area network (WLAN) via built-in 802.11 a/b/g/n wireless LAN communication module.

When wireless LAN is not available, the ICEFIRE connects to a wide area network (WAN) via telecommunication and the built-in 3.75G modem.

With mobile communication technology, you can improve ongoing and critical dialogue between medical staffs. Records are accurate, research is readily available, and the diagnosis and treatment process are streamlined. By combining seamless wireless communication technology, voice over IP (VoIP), central database connectivity, web-enabled medical IT and other applications, the ICEFIRE helps caregivers get back to their top priority — spending time with their patients and providing point-of-care service.



Technology/Bands

- HSPA/UMTS – 800/850/900/1900/2100 MHz
- Quad-band EDGE/GPRS/GSM – 850/900/1800/1900 MHz
- Dual-band EV-DO/CDMA – 800/1900 MHz

Advanced RF Technologies

Receive Diversity on all HSPA/UMTS/EV-DO/CDMA bands
Receive equalization

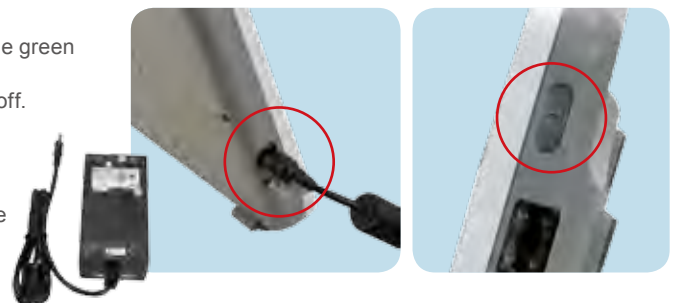
RADIO	SUPPORT
EV-DO/EV-DO Rev. A 800MHz*	✓
EV-DO/EV-DO Rev. A 1900 MHz*	✓
HSDPA/HSUPA 800MHz*	✓
HSDPA/HSUPA 850MHz*	✓
HSDPA/HSUPA 900MHz*	✓
HSDPA/HSUPA 1900MHz*	✓
HSDPA/HSUPA 2100MHz*	✓
GSM/GPRS/EDGE 850MHz	✓
GSM/GPRS/EDGE 900MHz	✓
GSM/GPRS/EDGE 1800MHz	✓
GSM/GPRS/EDGE 1900MHz	✓
Standalone GPS, AGPS, gpsOneXTRA™	✓

Gobi supports major RF bands around the world and GPS— all with one chipset Technology/Bands

Efficient Power Management

Illuminated Power Button Supports Laptop-style Power Management

- One click to boot up the system. The green LED turns on.
- One click to suspend the system or to resume from suspend mode. The green LED blinks when the system is in suspend mode.
- Push for four seconds to shut down the system. The green LED turns off.



DC Power Input

The bundled AC to DC power adapter provides 12 V DC to power the ICEFIRE in full-speed and charge the batteries simultaneously.

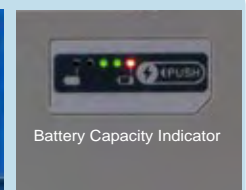
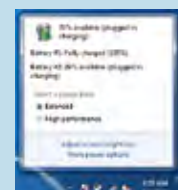
Dual Battery Pack

Each battery pack, with medical-grade certifications, provides 11.1 V 1880 mAh capacity and supports a hot swappable function. When one battery is removed, the system automatically switches power consumption to the other battery. With an additional battery pack and the hot swappable feature, the ICEFIRE ensures non-stop point-of-care, 24 hours a day, every day.



Each battery pack has capacity indicators. Besides these visual indicators, operating systems like Windows® 7 will also display information of available batteries and capacity on the desktop.

The ICEFIRE consumes the battery with lower power capacity first. When charging, the ICEFIRE charges the battery with higher power capacity first then the other.



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Advanced Data Acquisition Technology

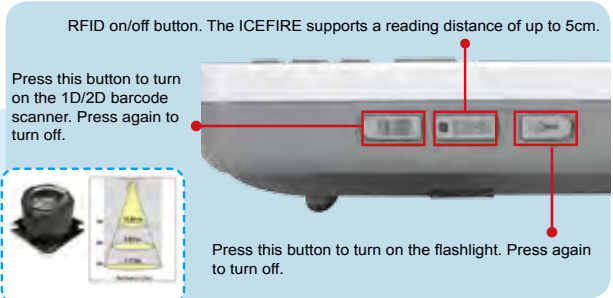
1D/2D Barcode Scanner

	1D	2D
Speed	200 scans/s auto adaptive	60 images/s auto adaptive
Symbology	EAN/UPC, RSS, Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved, Matrix, Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, postal codes	Data Matrix, PDF417, Micro PDF 417, Maxicode, QR, Aztec, EAN.UCC composite

LED Torch for Night Time Use



High performance LED flashlight
--- Never leaves you in the dark



RFID on/off button. The ICEFIRE supports a reading distance of up to 5cm.
Press this button to turn on the 1D/2D barcode scanner. Press again to turn off.



Press this button to turn on the flashlight. Press again to turn off.

13.56 MHz RFID Reader Supports ISO14443A (Mifare) ISO15693

The built-in RFID reader for data collection enables hospitals to automate data capture, improve data accuracy, increase productivity and streamline everyday processes in patient rooms, admittance, laboratories and the pharmacy.



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Optional Peripherals

3 Megapixels Camera with LED Flash

- Integrate a 3 megapixels camera to capture images or data and immediately save it in the ICEFIRE or send it back to the server via Wi-Fi or HSUPA.
- Press the camera hot key to turn on the camera.
- Choose "Options" to preview and display the pictures.



Security and Access Control

Combined with Windows® 7 Embedded security management feature, the built-in fingerprint reader allows hospitals to control access priorities.

The optional USB interface smart card reader supports identity verification and makes the ICEFIRE an ideal access control device for transaction-based medical cloud-computing systems.



Optional Smart Card Reader (SCR)



Fingerprint Reader

Indicators and Hot Keys

Indicators

- Green light shows Wi-Fi is enabled
- Blue light shows Bluetooth is enabled
- Orange light shows that Battery-1 is being charged
- Orange light shows that Battery-2 is being charged



Hot Keys

- 4-direction keys (UP, DOWN, LEFT, and RIGHT), and ENTER key
- Wi-Fi on/off button
- Bluetooth on/off button
- Secure Attention Sequence (SAS): identical to "CTRL-ALT-DEL" keystroke combination

Function Key Combinations

- Rotate Screen 90° clockwise
- User-defined Task A, default setting is to launch Windows File Manager
- User-defined Task B, default setting is to rename a file
- Function Key + Up/Down Key LCD Brightness Control

Multi-functional Docking Station

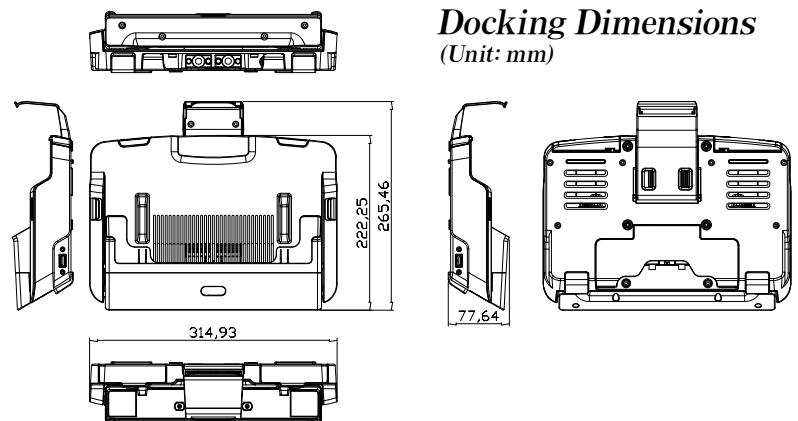


Battery Charging Packs

The ICEFIRE Docking Station (ICEFIRE-DS) provides power to one docked ICEFIRE and two plug-in battery packs simultaneously.



Docking Dimensions (Unit: mm)



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PC-Style Peripherals

10/100 Mbps Ethernet LAN

Whenever Ethernet LAN is available, the LAN port of the ICEFIRE provides another faster and more efficient networking option.



Bluetooth v2.1 with EDR

Bluetooth provides a secure way to connect and exchange information with devices such as a mobile phone, handsfree headset, HID, printer, speaker, or Bluetooth medical device.

Control Center Utility

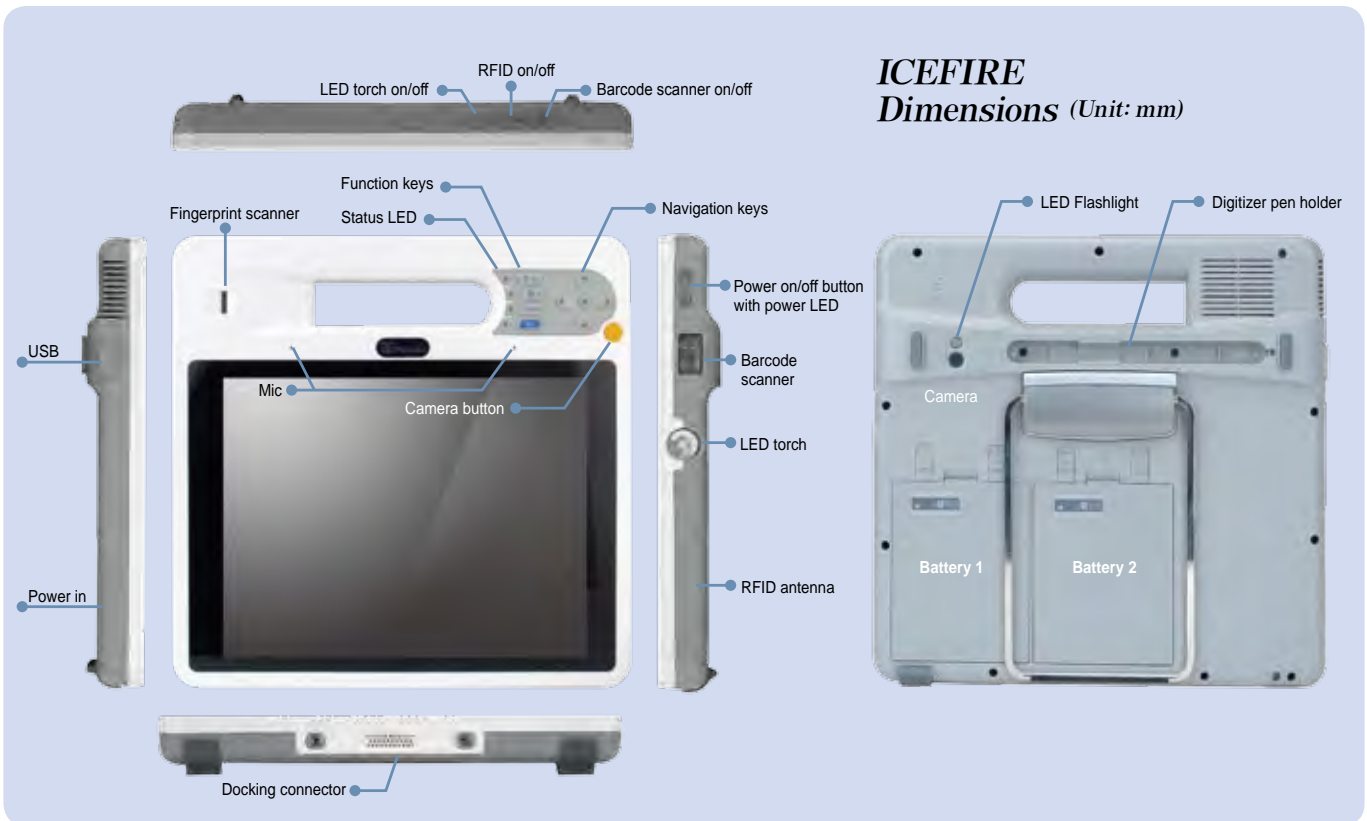
With ICEFIRE control center, user can define the hot keys and direction keys, which can provide them much flexible choice and meet their behavior.

Advantages

- Easy to setup
- Flexible selection table
- Pre-install tips



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ICEFIRE
Dimensions (Unit: mm)

Compact, Slim, and Ergonomic Design

IP64 Compliant and Easy-to-Clean Plastic Housing



Ergonomic Handlebar and Hinge Stand



Handle design for easy carry



Ergonomic Grip Handle



Desk-mount stand for ease of use

Medical-grade Certification Approved

EN 60601-1
EN 60950



Antibacterial Housing



Slim and Lightweight Design

1.8 kg with Battery



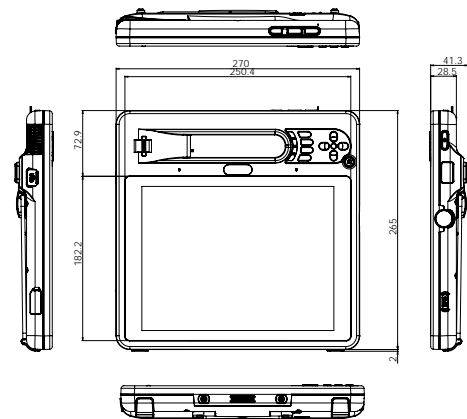
WOW (Workstation on Wheels) Installation

The combination of ICEFIRE and ICEFIRE Docking Station is an ideal solution for a healthcare cart:

- Desktop, swing arm, or VESA mounting options
- Expanded I/O connects to peripherals such as keyboard/mouse, printer, barcode scanner, or medical equipments
- Easy to draw out and draw back
- Convenient bedside healthcare
- Power and battery options support uninterrupted point-of-care



Dimensions (Unit: mm)



Easy and Flexible Installation



Desktop Installation



Wall-mount Installation



Ergonomic Sliding and Hooking Design



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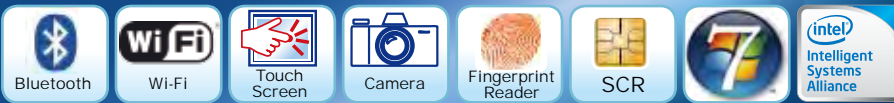
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ICEFIRE-ET

Enterprise Tablet PC

- 10.4" TFT 350 cd/m² XGA LCD with multi resistive touch
- Intel® Atom™ D525 dual core 1.8 Ghz platform
- Powered by Windows® Embedded Standard 7 P
- 3 Megapixels camera with LED flash
- Bluetooth, Wi-Fi a/b/g/n, Ethernet LAN
- Dual hot swappable batteries
- Optional docking station / smart card reader



Applications

1

IEIMobile Solutions



Enterprise Mobility

Using technology to quickly move products helps save your time and increases productivity. The right technology enables the flow of information between handheld devices used by your workers and your core business systems. The ICEFIRE-ET utilizes wireless local area networks (WLANs) and management software to increase the data transfer speed and optimize your working mobility in logistics and warehousing environments.

2

Automation Panel Solutions

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RISC-based Solutions

Inspection

The ICEFIRE-ET is most suitable for inspection applications. It features an ergonomic and light weight design that is easy to carry around on-the-job. It also offers exceptional functions that allow information to be stored in real-time and help businesses to provide transparent inspection and accurate information.



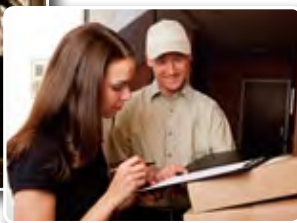
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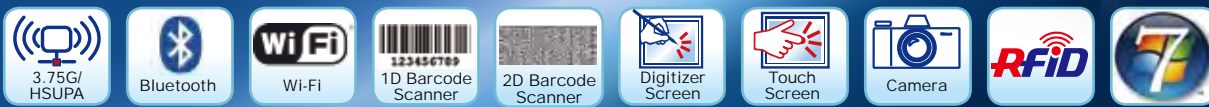
Logistics and Warehouse

Enhancing on-duty staff work force and mobility, the tablet PC brings more efficiency to the workplace. All data and information are saved in the ICEFIRE-ET and can be transferred via wireless communication providing real-time responses without any loss.

ICEFIRE 2 **New**

10.4" Mobile Clinic Assistant

- 10.4" TFT XGA LCD
- Intel® Atom™ N2800 1.86GHz processor
- Powered by Windows® Embedded Standard 7 P
- Built-in 8GB mSATA storage
- Bluetooth, Wi-Fi, 3.75G wireless with GPS
- 1D/2D barcode reader, 13.56MHz RFID reader
- Dual-mode input (Digitizer + Multi-Resistive Touch)
- Dual hot swappable battery
- Dual Camera:
 - 1.3 Megapixels front camera
 - 3.0 Megapixels rear camera

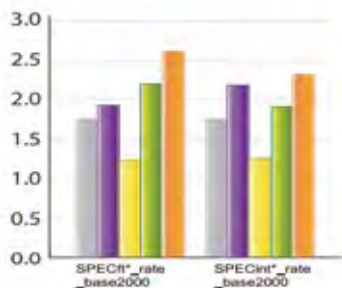


High Performance, Low Power Consumption CPU for Fanless Design

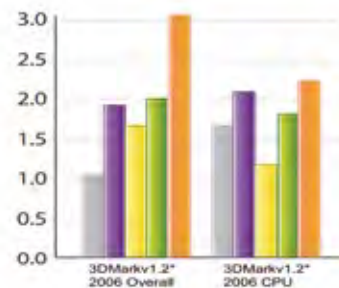
The new generation Intel® Atom™ N2800 processor provides reduced power consumption with high performance suitable for mobile devices in industrial computing. Benefits include:

- Display options include two digital ports supporting extra LVDS/HDMI/VGA interface
- Two times improved graphics with two HD video support
- 2 times improved graphics with 2 HD video support
- Faster memory up to DDR3 1066MHz
- Support fan-less design

Processor Performance



Graphics Performance



■ Intel® Atom™ processor D525
 ■ Intel® Atom™ processor N455
 ■ Intel® Atom™ processor N2800
■ Intel® Atom™ processor D2700
 ■ Intel® Atom™ processor N2600

CPU Specification Comparison			
	ICEFIRE	ICEFIRE2	
Core Functionality	1.67 GHz (N455) 1.8 GHz (D525)	1.6 GHz (N2600)	1.85 GHz (N2800)
Process Technology / Packing Size	45-nm / 22x22	32-nm / 22x22	
Graphics Base Frequency	200 MHz (N455) 400 MHz (D525)	400 MHz (N2600)	640 MHz (N2800)
Memory Technology	DDR3 667 (N455) DDR3 800 (D525)	DDR3 800 (N2600)	DDR3 1066 (N2800)
Max Memory Capacity	2GB (N455) 4GB (D525)	2GB (N2600)	4GB (N2800)
CPU / TDP	D525 / 13W	N2600 / 3.5W	N2800 / 6.5W
Chipset / TDP	ICH8M / 2.4W	NM10 / 1.5W	NM10 / 1.5W
Power kit / TDP	Power / 7W	Power / 3W	Power / 3W
Total	22.4W	8W	11W

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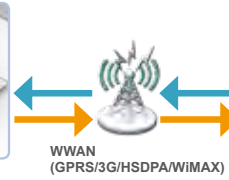
GPS Application : Position & Location

Together with wireless network technology (such as 3G), the built-in GPS tracks the exact location of the ICEFIRE users:

- Users can be located on a map to reference his/her own location in relation to other landmarks. With location based services, mobile workers can locate important destinations such as gas stations and customers in an unknown territory.
- Location information obtained from the GPS can be transmitted to the backend office through wireless broadband connectivity, allowing employees to be tracked while they are on the move.



Back-office Tracking



WWAN (GPRS/3G/HSDPA/WIMAX)



Out-field Location

mSATA Storage

mSATA SSD leverages the speed and reliability of the SATA interface, providing high-performance and cost-effective storage for smaller devices and enabling more compact integration into a wide variety of applications. Compared to the traditional HDD and CF card storage, mSATA has the following advantages:

- Fast re-write capabilities
- Able to withstand vigorous vibrations
- Small in size



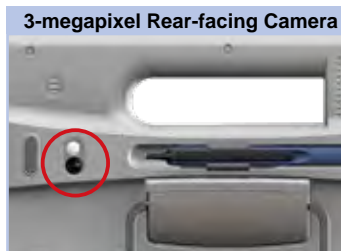
Flexible Module Expansion Slot

Located at the back of the ICEFIRE 2, the module expansion slot is designed for easy and fast exchange of a variety of modules including RFID readers. This design brings functional versatility to the ICEFIRE 2 to serve a diverse range of applications.



Integrated Dual Camera

The ICEFIRE 2 is integrated with two camera, one on the front and one on the rear. The 3-megapixel rear-facing camera can be utilized for photographic and video documentation purposes. The 1.3-megapixel front-facing camera enables unified video communications wirelessly.



3-megapixel Rear-facing Camera



1.3-megapixel Rear-facing Camera

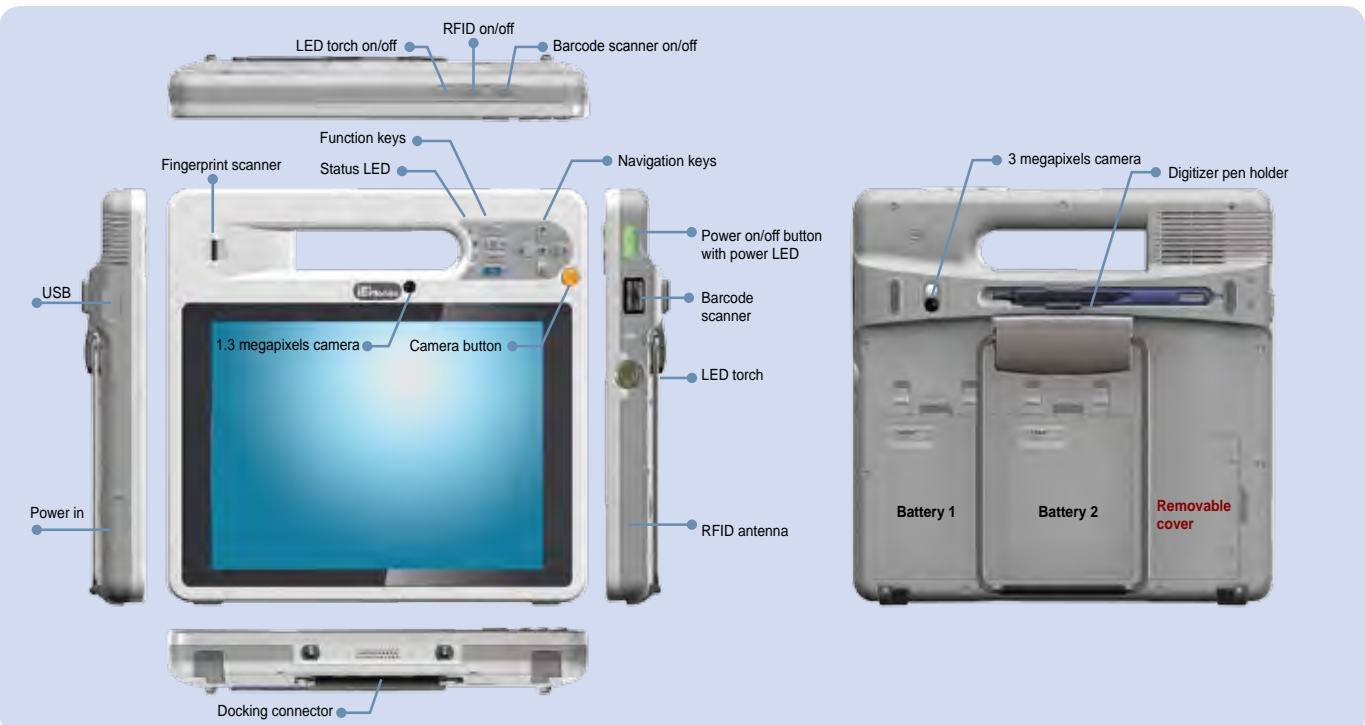
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IEIMobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals



Selection Guide

		ICEFIRE			ICEFIRE 2		
Model		ICEFIRE-T10A-HU/2G-32S-R11	ICEFIRE-T10A-TR/2G-32S-R10	ICEFIRE-T10A-ET/2G-32S-R10	ICEFIRE2-T10-HU-R10	ICEFIRE2-T10-TR-R10	ICEFIRE2-T10-ET-R10
Display	LCD Size	10.4" TFT LCD					
	Brightness (cd/m ²)	350 cd/m ²					
	Max Resolution	1024 x 768 pixels XGA					
	Viewing Angle	88/88/88/88 Deg.					
	Touch Screen	Resistive Support Multi-touch and Gesture					
	Digitizer	256 levels @ full scale pressure resolution	N/A	N/A	2048 levels@ full scale pressure resolution	N/A	N/A
System	CPU	1.8GHz Intel® Atom™ D525			1.86GHz Intel® Atom™ N2800		
	Chipset	Intel® ICH8M			Intel® NM10		
	Operating System	Microsoft® Windows® Embedded Standard 7 P (WES7P)			Microsoft® Windows® Embedded Standard 7 P (WES7P)		
	Memory	1333MHz 2GB DDR3 SDRAM			1333MHz 4GB DDR3 SDRAM		
	Storage	32GB SSD			mSATA 8G SLC		
Communication	Wireless LAN	Wi-Fi 802.11a/b/g/n			Wi-Fi 802.11b/g/n		
	Bluetooth	Bluetooth V2.1+ EDR (Class 2)			Bluetooth V3.0 + EDR (Class 2)		
	Modem	WCDMA/HSUPA	N/A	N/A	GPRS/CDMA/HSDPA	N/A	N/A
	GPS	N/A	N/A	N/A	Yes	N/A	N/A
Data Collection	Camera	3 megapixels and LED Light			1.3 megapixels CMOS camera (Front) / 3 megapixels CMOS camera (Rear)		
	Barcode	1D/2D Imager Scan Engine		N/A	1D/2D Imager Scan Engine		N/A
	RFID	13.56 MHz RFID supports ISO15693 and ISO14443A/B (by customization) compliant		N/A	13.56 MHz RFID support ISO 15693 and 14443A /14443B (by customization) compliant		N/A
Fingerprint Reader	Yes	Yes	N/A	Yes	Yes	N/A	
Indicators & Buttons	LED Indicators	Power/ Wi-Fi/Bluetooth/ RFID/ Battery Status LED		Power/ Wi-Fi/Bluetooth/ Battery Status/	Power/ Wi-Fi/Bluetooth/ RFID/ Battery Status		Power/ Wi-Fi/ Bluetooth/ Battery Status
	Keys	5-way Navigation key/Barcode Scanner/RFID/LED Torch/Camera/Wi-Fi/Bluetooth/SAS/Function Key		5-way Navigation key/ Camera/Wi-Fi/Bluetooth/ SAS/Function Key	5-way navigation key/ Barcode Scanner/RFID/LED Torch/Camera/Wi-Fi/ Bluetooth/SAS/Function Key		5-way navigation key/ LED Torch/Camera/ Wi-Fi/Bluetooth/ SAS/ Function Key
I/O Interface	USB	1 x USB 2.0			1 x USB 3.0		
	LAN	1 x 10/100 Mbps			1 x 10/100/1000 Mbps		
	Audio	1 x 2W Speaker, 1 x Mic in					
	LED Torch	1 x LED Torch	1 x LED Torch	N/A	1 x LED Torch	1 x LED Torch	N/A
Power	Power Adapter	12V @ 5A @ 60W					
	Docking Power Adapter	19V @ 4.74A @ 90W					
	Battery	Dual 11.1V 1880mAh Li-ion Battery					
Environment	Operating Temperature	0°C to +40°C					
	Storage Temperature	-10°C to +60°C					
	Humidity	5%~95% non-condensing					
	Drop Survival	90 cm					
	Environmental Protection	IP 64 compliant front panel					
Physical Characteristics	Certifications	CE/FCC, Medical-grade Class B EN 60601-1/ EN60950	CE/FCC, Medical-grade Class B EN 60601-1/ EN60950	CE/FCC	CE/FCC, (Medical-grade Class B)	CE/FCC, (Medical-grade Class B)	CE/FCC
	Dimensions (LxWxH) (mm)	270 x 265 x 29			270 x 265 x 29		
	Weight	1.7 kg	1.7 kg	1.6 kg	1.7 kg	1.7 kg	1.6 kg

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Ordering Information

Part No.	Description
ICEFIRE: Intel® Atom™ D525 CPU with Windows® Embedded Standard 7	
ICEFIRE-T10A-HU/2G-32S-R11	10.4" TFT-LCD 350 cd/m ² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ D525 1.8GHz CPU, Multi-Touch and Digitizer Dual Mode, 2GB DDR3 RAM, HSUPA, 802.11 a/b/g/n Wireless, Bluetooth, GPS, 1D/2D Barcode Scanner, RFID, 3M Pixel Camera, LED Torch, 32G SSD, WES7P RoHS
ICEFIRE-T10A-TR/2G-32S-R10	10.4" TFT-LCD 350 cd/m ² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ D525 1.8GHz CPU, Resistive Multi-Touch, 2GB DDR3 RAM, 802.11 a/b/g/n Wireless, Bluetooth, 1D/2D Barcode Scanner, RFID, 3M Pixel Rear Camera, LED Torch, 32G SSD, WES7P, RoHS
ICEFIRE-T10A-ET/2G-32S-R10	10.4" TFT-LCD 350 cd/m ² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ D525 1.8GHz CPU, Resistive Multi-Touch, 2GB DDR3 RAM, 802.11 a/b/g/n Wireless, Bluetooth, 32G SSD, WES7P RoHS
ICEFIRE 2: Intel® Atom™ N2800 CPU with Windows® Embedded Standard 7	
ICEFIRE2-T10-HU-R10	10.4" TFT-LCD 350 cd/m ² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Multi-Touch and Digitizer Dual Mode, 4GB DDR3 RAM, HSUPA, 802.11 b/g/n Wireless, Bluetooth, GB, 1D/2D Barcode Scanner, RFID, 3M Pixel Rear Camera, 1.3M Pixel Front Camera, LED Torch, 8G, WES7P RoHS
ICEFIRE2-T10-TR-R10	10.4" TFT-LCD 350 cd/m ² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Resistive Multi-Touch, 4GB DDR3 RAM, 802.11 b/g/n Wireless, Bluetooth, 1D/2D Barcode Scanner, RFID, 3M Pixel Rear Camera, 1.3M Pixel Front Camera, LED Torch, WES7P, RoHS
ICEFIRE2-T10-ET-R10	10.4" TFT-LCD 350 cd/m ² XGA Industrial Mobile Clinical Assistant with Dual-core Intel® Atom™ N2800 1.86GHz CPU, Resistive Multi-Touch, 4GB DDR3 RAM, 802.11 b/g/n Wireless, Bluetooth, WES7P RoHS

Model Variations

Part No.	Digitizer	Touch	Wireless	Bluetooth	3.75G	GPS	Barcode	RFID	Fingerprint Reader	Memory
ICEFIRE: Intel® Atom™ D525 CPU with Windows® Embedded Standard 7										
ICEFIRE-T10A-HU/2G-32S-R11	Digitizer	Resistive Multi-touch	802.11 a/b/g/n	Ver. 2.1+EDR, Class 2	Qualcomm	N/A	1D/2D	RFID	Yes	32G SSD
ICEFIRE-T10A-TR/2G-32S-R10	N/A	Resistive Multi-touch	802.11 a/b/g/n	Ver. 2.1+EDR, Class 2	N/A	N/A	1D/2D	RFID	Yes	32G SSD
ICEFIRE-T10A-ET/2G-32S-R10	N/A	Resistive Multi-touch	802.11 a/b/g/n	Ver. 2.1+EDR, Class 2	N/A	N/A	N/A	N/A	N/A	32G SSD
ICEFIRE 2: Intel® Atom™ N2800 CPU with Windows® Embedded Standard 7										
ICEFIRE2-T10-HU-R10	Digitizer	Resistive Multi-touch	802.11 b/g/n	Ver. 3.0+EDR Class 2	Qualcomm	GPS	1D/2D	RFID	Yes	8G mSATA
ICEFIRE2-T10-TR-R10	N/A	Resistive Multi-touch	802.11 b/g/n	Ver. 3.0+EDR Class 2	N/A	N/A	1D/2D	RFID	Yes	8G mSATA
ICEFIRE2-T10-ET-R10	N/A	Resistive Multi-touch	802.11 b/g/n	Ver. 3.0+EDR Class 2	N/A	N/A	N/A	N/A	N/A	8G mSATA

Packing List

Item	Part No.	HU	TR	ET
Digitizer Pen	7Z000-SU5E10S06AU00X-RS	•		
Stylus	43125-0002C0-00-RS		•	•
Battery Pack	31603-000016-RS	•	•	
Battery Pack-B	31603-000020-RS			•
Medical-grade Power Adapter (12V/60W)	63040-010060-020-RS	•	•	
Non-Medical-grade Power Adapter (12V/60W)	63040-010060-030-RS			•
User's Manual CD	7B000-000552-RS	•	•	•



Optional Accessory List

Item	Part No.	Description
Docking Station	ICEFIRE-T10A-DS01-R10	ICEFIRE-T10A Docking Station
	63040-010090-000-RS	Medical Certification Docking Power Adapter, 19V/4.74A/90W
	ICEFIRE-T10A-DS02-R10	ICEFIRE-T10A Docking Station
	63040-010090-020-RS	Non-Medical Certification Docking Power Adapter, 19V/4.74A/90W
Smart Card Reader	ICEFIRE-T10A-SCR01-R10	USB 2.0 (Full Speed) Smart Card Reader Complies with ISO7816-1,2,3 for ICEFIRE-T10A
Battery Pack	31603-000016-RS	11.1V 1880 mAh Battery
Battery Pack-B	31603-000020-RS	11.1V 1880 mAh Battery, Black
Digitizer Pen	7Z000-SU5E10S06AU00X-RS	Digitizer Sensor Pen
Stylus	43125-0002C0-00-RS	Touch Pen
Carrying Case	7Z000-ICEFIRET10APOUCH-RS	Black, leather protective bag with shoulder strap

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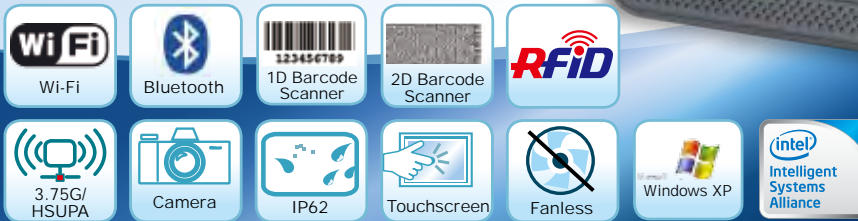
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Optional Peripherals

ICEROCK

Infotainment Tablet PC

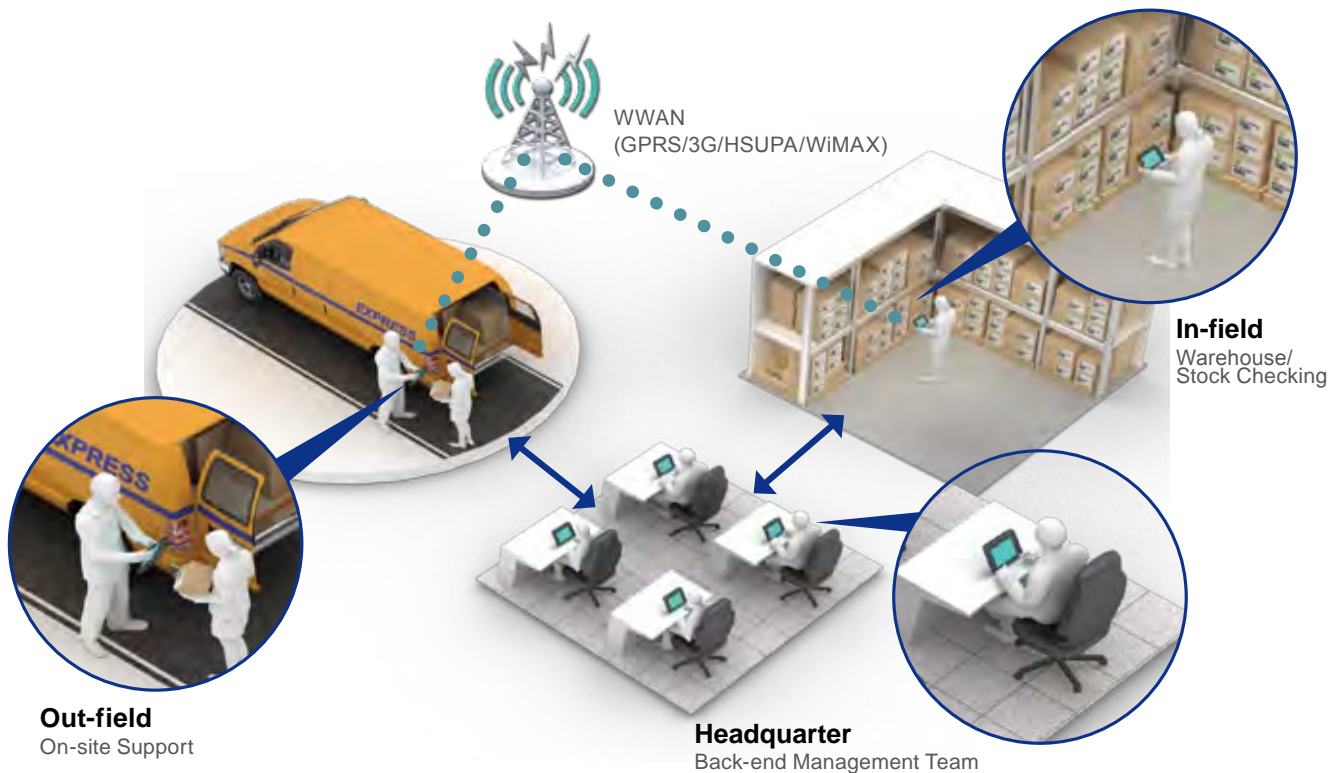
- 8" 350 cd/m² TFT XGA LCD
- Intel® Atom™ Z530 platform
- Powered by Windows® XP Embedded
- Bluetooth, Wi-Fi, 3.75G wireless
- Optional 1D/2D barcode scanner and 13.56 MHz RFID reader compliant with ISO 15693 and ISO 14443A



Application

The ICEROCK is a semi-rugged and powerful tablet PC for indoor, outdoor and home automation applications. It can be applied across vertical markets that need a robust device for harsh work environments.

The ICEROCK utilizes the power of Intel® Z530 processors and integrates Wi-Fi 802.11 b/g/n, Bluetooth and enhanced Gobi™ 3000 mobile broadband for out-field users.



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Easy to Use

Ambient Light Sensor

Automatically adjusts the screen brightness for optimum visibility and energy efficiency.



1.3 Megapixels Camera and Microphone

Built-in 1.3 megapixels video intercom device allows for real-time communication. The webcam performs well in low light situations.



Eight Function Keys

F1~F8 function keys help to simplify frequently used applications by pressing a single shortcut key. The Function Keys can be programmed for customization.

Key	Functions
Fn+F1	Sleep
Fn+F2	Volume ON/OFF
Fn+F3	Volume Up
Fn+F4	Volume Down
Fn+F5	Auto Dimming
Fn+F6	Brightness Up
Fn+F7	Brightness Down
Fn+F8	LCD ON/OFF

Key	Description
SAS(Fn)	Secure Attention Sequence (Alt+Ctrl+Del)

Key	Functions
Arrow Up	Up
Arrow Down	Down
Arrow Right	Right
Arrow Left	Left
Enter Key	Enter
Fn+Arrow Up	Page Up
Fn+Arrow Down	Page Down
Fn+Arrow Right	End
Fn+Arrow Left	Home

LED Indicators

Indicator	AC power in/Battery on (Only Battery with AC Power) Battery mode: Red LED On Battery mode and low power: Red LED Flash	(Battery and AC Power in) Battery charge mode: Green LED blinks Battery charge mode and full battery: Green LED on
Indicator 2	Wireless/Bluetooth Enable: LED on; Disable: LED off	
Indicator 3	HD Enable: LED on; Disable: LED off	
Indicator 4	3.75G Enable: LED on; Disable: LED off	

Rotate with G-Sensor

Automatically toggles between portrait and landscape display mode providing the most comfortable viewing experience.



G-sensor Setting

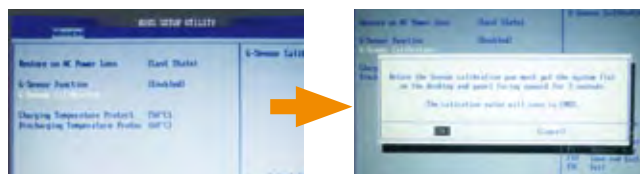
Disabled by default, the G-sensor can be set-up in BIOS. Use the function key to select BIOS SET UP. Press F4 to go back to the previous menu.

The automatic screen rotation sensitivity can be enhanced by enabling G-sensor with an ODM.



After Enabling the G-sensor Function

1. Please make sure to install the Graphics Driver before adjustment
2. Enable G-sensor in BIOS
3. Calibration window will appear after enabling the G-sensor
4. ICEROCK has to be laid down on a flat surface
5. Press Enter to complete G-Sensor calibration



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Reliable

IP62 Compliant Front Panel Protection

Provides protection against damage caused by accidental spills and dust.

One Key Recovery

IEI's useful One Key Recovery solution includes exclusive technology to backup and recover your operating system with just one simple click when your computer faces the following situations:

- Severe virus attack
- Operating system crash
- Natural or man-made disasters



Powerful

High Graphics Performance Supports H.264, MPEG1/2/4, VC-1/WMV9 High Definition Decoding

The ICEROCK is powered by an Intel® Atom™ Z530P with full hardware acceleration which eliminates the need for software decoding and the risk of overloading the processor. With low CPU resource utilization, the ICEROCK is optimized for multitasking.



Mobile

802.11b/g/n Wireless LAN

Integrated PIFA antenna on the ICEROCK ensures an uninterrupted wireless connection and provides up to IEEE 802.11n wide bandwidth operation. Frees cables and clutter from your workspace.



Bluetooth V3.0+HS CLASS II

A preinstalled Bluetooth module communicates with a wide range of electronic devices from PDAs and cellphones to barcode readers. Transmission performance is greater than 20m in free space.



3.75G HSUPA

Mobile 3.75G Connection

Free Wi-Fi hotspots will only get you so far. Stay connected with a mobile broadband Internet connection over 3G mobile phone network while you're on the move.

Supported Bands

- *HSUPA/UMTS –800/850/900/1900/2100 MHz
- *Quad-band EDGE/GPRS/GSM –850/900/1800/1900 MHz
- *Dual-band EV-DO/CDMA



Warehouse Management



Multimedia Control Center



Construction Site

Communication Applications

1. Surveillance Management

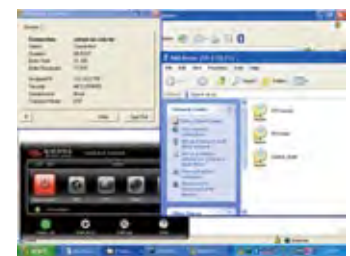


The ICEROCK can monitor factories, offices and other places such as VNC software through LAN, 3.75G or Wi-Fi connection.

2. Remote Login

Users can remotely login via LAN, 3.75G and Wi-Fi such as VPN

Example: use 3.75G connection to login a NAS server.



3. Wireless Communication

Use communication software such as SameTime or Skype via LAN & 3.75G & Wi-Fi and Bluetooth earphone.



4. Ordering System

The ICEROCK can be set up as a POS station when used together with a handheld order terminal such as the MODAT-200. It can also be displayed in the kitchen or connected to a Bluetooth printer to print out receipts.



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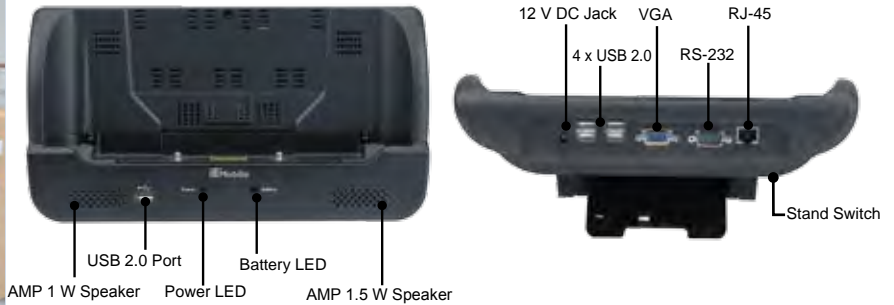
Optional Peripherals

Diverse Installation Methods

Desktop with Docking Station



Docking Station (Optional) ICEROCKDS-08A-R10



Wall Mount with Docking Station



Wall Mounting Options

VESA Stand



Built-in Stand



Docking Station Provides Second Display Connection

The docking station provides a VGA out connector that connect the ICEROCK to a larger second display such as a projector, TV or monitor.



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Optional Peripherals

Optional Battery Pack

Larger Battery Pack



Longer Power Support – Optional Larger Battery Capacity

5000 mAh capacity is powerful enough to support the ICEROCK's rich wireless communication and various data collection functions.



Part No. 31603-00022-RS

Specifications

	Item	Rating Performance	Remark
1	Nominal capacity	5000 mAh	In standard charging
2	7.4V Nominal Voltage	7.4V	Within 1 hour after quick charging
3	Maximum charge voltage	8.4V	
4	Operating condition	Charge: 0°C~40°C Discharge: -10°C~60°C	
5	Storage temperature	-20~60°C	

ICEROCK-BAR

ICEROCK-08A-BAR-2G-R12
ICEROCK-08A-BAR-HU/2G-R12



Advanced Data Acquisition Technology



RFID Reader

Certified with ISO15693, ISO14443A, and ISO14443B, the built-in RFID reader for data collection automates data capture, improving data accuracy, productivity, and performance for business applications.



1D/2D Barcode Scanner

Powered by Honeywell Adaptus® Imaging Technology, the built-in barcode reader features high quality reading functionality and advanced image capture capabilities. Designed with industry-leading motion tolerance, low light sensitivity, broad depth of reading distances, and tough environmental considerations, it is a quick and easy adoption for point-and-shoot scanning.



Performance			
Focal Point	SR: 7" (17.8cm) from lens plate; SF: 4.5" (11.4cm) from lens plate	Viewing Angle	± 40°C
Ambient Light	Total darkness to 100,000 lux (full sunlight)	Image Sensor	752 x 480 CMOS sensor
Supported Symbolologies			
1D	Code 39, Code 128, Codabar, UPC, EAN, Interleaved 2 of 5, Reduced Space Symbology, Code 93, Codablock		
2D	PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesa, Code 49, UCC Composite		
Others	Postal Codes, OCR Fonts		



Integrated with both an 1D/2D barcode scanner and a RFID reader, the upgraded ICEROCK (bar) is the most competitive choice for retailers of all types. From department stores that offer almost everything, to specialty stores that provide particular products, inventory management and control is ultimately the most important issue that retail managers have to face. With the ICEROCK (bar), inventory can be recorded and tracked automatically. It can not only reduce costs associated with human handling (such as error and time) but also allow retailers to improve accuracy, efficiency and profitability.



Inventory Management



Inventory Registry



Inventory Tracking

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System Overview



Specifications

Model	ICEROCK	
Display	LCD Size	8.0" TFT LCD
	Brightness (cd/m ²)	350 cd/m ²
	Max Resolution	800 x 600 pixels SVGA
	Viewing Angle	70/70/60/70 Deg.
System	CPU	Intel® Atom™ Z530 1.6GHz
	Chipset	Intel® SCH US15WP
	Operating System	Microsoft® Windows® XP Embedded
	Memory	2G DDR2 on board
	Storage	CompactFlash® Slot, SD Card Slot
Communication	Wireless LAN	Wi-Fi 802.11b/g/n
	Bluetooth	Bluetooth® V3.0 + HS (Class II)
	Modem	WCDMA/HSUPA (optional)
	GPS	by customization
Data Collection	Camera	1.3 megapixels
	Barcode	1D Laser / 2D Imager Scan Engine (Optional)
	RFID	13.56 MHz RFID supports ISO 14443A/B (by customization)
Indicators & Buttons	LED Indicators	Power/ Wi-Fi/Bluetooth/HDD/3.75G Status LED
	Keys	5-way navigation key 8 x Programmable function keys
I/O Interface	USB	2 x USB 2.0 1 x Mini USB Client
	LAN	1 x 10/100/1000 Mbps GbE RJ-45
	Audio	2 x 1.5W Speaker 1 x Mic-in
Power	Power Adapter	12V @ 5A @ 60W
	Battery	7.4 V 2400 mAh Li-ion Battery (Optional 5000mAh)
Environment	Operating Temperature	0°C to +40°C
	Storage Temperature	-20°C to +60°C
	Humidity	5%~95% non-condensing
	Drop Survival	1.0 M
	Environmental Protection	IP 62 compliant front panel
Physical Characteristics	Certifications	CE/FCC
	Dimensions (LxWxH) (mm)	255 x 180 x 37
	Weight	1.1 kg

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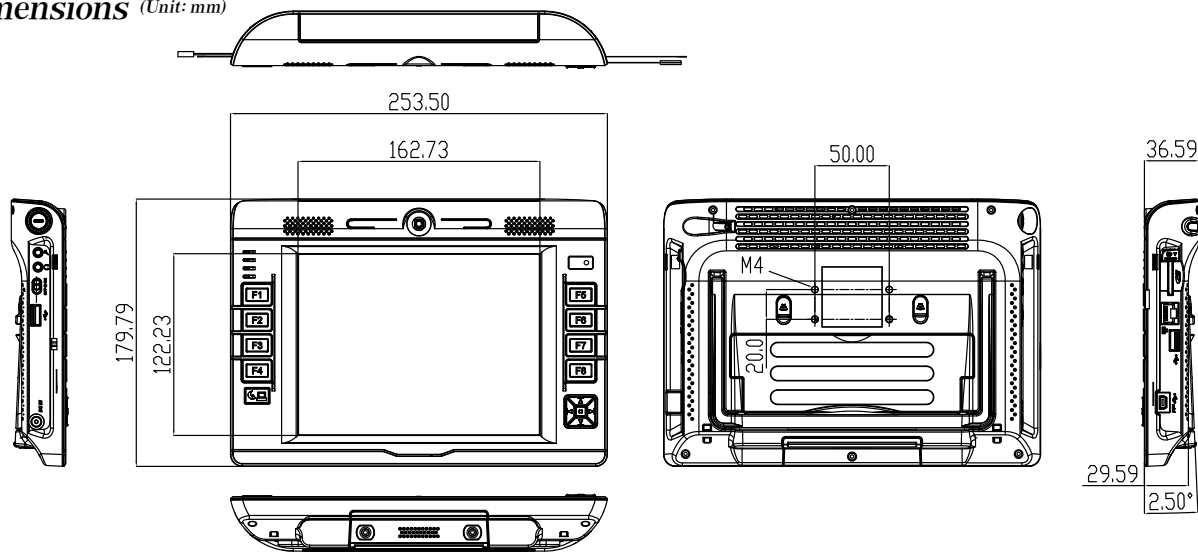
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Optional Peripherals

ICEROCK

Dimensions (Unit: mm)



Ordering Information

Part No.	Description
ICEROCK-08A-Z530/WT-R/2G-R12	8.0" 350cd/m ² SVGA Mobile Panel PC with Intel® Atom™ Z530P 1.6GHz, 802.11 b/g/n Wireless Module, Bluetooth Module, Touch screen, 1.3 Megapixels Camera, 2GB SDRAM, R10, RoHS
ICEROCK-08A-WT-R-HU/2G-R12	8.0" 350cd/m ² SVGA Mobile Panel PC with Intel® Atom™ Z530P 1.6GHz, 802.11b/g/n Wireless Module, Bluetooth Module, Touch screen, 1.3 Megapixels Camera, 2GB SDRAM, 3.75G Module, RoHS
ICEROCK-08A-BAR-2G-R12	8.0" 350cd/m ² SVGA Mobile Panel PC with Intel® Atom™ Z530P 1.6GHz, 802.11b/g/n Wireless, Bluetooth, RFID, 1D/2D Barcode Scanner, 1.3 Megapixels Camera, 2GB SDRAM, RoHS
ICEROCK-08A-BAR-HU/2G-R12	8.0" 350cd/m ² SVGA Mobile Panel PC with Intel® Atom™ Z530P 1.6GHz, 802.11b/g/n Wireless, Bluetooth, RFID, 1D/2D Barcode Scanner, 1.3 Megapixels Camera, 2GB SDRAM, 3.75G Module, RoHS

Packing List

Item	Part No.	Q'ty
Battery Pack	31603-000011-RS	1
Power Adapter	63040-010060-030-RS	1
Power Cord	32702-000200-100-RS	1
Stylus	7Z000-6051D0320101-RS	1
Plastic Protective Shell	47003-007600-00-RS	1
User Manual CD	7B000-000774-RS	1
IEI One Key Recovery CD	7B000-000724-RS	1

Optional Accessory List

Item	ICEROCK	Description
Docking Station	ICEROCKDS-08A-R10	Docking station with VGA, 5 x USB 2.0, RJ-45, and RS-232 ports for ICEROCK series
Battery Pack	31603-000011-RS	7.4V 2400 mAh Battery
Battery Pack - Large	31603-000022-RS	7.4V 5000 mAh Battery
Leather Carrying Case	ICEROCKCB-00-R10	Black, Leather carrying case in black color for ICEROCK-08A series
OS Windows® XP Embedded	ICEROCKCF-08-XPE-2GB-R10	2 GB CompactFlash® with Windows® XPE OS image and license
	ICEROCKCF-08-XPE-4GB-R10	4 GB CompactFlash® with Windows® XPE OS image and license



Stylus



Battery Pack



Docking Station



Battery Pack-Large



Power Adapter



Plastic Protective Shell



Leather Carrying Case

ICECARE

Mobile Field Assistant

- 7" 500 cd/m² TFT LCD with projective capacitive touchscreen
- Texas Instruments Sitara ARM Cortex A8 CPU
- Powered by Android 2.3.4 OS
- 1D laser / 2D imager scan engine, HF RFID reader
- Dual Camera :
 - 2 Megapixels CMOS front camera
 - 5 Megapixels CMOS rear camera
- Bluetooth, Wi-Fi, 3.5G wireless
- Built-in Ublox GPS with internal antenna
- Dual hot swappable batteries



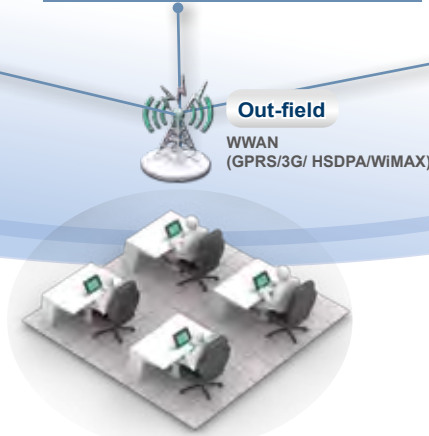
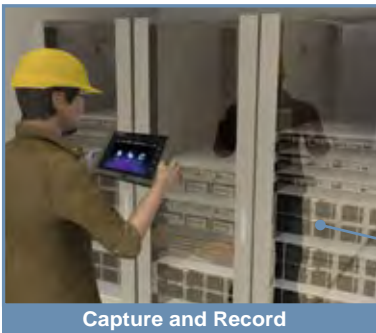
Android	Bluetooth	Wi-Fi	USB 2.0	GPS	3.75G/HSUPA	Camera	Touch Screen	IP64	1D Barcode Scanner	2D Barcode Scanner

Field Service Application

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Increase field service productivity and efficiency with the ICECARE 7" Mobile Field Assistant. This RISC-based tablet PC features TI OMAP3 AM3715 CPU and runs on the Android 2.3.4 OS. Targeted for field service applications, it can be used for:

- Capturing and recording information in real-time
- Determining customers' locations
- Tracking and locating mobile field workers
- Accessing and updating information in real-time



Power Saving and Trendy Platform

TI Cortex A8 CPU

- TI's Sitara family of highly-integrated ARM9™ and ARM Cortex™-A8 microprocessor portfolio offers various combinations of high-performance and low power levels, providing the ability to create an array of products using a common hardware and software platform.
- Reduce system risks and accelerate time to market using standard and comprehensive ARM-based software development tools.
- TI is the largest ARM core licensee supporting all major high-level operating systems such as Android and Windows CE.

Sitara™ offers

Performance

- Up to 450MHz ARM9 to 1.5GHz Cortex A8 devices
- Industry's first widely available Cortex-A8 devices - 2DMIPS per MHz
- Graphics acceleration up to 27M polygons/s performance for advanced user interface
- High speed DDR2 and DDR3 memory performance

Connectivity

- 10/100/1000 Ethernet
- CAN 2.0 and high speed USB interface
- Multiple serial port options per device
- Cost effective** processor with SATA interface
- Flexible LCD controller for up to 720p displays and moving to 1080p in future devices
- Industrial peripheral support

AM3517/05 Cortex™ -A8 based processors

Benefit

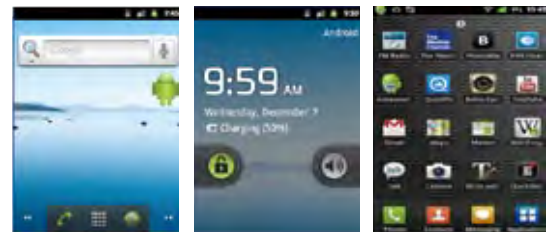
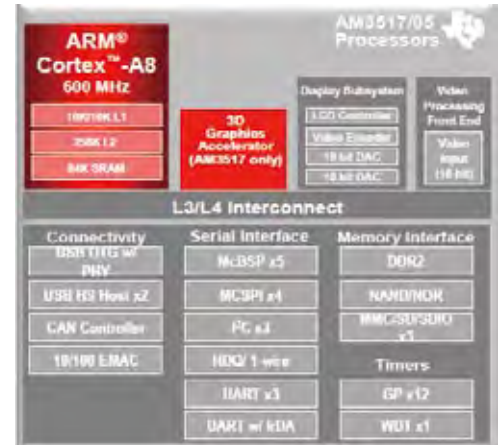
- Support OS such as Linux, Win CE, RTOS
- 10M polygons/second for robust GUIs
- Multi windows overlay for hardware accelerated user

Power

- Total Power: L700mW
- Standby Power: 12mW

Suggested Application

- Industrial/Home automation
- Point of service



Android Security Issue:
Android applications run in a sandbox, an isolated area of the operating system that does not have access to the rest of the system's resources, unless access permissions are granted by the user when the application is installed. Before installing an application, Android Market displays all required permissions.

Android 2.3.4 Operating System

- Android is an operating system for mobile devices such as smartphones and tablet computers. It is developed by the Open Handset Alliance led by Google.
- Android was listed as the best-selling smartphone platform worldwide in Q4 2010 by Canals with over 200 million Android devices in use by November 2011.
- 2.3 Gingerbread refined the user interface, improved the soft keyboard and copy/paste features, improved gaming performance, added SIP support (VoIP calls), and added support for Near Field Communication.

Seamless Wireless Communication

The ICECARE keeps mobile workers connected with the back-office and peripherals through built-in 3.5G, Wi-Fi, and Bluetooth wireless technologies.

Local-Area Communication



Compliant with the 802.11 b/g/n. This feature allows fast data transfer for near field or ad-hoc data communication.

Wide-Area Mobile Communication



With up to 3.5G wireless technology, outfield workers can maintain and share constant contact with the back office.

Peripheral Communication



Compliant with the Bluetooth 2.1+EDR specification. This feature ensures easy and quick access to nearby peripherals.

Built-in Navigation Grade GPS module



GPS is a mature technology that allows users to locate their current location and other landmarks. Navigation and Positioning support

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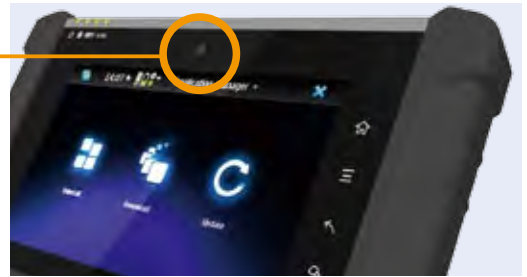
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Optical Peripherals

Advanced Data Collection Technology

2 Megapixels CMOS Camera

The optional 2 megapixels CMOS front camera functions as a web camera allowing field technicians to communicate face-to-face with the staffs in the office and other parties while on the move.



13.56 MHz RFID Reader

Support Read/Write, ISO 14443A (Mifare), ISO 14443B (Felica), ISO 15693. Support NFC Read/Write and peer-to-peer communication.

5 Megapixels CMOS Camera

The 5 megapixels CMOS rear camera can be used to capture environmental information while field technicians are performing services.



1D Laser / 2D Imager Scan Engine

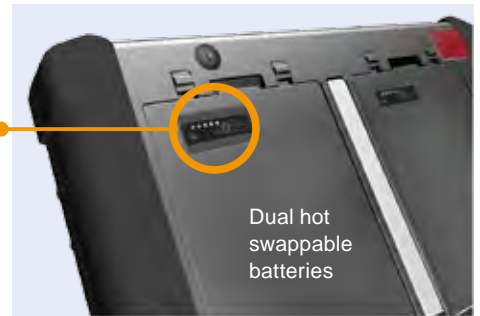
The variety of barcode symbologies supported by the 1D laser / 2D imager scan engine allows easy and fast data capture, and thereby optimize work efficiency.

Efficient Power Management

The ICECARE comes along with two battery packs that provides 11.1V 1880mAh capacity and support hot swappable function. When one battery is removed, the system automatically switches power consumption to the other battery. This design is beneficial for mobile field workers because:

- When power is running low, the batteries can be replaced with fully charged ones without shutting down the system and applications.
- With an additional battery pack, the device can operate for hours to ensure non-stop customer service.

Each battery pack has capacity indicators showing remaining power.



Dual hot swappable batteries

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Optional Peripherals



Rugged Design

Designed specifically for out-field applications, the ICECARE has been tested and approved for its semi-ruggedness.



IP 64 Rating

Dust tight and protected against water splashed against the component from any direction



Operating Temperature -10°C ~ 40°C

It can be operated under a wide range of temperatures



1.2M Drop Test

Passed the 1.2M drop test on all sides 26 times



Storage Temperature -10°C ~ 60°C

It can be stored under extreme temperatures



A black protective rubber surrounds three sides of the ICECARE, giving it the protection it needs in harsh work environments.



The metal stand is designed to support and stabilize the device on the work surface.

How Tough is Rugged?

Mobile computing devices, namely tablet PCs and industrial PDAs, are becoming increasingly popular for out-field use. Their versatility makes them useful in public safety and field service applications. However, popular consumer tablets or handhelds are not designed to meet outdoor use, especially where the environment is tough. They are not designed to work in the rain, or extreme hot or cold temperatures, or in areas where dust and dirt could interfere with the device. For these environments, tougher devices are required – those that meet the “rugged” standard.

So, what defines “rugged”? From the user’s perspective, rugged refers to the device’s ability to operate in the work environment that it is exposed to. However, different users work in different environments. Hence, rugged means something slightly different from one user to the other. For example, a tablet PC used in a warehouse will be more likely exposed to dust and drops, but will less likely be used in extreme temperatures. To meet the needs of all possible users, the industry has agreed upon a general a set of standards to test for a device’s ruggedness. These standards include tests for: extreme operating and storage temperatures, Ingress Protection (IP Grade) as well as drop survival.

The ICECARE Mobile Field Assistant is compliant with IP 64 grade protection and has been tested with 1.2M drop tests on all sides of the device. It also features wide operating and storage temperature ranges. Taken these together, the ICECARE complies with the “rugged” standard and ensures stable operation under tough environments.



Drop Survival

Protection against accidental drops.



IP Grade

Protection against dust and water splash.



Operating Temperature

Protection against extreme temperatures.

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Specifications

Model	ICECARE							
Display	LCD Size	7" TFT LCD	Indicators & Buttons	LED Indicators	Charging Status LED (Orange / Green) Wi-Fi enable / disable LED (Green) BT enable / disable LED (Blue) 3.5G enable / disable LED (Green) Power on/off switch			
	Brightness (cd/m ²)	500 cd/m ²		Keys	Reset Key	4 x Function key (Home / Menu / Back / Search)		
	Max Resolution	800 (H) x 480 (V)			Audio	1 x Headset	1 x 1.5W speaker	
	Viewing Angle	60/70/70/70 Deg.				Expansion	1 x Digital Mic	2 x USB 2.0
	Touch Screen	Projective capacitive type					1 x DC Jack	1 x Ethernet 10/100M
System	CPU	TI Sitara AM3715	I/O Interface	Docking (Support Wall Mount)	1 x Full Function RS-232			
	OS	Android 2.3.4			1 x 1.5W speaker	2 x USB 2.0		
	Memory	4GB eMMC Flash + 512MB SDRAM		1 x DC Jack				
Communication	Storage	SD Slot		Power	Power Adapter	19V @ 2.1A @ 40W		
	Wireless LAN	Wi-Fi 802.11 b/g/n			Battery	Dual 11.1V 1880mAh Li-ion battery		
	Bluetooth	Bluetooth 2.1+EDR	Environment		Operating Temperature	-10°C ~ 40°C		
	Modem	HSUPA/GPRS/GSM		Storage Temperature	-10°C ~ 60°C			
	GPS	GPS with internal antenna		Humidity	5%~95% non-condensing			
	Data Collection	Barcode		1D laser/2D imager scan engine	Drop Survival	1.2 M		
		Camera (Back)	5 megapixels CMOS camera	Environment Protection	IP64			
Camera (Front)		2 megapixels CMOS camera	Certification	CE / FCC				
Communication	RFID	HF RFID ISO 14443A(Mifare) ISO 14443B(Felica) ISO 15693 NFC	Physical Characteristics	Dimensions (LxWxH) (mm)	248 x 153 x 36			
				Weight	0.95 kg			

Ordering Information

Part No.	Description
ICECARE-07-R10	7" TFT-LCD industrial tablet with TI Sitara AM3715 CPU, HSUPA/GPRS/GSM, WiFi/Bluetooth, GPS, RFID, 2D/1D barcode, 2M/5M Camera, Android 2.3 OS, RoHS
ICECARE-07-1D-R10	7" TFT-LCD industrial tablet with TI Sitara AM3715 CPU, WiFi/Bluetooth, 1D barcode, 2M/5M Camera, Android 2.3 OS, RoHS

Packing List

Item	Part No.	Q'ty
Battery Pack	31603-000016-RS	1
Power Adapter	63040-290040-000-RS	1

Model Variations

Part No.	WiFi	Bluetooth	Modem	GPS	Barcode	RFID
ICECARE-07-R10	802.11 b/g/n	Ver 2.1 +EDR	HSUPA/GPRS/GSM	GPS	1D/2D	HF RFID
ICECARE-07-1D-R10	802.11 b/g/n	Ver 2.1 +EDR	N/A	N/A	1D	N/A

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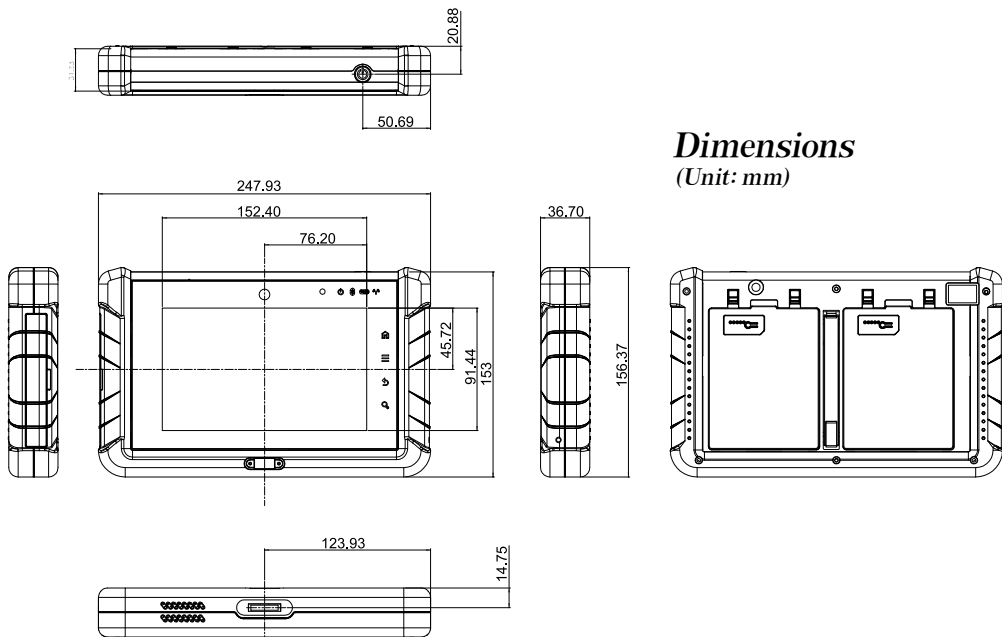
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Optional Peripherals



Dimensions
(Unit: mm)



IEImobile®
Your Mobile Solution



Industrial PDA (EDA)

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Industrial PDA (EDA)

Mobile Revolution in the Workplace

The world is in the midst of a mobile revolution with the rapid consumer uptake and adoption of smartphones. Its year-on-year growth rate in the third quarter of 2010 nearly doubled at 96 percent; while sales of mobile phones only rose by 35 percent according to Gartner research group. As smartphones are rapidly becoming an integral part of a consumer's digital life, a demanding tech-savvy public is beginning to seek a more interactive and engaging mobile device experience in the workplace. Mobile integration in the workplace means devices with features such as operating systems that support sophisticated applications, text messaging, Internet and email access, document viewing, touch screen interface, built-in cameras, GPS navigation software, barcode readers, and wireless connectivity.

PDA's and smartphones often develop in tandem, with data-centric PDA's taking on more voice-centric aspects, and smartphones including features previously limited to PDA's. As the line between PDA's and smartphones keeps blurring, there is concern that smartphones will eventually replace PDA's, just as they have begun to make traditional mobile phones seem obsolete. This may be true in the consumer sector where convenience trumps all and a dialed-down system requirement would suffice for everyday use.

In the business sector, however, industrial PDA's are riding the wave of the smartphone-led mobile revolution and enjoying what the growing smartphone ecosystem has to offer. They benefit greatly from the advances and mass

popularization of consumer handheld technologies, such as RFID, high quality scanners and integrated high resolution cameras. Rather than being peripherals, these technologies have become powerful, small, and reliable enough to be integrated into industrial PDA's, offering a cost-effective all-in-one solution for business travelers and professionals who are constantly on the move.

Moreover, the more ubiquitous, affordable and versatile wireless technology becomes, the easier it is for PDA's to synchronize and update information anytime anywhere. In essence the PDA has become miniature mobile business portal. With this increased mobility, employees can feel empowered to initiate changes and go after new projects. In this way, Industrial PDA's serve as a catalyst for reform in the workplace, promoting innovation and flexibility.



For field force workers that require the ability to access and forward data where it is needed most, a data-centric PDA packaged in tough, rugged shell is perfect for the job at hand. Many businesses and government organizations often rely on rugged PDA's, or enterprise digital assistants (EDAs), for mobile data applications. EDAs often have extra features such as data capture, barcode readers, radio-frequency identification (RFID) readers, magnetic stripe card readers, or smart card readers. The ability of industrial PDA's to enable work in different environments and for different purposes allows businesses to go beyond traditional computing and information seeking infrastructures, enhancing workflow and productivity.

Businesses in the hospitality industry face a highly competitive environment in which differentiation and innovative customer experiences are critical in improving sales and revenue. Wireless access to a centralized hospitality management system facilitates efficient handling of client requests for information and services as well as better execution of loyalty programs. Offering High-impact individualized service is made easier with on-demand retrieval of client information and purchase records.

Time and energy saved by utilizing an industrial PDA can then be used to provide more personalized service with the customers, effectively increase revenues through improved customer satisfaction.



We here at IEIMobile are excited about the future of industrial PDA's. A major initiative has launched with our upcoming product line to harness the mobile revolution in the workplace as a key component of our industry wide development agenda.

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Seamless Wireless Network Roaming

We all appreciate the freedom and mobility afforded by the cell phone, as well as the economy and security of using the company's WLAN to download data or talk via a VoIP-based telephone system at the office. Since the advent of mobile devices that support multiple connectivity options, "seamless wireless network roaming" is now poised to become a reality with a single mobile device that can provide wide area connections via GPRS or CDMA, WLAN connections via 802.11b, plus connectivity to Bluetooth and wired Ethernet. In addition, a user's mobile device can switch from a cellular carrier's wireless network to a company's WLAN automatically at the right time, every time without dropped calls.

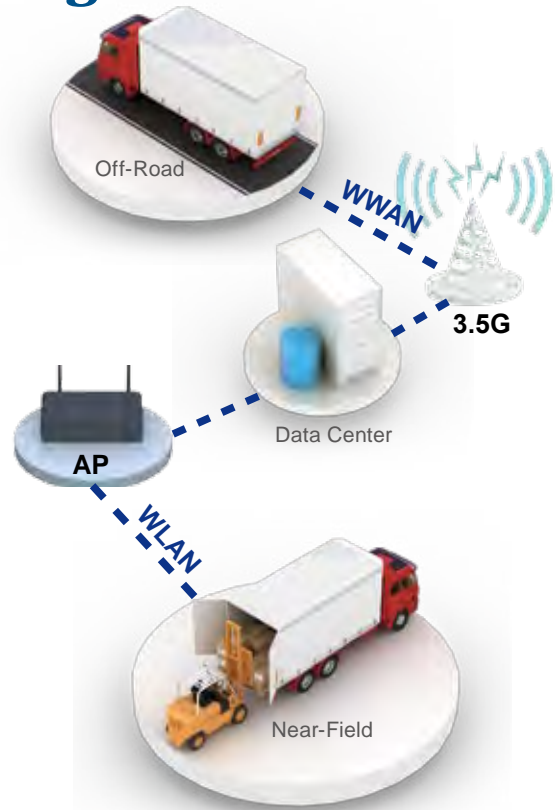
Just consider these working scenarios:

Data roaming makes it possible for a delivery and logistics company to move from the warehouse (WLAN) to the delivery route (WWAN) without any intervention or interruption. It is common practice for router drivers to check out their loads before leaving the facility since they are liable for losses and damages to the products on their vehicles.

Making the latest updates for a specific product or procedure available for repair workers has never been easier with data roaming. Using a single device that functions as both a phone and a data storage center, service personnel can obtain updates through WWAN and/or WLAN connections (depending upon the urgency) regarding product sales information and repair manuals. As updates are accessed on an "as-needed" basis, unnecessary documentation will no longer take up valuable storage space.

Data roaming enables delivery drivers to log real-time job progress via WWAN connections back to headquarters. They also have the choice to upload more detailed information (in larger files) near public hot spot locations such as hotels, fast food restaurants or coffee shops. The device can detect the availability of a faster connection and automatically switch to WLAN, without any operator intervention.

Most of IEIMobile products are equipped with both Wireless LAN and GPRS/WCDMA modules. This combined with powerful embedded operating system support, provides a seamless wireless communication experience.



Industrial Wi-Fi

Wi-Fi has become a popular choice for connecting industrial devices. It is a well-established, mature technology that offers close integration with existing Ethernet networks. However, the issues that face an industrial mobile application are quite different from the issues encountered in a typical office or commercial application.

Power saving

By adopting a mobile Wi-Fi solution and modifying the Wi-Fi driver, IEIMobile products support power saving mode. This saves battery power while the mobile device is in suspend mode and Wi-Fi communication is in idle mode.

Auto-connecting to existing wireless LAN

Whenever an IEIMobile device boots up, it automatically connects to the best signaling access point which has been pre-configured and registered in a list of Wi-Fi connection points.



Roaming

When moving from one access point zone to another in a wireless LAN consisting of typical commercial access points, the IEIMobile optimized Wi-Fi solution ensures re-connection to new access point in 20 seconds the once original access point has disconnected. This 20-second re-connection time is compliant with Microsoft® and Wi-Fi roaming certifications. IEIMobile's optimized Wi-Fi driver ensures that data transmission will be resumed after re-connection.

Seamless roaming and auto-switching

While roaming in an enterprise wireless LAN or a wireless LAN server like Cisco, IEIMobile devices are compliant with wireless network servers. This allows our devices to automatically switch to the AP with the strongest signal without data loss or interruption--a completely seamless transition.



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Windows® Embedded Handheld 6.5

Windows® Embedded Handheld is an operating system designed for use in mobile and handheld devices such as smartphones. Part of the Windows CE family, it can be seen as a scaled down version of the desktop Windows Operating System. It offers a similar Windows experience on small mobile devices.

Emphasis on Touch Control

Windows® Embedded Handheld 6.5 was introduced in February 2009. Carrying popular applications such as Microsoft® Office, Windows Media Player, Internet Explorer and Outlook mail client, it featured a revamped, touch-optimized user interface.

Cloud-Based Service Integration

It also offered a free on-line backup and cloud-syncing service called "My Phone." Using "My Phone" service to link with Windows Live ID, Windows® Embedded Handheld users can sync contacts, calendar entries, text messages, videos, photos, music, e-mails, documents and more with the Cloud, so that data is backed up and available online. In essence, this functionality allows information to be synchronized across multiple connected devices, ideal for business users on the move.

Direct access to "Windows Marketplace" --- Microsoft®'s mobile app store --- is another key feature of Windows® Embedded Handheld 6.5. The vast array of third-party software available for Windows® Embedded Handheld devices has long been one of Windows® Embedded Handheld's greatest strengths. Now getting the right software is easier than ever. With the launch of "Windows Marketplace," Microsoft® provides a single location for software developers to offer their applications. Users can browse, purchase, download and install Windows® Embedded Handheld software from the convenience of their handset.



Focus On Enterprise Market

Windows® Embedded Handheld has a long history dating back over 10 years, fostering a well-supported ecosystem. There are two major advantages it has over other Mobile OSs on the market today:

*Quick and easy adoption : With a traditional PC look-and-feel, user doesn't have to readjust their work habits or take lessons to familiarize themselves with new applications.

*Hassle-free integration : For businesses with legacy infrastructure and systems, failure to address issues of application compatibility will result in more than just a loss of productivity and overhead. The inability to leverage existing system know-how, device management expertise and security solutions spells even more trouble for businesses. Whether on the desktop, or in the server room, Microsoft®'s line-up of embedded operating systems is everywhere. Windows® Embedded Handheld, therefore, becomes the apparent mission critical, industrial-strength integration solution.

Microsoft® unveiled plans for Windows Phone 7 in February 2010, targeting the smartphone OS market. Windows Embedded Handheld was announced later in June with a focus on enterprise applications. IEIMobile is closely following the guidelines laid out by Microsoft®'s Mobile OS Roadmap and fully prepared to offer on-demand software hardware upgrade support.

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IEIMobile to Support Android

■ Android is an open-source software stack for mobile devices, and a corresponding open-source project led by Google.

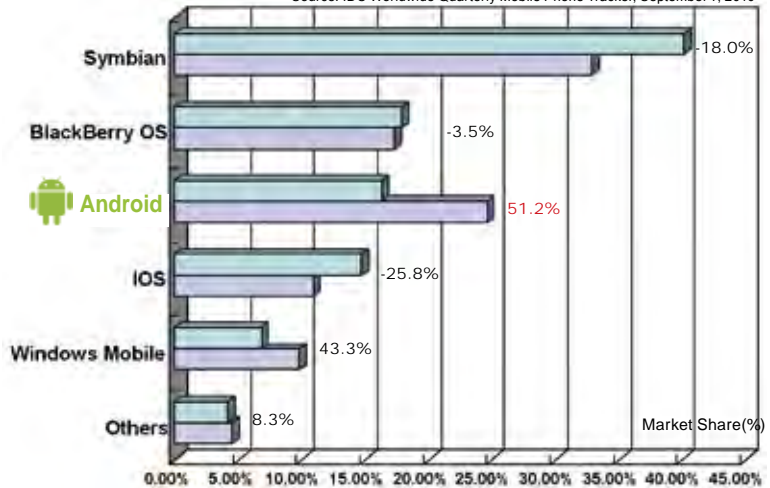
■ Android's purpose is to establish an open platform for developers to build innovative mobile apps. Three key components work together to realize this platform.

- The Android Compatibility Program defines the technical details of the Android platform and provides tools used by OEMs to ensure that developer apps run on a variety of devices.
- The Android SDK provides built-in tools for developers to specify which device features their apps require.
- With a pre-installed app called "Market," users can browse and download available third-party apps directly from the Android Market.

■ Different Android devices run different versions of the Android platform, meaning each version has different hardware requirements. It is IEIMobile's mission to adopt a "best-fit" approach, and ensure compatibility between hardware capabilities and Android platform version. We are also committed to providing complete SDKs for industries to develop their OEM field application softwares. In addition to providing Android device ODM services, IEIMobile is developing a series of own-brand products which combine a potent version of Android with powerful hardware to be available soon.

Worldwide Mobile OS Market Share

Source: IDC Worldwide Quarterly Mobile Phone Tracker, September 7, 2010



Others	Windows Mobile	IOS	Android	BlackBerry OS	Symbian
4.20%	6.80%	14.70%	16.30%	17.90%	40.10%
4.50%	9.80%	10.90%	24.60%	17.30%	32.90%



Legend:
■ 2010 Market Share
■ 2014 Predicted Market Share

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Industrial PDA (EDA)



Model		MODAT-100	MODAT-200	MODAT-328	MODAT-335
Display	LCD Size	3.5" TFT LCD (Sunlight Readable)	3.5" TFT LCD (Sunlight Readable)	2.8" TFT LCD	3.5" TFT LCD (Sunlight Readable)
	Brightness (cd/m ²)	190 cd/m ²	250 cd/m ²	240 cd/m ²	190 cd/m ²
	Max Resolution	240(H) x 320(V) QVGA	240(H) x 320(V) QVGA	240(H) x 320(V) QVGA	240(H) x 320(V) QVGA
	Viewing Angle	80/80/80/80 Deg.	80/80/80/80 Deg.	70/50/70/70 Deg.	80/80/80/80 Deg.
	Touch Screen	4-wire resistive type touch	4-wire resistive type touch	4-wire resistive type touch	4-wire resistive type touch
System	CPU	Marvell® PXA 310 624MHz	Samsung® 6410 ARM11 667MHz	Marvell® PXA 310 624MHz	Marvell® PXA 310 624MHz (Windows Embedded Handheld 6.5) or TI Sitara AM3715 (Android 2.3.4)
	Operating System	Microsoft® Windows® Embedded Handheld 6.5	Microsoft® Windows® Mobile 6.5	Windows® Embedded Handheld 6.5	Windows® Embedded Handheld 6.5 or Android 2.3.4
	Memory	128MB Flash + 256MB SDRAM	128MB Flash + 128MB SDRAM	256MB Flash + 128 MB SDRAM	256MB Flash + 256MB SDRAM
	Storage	microSD Slot	microSD Slot	microSD Slot	microSD Slot
Communication	Wi-Fi	Wi-Fi 802.11 b/g	Wi-Fi 802.11b/g	Wi-Fi 802.11 b/g	Wi-Fi 802.11 b/g/n
	Bluetooth	Bluetooth 2.1 + EDR	Bluetooth 2.1 + EDR	Bluetooth 2.1 + EDR	Bluetooth 2.1+ EDR
	Modem	WCDMA/HSDPA	N/A	N/A	WCDMA/HSDPA or GPRS
	GPS	GPS w/internal antenna	N/A	N/A	GPS w/internal antenna
Data Collection	RFID	13.56 MHz RFID support ISO 14443A (Mifare) ISO 14443B (Felica) ISO 15693 ISO 18092 NFC	N/A	13.56 MHz RFID support ISO 14443A (Mifare) ISO 14443B (Felica) ISO 15693 ISO 18092 NFC	13.56 MHz RFID support ISO 15693 and ISO 14443A/B compliant UHF (optional); EPC Global Class1 Gen2 support ISO/IEC 18000-6 Type C and at least 1m reading distance
	Barcode	1D Laser Scan Engine	N/A	1D/2D imager scan engine	1D/2D imager scan engine
	Camera	3 megapixels CMOS camera with LED flash light	N/A	3 megapixels CMOS camera with LED flash light	3 megapixels CMOS camera with LED flash light
Indicators & Buttons	LED Indicators	Charging status LED HSDPA status LED	System/Battery charging status LED Wi-Fi/Bluetooth enable/disable LED	Charging status LED Wi-Fi / Bluetooth enable/disable LED	Charging status LED Wi-Fi enable/disable LED 3.5G/2.5G enable/disable LED
	Hot Keys	2 x Barcode key	1 x Rolling Key	2 x Barcode key 1 x Camera key	2 x Barcode key 1 x Camera key
I/O Interface	Audio	1 x Speaker 1 x Headset / Built-in Mic-in	1 x Speaker 1 x Headset / Built-in Mic-in	1 x Speaker 1 x Headset / Built-in Mic-in	1 x Speaker 1 x Headset / Built-in Mic-in
	Expansion	16-pin connector (RS232 / battery charging / USB Host / USB Client)	1 x Mini USB Host 1.1/Client	1 x Mini USB Client 2.0	1 x Mini USB Client 2.0
		2" thermal printer	N/A	16-pin connector (RS-232 / battery charging / USB Host / USB Client)	16-pin connector (RS-232 / battery charging / USB Host / USB Client)
		smart card reader support Magnetic Stripe Reader Support	N/A N/A	N/A N/A	N/A N/A
Power	Power Adapter	Input: VAC:100V ~ 240V Output: 12V/3A	Input: 100 V AC to 240 V AC ~ 50-60Hz 0.2A Output: 5V / 1A	Input: 100V AC to 240V AC ~ 50-60Hz 0.2A Output: 5V / 2.1A	Input: 100V AC to 240V AC ~ 50-60Hz 0.2A Output : 5V / 2.1A
	Battery	7.4V 1880 mAh battery	3.7V 1800 mAh battery (built-in non swappable)	3.7V 1880 mAh battery	3.7V 3000 mAh battery
Environment	Operating Temperature	0°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C
	Storage Temperature	-20°C ~ 70°C	-20°C ~ 70°C	-20°C ~ 60°C	-20°C ~ 60°C
	Humidity	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing	5%~90% non-condensing
	Drop Survival	1.2M	1.2M	1.5M	1.5M
	Environmental Protection	IP 54 (Front Panel Only)	IP 54	IP 54 (Front Panel Only)	IP 54
	Certification	CE / FCC	CE / FCC / BSMI	CE / FCC	CE / FCC
Physical Characteristics	Dimensions (LxWxH) (mm)	230 x 84 x 54	125 x 74 x 18.7	172 x 55 x 31	218 x 81 x 46
	Weight	546 g	200 g	245 g	405 g

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MODAT-100

Mobile POS Terminal

- 3.5" TFT sunlight readable LCD touch screen
- Marvell® PXA 310 624 MHz CPU
- Windows® Embedded Handheld 6.5 pre-installed
- Built-in 32-channel GPS Receiver
- Built-in Smart Card Reader, Magnetic Stripe Card Reader and 2" thermal printer
- 1D laser barcode/Optional 2D Imager barcode reader for data collection
- Bluetooth, Wi-Fi and 3.5G/HSDPA wireless communication



Point-of-Service Application

Standard Point-of-Service(POS) features, such as smart card readers, magnetic stripe card readers and thermal printers come integrated for an all-in-one mobile solution. Equipped with 1D laser barcode and 3 megapixels camera, the MODAT-100 can capture data and images via a built-in high performance wireless communication module. The MODAT-100 offers mobility and flexibility that promises to streamline workflow and enhance productivity.

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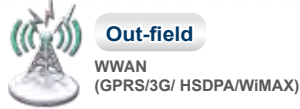
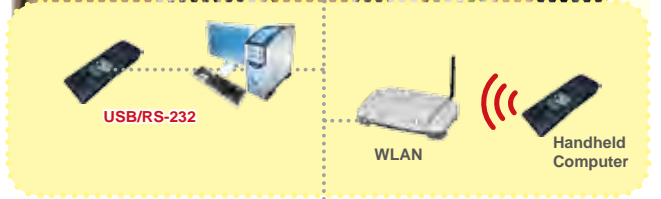
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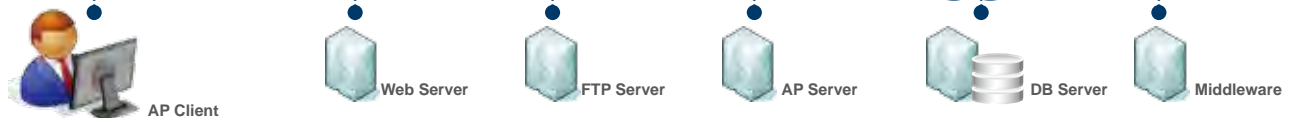
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Optional Peripherals



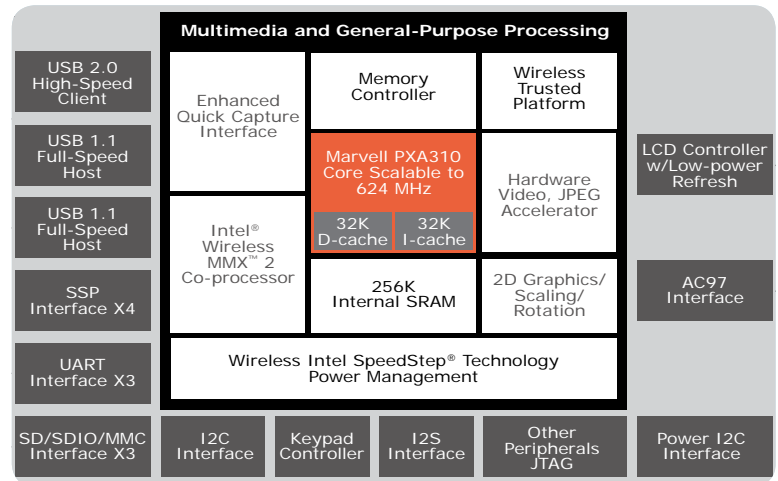
Headquarters



High Performance Low Power Consumption Platform

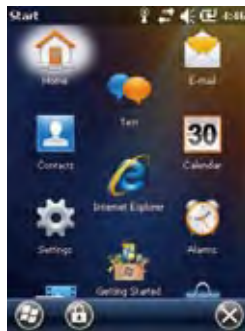
Marvell PXA 310

- Wireless Intel® SpeedStep® technology for MIPS/mW power efficiency, long battery life
- Hardware security/DRM processing
- Enhanced peripheral speeds and features such as support for camera sensors up to 5 megapixels and Bluetooth v2.0 EDR
- Supports DDR SDRAM for cost-effective memory solutions
- Secure devices from boot-up to corporate network access



Built-in Windows® Embedded Handheld 6.5

- Windows® Embedded Handheld (WM) is a compact mobile operating system developed by Microsoft® and designed for use in smart phones and mobile devices.
- IEIMobile Enterprise PDA Series adopts Windows® Embedded Handheld 6.5 to meet the needs of your mobile workforce.



Windows® Embedded Handheld Application Development

- **Only One Official IDE**
Microsoft® Visual Studio 2005/2008/2010
- **Managed Code**
Intermediate Language
Just-In-Time (JIT) compilation: Run time translated to machine code (Native Code) by CLR (Common Language Runtime) which comes pre-installed and optimized in each Windows® Embedded Handheld device
.NET Compact Framework
-Visual Basic .NET, Visual C# .NET
-BCL (Base Class Libraries)



- **Native Code**
Machine code
C++
MFC, ATL, WTL, STL



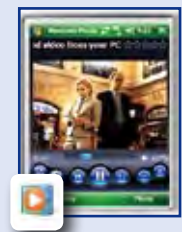
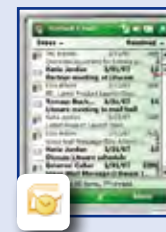
Internet Download

- **Windows Marketplace for Mobile**
(<http://www.windowsmarketplace.com>)

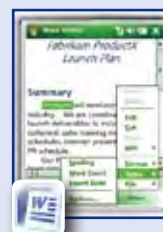


Built-in Application

- Internet Explorer Mobile
- Microsoft® Office Outlook Mobile
- Windows Media Player Mobile



- Optional Microsoft® Office for Mobile is programmable and fully compatible with desktop Windows Office.



Optional Microsoft® SQL Server Mobile Edition is the leading industry standard DBMS and compatible with desktop PCs or back-end ERP systems, which saves you the effort and time of building a new ERP system.



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IEIMobile Solutions

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Automation Panel Solutions

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Optional Peripherals

Rugged Compact Design Suitable for Outdoor Use

The MODAT-100 features a sunlight readable panel for daytime use and an LED backlight for nighttime use. Its rugged design is drop-tested at 1.2 M and IP rated at 54. It can also function in a wide range of temperatures.



Sunlight Readable- 3.5" TFT LCD with LED backlight

- 3.5" diagonal with resolution of 240x320
- 6-bit 262,144 color display capability
- Long life & high brightness LED back-light improved outdoor readability
- Blanview TFT-LCD Resistive touch input



1.2 M Drop Test

- The average height at which people drop handheld products is 1.2 M
- Drop test passed 26 times. Guaranteed sturdy design



Operating Temperature 0°C ~ 50°C

Operate under extreme temperatures, in the warehouse or out in desert .



Storage Temperature -20°C ~ 70°C

Can be stored under extreme temperature conditions



Seamless / Wireless Communication

Out on the field, the MODAT-100 keeps you connected via a built-in 3.5 G modem and a 802.11 b/g wireless LAN module. Empowered by advanced wireless technology, field workers can easily connect with back-offices to verify work orders, transmit field reports and retrieve necessary data and updated information.



MODAT-100

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IEIMobile Solutions

Local-Area Communication



It gives you up to broadband-speed browsing and connectivity, compared to traditional wired LAN. Best for near field or ad-hoc data communications.

- Compliant with IEEE 802.11b/g
- Auto fallback optimal data rate
- Security : WPA/WPA2, 802.11i AES /CCMP, WEP with TKIP
- Hardware signaling BT/Wi-Fi co-existence supported

2

Automation Panel Solutions

Peripheral Communication



- Compliant with Bluetooth specification V1.2.
- Profile : SPP, HFP, HSP
- Up to 1 Mbps data transfer rate and 10 M distance

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RISC-based Solutions

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PACSmate Medical Solutions

Wide-Area Mobile Communication



- UMTS/HSDPA: Triple band, 850//1900/2100 MHz
- GSM/GPRS/EDGE: Quad band, 850/900/1800/1900 MHz

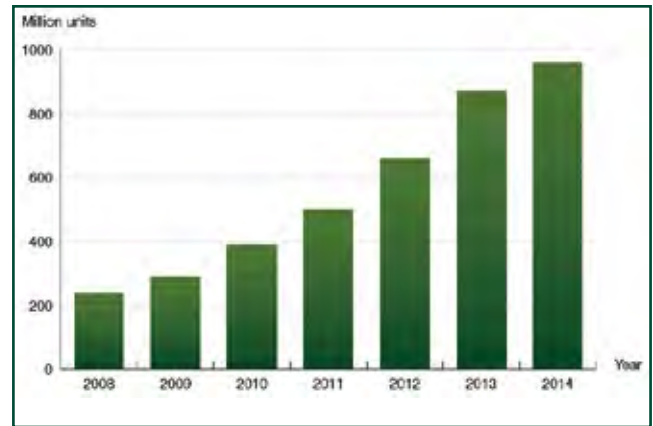
5

Optional Peripherals



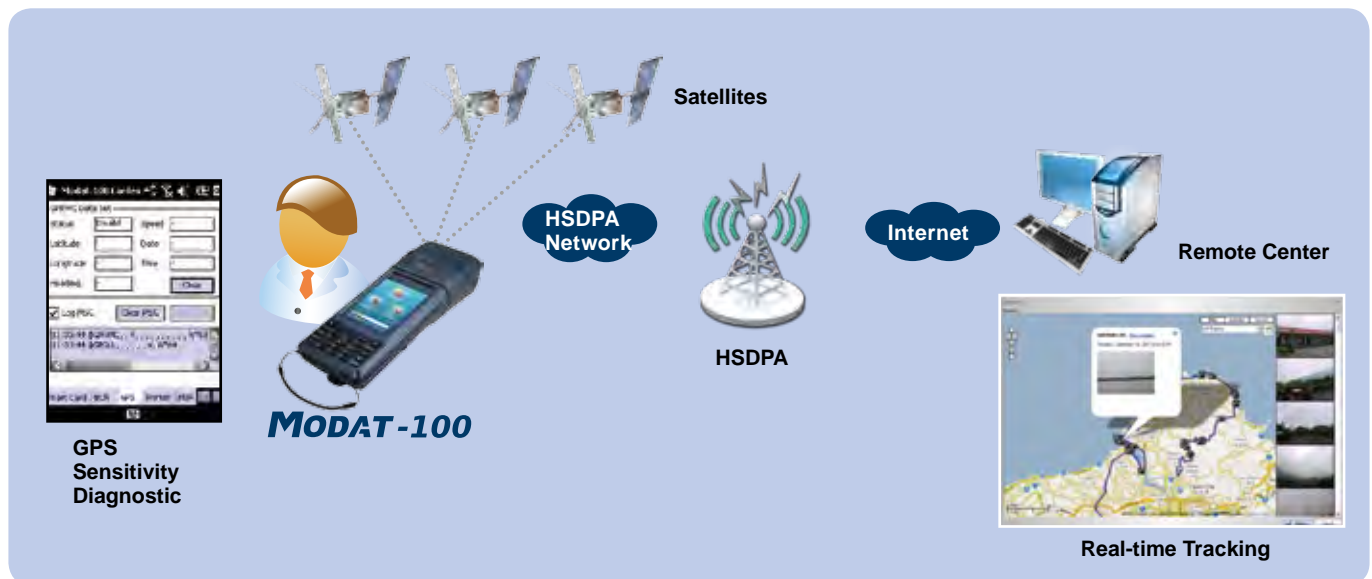
Built-in GPS

GPS technology for handsets has matured, offering much better performance in terms of sensitivity, power consumption, size and price. Sales of GPS-enabled GSM/WCDMA handsets grew to an estimated 150 million units in 2009, up from 78 million devices in 2008. And the forecast for shipments of GPS-enabled GSM/WCDMA/LTE handsets will grow to 770 million units in 2014. Equipped with GPS and GSM/WCDMA features, the MODAT-100 is an ideal industrial mobile electronics devices for Location-Based Services (LBS).



Features

- A 32-channel acquisition engine with over 1 million effective correlators is capable of massive parallel searches
- A-GPS: Supports AssistNow Online and Offline, OMA SUPL compliant Time To First Fix (TTFF): < 1 sec
- Best-in-class acquisition and tracking sensitivity
- GPS Sensitivity Diagnostic Utility



Highly Integrated Mobile Point-Of-Service Design

Most Enterprise PDAs only come with Bluetooth, Wi-Fi or 3G. The MODAT-100 not only has a built-in wireless communication function, it also has integrated peripherals serving as your all-in-one Point-of-Service mobile assistant. The MODAT-100 increases the mobility of your field force.



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iE Mobile Solutions

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Optional Peripherals

Hybrid Card Reader



Smart Card Reader

- EMV V4.1 Level 1 Compliant
- Supports ISO 7816 T=0, T=1 Smart Card. (Supports commonly used memory card.)
- Card Interface ISO 7816 part 1,2 and 3 Compliant
- Card Interface Communication Speed up to 115200 bps



Magnetic Stripe Reader

- EIA/TIA-232 Compliant
- Card Speed 3 to 60 in/s (7.6 to 152.4 cm/s) Reads single, dual or triple track
- ISO 7811 Conformance (AGC (Automatic Gain Control) – Reads cards from 30% - 200% of ISO 7811 amplitude standard)
- 9600 bps, 8 Data Bits, No Parity, 1 Stop Bit

IEIMobile MODAT-100 Utility-SCR and MSR Diagnostic Software

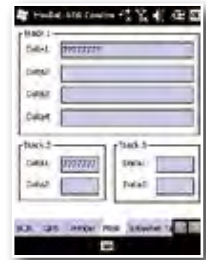
Payment System -SCR

SCR diagnostic software allows the user to initiate insert/remove sequences and perform read/write function tests all in one UI screen. During testing, current card reader and processing commands/responses are displayed.



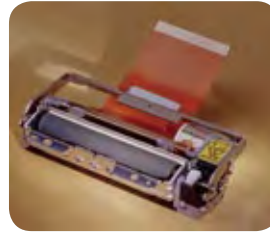
Membership Control -MSR

Track 1 and Track 2 data such as credit card holder name, account number of the bank, expiration date or service code can be displayed on the UI screen simultaneously.



Built-in 2" Thermal Printer

- Easy to load**
Our original plate removal mechanism improves paper loading and maintenance.
- Ultra compact**
The 2-inch model measures 15.5 mm high, 70.3 mm wide, and 33.0 mm deep.
- High speed printing**
Prints up to 60 mm/s (480 dot lines/s) using Fujitsu's unique hard-drive control.
- High resolution printing**
8 dots/mm printing resolution.



IEIMobile MODAT-100 utility

Print and test software included.

1
IEIMobile Solutions

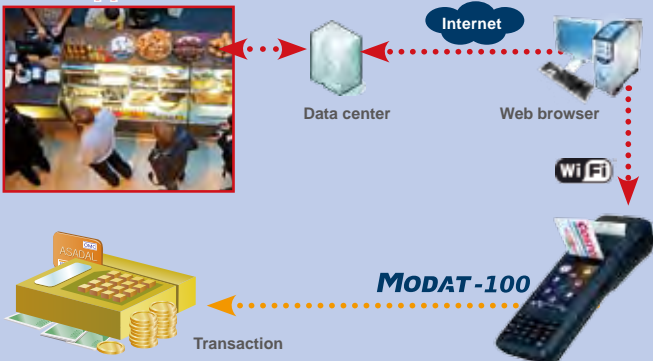
2
Automation Panel Solutions

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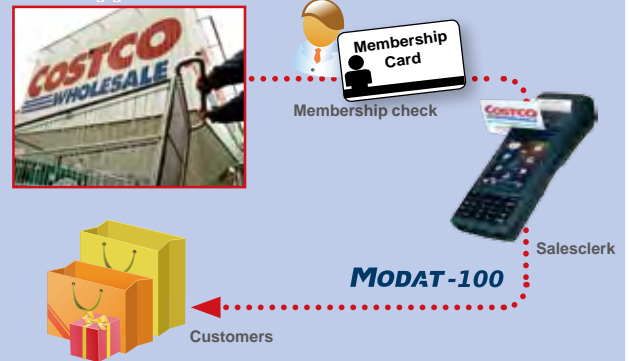
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PACSmart Medical Solutions

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Optional Peripherals

SCR Application



MSR Application



Advanced Data Acquisition Technology

The MODAT-100 built-in camera and 1D laser barcode offers the user multiple data collection methods.



3 Megapixels CMOS Camera

Capture images instantly and send data back to the office via HSDPA

Features

- Superior low-light performance
- Ultra low-power, cost effective sensor
- Integrated real-time JPEG encoder
- Flexible support for external auto focus, optical zoom, and mechanical shutter
- Automatic image correction and enhancement

High Power LED Flash Light

Image is enhanced even under weak light conditions. Great for night patrol and field survey applications.

Features

- Input power: 3 W
- Emitted color: White
- Low power consumption



Motorola 1D Laser or Intermec 2D image Barcode Scanner Pre-installed



• Wide working range

- Meets the needs of a wide range of applications for increased productivity
- Easily optimized product designs

• 100 scans per second

Optimized scanning speed delivers aggressive performance and accurate capture of all barcodes — even damaged and poor quality barcodes

• Low power consumption

Increases battery life in portable terminals

• Bright scan line and aim mode

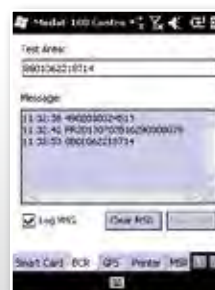
Intuitive and easy to use across the entire working range

• Aggressive decoding algorithms



- Decoding is key to maximize productivity and reduce exception processes
- Extensive symbologies library including linear and 2D codes

IEIMobile MODAT-100 Barcode Demo Software



- Press the hot key or [...] key to scan the barcode. Test area displays the number.
- During testing, the barcode reader detects and displays the commands/responses on the message box.

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Optional
Peripherals

I/O Interface

• microSD

You can install applications on your MODAT-100 by using:

- Microsoft® ActiveSync. ActiveSync lets you transfer files, synchronize files, remotely debug, and perform other device management activities. ActiveSync is a free application available from the Microsoft® web site

• SIM Card

Insert SIM Card for 3.5G data transmission

• SAM Card

SAM (Security Authentication Module) card protects financial data transmission

• 16-pin Connector

16-pin connect cable



USB2.0 Host

USB Client

RS-232



USB Host Application for intelligent electric testing

Connect the MODAT-100 to electric testing equipment and transmit the data via USB-Host.



USB Client Application

Connect to desk top and sync the MODAT-100 data.



RS-232 Application for mobile temperature test

Testing equipment connected via RS-232 allows field workers to test temperatures. The MODAT-100 detects errors and displays them on screen, allowing workers to address issues on-site.

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Optional Peripherals

LED Indicators & HOT Keys

Green: 3.5G on

Green: Fully Charged
Amber: Battery Charging

Fn

Power On/Off

Direction Key

Alpha/Numeric Switch

Camera On/Off

Enter Key

Barcode Scanner Button

Same as PC Fn Key

- Press Alpha to use the orange characters
- Press Fn to use the blue characters

MODAT-100-RFID-WB65-En

- Target on out-field services. For example, public sector applications can utilize the HF RFID (13.56 MHz) to read tags and print out information with the thermal printer.

● Specification

- Marvell® PXA 310 624 MHz CPU
- Windows® Embedded Handheld 6.5 pre-installed
- Built-in 32-channel GPS Receiver
- Built-in Smart Card Reader (SCR), 2" thermal printer
- 1D laser barcode, **RFID supports ISO 14443 A/B & ISO 15693**
- Bluetooth, Wi-Fi and HSDPA



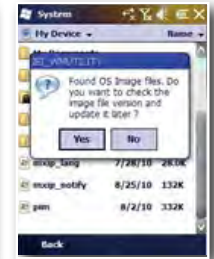
Bundled IEIMobile MODAT-100 Software Support

- Besides Windows® Embedded Handheld SDK, the MODAT-100 provides an SDK (Software Development Kit)

- SDK (for embedded Visual C++)

● Utility

- IEI Utility (Registry management, start up program and function test)
- Remote Management Tool
- Locate versions of Boot Loader and OS image on the "General" page
- When a new version of OS and/or Boot Loader is detected it can be updated by pressing the "Yes" button
- To open IEI Utility, click Start and select "Settings and System"
- To launch applications automatically, click the "Auto Execution" tab and add applications. Click the "Save to registry" button to save the settings



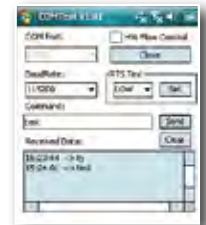
● Diagnostic and Demo AP

- Internet Demo
- Barcode Demo
- MSR/SCR Demo
- HSDPA Demo/Utility
- Printer Demo
- Camera Demo
- GPS Demo

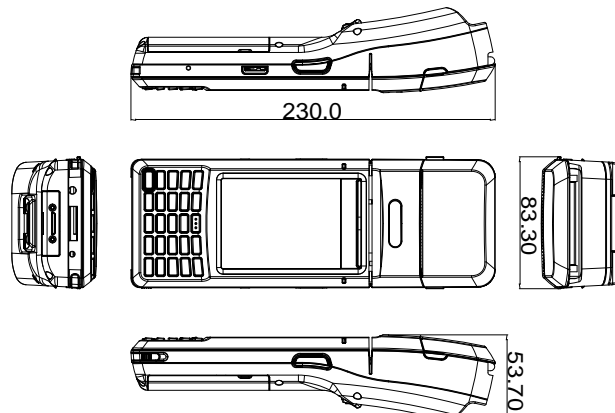


● COM Port Debugging Tool

Diagnose the COM6 (RS-232 port) using the COM Port Debugging tool to receive/send messages from the specified COM port.



MODAT-100 Dimensions (Unit: mm)



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- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Specifications

Model	MODAT-100	
Display	LCD Size	3.5" TFT LCD (Sunlight Readable)
	Brightness (cd/m ²)	190 cd/m ²
	Max Resolution	240 x 320 pixels QVGA
	Viewing Angle	80/80/80/80 Deg.
	Touch Screen	4-Wire Resistive Type Touch
System	CPU	Marvell® PXA 310 624 MHz
	Operation System	Windows® Embedded Handheld 6.5
	Memory	128 MB Flash + 256 MB SDRAM
	Storage	microSD Slot
Communication	Wireless LAN	Wi-Fi 802.11 b/g
	Bluetooth	Bluetooth 2.1 + EDR
	3.5G	WCDMA/HSDPA
	GPS	GPS w/internal antenna
Data Collection	Barcode	Built-in 1D Laser Engine and optional 2D imager Engine
	Camera	3 megapixels CMOS Camera with LED Flash Light
Indicators & Buttons	LED Indicators	Charging/Barcode status LED HSDPA status LED
	Hot Keys	2 x Barcode Trigger
I/O Interface	Audio	1 x Headset and 1 x Speaker
	Expansion	16-pin connector (RS-232 / battery charging/ OTG-Host/ OTG-Client)
		2" Thermal Printer
		Smart Card Reader Support Magnetic Stripe Reader Support
Power	Power Adapter	Input: VAC:90 V~264 V Output: 12 V/3 A
	Battery	7.4V 1880 mAh battery
Environment	Operating Temperature	0°C ~ 50°C
	Storage Temperature	-20°C ~ 70°C
	Humidity	5%~95% non-condensing
	Drop Survival	1.2 M
	Environmental Protection	IP 54 (Front Panel only)
Physical Characteristics	Certification	CE, FCC
	Dimensions (LxWxH) (mm)	230 x 84 x 54
	Weight	546 g

Optional Accessory List

Item	Part No.	Description
Cradle	MODAT-100-CR01-R10	Charging cradle integrated one charging bay along with USB Host, USB Client and RS-232 I/O ports
16Pin Cable	32024-001500-100-RS	16-pin cable Connect to USB Host, USB Client and RS232
Battery Pack	31603-000014-RS	7.4V 1880 mAh Battery
Carrying Case	7Z000-MODAT100POUCH-RS	Black, professional protector case with shutter strap for MODAT-100
Car Holder	19B00-000229-00-RS	MODAT-100 car holder with stand
Thermal Printer Paper	5Z000-000165-RS	One thermal paper; 57MM*3.1CM*0.079TMM;
	19N43-128001-00-00-RS	Five thermal paper per roll
microSD Card	79D00-G001-006-RS	1G microSD Card
	79D00-G002-005-RS	2G microSD Card

Support Function

Part Number	Barcode	RFID	MSR	SCR
MODAT-100-RFID-WB65-En	1DBarcode Scanner	13.56MHz supports ISO 14443 A/B & ISO 15693	N/A	Yes
MODAT-100-WB65-En5-En	1D Barcode Scanner	N/A	Yes	Yes
MODAT-100-2D-WB65-En-En	1D/2D Barcode Scanner	N/A	Yes	Yes

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Optional Peripherals

Packing List

Item	Part No.	Q'ty	Description
Battery Pack	31603-000014-RS	1	7.4V 1880 mAh Battery
Carrying Case	7Z000-MODAT100POUCH-RS	1	Black, professional protector case with shutter strap for MODAT-100
Power Adapter	63000-FSP036RAB613-RS	1	FSP036-RAB613; VAC:90V~264V; 12V/3A; 36W; PLUG Ψ1.35/Ψ3.5/ NONE LOCK/LENGTH:9.5MM; 1500MM; FSP
Stylus	7Z000-MODAT100STYLUS-RS	1	
Headset	30900-000001-RS	1	



Ordering Information

Part No.	Description
MODAT-100-RFID-WB65-En	3.5" TFT-LCD 190 cd/m ² QVGA Enterprise PDA with Marvell® PXA 310 624MHz CPU, HSDPA, 802.11 b/g Wireless, Bluetooth, 1D barcode scanner, RFID, Smart Card Reader, Windows® Embedded Handheld 6.5 OS, RoHS
MODAT-100-WB65-En	3.5" TFT-LCD 190 cd/m ² QVGA Enterprise PDA with Marvell® PXA 310 624MHz CPU, HSDPA, 802.11 b/g Wireless, Bluetooth, 1D barcode scanner, Smart Card Reader, Magnetic Stripe Card, Windows® Embedded Handheld 6.5 OS, RoHS
MODAT-100-2D-WB65-En	3.5" TFT-LCD 190 cd/m ² QVGA Enterprise PDA with Marvell® PXA 310 624MHz CPU, HSDPA, 802.11 b/g Wireless, Bluetooth, 1D/2D Imager barcode scanner, Smart Card Reader, Magnetic Stripe Card, Windows® Embedded Handheld 6.5 OS, RoHS

MODAT-200

Order Entry PDA

- 667 MHz ARM11 CPU
- Built-in Windows® Mobile 6.5 OS/
Windows® CE 6.0 Optional
- USB 1.1 Host/Client 2.0
- Built-in Wi-Fi and Bluetooth wireless communication
- 3.5" TFT resistive touch screen
- microSD slot



Application

- Quick Registration
- Inspection
- Table Service
- On-Line Sales



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iE Mobile Solutions

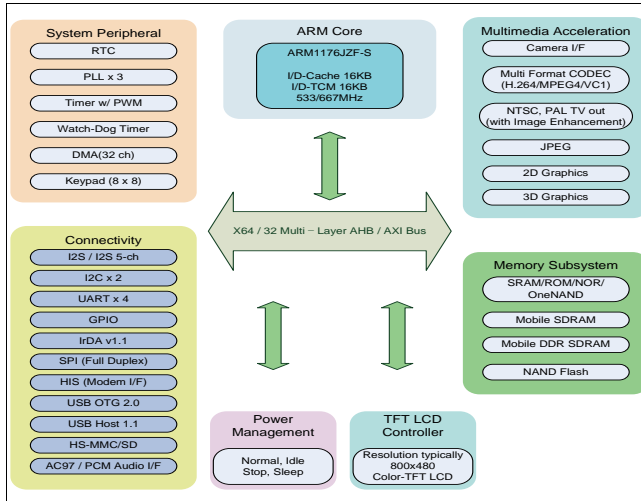
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Optional Peripherals

High Performance, Low Power Consumption CPU



The S3C6410X is a 16/32-bit RISC microprocessor that delivers high performance with a cost-effective, energy-efficient design. Not only does it provide general application for mobile phones, its ARM1176JZF-S based CPU subsystem and Java acceleration engine make it a perfect match for handheld computers.

- Multiformat codec provides MPEG-4/H.263/H.264 encoding and decoding.
- 2D graphics and 3D graphics acceleration with Bit Blit and rotation.
- USB 2.0 OTG supports high-speed (480Mbps, on-chip transceiver).
- USB 1.1 Host supports full-speed (12Mbps, on-chip transceiver).

Built-in Windows Mobile 6.5 OS

- Windows® Mobile (WM) is a compact mobile operating system developed by Microsoft®, and designed for use in smart phones and mobile devices.
- The IEIMobile Enterprise PDA series runs on Windows® Embedded Handheld 6.5.



Built-in Applications

- Internet Explorer Mobile
- Microsoft® Office Outlook Mobile
- Windows® Media Player Mobile
- Microsoft® Office for Mobile is programmable and compatible with desktop Windows® (optional)
- Microsoft® SQL Server Mobile edition for desktop PC or back-end ERP system (optional)



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Optional Peripherals

Windows® Embedded Handheld Application Development

- **Windows® Embedded Handheld Device**
 - NET Compact framework
 - Visual basic .NET, Visual C# .NET
 - BCL (Base Class Libraries)
- **Native Code**
 - Machine code
 - C++ ; MFC / ATL / WTL / STL



Optional Windows CE 6.0 OS

- Run one of Microsoft's compact operating systems, either Windows CE or Windows® Embedded Handheld.
- Vertical market handhelds still run Windows CE & Windows® Embedded Handheld.





Take orders while customers are waiting in a busy shop or cafe



Drive-through quick order services



Check reservations and table status at reception



Allow customers to pay at the table, receive receipt and give feedback all at once

ICEROCK POS computer

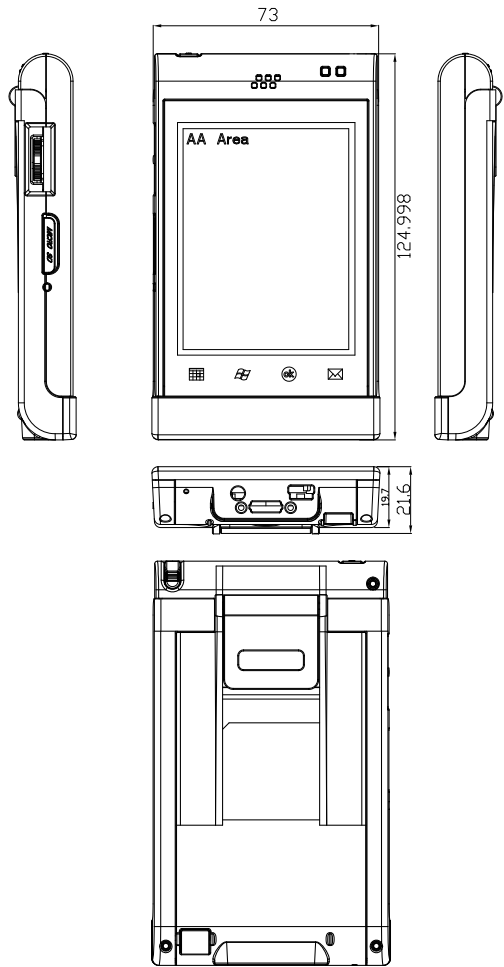


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Optional Peripherals

Specifications

Model	MODAT-200	
Display	LCD Size	3.5" TFT LCD
	Brightness (cd/m ²)	250 cd/m ²
	Max. Resolution	240 (H) x 320 (V) QVGA
	Viewing Angle	80/80/80/80 Deg.
	Touch Screen	4-Wire Resistive Type Touch
System	CPU	Samsung® 6410 ARM11 667MHz
	Operating System	Windows® Mobile 6.5 OS
	Memory	128MB Flash + 128MB SDRAM
	Storage	microSD Slot
Communication	Wi-Fi	Wi-Fi 802.11b/g
	Bluetooth	Bluetooth 2.1 + EDR
Indicators & Buttons	LED Indicators	Message/battery/charging status LED Wi-Fi / Bluetooth enable/disable LED
	Hot Keys	1 x Rolling Key
I/O Interface	Audio	1 x Headset and 1 x Speaker Built-in Mic-in
	Expansion	1 x Mini USB Host 1.1/Client 2.0
Power	Power Adapter	Input: 100 V AC to 240 V AC ~ 50-60Hz 0.2A Output: 5V/1A
	Battery	3.7V 1800mAh battery (built-in non-swappable)
Environment	Operating Temperature	-10°C ~ 50°C
	Storage Temperature	-20°C ~ 70°C
	Humidity	5%~95% non-condensing
	Drop Survival	1.5M
	Environmental Protection	IP 54
	Certification	CE, FCC, BSMI
Physical Characteristics	Dimensions (LxWxH) (mm)	125 x 74 x 18
	Weight	200 g

MODAT-200 Dimensions (Unit : mm)



Ordering Information

Part No.	Description
MODAT-200-CE60-En	3.5" TFT-LCD 250 cd/m ² QVGA Enterprise PDA with Samsung® 6410 ARM11 667MHz CPU, 802.11 b/g Wireless, Bluetooth, Windows CE 6.0 OS, RoHS
MODAT-200-WB65-En	3.5" TFT-LCD 250 cd/m ² QVGA Enterprise PDA with Samsung® 6410 ARM11 667MHz CPU, 802.11 b/g Wireless, Bluetooth, Windows Mobile 6.5 OS, RoHS

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Optional Peripherals

Packing List

Item	Part No.	Q'ty
Cradle	MODAT-200-CR01-R10	1
Leather Protective Case	7Z000-MODAT200POUCH-RS	1
USB Cable	32001-000301-100-RS	1
AC-DC Adapter	63040-180005-000-RS	1
Headset	30900-000001-RS	1
Stylus	7Z000-MODAT200STYLUS-RS	1
Hand Strap	7Z000-MODAT200STRAP-RS	1
User's Manual CD ROM	7B000-000548-RS	1



USB Cable



AC-DC Adapter



Headset



Hand Strap



Leather Protective Case



Stylus



Cradle

Optional Accessory List

Item	Part No.	Description
Leather Protective Case	7Z000-MODAT200POUCH-RS	Black, professional leather protective case for MODAT-200
AC-DC Adapter	63040-180005-000-RS	Input: 100 V AC to 240 V AC ~ 50-60Hz 0.2A Output: 5 V DC, 1 A (Max)
Cradle	MODAT-200-CR01-R10	One to one charging cradle with MODAT-200

MODAT-328

Stocktaking PDA

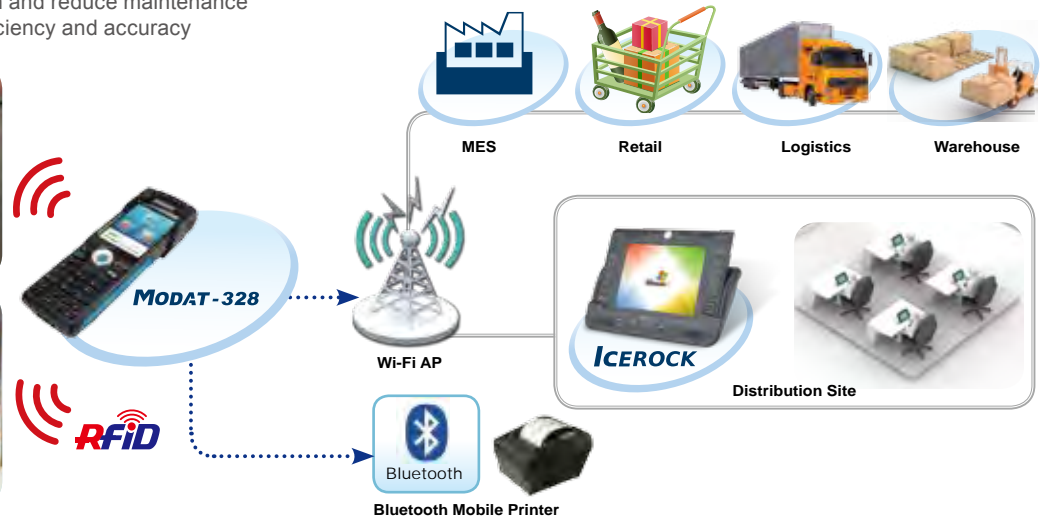
- 2.8" TFT LCD with resistive touch screen
- Marvell PXA 310 624 MHz CPU
- Built-in Windows® Embedded Handheld 6.5 OS
- Wi-Fi and Bluetooth wireless technology
- 3 Megapixels camera with LED flash
- Supports Mifare (ISO 14443A) Felica (ISO 14443B) and ISO 15693
- 1D/2D barcode reader
- Optional cradle with RS-232 and USB client port



Benefits

Designed to be an integral part of the warehousing management solution, the MODAT-328 is an all-functional stocktaking PDA with the Marvell PXA310 CPU and Windows® Embedded Handheld 6.5 operating system. It is a light-weight, ergonomic mobile terminal equipped with advanced data acquisition technologies: RFID, 1D/2D barcode reader, and 3 megapixels CMOS camera. Via built-in 802.11b/g Wi-Fi and Bluetooth wireless modules, the MODAT-328 allows quick and easy connection to other peripherals. Your mobile workforce is empowered with the ability to track and report real-time inventory levels and movements, reducing chances for delays, shortages and uncertainties. With the MODAT-328, it's never been easier for businesses to remote-control warehouse and distribution center operations. On the manufacturing floor, up on the loading dock or out in the yard, the MODAT-328's ultra-rigged design offers reliable performance under harsh environment.

- Accurate and real-time inventory data
- Inventory visibility and better forecasting and accuracy enabling a reduction in safety stocking levels
- Reduction in misplaced goods and elimination of sales lost due to out of stocks
- Increase accuracy and reduced labor costs in receiving, put-away and shipping operations
- Reduce labor requirements for backroom functions such as physical inventory counting, receiving, and locating specific items
- Reduce losses and shrinkage of assets, also theft prevention
- Correct item name identification and reduce maintenance
- Increase distribution center efficiency and accuracy



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High Performance Low Power Consumption Platform

Marvell® PXA 310

Built on a low-power 90nm process technology, the Marvell PXA 310 is a cost-effective, power-efficient solution with up to 624 MHz computing performance. In addition to hardware video acceleration, DRM security and video/audio playback, it combines low-power modes with on-demand adjustment of voltage and frequency to support exceptional battery life in standby modes.

Built-in Windows® Embedded Handheld 6.5

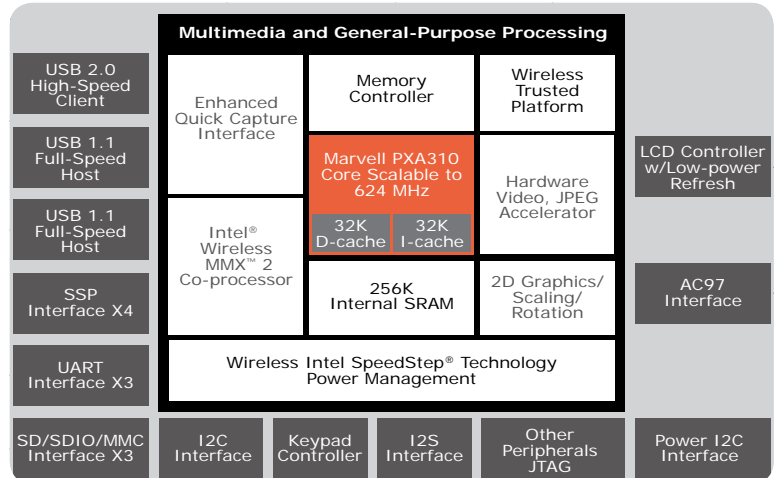
Windows® Embedded Handheld (WM) is a compact mobile operating system developed by Microsoft®, and designed for use in smart phones and mobile devices. IEIMobile Enterprise PDA series adopts Windows® Embedded Handheld 6.5 to meet the demands of your mobile workforce.

Built-in Applications

- Optional Windows® Embedded Handheld 6.5 Office
- Optional Microsoft® SQL Server Mobile Edition is compliant with the industrial leading standard DBMS and is compatible with desktop PC or back-end ERP system. It saves time and effort of building a new ERP system.

Windows® Embedded Handheld Application Development

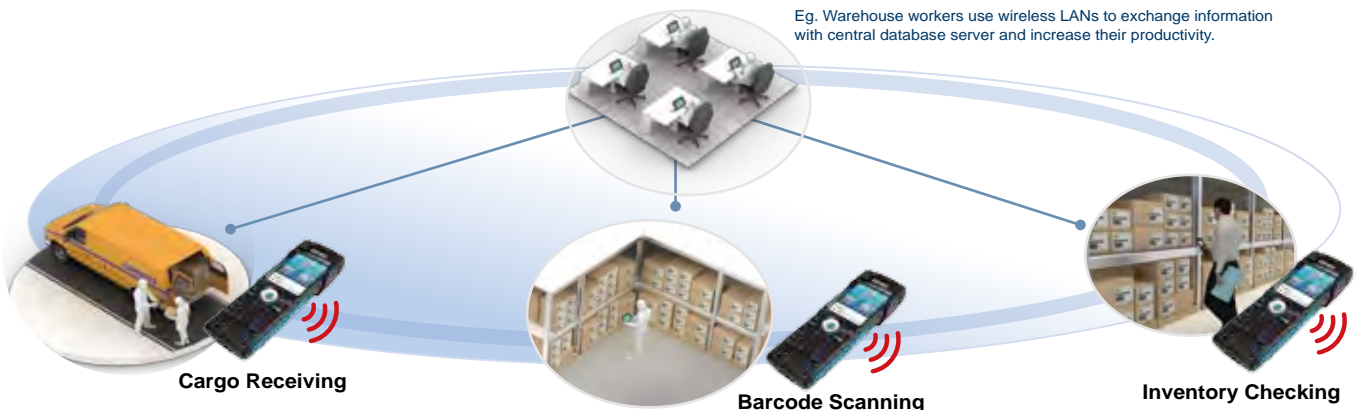
- Official IDE
- Managed Code
- Native Code



Seamless Wireless Communication

Real-time data can be delivered and accessed using MODAT-328's built-in 802.11 b/g wireless LAN module to connect to wireless local area network (WLAN). Nowadays, efficient and streamlined work-flow is where most businesses look to reduce cost and improve competitiveness. With the seamless wireless connection, you can greatly enhance stock management system. The MODAT-328 also comes with Bluetooth 2.1 +EDR, offering a fast and easy way to connect and synchronize all the peripherals, such as printers and headsets.

Eg. Warehouse workers use wireless LANs to exchange information with central database server and increase their productivity.



Local-Area Communication

MODAT-328 gives you up to broadband-speed browsing and connectivity, compared to traditional wired LAN. It is best-suited for near field or ad-hoc data communications.

- Compliant with IEEE 802.11b/g
- Auto fallback optimal data rate
- Security : WPA/WPA2, 802.11i AES /CCMP, WEP with TKIP
- Hardware signaling BT/Wi-Fi co-existence supported



Peripheral Communication

- Compliant with Bluetooth specification V1.2.
- Profile : SPP, HFP, HSP
- Up to 1Mbps data transfer rate and 10M distance

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Optional Peripherals

Advanced Data Acquisition Technology

The MODAT-328 is a multi-modal device that supports 1D and 2D barcode scanning, RFID and imaging. RFID technology is capable of "simultaneous identification," capturing data from multiple tags within specific range all at the same time. In addition to RFID, the MODAT-328 has a built-in barcode scanning capability and a 3 megapixels camera with high power LED flashlight. The MODAT-328 is an ideal transaction-based stocktaking PDA.

Built-in 13.56 MHz RFID Reader

Supports Mifare(ISO 14443A) Felica(ISO 14443B) and ISO 15693

Combined with mobile computing and Web technology, RFID technology provides a way for organizations to identify and manage their assets in real-time.

The MODAT-328 integrated with RFID readers delivers a complete set of tools that eliminates paperwork, and gives proof of identification and attendance. Manual data entry becomes a thing of the past. Its RFID reader module supports standard ISO 14443A ISO 14443B and ISO 15693(smart label).



1D/2D Image Barcode Reader or 1D Laser Barcode Reader

MODAT-328's built-in barcode scanner can integrate with warehouse management software, providing rapid gains in storage efficiency. The MODAT-328 can quickly collect the data and build an inventory database. Through the warehouse management system, managers or administrators can calculate how much space is needed and where to put these items. Based on storage rules the customer needs and formulas designed to store inventory with maximum efficiency, the MODAT-328 can provide very detailed up-to-date information on key aspects of the business, enabling decisions to be made much more quickly and with more confidence. For example: fast-selling items can be identified quickly and automatically reordered to meet consumer demand, preventing a build-up of unwanted stock.



1D and 2D application

1D barcode is common in most household products and 2D barcode is common in industrial products where more information is needed to be stored in the label.



2D barcode



1D barcode

3 Megapixels CMOS Camera

Features

The module features CMOS sensor and 2064V x 1552H resolution.

- Superior low-light performance, ultra low-power, low-cost sensor
- Integrated real-time JPEG encoder
- Flexible support for external auto focus, optical zoom, and mechanical shutter



Stylish and Ergonomic Design

Brings a stylish and lightweight ergonomic look to the handheld mobile device, the MODAT-328 offers a comfortable grip and ultra portability with a petite size at 190 x 136 x 115mm while ensuring single-handed scanning service.

LED Indicators & HOT Keys

- Provides 2.8" QVGA touch screen and simple user interface. It allows user to have easy access to all the relevant information and applications.
- Shockproof, dustproof, and waterproof in compliance with IP54.
- The ergonomic and professional keypad is made of wear-resistant PET+SUS and is easy to operate.

I/O Interface

- **microSD:** Users can install applications in the MODAT-328 by using:
 - Microsoft® ActiveSync lets you transfer files, synchronize files, remotely debug, and perform other device management activities. ActiveSync is a free application available from the Microsoft® web site
 - microSD card
- **Mini USB (OTG) :** Expand the storage capacity and peripheral devices
- **16-pin Connector:** 16-pin connect cable



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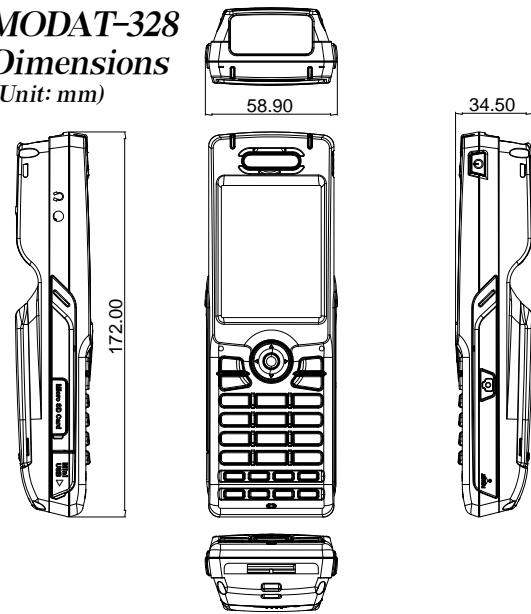
5
Optional
Peripherals



Specifications

Model	MODAT-328	
Display	LCD Size	2.8" TFT LCD
	Brightness (cd/m ²)	240 cd/m ²
	Max Resolution	240(H) x 320(V) QVGA
	Viewing Angle	70/50/70/70 Deg.
System	Touch Screen	4-wire resistive type touch
	CPU	Marvell® PXA 310 624MHz
	Operating System	Windows® Embedded Handheld 6.5
	Memory	256 MB Flash + 128 MB SDRAM
Communication	Storage	microSD Slot
	Wi-Fi	Wi-Fi 802.11 b/g
Data Collection	Bluetooth	Bluetooth 2.1 + EDR
	RFID	13.56 MHz RFID reader support ISO15693 and 14443A/B compliant or ISO 14443A and Felica compliant
	Barcode	1D/2D Imager Scan Engine
	Camera	3 megapixels CMOS camera with LED flashlight
Indicators & Buttons	LED Indicators	Charging status LED Wi-Fi / enable/disable LED
	Hot Keys	3 x Barcode key 1 x Camera key
I/O Interface	Audio	1 x Headset and 1 x Speaker
	Expansion	Built-in Mic-in 1 x Mini USB Client 2.0
Power	Power Adapter	Input: 100 V AC to 240 V AC ~ 50-60Hz 0.2A Output: 5 V/2.1A
	Battery	3.7V 1880 mAh battery
Environment	Operating Temperature	-10°C ~ 50°C
	Storage Temperature	-20°C ~ 60°C
	Humidity	5%~95% non-condensing
	Drop Survival	1.5M
Physical Characteristics	Environmental Protection	IP 54 (Front panel)
	Certification	CE, FCC
Physical Characteristics	Dimensions (LxWxH) (mm)	172 x 55 x 31
	Weight	245 g

MODAT-328 Dimensions (Unit: mm)



Support Function

Part Number	Wireless	Barcode	RFID
MODAT-328-WB65-En-R11	802.11 b/g	1D/2D Barcode Scanner	Mifare (ISO 14443A) Felica (ISO 14443B) and ISO 15693
MODAT-328-1D-WB65-En	802.11 b/g	1D Barcode Scanner	N/A

Ordering Information

Part No.	Description
MODAT-328-WB65-En-R11	2.8" TFT-LCD 240 cd/m ² QVGA Enterprise PDA with Marvell® PXA 310 624MHz CPU, 802.11 b/g Wireless, Bluetooth, 1D/2D Barcode Scanner, RFID, 3M Pixels Camera, Windows® Embedded Handheld 6.5 OS, RoHS
MODAT-328-1D-WB65-En	2.8" TFT-LCD 240 cd/m ² QVGA Enterprise PDA with Marvell® PXA 310 624MHz CPU, 802.11 b/g Wireless, Bluetooth, 1D Barcode Scanner, Windows® Embedded Handheld 6.5 OS, RoHS

Packing List

Item	Part No.	Q'ty	Description
Battery Pack	31603-000015-RS	1	3.7V 1880 mAh Battery
Belt Clip Case	7Z000-MODAT-328POUCH-RS	1	Black, MODAT-328 Professional Belt Clip Case
USB Cable	32001-000301-100-RS	1	
AC-DC Adapter	63040-330010-000-RS	1	Vin:90~264VAC;10.5W, (NO LOAD 0.1W)
Headset	30900-000001-RS	1	Vout:5VDC;USB;CCL;RoHS
Stylus	7Z000-431250003C000RS-RS	1	
Hand Strap	7Z000-MODAT300STRAP-RS	1	
User's Manual CD ROM	7B000-000550-RS	1	

Optional Accessory List

Item	Part No.	Description
Cradle	MODAT-300-CR01-R10	Charging cradle with USB Client
Battery Pack	31603-000015-RS	3.7V 1880 mAh Battery
Battery Pack - L	31603-000017-RS	3.7V 3000 mAh Battery (Note: Please confirm that need to purchase the Batter Pack Cover-L or not)
Belt Clip Case	7Z000-MODAT-328POUCH-RS	Black, MODAT-328 Professional Belt Clip Case
16-pin Cable	32024-001500-100-RS	Connect to USB Host, USB Client and RS-232
Battery Pack - L Cover	9N41-209001-00-00-A-RS	The Cover of Battery Pack - L (Note : Please select this cover when the first time purchase the Battery Pack - L)



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Optional Peripherals

MODAT - 335

Field Service Terminal

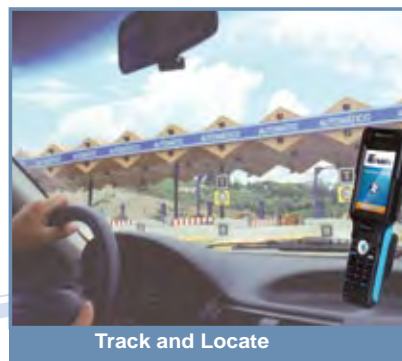
- 3.5" TFT sunlight readable LCD touch screen
- Marvell® PXA 310 624MHz CPU
- Built-in Windows® Embedded Handheld 6.5 OS
- Wi-Fi, Bluetooth and WCDMA/HSDPA or GPRS wireless technology
- Built-in GPS
- 1D Laser/2D Imager Scan Engine and Supports Mifare (ISO 14443A) Felica (ISO 14443B) and ISO 15693 RFID reader 3 Megapixels Camera
- Optional Handle Grip
- Optional UHF read Multi Tags and support 3 meter reading distance



Field Service Application

The MODAT-335 is a highly integrated terminal designed for the mobile field service workforce. Benefits include:

- Fleet and inventory tracking
- Access to detailed customer and asset records
- Automated service order dispatch
- Remote update of work status
- Capture customer and asset data easily
- Create notifications and service orders on the spot



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Advanced Data Acquisition Technology



1D/2D Image Barcode Scan Engine



The built-in 1D/2D barcode scanner features a high quality reading function and advanced image capture capabilities suitable for technicians to identify and record information in the field.

Built-in 13.56 MHz RFID Reader



Compliant with ISO15693 and 14443A, the built-in RFID reader automates data capture. The RFID field service application reduces the number of parts required on a service vehicle, eliminate manual data entry, and improve productivity and customer service.

3 Megapixels CMOS Camera



The 3 megapixels camera features a CMOS sensor and a 2064V x 1552H resolution. The camera is perfect for technicians to capture images while working in the field.

1

IEIMobile Solutions

Seamless / Wireless Communication

The MODAT-335 keeps field workers connected through a built-in 3.5G modem and a 802.11 b/g wireless LAN module and Bluetooth. With these technologies, the mobile workforce stays connected to back-offices in order to verify and obtain information, update work status and dispatch jobs in real-time.

2

Automation Panel Solutions

Local-Area Communication



It gives you up to broadband-speed browsing and connectivity, compared to traditional wired LAN. insert a space Best for near field or ad-hoc data communications.

- Compliant with IEEE 802.11b/g
- Auto fallback optimal data rate
- Security: WPA/WPA2, 802.11i AES /CCMP, WEP with TKIP
- Hardware signaling BT/Wi-Fi co-existence supported

3

RISC-based Solutions

Peripheral Communication



- Compliant with Bluetooth specification V1.2.
- Profile: SPP, HFP, HSP
- Up to 1 Mbps data transfer rate and 10 M distance

4

PACSmate Medical Solutions

Wide-Area Mobile Communication



- UMTS/HSDPA: Triple band, 850//1900/2100 MHz
- GSM/GPRS/EDGE: Quad band, 850/900/1800/1900 MHz

5

Optional Peripherals



Built-in GPS

Together with wireless technologies such as 3G, the built-in GPS allows for accurate location and tracking of users. This feature has two important implications:

- Users can be located on a map to reference his/her own location in relation to other landmarks. With location-based and map services, mobile workers can locate important destinations such as gas stations and customers in an unknown territory.
- Location information obtained from the GPS can be transmitted to the backend office through wireless broadband connectivity, allowing employees to be tracked while they are on the move. This makes dispatch work more efficient as mobile workers can be assigned jobs according to their proximity to customers.



Semi-Rugged Design

The MODAT-335 is a mobile field service terminal specifically designed to meet out-field conditions, with the following taken into consideration:

- The ability to withstand tough outdoor conditions such as high and low operating and storage temperatures.
- The ability to endure rough handling such as accidental drops and bumps.
- The ability to function under almost any circumstances such as moist conditions.



IP 54 Rating

- Protected against dust that would interfere with normal operation
- Protected against water splashed against the device from any direction



Sunlight Readable - 3.5" TFT LCD

Display can be read in bright sunlight



1.5 M Drop Test

Passed 1.5M drop test 26 times



Operating Temperature

-10°C ~ 50°C

Can operate in a wide range of temperatures



Storage Temperature

-20°C ~ 60°C

Can be stored under extreme temperatures



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Optional Peripherals

Advanced Optional Accessories

UHF RFID Reader

The communication frequencies used in radio frequency identification (RFID) technology range from 125KHz to 2.45GHz. The MODAT-335 features an optional ultra high frequency (UHF) reader. The MODAT-335:

- Detects a frequency range from 840MHz to 960MHz
- Allows a long reading range
- Is excellent for reading multiple tags
- Carry one 3000 mAh Battery inside
- Design 4 screws which can fix the UHF on the device



3000 mAh battery can support UHF power consumption, provide longer working hours!



Vehicle Identification
Verify and identify vehicle transponders.



Object or Personnel Tracking
Verify job or order delivery assignment.



Multiple Item Identification
Read multiple items at once, saving time and effort.



Long Range Reading
Read tags from a long distance.

User friendly design

Easy to Install and Clip



Easy to switch and convenient to use



Handle Grip

The MODAT-335 features a removable handle grip which can be secured to the device whenever the user needs it. Its advantages include:

- Easy to hold and carry while reading tags
- Increased reading angles

Handle Grip Installation



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Optional Peripherals

MODAT - 335A **New**

Field Service Terminal

- 3.5" TFT sunlight readable LCD touch screen
- Texas Instruments Sitara ARM Cortex A8 CPU
- Built-in Android 2.3.4 OS
- Wi-Fi, Bluetooth and WCDMA/HSDPA or GPRS wireless technology
- Built-in GPS
- 1D Laser/2D Imager Scan Engine and Supports Mifare (ISO 14443A) Felica (ISO 14443B) and ISO 15693 RFID reader 3 Megapixels Camera
- Optional Handle Grip
- Optional UHF read Multi Tags and support 3 meter reading distance



Power Saving and Trendy Platform

TI Cortex A8 CPU

TI's Sitara™ family of highly-integrated ARM9™ and ARM Cortex™-A8 microprocessor portfolio offers various combinations of high-performance and low power levels, providing the ability to create an array of products using a common hardware and software platform.

Benefit

- Support OS such as Linux, Win CE, RTOS
- 10M polygons/second for robust GUIs
- Multi windows overlay for hardware accelerated user

Power

- Total Power: 1.700mW
- Standby Power: 12mW

Suggested Application

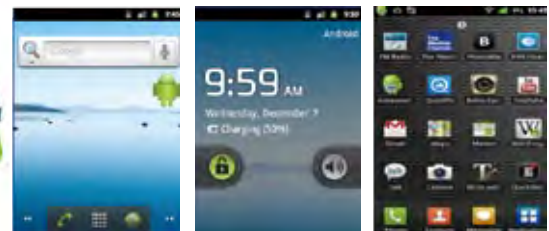
- Industrial/Home automation
- Point of service



ARM® Cortex™-A8 600 MHz			AM3517/05 Processors	
18K/18K L1	3D Graphics Accelerator (AM3517 only)	Display Subsystem	LCD Controller	Video Processing Front End
256K L2		Video Encoder	Video Input (16-bit)	
84K SRAM		10 bit DAC	10 bit DAC	
L3/L4 Interconnect				
Connectivity	Serial Interface	Memory Interface		
USB OTG w/ PHY	McBSP x5	DDR2		
USB HS Host x2	MCSPi x4	NAND/NOR		
CAN Controller	PC x3	MMC/SD/SDIO x3		
10/100 EMAC	HQDQ/ 1-wire	Timers		
	UART x3	GP x12		
	UART w/ IrDA	WDT x1		

Android 2.3.4 Operating System

- Android is an operating system for mobile devices such as smartphones and tablet computers. It is developed by the Open Handset Alliance led by Google.
- Android was listed as the best-selling smartphone platform worldwide in Q4 2010 by Canalis with over 200 million Android devices in use by November 2011.
- 2.3 Gingerbread refined the user interface, improved the soft keyboard and copy/paste features, improved gaming performance, added SIP support (VoIP calls), and added support for Near Field Communication.



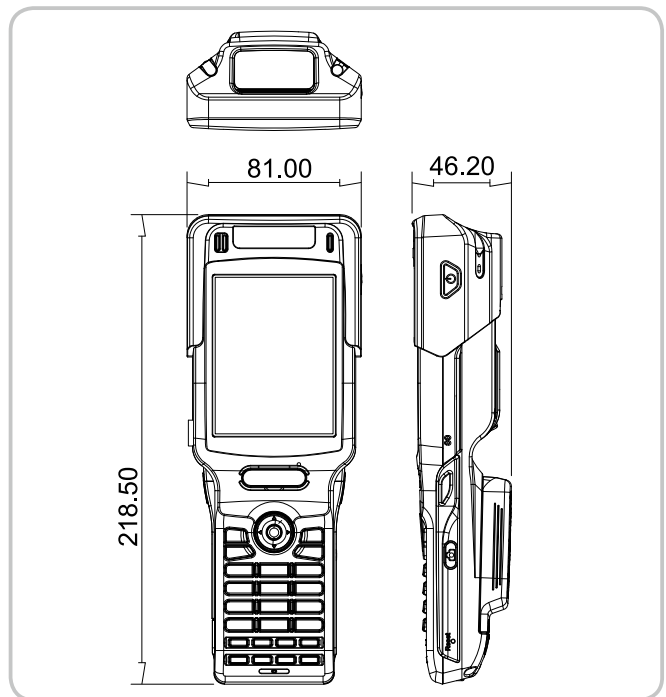
Android Security Issue:

Android applications run in a sandbox, an isolated area of the operating system that does not have access to the rest of the system's resources, unless access permissions are granted by the user when the application is installed. Before installing an application, Android Market displays all required permissions.

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Specifications

Model	MODAT-335	
Display	LCD Size	3.5" TFT LCD (Sunlight Readable)
	Brightness (cd/m ²)	190 cd/m ²
	Max Resolution	240(H) x 320(V) QVGA
	Viewing Angle	80/80/80/80 Deg.
	Touch Screen	4-wire resistive type touch
System	CPU	Marvell® PXA 310 624MHz (Windows Embedded Handheld 6.5) or TI Sitara AM3715 (Android 2.3.4)
	Operating System	Windows® Embedded Handheld 6.5 or Android 2.3.4
	Memory	256MB Flash + 256MB SDRAM
	Storage	microSD Slot
Communication	Wireless LAN	Wi-Fi 802.11 b/g/n
	Bluetooth	Bluetooth 2.1+EDR
	Modem	WCDMA/HSDPA or GPRS
	GPS	GPS w/internal antenna
Data Collection	RFID	13.56 MHz RFID Supports Mifare (ISO 14443A) Felica (ISO 14443B) and ISO 15693
	UHF (optional)	EPC Global Class1 Gen2 support ISO/IEC 18000-6 Type C and at least 3m reading distance
	Barcode	1D/2D Image Scan Engine
	Camera	3 megapixels CMOS Camera with LED Flash Light
Indicators & Buttons	LED Indicators	Wi-Fi enable / disable LED (Green) 3.5G or 2.5G enable / disable LED (Green) Charging Status / Full LED (Orange / Green)
	Hot Keys	2 x Barcode Key/ 1 x Camera Key
I/O Interface	Audio	1 x Headset and 1 x Speaker
	Expansion	1 x Mini USB Client 2.0 16-Pin connector (RS-232/ Battery Charging/ USB Host / USB Client)
Power	Power input	Input: 100V AC to 240V AC ~ 50-60Hz 0.2A Output: 5V / 2.1A
	Battery	3.7V 3000 mAh battery
Environment	Operating Temperature	-10°C~50°C
	Storage Temperature	-20°C~60°C
	Humidity	5%~90% non-condensing
	Drop Survival	1.5M
	Environmental Protection	IP 54
	Certification	CE / FCC
Physical Characteristics	Dimensions (LxWxH) (mm)	218.5 x 81 x 46.2
	Weight	405g



Optional Accessory List

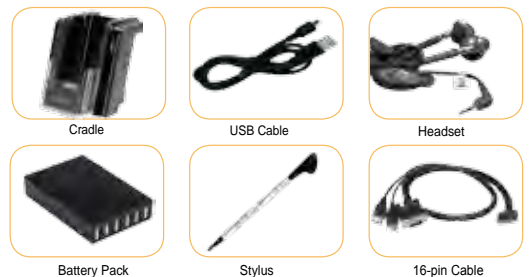
Item	Part No.	Description
Cradle	MODAT-300-CR01-R10	Charging cradle with USB Client
Battery Pack	31603-000017-RS	3.7V 3000 mAh Battery
16-pin Cable	32024-001500-100-RS	Connect to USB Host, USB Client and RS-232
Handle Grip	MODAT-335-GRIP-R10	Removable handle grip can trigger 1D/2D barcode
UHF Reader	MODAT-335-UHF-R10	Ultra high frequency (UHF) reader with 3000 mAh battery.

Ordering Information

Part No.	Description
Windows® Embedded Handheld 6.5 Operating System	
MODAT-335-WB65-En	3.5" TFT-LCD, Enterprise PDA with Marvell® PXA 310 624MHz CPU, 802.11 b/g Wireless, Bluetooth, HSDPA, GPS, 1D/2D Barcode Scanner, RFID, 3M Pixels Camera, Windows® Embedded Handheld 6.5 OS, RoHS
MODAT-335-GPRS-WB65-En	3.5" TFT-LCD, Enterprise PDA with Marvell® PXA 310 624MHz CPU, 802.11 b/g Wireless, Bluetooth, GPRS/GSM, GPS, 1D Barcode Scanner, RFID, 3M Pixels Camera, Windows® Embedded Handheld 6.5 OS, RoHS
MODAT-335-1D-WB65-En	3.5" TFT-LCD, Enterprise PDA with Marvell® PXA 310 624MHz CPU, 802.11 b/g Wireless, Bluetooth, 1D Barcode Scanner, 3M Pixels Camera, Windows® Embedded Handheld 6.5 OS, RoHS
Android 2.3.4 Operating System	
MODAT-335-AD23-En	3.5" TFT-LCD, Enterprise PDA with TI Sitara AM3715 CPU, 802.11 b/g Wireless, Bluetooth, HSDPA, GPS, 1D/2D Barcode Scanner, RFID, 3M Pixels Camera, Android 2.3.4 OS, RoHS
MODAT-335-1D-AD23-En	3.5" TFT-LCD, Enterprise PDA with TI Sitara AM3715 CPU, 802.11 b/g Wireless, Bluetooth, 1D Barcode Scanner, 3M Pixels Camera, Android 2.3.4 OS, RoHS

Packing List

Item	Part No.	Q'ty
Battery Pack	31603-000017-RS	1
USB Cable	32001-000301-100-RS	1
AC-DC Adapter	63040-330010-000-RS	1
Headset	30900-000001-RS	1
Stylus	7Z000-43150003C000RS-RS	1
Belt Clip Case	7Z000-MODAT-335POUCH-RS	1



Support Function

Part No.	OS	Wi-Fi	Bluetooth	Modem	GPS	Barcode	RFID	Camera
MODAT-335-WB65-En	Windows Embedded Handheld 6.5	802.11 b/g/n	Bluetooth 2.1+EDR	WCDMA/HSDPA	GPS w/internal antenna	1D/2D Image Scan Engine	Supports Mifare (ISO 14443A) Felica (ISO 14443B) and ISO 15693 and 14443A/B compliant	3M Pixels
MODAT-335-GPRS-WB65-En		802.11 b/g/n	Bluetooth 2.1+EDR	GPRS/GSM	GPS w/internal antenna	1D Laser Scan Engine	13.56 MHz RFID support ISO 15693 and 14443A/B compliant	3M Pixels
MODAT-335-1D-WB65-En		802.11 b/g/n	Bluetooth 2.1+EDR	N/A	N/A	1D Laser Scan Engine	N/A	3M Pixels
MODAT-335-AD23-En	Android 2.3.4	802.11 b/g/n	Bluetooth 2.1+EDR	WCDMA/HSDPA	GPS w/internal antenna	1D/2D Image Scan Engine	Supports Mifare (ISO 14443A) Felica (ISO 14443B) and ISO 15693 and 14443A/B compliant	3M Pixels
MODAT-335-1D-AD23-En		802.11 b/g/n	Bluetooth 2.1+EDR	N/A	N/A	1D Laser Scan Engine	N/A	3M Pixels

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Optional Peripherals



iE Mobile®
 Data capture
 Data transmission
 Data storage

Automotive PC



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Automotive PC

Carputer

Combining with more than one decade of in-vehicle computing device ODM experiences and innovative design concepts, IEIMobile provides applicable in-vehicle computing solutions in all aspects.

Carputer is the predominant term used to describe a category of mobile computer designed or modified to specifically be installed and run in automobiles. Originally many do-it-your-selves have built carputers from laptops and small form factor computers based on industrial personal computer technology and connected with several external peripherals such as GPS receiver, GPRS modem, vehicle power supply, and On-Board Diagnostics (OBD-II) converter.

Now mobile technology and new IT solution causes the creation of more advanced carputers that integrate all these peripherals in one single device to become more compact, rugged, applicable, and survivable in vehicle environment. The popularity of carputer also brings the booming of carputer providers to come out with different product alias like Car-PC, vehicle PC, vehicle computer, in-vehicle computer, auto PC, car computer, or vehicle-mounted computer.

In-Vehicle Infotainment (IVI)

The growing needs to access information in remote, mobile environments have sparked interests in so-called In-Vehicle Telematics Systems (IVTS). These relatively new systems have the potential to deliver computing facilitates to road vehicles, which may include in-vehicle infotainment, route-guidance and navigation and the provision of vital information resources used by fleet haulage companies and emergency services (police, fire and ambulance).

In-Vehicle Infotainment (IVI) systems are devices that deliver navigation, entertainment, and networked computing services in vehicles, such as cars, trucks, planes, and buses. Automotive manufacturers in particular are increasingly viewing IVI systems as a key differentiator in their products. Drivers and passengers are coming to expect the same type of innovations they see in other devices, such as mobile computers and handsets, in their vehicles. As vehicles become connected to the internet, the demand for internet-based entertainment applications and services increases and IEIMobile strives to accelerate the pace of innovation in IVI.

Location-Based Service (LBS)

A location-based service (LBS) is an information and entertainment service, accessible with mobile devices through the mobile network and utilizing the ability to make use of the geographical position of the mobile device. These emerging growing markets of LBS require mobile devices, wireless service and GPS satellite signals to be available and operating for features to function properly.

Mobile messaging plays an essential role in LBS. Messaging, especially SMS, has been used in combination with various LBS applications, such as location-based mobile advertising. SMS is still the main technology carrying mobile advertising / marketing campaigns to mobile devices. A classic example of LBS applications using SMS is the delivery of mobile coupons or discounts to mobile subscribers who are near the advertising restaurants, cafes, movie theatres.

IEIMobile is dedicated to provide industrial mobile electronics devices along with turnkey software solutions to leverage LBS providers and operators to focus on their application and business developments.

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Optional Peripherals

Emerging LBS

- Fleet Management System
- Remote Real-time Diagnostics
- In-vehicle safety, security and communication service

IEIMobile®
LBS Applications



Assisted Turn-by-turn Navigation	Emergency Services	Locating Parking Facilities
Locating Nearby Gas Stations	Local Weather Notifications	Traffic Jam Alerts
Local Area Discount Information	Remote Real-time Diagnostics	Local Business Directory Search

More LBS Examples

- Locating people and vehicle on a map displayed on the mobile device
- Finding someone or something. Person by skill (doctor), business directory, navigation, weather, traffic, room schedules, stolen phone, emergency calls
- Location-based mobile advertising
- Proximity-based notification (push or pull). Targeted advertising, buddy list, common profile matching (dating), automatic airport check-in, and payment based upon proximity (EZ pass, toll watch)
- Turn by turn navigation to any address
- Receiving alerts, such as on sale notification or traffic jam alert
- Requesting the nearest business or service, such as an ATM or a restaurant
- Asset recovery combined with active RF to find, for example, stolen vehicles or assets in containers
- GPS data for operators to dispatch emergency personnel to the correct location
- Resource tracking with dynamic distribution. Taxis, service people, rental equipment, doctors, fleet scheduling

On-Board Diagnostics (OBD-II)

- On-Board Diagnostics, or OBD, in an automotive context, is a generic term referring to a vehicle's self-diagnostic and reporting capability. OBD systems give the vehicle owner or a repair technician access to state-of-health information for various vehicle sub-systems.
- OBD-II is a standard that specifies the type of diagnostic connector and its pin-out, the electrical signaling protocols available, and the messaging format.
- Almost all of the automobiles produced today are required, by law, to provide an interface for connecting a diagnostic test equipment.



Pin	Description
1	Manufacturer discretion. GM: J2411 GMLAN/SWC/Single-Wire CAN.
2	Bus positive Line of SAE-J1850 PWM and SAE-1850 VPW
3	Ford DCL(+) Argentina, Brazil (pre OBD-II) 1997-2000, Usa, Europe, etc. Chrysler CCD Bus(+)
4	Chassis ground
5	Signal ground
6	CAN high (ISO 15765-4 and SAE-J2284)
7	K line of ISO 9141-2 and ISO 14230-4
8	-
9	-
10	Bus negative Line of SAE-J1850 PWM only (not SAE-1850 VPW)
11	Ford DCL(-) Argentina, Brazil (pre OBD-II) 1997-2000, Usa, Europe, etc. Chrysler CCD Bus(-)
12	-
13	-
14	CAN low (ISO 15765-4 and SAE-J2284)
15	L line of ISO 9141-2 and ISO 14230-4
16	Battery voltage

There are five signalling protocols currently in use with the OBD-II interface. Any given vehicle will likely only implement one of the protocols.

- SAE J1850 PWM (pulse-width modulation - 41.6 kB/sec, standard of the Ford Motor Company)
- SAE J1850 VPW (variable pulse width - 10.4/41.6 kB/sec, standard of General Motors)
- ISO 9141-2. K-line and L-line. This protocol has an asynchronous serial data rate of 10.4 kbaud. It is primarily used in Chrysler, European, and Asian vehicles.
- ISO 14230 KWP2000 (Keyword Protocol 2000)
- ISO 15765 CAN (250 kbit/s or 500 kbit/s). The CAN protocol is a popular standard outside of the US automotive industry and is making significant in-roads into the OBD-II market share. By 2008, all vehicles sold in the US will be required to implement CAN, thus eliminating the ambiguity of the existing five signalling protocols.

OBD-II provides access to numerous data from the engine control unit (ECU) and offers a valuable source of information when troubleshooting problems inside a vehicle. The SAE J1979 standard defines a method for requesting various diagnostic data and a list of standard parameters that might be available from the ECU. Following is a list of vehicle diagnostic information you can read from OBD-II. It also shows a sample screen shot from IEIMobile Automotive PC.

- Vehicle speed
- Engine RPM
- Total fuel used (litre since life time)
- High resolution vehicle distance
- Engine coolant temperature
- Vehicle ambient temperature
- Tachograph information
- Total engine hours (h)
- Fuel level (0–100 %)
- Fuel pressure
- Fuel system status
- DTC (Diagnostic Trouble Code)
- Calculated engine load
- Intake air temperature
- Throttle position
- Accelerator pedal position (0–100 %)
- Axle weight (kg)
- Oxygen sensors and status
- Clutch switch (on/off)
- Brake switch (on/off)
- Cruise control (on/off)
- PTO (Status/Mode)



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Optional Peripherals

OBD-II Applications

Hand-held or PC-based scan tools

- Read simple error codes, possibly without translating the meaning, and reset those error codes
- Access more advanced diagnostics
- Set manufacturer- or vehicle-specific ECU parameters
- Access and control other control units, such as air bag or ABS
- Real-time monitoring or graphing of engine parameters to facilitate diagnosis or tuning

In-Vehicle data logger

- Capture vehicle data while the vehicle is in normal operation, for later analysis
- Engine and vehicle monitoring under normal operation, for the purpose of diagnosis or tuning
- Auto insurance risk selection. Auto insurance companies offer reduced premiums if OBD-II vehicle data loggers or cameras are installed, and if the driver's behaviour meets requirements

Fleet management and remote real-time diagnostics

- Monitoring of driver behaviour by fleet vehicle operators
- Real-time vehicle fault alarm and alert
- Enhanced automatic vehicle maintenance



Auto Service



Car Racing



Rental & Insurance



Fleet Management

SAE J1939 Applications (Support by project basis)

SAE J1939 has been adopted widely by diesel engines. Applications of J1939 now include off-highway, truck, bus, and even some passenger car applications. All J1939 packets contain eight bytes of data and a standard header which contains an index called PGN (Parameter Group Number). J1939 defines standard PGNs to encompass a wide range of automotive, agricultural, construction, marine and off-road vehicle purposes. IEIMobile supports J1939 on a by project basis.



Off-Road



Marine



Construction



Bus & Truck



Diesel Engine



Agricultural

IEIMobile In-Vehicle Computing Devices Provide Full OBD-II Support

Bundled OBD-II Connector or Cable



Complete Software Development Kits (SDK)

- Software Library provides easy-to-use Application Programming Interfaces (API's) for application software programming
- Demo source code for reference
- Support SAE J1979 standard to access OBD-II data and code
- Complete user manual for programming



Pre-installed firmware supports all the most popular in-vehicle bus standards and protocols

- The protocol firmware automatically scans the vehicle bus to check and confirm what protocol its connected vehicle supports
- The protocol firmware acts as a converter between vehicle bus and user application software
- User application software sends requests to the protocol firmware to access vehicle bus data

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Fleet Management System (FMS)

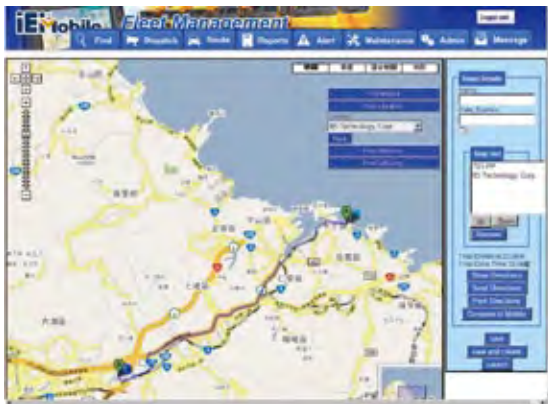
Fleet management can include a range of functions, such as vehicle financing, vehicle maintenance, vehicle telematics (tracking and diagnostics), driver management, fuel management and health & safety management. It can remove or minimize the risks associated with vehicle investment, improving efficiency, productivity and reducing their overall transportation costs. A main function of the fleet management software is to gather, store, process, monitor, report on and export information. The most basic function in all fleet management systems is the vehicle tracking component which is usually GPS based.

IEI FMS Architecture

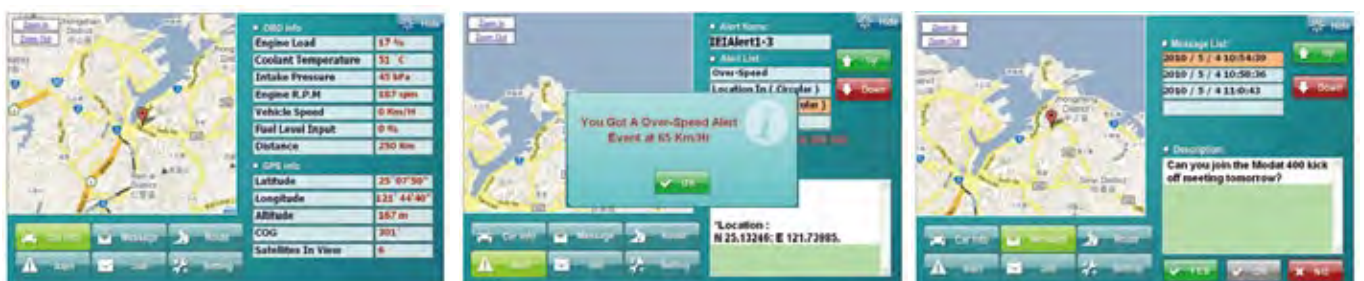
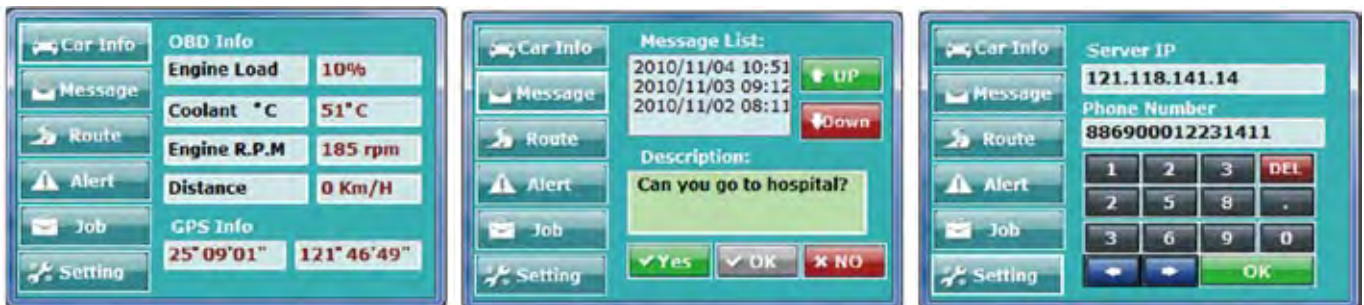
IEIMobile in-vehicle computing solutions provides free fleet management software demo, the IEI FMS. This software is based on client/server architecture. The server-side software is contained in the bundled CD to be installed in Windows® desktop PC. The client-side software is pre-installed in each IEIMobile in-vehicle computing device. IEI FMS demonstrates most basic function of fleet management software such as to gather, store, process, monitor, report on and export information.



Server-side Screen Shot



Client-side Screen Shot



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Automotive PC New



Model		iKarPC	iKarPC-Lite	VTT-1000	VTT-1000-WiFi	AVL-2000	AVL-3000
Display	LCD Size	8" TFT-LCD (Sunlight readable)	7" TFT-LCD	3.5" TFT-LCD	3.5" TFT-LCD	N/A	N/A
	Brightness (cd/m²)	600 cd/m² High Brightness	500 cd/m² High Brightness	450 cd/m²	450 cd/m²	N/A	N/A
	Max Resolution	800 x 480 pixels WVGA	800 x 480 pixels WVGA	320 x 240 pixels QVGA	320 x 240 pixels QVGA	N/A	N/A
	Viewing Angle	60/60/50/50 Deg.	60/70/70/70 Deg.	50/55/60/60 Deg.	50/55/60/60 Deg.	N/A	N/A
	Touch Screen	5-wire Resistive Type Touch	5-wire Projective Capacitive Type Touch	4-wire Resistive Type Touch	4-wire Resistive Type Touch	N/A	N/A
System	CPU	Intel® Atom™ Z510 1.1GHz	TI ARM Cortex-A8 AM3715 1GHz	Samsung S3C2416 ARM9 400 MHz	Samsung S3C2416 ARM9 400 MHz	Intel® Atom™ Z510 1.1GHz	Intel® Atom™ N2600 1.6GHz
	Chipset	Intel® US15WP	N/A	N/A	N/A	Intel® US15WP	Intel® NM10
	Operating System	Microsoft® Windows XP Embedded	Android 2.3.4	Microsoft® Windows CE 6.0	Microsoft® Windows CE 6.0	Microsoft® Windows XP Embedded	Windows Embedded Standard 7 E
	Memory	1GB DDR2 533 MHz on board	4GB INAND Flash and 512MB DDR SDRAM on board	128MB DDR2 133MHz on board	128MB DDR2 133MHz on board	1GB DDR2 533MHz on board	2GB DDR3 on board
	Storage	4GB CompactFlash® SD Card Slot	Built-in SD Card Slot (support SD 2.0, max 32GB)	256MB NAND FLASH microSD Card Slot	256MB NAND FLASH microSD Card Slot	4GB CompactFlash® SD Card Slot	1 x Built-in 16GB SATA SSD 1 x SDXC Slot for data storage
Communication	Wireless LAN	Wi-Fi 802.11 b/g/n	Wi-Fi 802.11 b/g/n	N/A	Wi-Fi 802.11 b/g	Wi-Fi 802.11 b/g/n	Wi-Fi 802.11 b/g/n
	Bluetooth	Bluetooth 2.1+ EDR (Class I)	Bluetooth 2.1+ EDR (Class I)	N/A	N/A	N/A	Bluetooth V2.0+EDR (Class I)
	Data Rate	WCDMA/HSUPA	WCDMA/HSDPA or GPRS	GSM/GPRS	N/A	WCDMA/HSUPA	WCDMA/HSUPA
	GPS	GPS w/ Internal Antenna	GPS w/ External Antenna	GPS w/ Internal / External Antenna	GPS w/ Internal / External Antenna	GPS w/ Internal Antenna	GPS
Multimedia	Audio	1 x Line-in 1 x Line-out 1 x 3W Speaker	1 x Audio out (R+L) (3-pin) 1 x Mic-in (3-pin)	1 x Line-out 1 x 1.5W Speaker	1 x Line-out 1 x 1.5W Speaker	1 x Line-in 1 x Line-out	1 x Mic-in 1 x Line-out
Data Collection	RFID	N/A	13.56MHz ISO14443A/B	N/A	N/A	ISO 18000-6C UHF RFID (optional)	ISO 18000-6C UHF RFID (optional)
	Video Capturing	N/A	N/A	N/A	N/A	Video Input : 4 channels composite video (NTSC/PAL/SECAM)	Video Input : 4 channels composite video (NTSC/PAL/SECAM)
	Camera	0.3 Megapixels CMOS Camera	3 Megapixels CMOS Camera	N/A	N/A	N/A	N/A
LED Indicators & Buttons	Indicators	Wi-Fi/Bluetooth/HDD/3.75G/DVB-T/Power Status LED	3.5G/Wi-Fi/BT/Power Status LED	Power/GPS/2.5G Status LED	Power/GPS/2.5G Status LED	UHF/Wi-Fi/Bluetooth/422/485/HDD/3.75G/BAT/Power Status LED	1 x Power LED
	Hot Keys & Buttons	F1-F6 Function Key, Navigation Key, Power Button	4 x Function key	7 x Programmeable Keys , Power Button, Reset Button	7 x Programmeable Keys , Power Button, Reset Button	Power Button	Power Button
I/O Interface	USB	2 x USB 2.0 Full Speed	2 x USB 2.0 Full Speed	1 x Mini USB 1.1	1 x Mini USB 1.1	2 x USB 2.0 Full Speed	4 x USB 2.0
	Serial	1 x DB-9 OBD-II 1 x DB-9 RS-232/422/485 (Software selectable w/ 5V DC) 5V DC	1 x OBD-II (7-pin) 1 x USB (4-pin) 1 x RS-232 (9-pin)	1 x OBD-II 1 x RS-232	1 x OBD-II 1 x RS-232	1 x DB-9 OBD-II 1 x DB-9 RS-232/422/485	1 x OBD-II 6 x COM port: DB-9 (COM1), RS-422/485 (COM4, 4-pin), DB-37 (COM7~COM10)
	LAN	1 x 10/100/1000 Mbps GbE RJ-45	1 x 10/100/1000 Mbps GbE (4-pin)	N/A	N/A	1 x 10/100/1000 Mbps GbE RJ-45	1 x 10/100/1000 Mbps GbE RJ-45
	VGA	N/A	N/A	N/A	N/A	1 x VGA	1 x VGA supports up to 1920x1200
	CAN	N/A	1 x CAN-bus 2.0B (2-pin)	N/A	1 x CAN-bus 2.0B	1 x CAN-bus	N/A
	Remote Control	Yes	N/A	N/A	N/A	N/A	N/A
	Digital I/O	N/A	2 Input (3-pin) / 2 Output (3-pin)	2 Input / 2 Output	2 Input / 2 Output	4 Input / 4 Output	4 Input / 4 Output
	RJ-12	N/A	N/A	N/A	N/A	N/A	1 X RJ11 3.5G Voice
Power	HDMI	N/A	N/A	N/A	N/A	N/A	1 x HDMI
	Cigarette Lighter Power	Cigarette Lighter Power Cable DC 9~30V	Cigarette Lighter Power Cable DC 9~36V	Cigarette Lighter Power Cable DC 9~30V	Cigarette Lighter Power Cable DC 9~30V	Cigarette Lighter Power Cable DC 9~30V	Cigarette Lighter Power Cable
ACC Power	ACC power on/off mode with software configurable delay time	ACC power on/off mode with software configurable delay time	N/A	N/A	ACC power on/off mode with software configurable delay time	ACC power on/off mode with software configurable delay time	
Environment	Operating Temperature	-20°C to +60°C	-20°C to +60°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
	Storage Temperature	-30°C to +70°C	-30°C to +70°C	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C
	Humidity	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing
	Drop Survival	1M	1M	1M	1M	N/A	N/A
	Environmental Protection	IP 54 compliant front panel (Water,dust and splash resistant)	IP 54 compliant front panel (Water, dust and splash resistant)	IP 54 compliant front panel (Water, dust and splash resistant)	IP 54 compliant front panel (Water, dust and splash resistant)	N/A	N/A
	Certifications	CE/FCC/e-MARK/ISO7637	CE/FCC/e-MARK/ISO7637	CE/FCC/e-MARK/ISO7637	CE/FCC/e-MARK/ISO7637	CE/FCC/e-MARK/ISO7637	CE/FCC/e-MARK/ISO7637
Physical Characteristics	Dimensions (LxWxH) (mm)	261 x 162 x 44	210 x 154 x 28	128 x 89 x 32	128 x 89 x 32	200 x 155 x 70	200 x 150 x 76
	Net Weight	1.7kg	0.8kg	0.17kg	0.17kg	1.9kg	2.0kg

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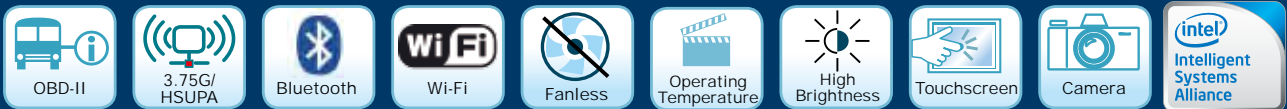
5

Optional Peripherals

iKarPC

Vehicle Computer Series

- 8" TFT sunlight readable LCD touch screen
- Intel® Atom™ Z510 1.1 GHz processor
- Pre-installed Windows® XP Embedded
- Built-in HSUPA/GPRS/GSM, Wi-Fi and Bluetooth
- Built-in 32-channel GPS Receiver
- Supports On-Board Diagnostics (OBD)



Diverse Connectivity



WWAN 2.5G/3.5G/3.75G

- Efficient mobile connectivity for GPS map download and high quality video/audio stream.
- Supports WCDMA/CDMA2000/TD-SCDMA

Supported Bands

- HSUPA/HSPA/UMTS-800/850/900/1900/2100 MHz
- Quad-band EDGE/GPRS/GSM-850/900/1800/1900 MHz
- Dual-band EV-DO/CDMA



GPS

Travel navigation, real-time locating and path tracking.

- 32-channel engine
- TTFF (Time to First Fix) < 1 sec for hot and aided starts
- -160dBm SuperSense sensitivity
- A-GPS service by accessing to assistance ephemeris data server via internet or mobile connectivity



Bluetooth V2.0 + EDR Class 1

Efficient mobile connectivity for GPS map download and high quality video/audio stream.



802.11b/g/n Wi-Fi

Best for near field data synchronization or ad-hoc communication when vehicle park in parking space or dock.

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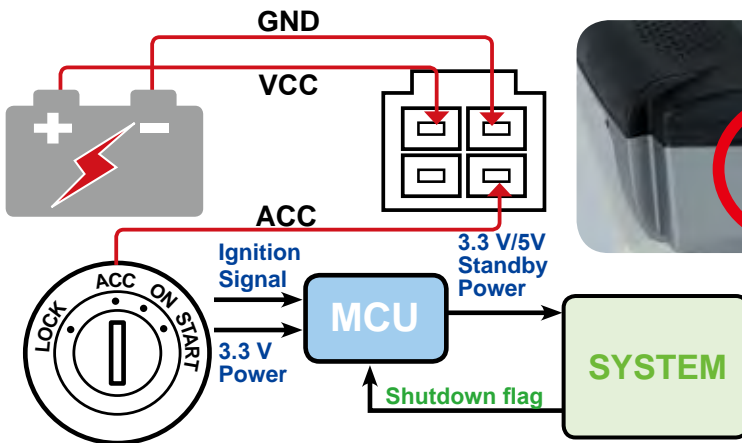
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Optional Peripherals

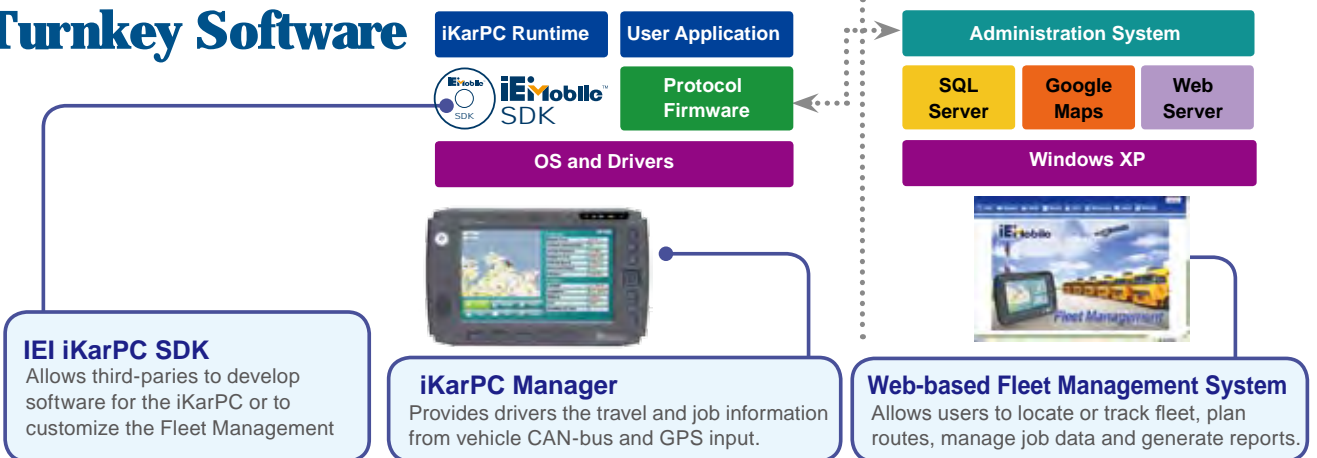


Vehicle Power Management



- The special MCU enables system to automatically reboot or shutdown based on the adjustable delay time by detecting ACC status.
- Surge protection and low power consumption hardware design

Turnkey Software



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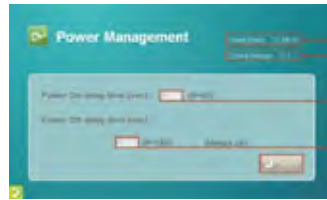
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Optional Peripherals



Setting

Use the Setting page to adjust the setting of audio volume, LCD brightness, power on/off delay time, embedded module and function keys.



Power Management

When the vehicle ignition switch is turned to ACC or ON state, the iKarPC will automatically turn on/off after a certain time delay.



Module On/Off

Use the Module On/Off page to enable or disable the embedded modules, including Bluetooth, Wi-Fi, DVB-T, 3.75G connection and webcam.

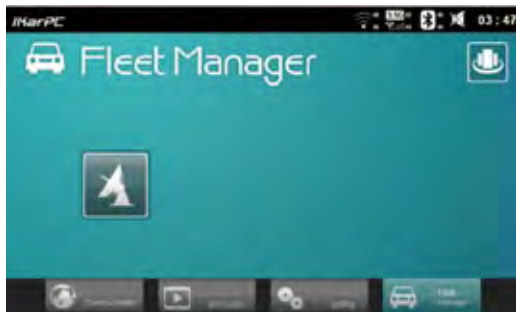


Programmable Function Key

The iKarPC provides SDK for customers to define and program their own Function Keys.

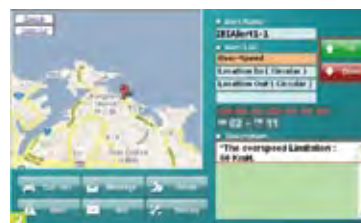
Fleet Management Software

The Fleet Management is an advanced, end-to-end, web-based software for data collection and communication. It combines all the information from CAN-bus and GPS input in one easy-to-navigate interface. Pre-installed in the iKarPC, it is integrated with OBD-II diagnose tool to provide a comprehensive remote performance monitoring envelope for vehicles.



Car Information

Show the vehicle information gathered through the OBD cable to the iKarPC and display the GPS information.



Alert

Click the Alert button to view the alerts from the management center.



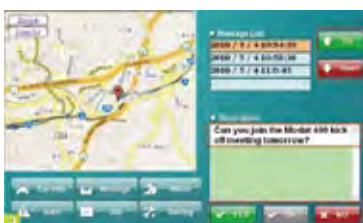
Route

View the route plan from the back-end management center. Click the Map button to bring up the map of the route plan.



Job

Click the Job button to view the Job assignment from the management center.



Message

Show the messages from the back-end management center. Use up and down buttons or click a message from the message list to view the message.



Setting

Use the Setting page to input the server IP address of the back-end management center to the iKarPC. The unique number of SIM card is used as the identification number of the iKarPC.

One Key Recovery

Without having to go through complicated settings, IEI One Key Recovery uses exclusive technology to recover and backup your system with just one click.

Recover the system from

- Severe virus attack
- Operating system crash
- Man-made disasters



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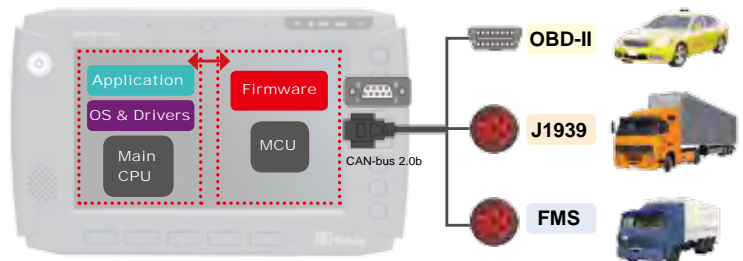
Vehicle Bus Protocol (OBD-II)

A vehicle bus protocol is a specialized internal communications network that interconnects components inside a vehicle. It also provides interface for users to acquire vehicle data for diagnostic or cruise information such as vehicle speed, engine loading, engine R.P.M and fuel level. OBD-II supports more than 79 kinds of vehicle information.



Physical Connection Interface

The vehicle bus connection is mostly based on CAN-bus 2.0b signaling via a specific connection interface. For example, OBD-II defines the J1962 female 16-pin (2x8) connector as its physical interface while J1939 defines the 9-pin round connector.



On-Board Diagnostics (OBD-II)

OBD-II is a standard that specifies the type of diagnostic connector and its pin-out, the electrical signaling protocols available, and the messaging format. There are five signalling protocols currently in use with the OBD-II interface. Any given vehicle will likely only implement one of the protocols. The iKarPC supports ISO 15765 CAN (250 kBit/s or 500 kBit/s). The CAN protocol is a popular standard outside of the US automotive industry and is making significant in-roads into the OBD-II market share. By 2008, all vehicles sold in the US are required to implement CAN, thus eliminating the ambiguity of the existing five signaling protocols. The CAN signals are via pin-6 and pin-14 of the OBD-II connector.



Pin	Description
1	-
2	Bus positive Line of SAE-J1850 PWM and SAE-1850 VPW
3	-
4	-
5	-
6	CAN high (ISO 15765-4 and SAE-J2284)
7	K line of ISO 9141-2 and ISO 14230-4
8	-
9	-
10	Bus negative Line of SAE-J1850 PWM only (not SAE-1850 VPW)
11	-
12	-
13	-
14	CAN low (ISO 15765-4 and SAE-J2284)
15	L line of ISO 9141-2 and ISO 14230-4
16	-

OBD-II/J1939/FMS Vehicle Bus Protocol

The vehicle bus protocol deals with special request for data transmission reliability and quality on vehicle bus. The MCU inside the iKarPC acts as a converter among these protocols. The OBD-II is mostly for small car diagnostics while the SAE J1939 is implemented for off-road vehicles with diesel engines and the FMS is for commercial trucks or buses. As a standard offering, IEIMobile supports OBD-II protocol. Other protocols such as FMS and J1939 are supported on a optional by project basis.

SAE J1939 (Sport by project basis)

- SAE J1939 has been adopted widely by diesel engines. Applications of J1939 now include off-highway, truck, bus, and even some passenger car applications.
- SAE J1939 defines five layers in the 7-layer OSI network model, and this includes the CAN 2.0b specification (using only the 29-bit/"extended" identifier) for the physical and data-link layers. The session and presentation layers are not part of the specification.
- All J1939 packets contain eight bytes of data and a standard header which contains an index called PGN (Parameter Group Number). J1939 defines standard PGNs to encompass a wide range of automotive, agricultural, construction, marine and off-road vehicle purposes.



Applications

IPCAM Applications

IP camera is a type of digital video camera commonly employed for surveillance. Unlike analog closed-circuit television (CCTV) cameras, it can send and receive data via a computer network and the Internet.



OBD-II Applications



Auto Service



Car Racing



Rental & Insurance



Fleet Management

SAE J1939 Applications (Support by Project)



Off-Road



Marine



Construction



Bus & Truck



Diesel Engine



Agricultural

Certification

Vibration Test

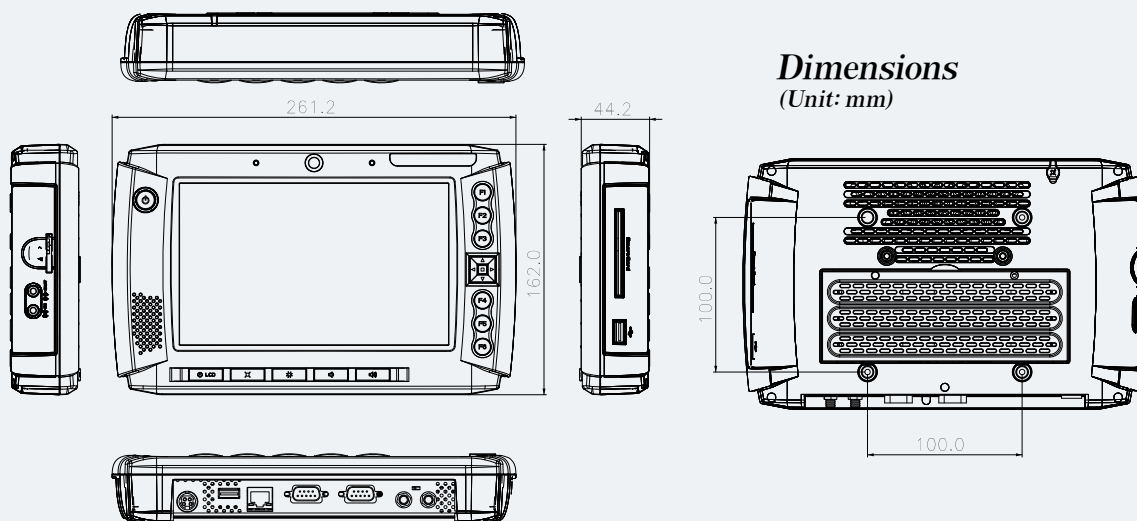
Follow MIL-STD-810F 514.5C-1

	Operating Random Vibration Mode	Non-Operating Sine Mode
Rules	(MIL-STD-810F 514.5C-1) Axis: 3 axes / Vertical / Transverse / Longitudinal. 10-500 Hz, 60min/axis	IEC-60068-2-06 Axis: 3 axes / Vertical / Transverse / Longitudinal .2. 0.4in. p-p, 10-55Hz

Shock Test

Reference IEC68-2-27 Testing Procedures

	Operating	Non-Operating
Rules	Operating Shock Half-Sine Wave Shock Acceleration 5 G	Non-Operating Shock Half-Sine Wave Shock Acceleration 15 G



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iE Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACsmate Medical Solutions

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Optional Peripherals

Specifications

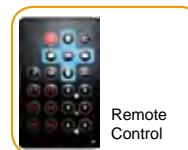
Model	iKarPC	
Display	LCD Size	8" TFT-LCD (Sunlight readable)
	Brightness (cd/m ²)	600 cd/m ² High Brightness
	Max Resolution	800 x 480 pixels WVGA
	Viewing Angle	60/60/50/50 Deg.
	Touch Screen	5-wire resistive type touch
System	CPU	Intel® Atom™ Z510 1.1 GHz
	Chipset	Intel® US15WP
	Operating System	Microsoft® Windows® XP Embedded
	Memory	1 GB DDR2 533 MHz On-board
	Storage	4 GB CompactFlash® SD Card Slot
Communication	Wireless LAN	Wi-Fi 802.11 b/g/n
	Bluetooth	Bluetooth V2.0+ EDR (Class 1)
	Modem	WCDMA/HSUPA
	GPS	GPS
Multimedia	Audio	1 x Line-in 1 x Line-out 1 x 3 W Speaker
	Camera	0.3 megapixels CMOS Camera
LED Indicators & Buttons	Indicators	Wi-Fi/Bluetooth/HDD/3.75G/DVB-T/Power Status LED
	Hot Key & Buttons	F1~F6 Function Key, Direction Key, Power Button
I/O Interface	USB	2 x USB 2.0
	Serial	1 x DB-9 OBD-II 1 x DB-9 RS-232/422/485 (Software selectable w/ 5V DC)
	LAN	1 x 10/100/1000 Mbps GbE RJ-45
Power	Cigarette Lighter Power	Cigarette Lighter Power Cable DC 9~30V
	ACC Power	Manual power mode and ignition detection supported ACC power on/off mode with software configurable delay time
Environment	Operating Temperature	-20°C ~ +60°C
	Storage Temperature	-30°C ~ +70°C
	Humidity	5%~95% non-condensing
	Drop Survival	1 M
	Environmental Protection	IP54 compliant front panel (Water, dust and splash resistant)
	Certification	CE/FCC/e-Mark/ISO7637
Physical Characteristics	Dimensions (LxWxH) (mm)	261 x 162 x 44
	Net Weight	1.7kg

Ordering Information

Part Number	Description
IKARPC-W08A-510-HU-R12	8.0" TFT-LCD 600 cd/m ² WVGA In Vehicle PC with Intel® Atom™ Z510 1.1GHz CPU, 1GB SDRAM, 802.11 b/g/n Wireless, Bluetooth, HSUPA, OBD-II, Touch screen, 0.3 Megapixel Camera, XPE OS, 4GB CF, RoHS
IKARPC-W08A-510-HW-R12	8.0" TFT-LCD 600 cd/m ² WVGA In Vehicle PC with Intel® Atom™ Z510 1.1GHz CPU, 1GB SDRAM, 802.11 b/g/n Wireless, Bluetooth, HUAWEI HSUPA, OBD-II, Touch screen, 0.3 Megapixel Camera, XPE OS, 4GB CF, RoHS

Packing List

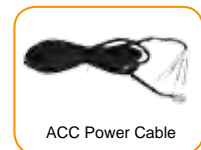
Item	Part Number	Q'ty
Remote Controller	7Z000-8T00322ICP06G-RS	1
GPS/3.75G Integrate Antenna	32506-000100-100-RS	1
ACC Power Cable	32002-001900-100-RS	1
Cigarette Lighter Power Cable	32002-004000-100-RS	1
OBD-II Cable	32025-000300-100-RS	1
J1939 Cable	32025-000400-100-RS	1
User's Manual CD-ROM	IEI-7B000-000544-RS	1
IEI One Key Recovery CD	IEI-7B000-000478-RS	1



Remote Control



OBD-II Cable



ACC Power Cable



GPS / 3.75G Integrate Antenna



Cigarette Lighter Power Cable



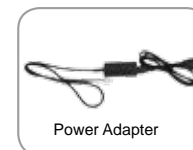
J1939 Cable

Optional Accessory List

Item	Part Number	Description
Power Adapter	IVIPOWER-4PIN-R10	Power Adapter, PFC; Vin:90~264VAC; 60W; Vout: 12VDC; Din 4Pin/lock; CCL; RoHS
Bracket	iKarPC-W08A-MK01-R10	iKarPC 100 x 100 VESA mount kit
Bracket	iKarPC-W08A-MK02-R10	iKarPC ram-mount 100 x 100 VESA mount kit



Ram Mount



Power Adapter



Bracket

Support Function

Part Number	Wireless	Bluetooth	GPS	3.75G	OS
iKarPC-W08A-510-HU-R12	802.11 b/g/n	V2.0+EDR, Class 1	U-blox	Qualcomm	XPE
iKarPC-W08A-510-HW-R12	802.11 b/g/n	V2.0+EDR, Class 1	U-blox	HUAWEI	XPE

1

IEIMobile Solutions

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RISC-based Solutions

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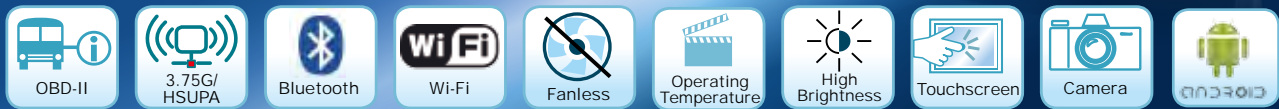
Optional Peripherals

iKarPC Lite **New**



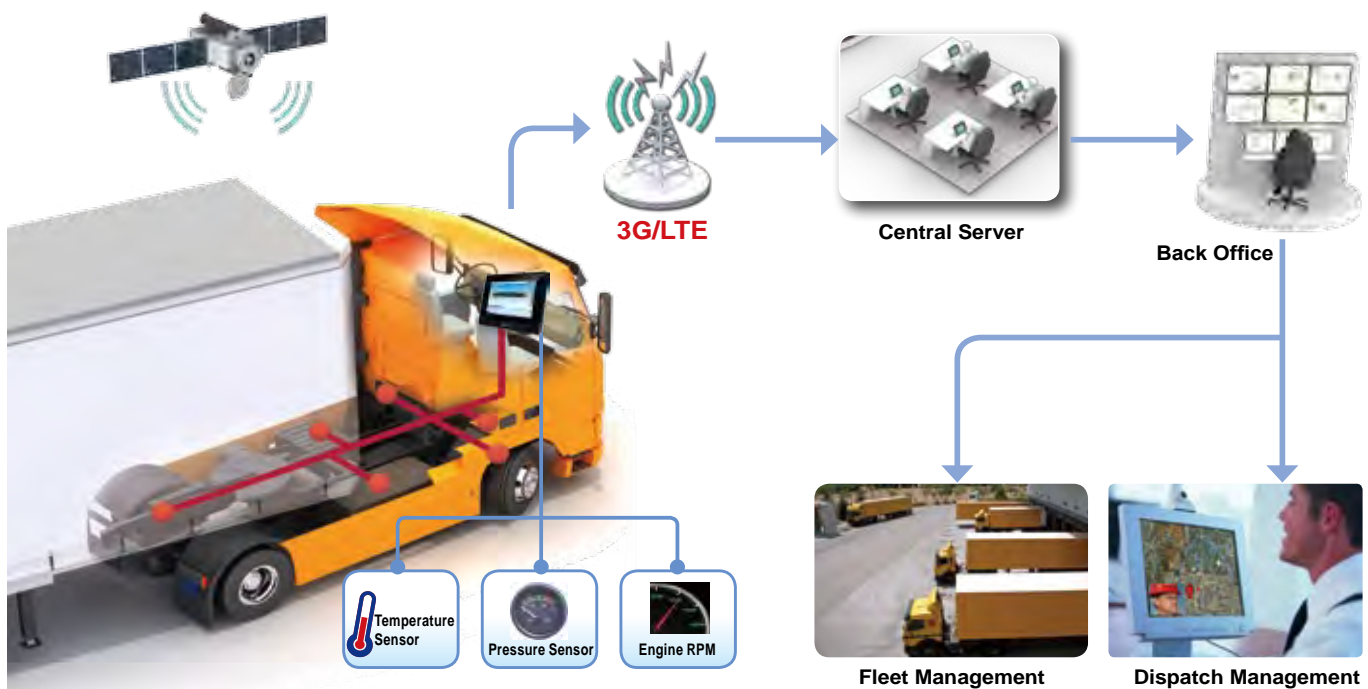
Vehicle Computer Series

- 7" TFT sunlight readable TFT LCD with projective capacitive touchscreen
- TI ARM Cortex-A8 AM3715 1GHz
- Pre-installed Android 2.3.4 Operating System
- Built-in HSUPA/GPRS/GSM, Wi-Fi and Bluetooth
- Built-in GPS receiver
- Supports On-Board Diagnostics: one CAN 2.0B or OBD-II
- On-board RFID with antenna



Applications

IEIMobile's new Android rugged infotainment car PC is pointing to dramatic changes in the field use of mobile devices thanks to the superior touch screen performance and integrated functionality.



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Power Saving and Trendy Platform

TI Cortex-A8 CPU

- TI's Sitara™ family of highly-integrated ARM9™ and ARM Cortex™-A8 microprocessor portfolio offers various combinations of high-performance and low power levels, providing the ability to create an array of products using a common hardware and software platform.
- Reduce system risks and accelerate time to market using standard and comprehensive ARM-based software development tools.
- TI is the largest ARM core licensee supporting all major high-level operating systems such as Android and Windows CE.

Sitara™ offers

Performance

- Up to 450MHz ARM9 to 1.5GHz Cortex-A8 devices
- Industry's first widely available Cortex-A8 devices - 2DMIPS per MHz
- Graphics acceleration up to 27M polygons/s performance for advanced user interface
- High speed DDR2 and DDR3 memory performance

Connectivity

- 10/100/1000 Mbps Ethernet
- CAN 2.0 and high speed USB interface
- Multiple serial port options per device
- **Cost effective** processor with SATA interface
- Flexible LCD controller for up to 720p displays and moving to 1080p in future devices
- Industrial peripheral support

AM3517/05 Cortex™ -A8 based processors

Benefits

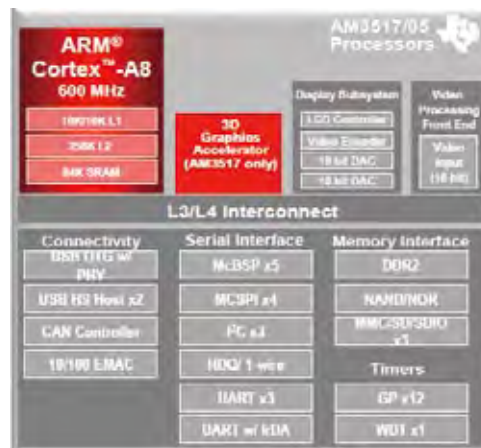
- Support OS such as Linux, Win CE, RTOS
- 10M polygons/second for robust GUIs
- Multi windows overlay for hardware accelerated user

Power

- Total Power: L700mW
- Standby Power: 12mW

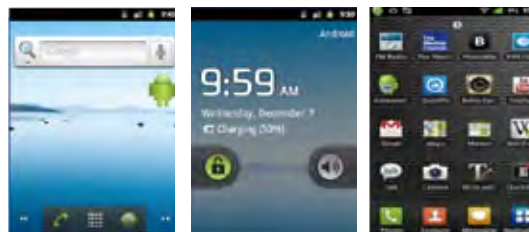
Suggested Applications

- Industrial/Home automation
- Point of service



Android 2.3.4 Operating System

- Android is an operating system for mobile devices such as smartphones and tablet computers. It is developed by the Open Handset Alliance led by Google.
- Android was listed as the best-selling smartphone platform worldwide in Q4 2010 by Canalys with over 200 million Android devices in use by November 2011.
- 2.3 Gingerbread refined the user interface, improved the soft keyboard and copy/paste features, improved gaming performance, added SIP support (VoIP calls), and added support for Near Field Communication.



1

IEIMobile Solutions

Seamless Wireless Communication

The iKarPC-Lite excels on the wireless side. There's 802.11b/g/n WiFi, Bluetooth version 2.1, a vehicle-specific GPS receiver could provide drivers communications capabilities and precisely positioning.

Peripheral Communication



Compliant with the Bluetooth 2.1+EDR specification. This feature ensures easy and quick access to nearby peripherals.

Local-Area Communication



Compliant with the 802.11 b/g/n. This feature allows fast data transfer for near field or ad-hoc data communication.

Wide-Area Mobile Communication



With up to 3.5G wireless technology, outfield workers can maintain and share constant contact with the back office.

Vehicle-specific GPS receiver: Ublox LEA 6 series

High sensitivity, multi GNSS(1)receivers with low power consumption

- Standalone GNSS: no host integration required
- Highest accuracy in urban areas
- Jamming detection and elimination
- Meets demanding automotive requirements



Parameter	Specification	
Receiver type	50 channels GPS L1 frequency, C/A code GALILEO Open Service Capable GLONASS FDMA SBAS: WAAS, EGNOS, MSAS	
Tim-To-First-Fix	Cold Start (W/o Aiding) Warm start (W/o Aiding) Hot Start (W/o Aiding) Aided Start	26s 26s 1s 1s
Sensitivity	Tracking & Navigation Reacquisition Cold Start (W/o Aiding)	-162 dBm -160 dBm -148 dBm

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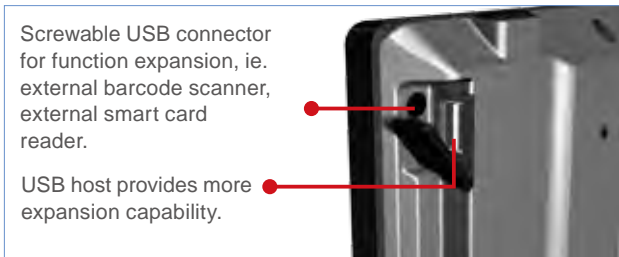
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Optional Peripherals

GNSS New Topic - eCall and ERA-Glonass Systems

- Emergency response systems for road accidents in EU and Russia
- Emergency call generated following an accident using GSM service
 - In-vehicle emergency system (IVS) creates emergency call (voice and data like position and car info) to the nearest Public Safety Answering Point (PSAP)
- Fundamentals of the two systems are the same
 - Main differences are:
 - Positioning technology (GPS or Glonass)
 - SMS allowed as backup in ERA-Glonass system
 - Both systems use 3GPP specified In-Band modem technology to send data and voice on the same channel
 - Expected rollout
 - eCall: 2014
 - ERA-Glonass2013

I/O Expansions



Screwable USB connector for function expansion, i.e. external barcode scanner, external smart card reader.

USB host provides more expansion capability.



Integrated connectors

- 2 x D/I (3-pin)
- 2 x D/O (3-pin)
- 1 x OBD-II (7-pin)
- 2 x CAN2.0B (2-pin)
- USB (4-pin)
- CTS CSI-3584-2010

- Video in x1 (2-pin)
- Ethernet x1 (4-pin)
- RS-232 x1 (9-pin)
- Audio out (R+L) x1 (3-pin)
- Mic in x1 (3-pin)

- SD card slot for extra storage expansion
- SIM card -> easy installation

Ultimate Form Factor- Meet Vehicle Standard



Operating Temperature -20°C ~ 60°C

The system can operate in a wide range of temperatures



Storage Temperature -30°C ~ 70°C

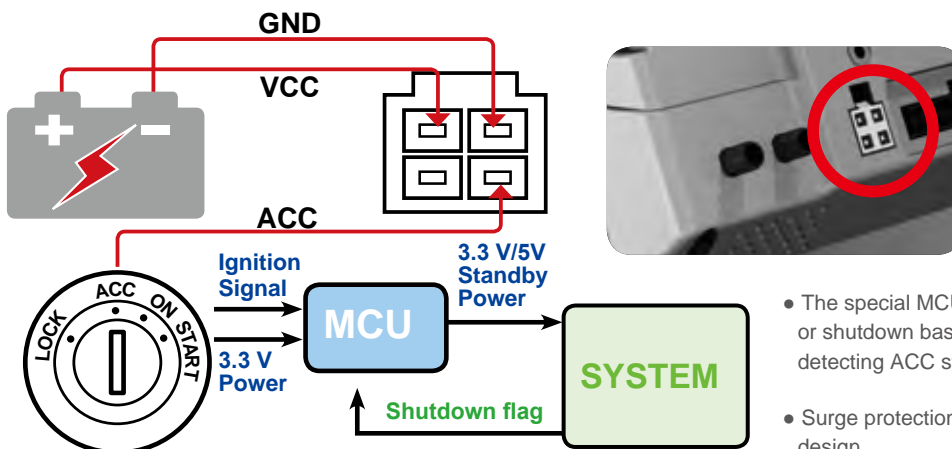
The system can be stored in a wide range of temperatures



IP 54 Rating

Dust tight and protected against water splashed against the component from any direction

Vehicle Power Management



4-pin power connector

- The special MCU enables system to automatically reboot or shutdown based on the adjustable delay time by detecting ACC status.
- Surge protection and low power consumption hardware design

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Specifications

Model		iKarPC-Lite		LED Indicators & Buttons	Indicators	3.5G/Wi-Fi/BT/Power status LED	
Display	LCD Size	7" TFT LCD with LED backlight		I/O Interface	Hot Keys & Buttons	4 x Function keys	
	Brightness (cd/m ²)	500 cd/m ² high brightness			USB	2 x USB 2.0 Full Speed	
	Max Resolution	800 x 480 pixels WVGA			Serial	1 x OBD-II (7-pin) 1 x USB (4-pin) 1 x RS-232 (9-pin)	
	Viewing Angle	60/70/70/70			LAN	1 x 10/100/1000 Mbps GbE (4-pin)	
	Touch Screen	5-wire projective capacitive type			CAN	1 x CAN2.0B (2-pin)	
System	CPU	TI ARM Cortex A8 AM3715 1GHz		Digital I/O	2-bit input (3-pin), 2-bit output (3-pin)		
	Operating System	Android 2.3.4		Power	Cigarette Lighter Power	Cigarette lighter power cable DC 9~36V	
	Memory	4GB iNAND flash and 512 MB DDR SDRAM on board			ACC Power	ACC power on/off mode with software configurable delay time	
	Storage	Built-in SD card slot (supports SD 2.0, max. 32GB)		Environment	Operating Temperature	-20°C to +60°C	
Communication	Wireless LAN	Wi-Fi 802.11 b/g/n			Storage Temperature	-30°C to +70°C	
	Bluetooth	Bluetooth® 2.1+ EDR (Class I)			Humidity	5%~95%, non-condensing	
	Data Rate	WCDMA/HSDPA or GPRS			Drop Survival	1M	
	GPS	GPS w/ external antenna			Environmental Protection	IP 54 compliant front panel (water, dust and splash resistant)	
Multimedia	Audio	1 x Audio out (R+L) (3-pin) 1 x Mic-in (3-pin)		Certifications	CE/FCC/e-MARK/ISO7637		
	Data Collection	RFID	13.56MHz ISO14443 A/B Read-Write Capable ISO14443A (Mifare) ISO14443B (Felica)		Physical Characteristics	Dimensions (LxWxH) (mm)	210 x 154 x 28
Camera		2 Megapixels CMOS Camera		Net Weight		0.8kg	

Ordering Information

Part Number	Description
IKARPC-07A-A8-R10	7" 500 cd/m ² In-Vehicle Panel PC with TI Cortex-A8 AM3715 Processor, 1GHz, 4GB iNAND flash, 512 MB DDR SDRAM, OBD-II, HSUPA, GPS, Wi-Fi b/g/n, BT 2.1, 2 Megapixels Camera, RoHS

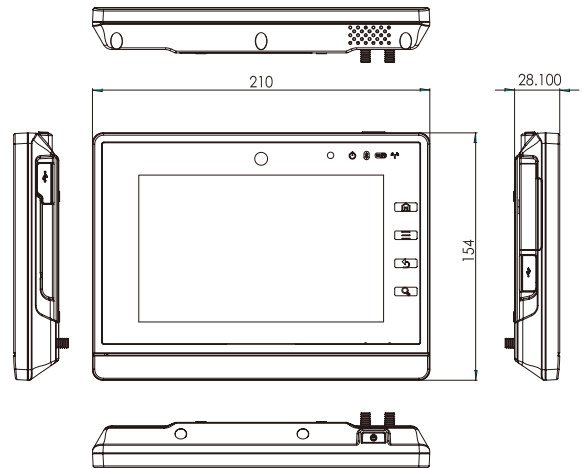
Packing List

Item	Part Number	Q'ty
IKARPC-Lite	IKARPC-07A-A8-R10	1
3.75G+GPS Antenna	32503-000100-100-RS	1
ACC Power Cable	32002-000901-100-RS	1
Cigarette Lighter Power Cable	32002-001700-100-RS	1

Optional Accessory List

Item	Part Number	Description
Power Adapter	IVIPOWER-4PIN-R10	Power Adapter; 63000-FSP040DGAA1107-RS + Switching Cable 32002-005100-100-RS

Dimensions (Unit: mm)



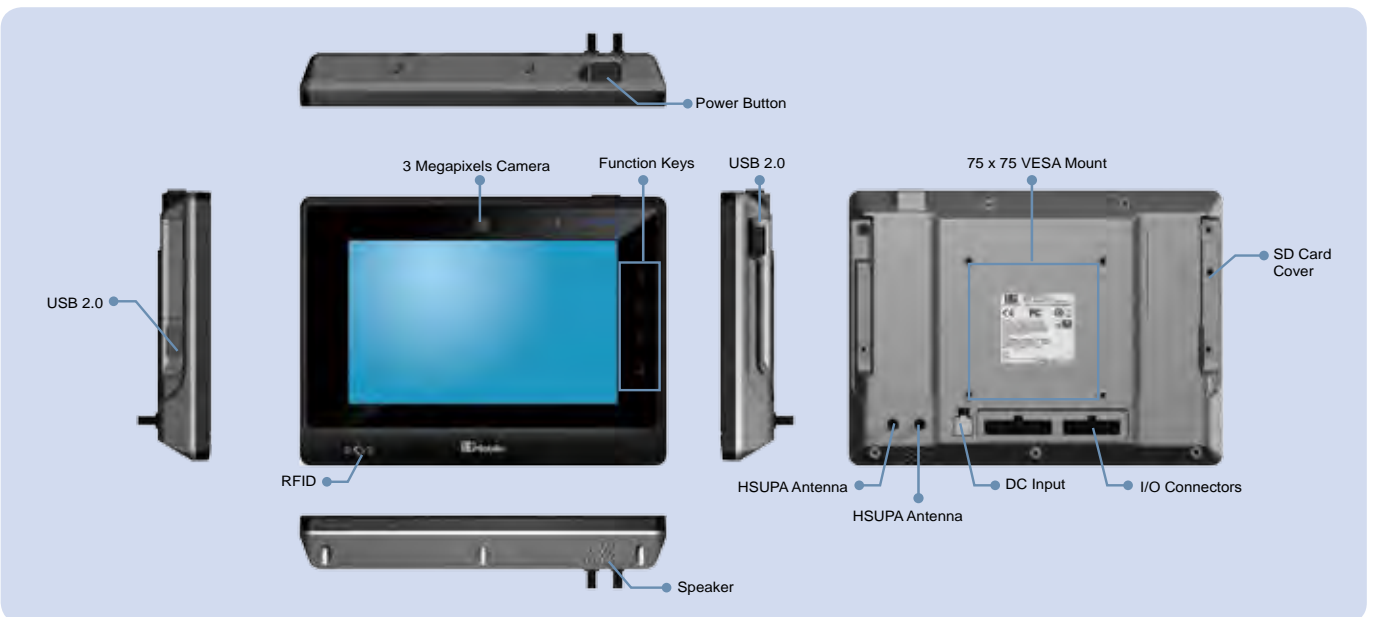
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IEIMobile Solutions

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Optional Peripherals



VTT-1000

Vehicle Tracking Terminal

- 3.5" TFT LCD touch screen
- Embedded with ARM9 400MHz CPU
- Pre-installed Windows® CE 6.0
- Built-in GSM/GPRS and antenna
- SiRF Star III 20-channel GPS receiver
- Supports On-Board Diagnostics (OBD)



Applications

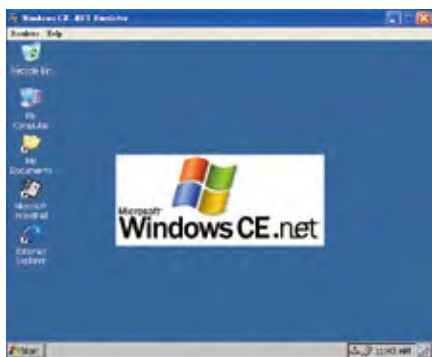
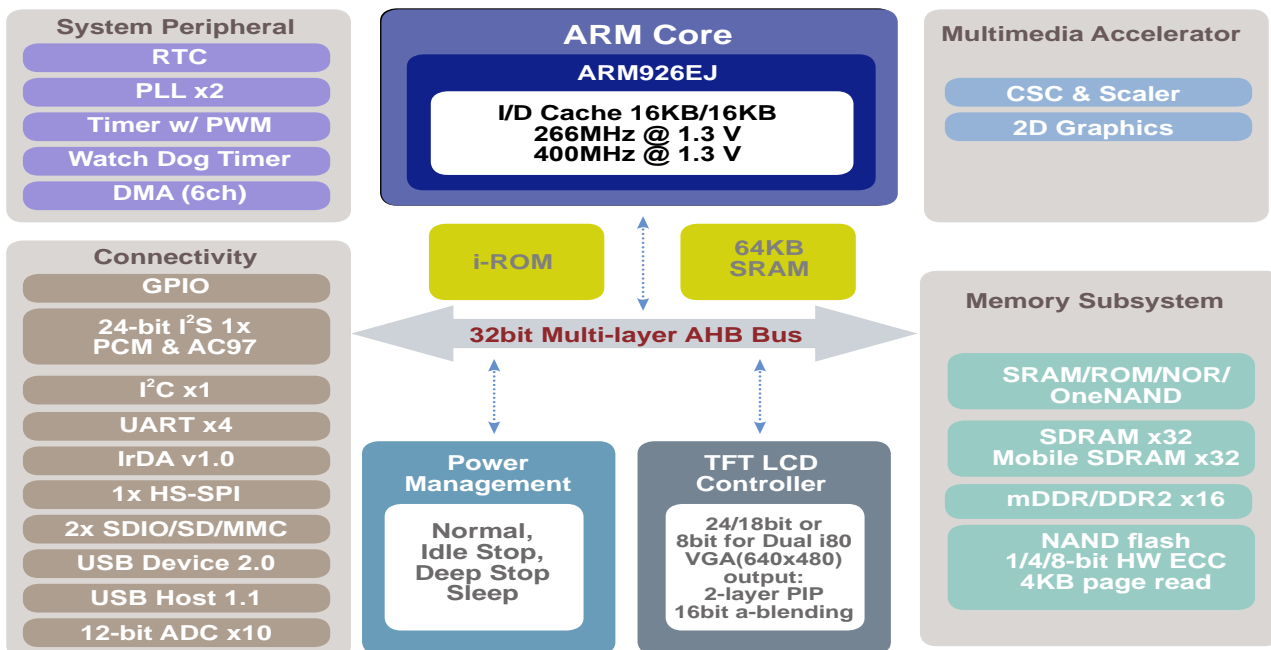
- Fleet Management System
- In-Vehicle Infotainment
- Location-Based Services
- Real-time Vehicle Diagnostic
- Emergency and Security Services



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Compact, Rugged, High Performance, and Low Power Consumption

ARM926EJ core with built-in 2D graphics accelerator



- Pre-installed Windows® CE 6.0 R3
- Waterproof Front Panel LCD Display
- IP54 Compliant Dustproof Housing
- 20°C ~ 70°C Wide Operating Temperature
- Shock and Vibration Protection in Vehicle Environment



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Optional Peripherals

Global Positioning System (GPS) Receiver

Specifications	
Chipset	SiRF Star III, GSC3f/LPx (Digital, RF in a single package)
Frequency	L1, 1575.42 MHz
Channels	20 parallel
C/A Code	1023 MHz
Chipset TTFF	Reacquisition: Less than 1s Hot start: Less than 1s @ open sky Warm start: Less than 35s @ open sky Cold start: Less than 35s @ open sky
Accuracy	Position: Within 10m for 90% Velocity: 0.1m/s
Interface Protocol	1. NMEA 0183 ver 3.0, GGA, GSA, GSV, RMC, 4800bps 2. SiRF Protocol 57600bps, 8 data bits, no parity, 1 stop bits
LNA	15dB Gain.(Typ.) LNA only enable by LPX series
Internal Memory	Flash type on 4MB
TCXO	16.369 MHz
Trickle Power Mode	Duty cycle ≤ 34%. (Variable) Default: Disable (Option: Enable)



GSM/GPRS Telecommunication

VTT-1000 is equipped with a Cinterion (formerly Siemens) MC55i wireless module and built-in antenna for machine-to-machine (M2M) communication over GPRS. The MC55i is awarded full type approval and certified by global carriers and operators. It is optimized with quad-band technology for worldwide roaming.

- Quad-Band GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 10
- GSM phase 2/2+ compliant
- TCP/IP stack access via AT commands
- Internet Services: TCP, UDP, HTTP, FTP, SMTP, POP3
- Control via AT commands
(Hayes 3GPP TS 27.007, TS 27.005)
- SIM Application Toolkit
- Specification for GPRS data transmission:
 - GPRS class 10: max. 86 kbps (DL)
 - Mobile station class B
 - PBCCH support
 - Coding schemes CS 1-4



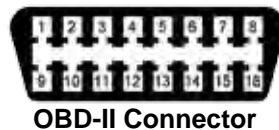
In-Vehicle Communication

Almost all of the automobiles produced today are required by law to provide an interface for connecting the diagnostic test equipment. The VTT-1000 provides a connection to vehicle On-Board Diagnostics (OBD) port (OBD-II connector) and supports the most common data transfer protocols and standards in use today.



Protocols and Standards

SAE J1850 PWM (41.6 kbaud)
SAE J1850 VPW (10.4 kbaud)
ISO 9141-2 (5 baud init)
ISO 14230-4 KWP (5 baud init)
ISO 14230-4 KWP (fast init)
ISO 15765-4 CAN (11-bit ID, 500 kbaud)
ISO 15765-4 CAN (29-bit ID, 500 kbaud)
ISO 15765-4 CAN (11-bit ID, 250 kbaud)
ISO 15765-4 CAN (29-bit ID, 250 kbaud)
SAE J1939 CAN (29-bit ID, 250* kbaud)



Supported OBD-II Connector Pins

OBD-II Pin	Description
1	-
2	Bus positive line of SAE-J1850 PWM and SAE-1850 VPW
3	-
4	-
5	-
6	CAN high (ISO 15765-4 and SAE-J2284)
7	K line of ISO 9141-2 and ISO 14230-4
8	-
9	-
10	Bus negative line of SAE-J1850 PWM only (not SAE-1850 VPW)
11	-
12	-
13	-
14	CAN low (ISO 15765-4 and SAE-J2284)
15	Line of ISO 9141-2 and ISO 14230-4
16	-

- In addition to traditional applications for diagnostic trouble code readers and automotive scan tools, emerging applications such as Location-based Services (LBS) and Fleet Management System (FMS) have started to combine OBD with GPS and telecommunication technology, making remote real-time diagnostics available.

Built-in Sensors and I/O

VTT-1000 includes built-in temperature sensor, G-sensor, E-compass, and digital I/O to provide advanced vehicle monitoring and control applications. For example:



- Alarm, light and sound supplier which automatically checks for unusual tags.
- An automatic emergency call will be initiated when airbag deployment is detected.
- When the G-Sensor detects a sudden brake or acceleration, system begins to log critical vehicle data, navigation data, and real-time picture or video.
- Real-time navigation and position logging.

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Optional Peripherals

Software Development Kits (SDK) and Built-in Software

- In addition to Windows CE SDK, the VTT-1000 SDK contains easy to use API's for application software development
 - Detect function key status (F1 ~ F4, and Menu1 ~ Menu3) and to program user interface applications
 - Digital I/O offers an easy to use 4-bit digital I/O (2 inputs/2 outputs) configuration. Allows you to set digital outputs and read digital inputs
 - Read temperature sensor data to monitor vehicle ambient temperature
 - Read G-sensor data to monitor vehicle status
 - Read E-compass data to log or display directions
 - Open OBD-II port and read OBD-II PIDs (P-codes)

OBD-II PIDs are defined by SAE J1979. The expected response for each PID is given along with information on how to translate the response into meaningful data. Information includes:

- | | |
|---|---|
| <ul style="list-style-type: none"> •Vehicle speed •Engine RPM | <ul style="list-style-type: none"> •DTC (Diagnostic Trouble Code) |
| <ul style="list-style-type: none"> •Total fuel used (litre since life time) •High resolution vehicle distance | <ul style="list-style-type: none"> •Calculated engine load •Intake air temperature •Throttle position |
| <ul style="list-style-type: none"> •Engine coolant temperature •Vehicle ambient temperature | <ul style="list-style-type: none"> •Accelerator pedal position (0–100 %) •Axle weight (kg) •Oxygen sensors and status |
| <ul style="list-style-type: none"> •Tachograph information •Total engine hours (h) | <ul style="list-style-type: none"> •Clutch switch (on/off) •Brake switch (on/off) •Cruise control (on/off) •PTO (Status/Mode) |
| <ul style="list-style-type: none"> •Fuel level (0–100 %) •Fuel pressure •Fuel system status | |



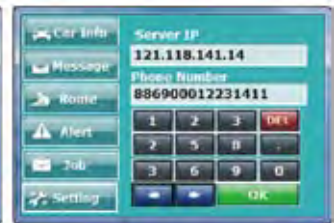
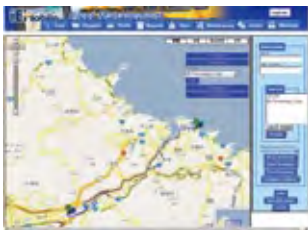
- The VTT-1000 SDK also provides free fleet management demo software, IEI FMS. This software is based on client/server architecture. Server-side software is contained in the bundled CD and can be installed in a Windows® desktop PC. Client-side software (VTT-1000 Runtime) is pre-installed in each VTT-1000. IEI FMS demonstrates the most basic function of fleet management software with the ability to gather, store, process, monitor, report on and export information.

IEI FMS Architecture



Server-side Screen Shot

Client-side Screen Shot



OEM Built-in Optional 3rd Party Navigation Software (May Require MOQ and NRE Depending On Project Base)

Tailoring to your specific needs, VTT-1000 supports a diverse array of popular Navigation softwares currently on the market, such as Lingtu for China.



■ Lingtu With map of China

VTT-1000WiFi

New

Vehicle Tracking Terminal

- 3.5" TFT LCD touch screen
- Embedded with ARM9 400MHz CPU
- Pre-installed Windows® CE 6.0
- Built-in GSM/GPRS and Wi-Fi
- SiRF Star III 20-channel GPS receiver



Flexible Applications

The VTT-1000-wifi serves as a vehicle terminal that provides users with highly expandable options, allowing for a wide range of fleet management applications. It features a built-in Wi-Fi antenna that can access wireless network in surroundings. Vehicles with built-in wireless modems can greatly benefit from the VTT-1000-wifi.

- Fleet Management System
- In-Vehicle Infotainment
- Location-Based Services
- Emergency and Security Services



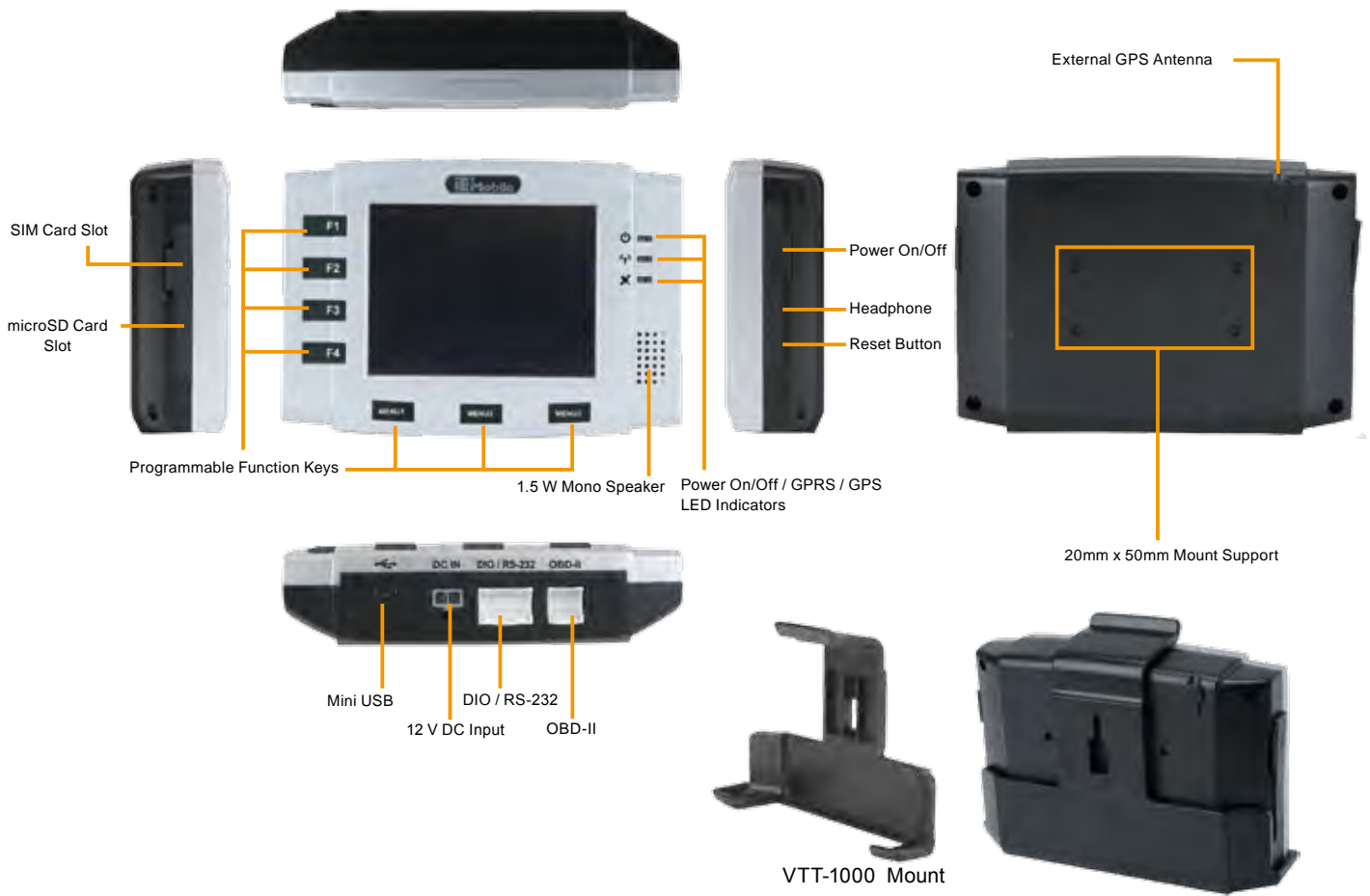
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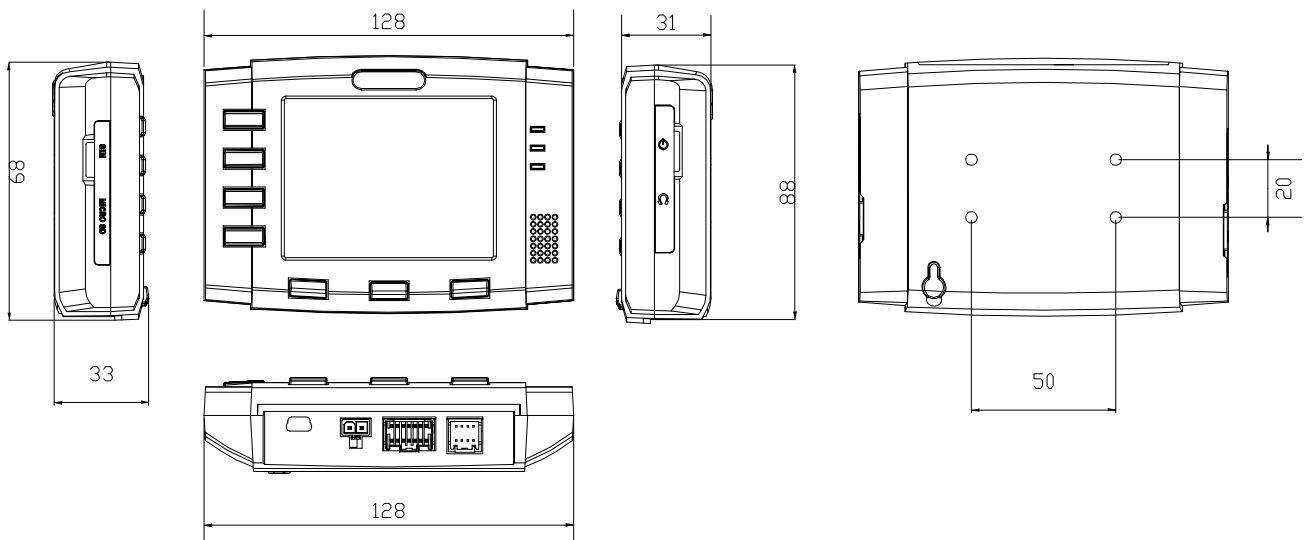
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PACSmate Medical Solutions

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Optional Peripherals

Dimensions (Unit: mm)



Specifications

Model		VTT-1000	VTT-1000-WiFi
Display	LCD Size	3.5" TFT-LCD	
	Brightness (cd/m ²)	450 cd/m ²	
	Max. Resolution	320 x 240 pixels QVGA	
	Viewing Angle	50/55/60/60 Deg.	
	Touch Screen	4-wire Resistive Type Touch	
System	CPU	Samsung S3C2416 ARM9 400 MHz	
	Operating System	Microsoft® Windows® CE 6.0	
	Memory	128MB DDR2 133MHz On-board	
	Storage	256MB NAND FLASH microSD Card Slot	
Communication	Modem	GSM/GPRS	
	GPS	GPS w/ Internal / External Antenna	
	Wi-Fi	N/A	802.11 b/g
Multimedia	Audio	1 x Line-out, 1 x 1.5W Speaker	
LED Indicators & Buttons	Indicators	Power/GPS/2.5G Status LED	
	Hot Keys	7 x Programmable Keys , Power Button, Reset Button	
I/O Interface	USB	1 x Mini USB 1.1	
	Serial	1 x DB-9 OBD-II, 1 x RS-232	1 x CAN BUS 2.0B
	Digital I/O	2-bit input, 2-bit output	
Power	Cigarette Lighter Power	DC 9-30V	
Environment	Operating Temperature	-20°C to +70°C	
	Storage Temperature	-30°C to +80°C	
	Humidity	5%~95% Non-Condensing	
	Drop Survival	1M	
	Environmental Protection	IP 54 compliant front panel (water, dust and splash resistant)	
	Certifications	CE/FCC/e-MARK/ISO7637	
Physical Characteristics	Dimensions (LxWxH) (mm)	128 x 89 x 32	
	Net Weight	0.17kg	

Ordering Information

Part Number	Description
VTT-1000-T35A/128MB-00-R10	3.5" 450cd/m ² QVGA Fanless Vehicle Computer with ARM S3C2416X40-Y640 400MHz CPU, 128MB SDRAM, GSM/GPRS, OBD-II, GPS, without AC Adapter, RoHS
VTT-1000-WiFi-R10	3.5" 450cd/m ² QVGA Fanless Vehicle Computer with ARM S3C2416X40-Y640 400MHz CPU, 128MB SDRAM, GSM/GPRS, Wi-Fi, CAN BUS 2.0B, GPS, without AC Adapter, RoHS

Model Variations

Part No.	WiFi	Modem	GPS	OBD-II	CAN BUS 2.0
VTT-1000-T35A/128MB-00-R10	NA	GSM/GPRS	Yes	Yes	NA
VTT-1000-WiFi-R10	Yes	GSM/GPRS	Yes	NA	Yes

Packing List

Item	Part Number	Q'ty
DIO and RS-232 Cable	32016-000300-100-RS	1
OBD-II Cable	32016-000400-100-RS	1
GPS Antenna	32502-000200-100-RS	1
Cigarette Lighter Power Cable	32002-004600-100-RS	1
User's Manual CD-ROM	7B000-000569-RS	1

Optional Accessory List

Item	Part Number	Description
Bracket	VTT-1000-MT01-R10	VTT-1000 Mounting Kit
AC Adapter	IVIPOWER-2PIN-R10	Power Adapter 63000-FSP040DGAA1107-RS + Switching Cable 32002-005000-100-RS



GPS Antenna



OBD-II Cable



DIO and RS-232 Integrate Cable



Cigarette Lighter Power Cable



Bracket



AC Adapter

AVL-2000PLUS

Auto Data Server

- Intel® Atom™ Z510 1.1GHz Processor
- Pre-installed Windows® XP Embedded
- Built-in HSUPA/GPRS/GSM and Wi-Fi
- Built-in GPS with Dead Reckoning Support
- Built-in VGA Port Output and NTSC/PAL/SECAM Video Capture
NTSC: 120fps@ D1
PAL/SECAM: 100fps@ D1 for Display
- Optional UHF RFID Reader Module
- Supports On-Board Diagnostics (OBD)



Advanced Vehicle Tracking/Monitoring with Auto Data Server

The AVL-2000PLUS comes integrated with a remote on-line and real time diagnostic system for vehicles via HSUPA/GPRS/GSM, Global Position System(GPS) and On-Board Diagnostic System(OBD) technologies. The compact design of the AVL-2000PLUS makes it easy to track goods or vehicles at any location and at anytime. The AVL-2000PLUS also provides video/audio capture and recording functions. Optional functions include UHF RFID Readers for a wide range of industrial and commercial applications, including supply chain management, asset tracking, authentication and access control. These complete advanced functions make an Auto Data Server suitable for accurate vehicle tracking, security monitoring, and data collection.



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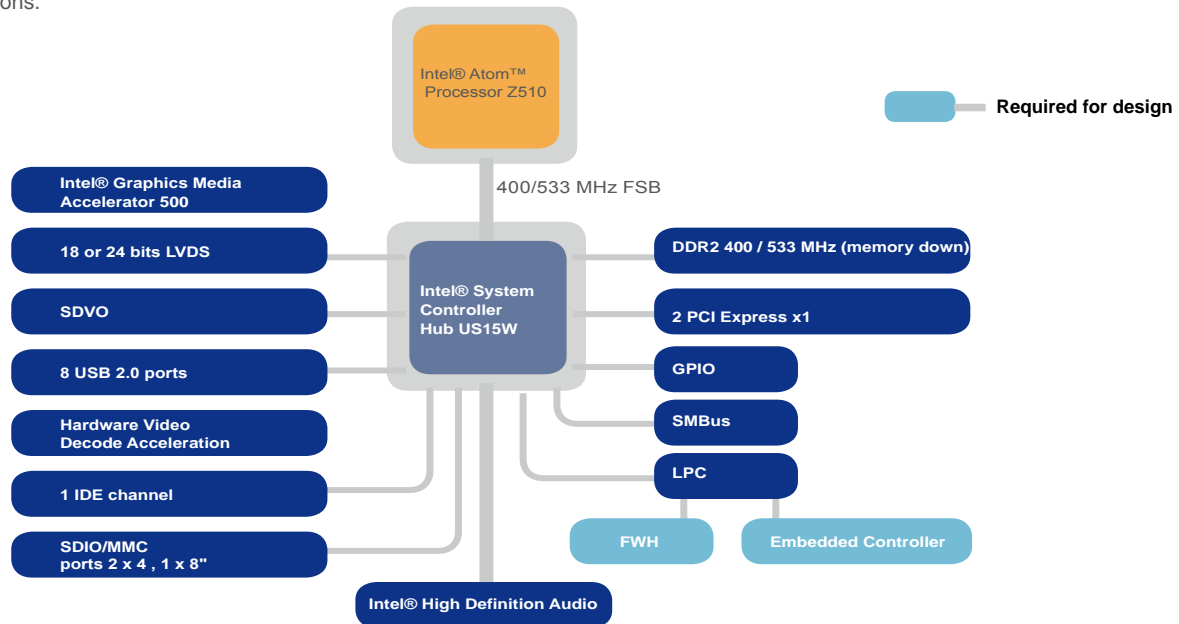
PACSmate Medical Solutions

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Optional Peripherals

Low Power Consumption and High Performance with Intel® Atom™ Z510 Processor

The AVL-2000PLUS features an Intel® Atom™ Z510 processor and Intel® System Controller Hub US15WP for embedded lifecycle support. The combination of high performance, low power consumption and integrated graphics/video makes this platform well suited for many embedded market segments such as in-vehicle infotainment, industrial control and automation, diagnostics and retail transaction solutions.



Supporting Windows® XP operating systems in a componentized form allows developers to create advanced commercial and consumer devices.

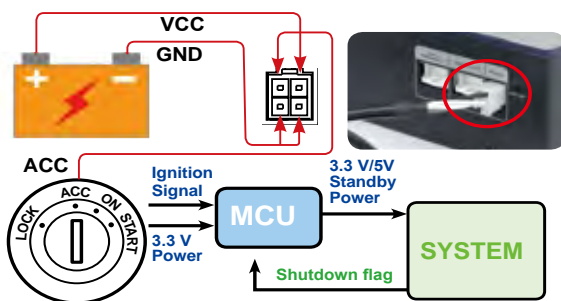
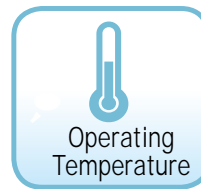
IEIMobile supports MeeGo. MeeGo is a combined effort between Intel®, the world's largest chip manufacturer, and Nokia, the world's largest mobile handset manufacturer. It is a Linux-based open source platform designed from the ground up to provide cross-device support.

MeeGo API is based on Qt and Qt Mobility. Qt, a well established tool for developers, allows MeeGo to offer its unique advantage of portability and expandability.



Wide Temperature Range and Compact, Rugged Design

- 20°C ~ 70°C Operating Temperature
- Shock and vibration protection ideal in vehicle environments



Vehicle Power Management

- The unique MCU enables system to automatically reboot or shutdown based on the adjustable delay time by detecting ACC status
- Surge protection and low power consumption hardware design

One Key Recovery

Without having to go through complicated settings, IEI One Key Recovery uses exclusive technology to recover and backup your system with just one click.

Recover your system from

- Severe virus attack
- Operating system crash
- Man-made disasters



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Built-in Global Positioning System (GPS) with Dead Reckoning Support

Dead-Reckoning (DR) is a new feature implemented in some high-end automotive navigation systems in order to compensate for the limitations of GPS technology. The solution ensures uninterrupted navigation and tracking when satellite signals are blocked or unavailable, such as near tall buildings, mountains, canyons, in tunnels or in underground parking. With Dead Reckoning, the AVL-2000PLUS can still provide continuous position reporting even during GPS satellite blockage.



Armored Money Truck

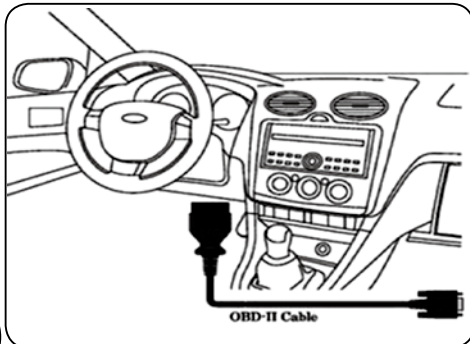


Hazardous Material Handling



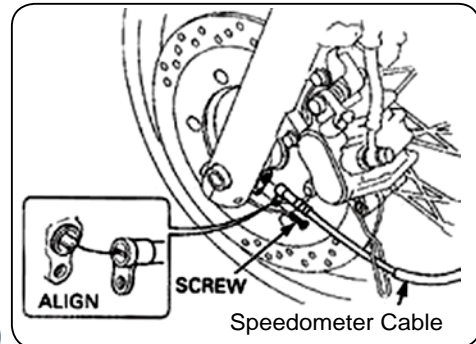
A built-in gyroscope is used to measure angular velocity. It provides highly accurate results when measuring an angular turn in any direction. The OBD-II, on the other hand, can accurately measure the speed of the vehicle. By combining gyroscopes with OBD-II, the AVL-2000PLUS is able to perform non-stop calculation of the dead reckoning position, orientation, and velocity (direction and speed of movement) of a moving object without any external references. It also eliminates the trouble and cost of a traditional speedometer cable installation. The AVL-2000PLUS is an ideal choice to enhance GPS performance and improve overall tracking ability.

AVL-2000PLUS uses standard OBD-II interface plug, allowing for quick and easy access to cruise data.



Simple "Plug-and-Play"

Traditional data retrieval via wired speedometer is cumbersome and time-consuming.



Hard to Install

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Optional Peripherals

Leading the Wireless Revolution

■ WWAN 2.5G/3.5G/3.75G

- Receive the localization coordinate of each vehicle through efficient mobile connectivity.

Technology/Bands

- HSUPA/HSPA/UMTS-800/850/900/1900/2100 MHz
- Quad-band EDGE/GPRS/GSM-850/900/1800/1900 MHz
- Dual-band EV-DO/CDMA-800/1900 MHz



■ 802.11b/g Wi-Fi

- Delivers broadband-speed browsing and connectivity, compared to traditional wired LAN connections. Best for near field or ad-hoc data communications.



Extended Connectivity

■ Multi-Channel Real Time Video and Audio Capture Applications

- On-board video surveillance made easy with the AVL-2000PLUS. With multi-channel real time video and audio capture capabilities, it's designed to meet the requirements of modern security systems, especially in the transportation industry. It reduces loss and damage to goods and assets and increases the safety of the drivers. The AVL-2000PLUS SDK contains a library of four active channels video demo program, allowing for quick and easy customization of audio/video preview and capture application.

Key Features

- Internal 4-channel video decoder and audio ADC
- High quality proprietary fast video locking system for non-real-time application
- Supports 4-channel D1 video plus 1-channel audio simultaneously with independent channel control
- Dynamic synchronization: video processing; multiple video format output support Y422, Y420, IYUI/Y411, Y41P, RGB555 and RGB565
- Dual support for Direct Show and Direct Draw
- Accepts all NTSC(M/N/4.43) / PAL(B/D/G/H/I/ K/L/M/N/60) / SECAM standards with auto detection



PC-Style Peripherals

- 3-in-1 RS-232/422/485 serial interface

The AVL-2000PLUS is an ideal choice for connecting RS-232/422/485 serial devices to an Ethernet network, making it possible for software to access serial devices anywhere on a local network.



- Full speed USB 2.0 host

Supports connection to USB devices such as standard HIDs (Human Interface Device) like keyboard and mouse, USB storage, USB card reader, or proprietary USB devices.

- 10/100/1000 Mbps Ethernet LAN

Wherever Ethernet LAN is available, the AVL-2000PLUS LAN port provides another faster and more efficient networking option.

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In-Vehicle Communication

●Almost all of the automobiles produced today are required by law to provide an interface for the connection of diagnostic test equipment. The AVL-2000PLUS provides a connection to the vehicle's On-Board Diagnostics (OBD) port (OBD-II connector), and supports several popular data transfer protocols and standards.



Protocols and Standards

SAE J1850 PWM (41.6 kbaud)
SAE J1850 VPW (10.4 kbaud)
ISO 9141-2 (5 baud init)
ISO 14230-4 KWP (5 baud init)
ISO 14230-4 KWP (fast init)
ISO 15765-4 CAN (11-bit ID,500 kbaud)
ISO 15765-4 CAN (29-bit ID,500 kbaud)
ISO 15765-4 CAN (11-bit ID,250 kbaud)
ISO 15765-4 CAN (29-bit ID,250 kbaud)
SAE J1939 CAN (29-bit ID,250* kbaud)



OBD-II Connector



AVL-2000PLUS Connector

Supported OBD-II Connector Pins

OBD-II Pin	Description
1	-
2	Bus positive Line of SAE-J1850 PWM and SAE-1850 VPW
3	-
4	-
5	-
6	CAN high (ISO 15765-4 and SAE-J2284)
7	K line of ISO 9141-2 and ISO 14230-4
8	-
9	-
10	Bus negative Line of SAE-J1850 PWM only (not SAE-1850 VPW)
11	-
12	-
13	-
14	CAN low (ISO 15765-4 and SAE-J2284)
15	L line of ISO 9141-2 and ISO 14230-4
16	-

●Besides traditional applications for diagnostic trouble code readers and automotive scan tools, emerging applications like Location-Based Services (LBS) and Fleet Management Systems (FMS) adopt OBD combined with GPS and telecommunication to realize remote real-time diagnostics.

Built-in Sensors and I/O

■ The AVL-2000PLUS has digital I/O to provide advanced vehicle monitoring and control applications. For example:



- Alarm, light and sound supplier which automatically checks for unusual tags.
- Sends security calls automatically when an unusual door-open is detected.
- An automatic emergency call will be initiated when an airbag deployment is detected.

Optional UHF RFID readers with antenna support

●The AVL-2000PLUS extends the benefits of 4-channel UHF RFID technology to in-vehicle applications via the long range UHF RFID readers which are ISO 18000-6C standard complaint and suitable for industrial warehouse management. It can be used in any harsh environment or temperature. It also supports error-free read performance in vehicles. The non line-of-sight tag reading is effectively used in item level identification, warehouse logistics, and security access management. The AVL-2000PLUS SDK contains libraries to read, write, lock and kill RFID tags, which can be easily integrated into software applications.

Key Features :

- High Gain, high performance
- Easy installation
- UV resistance
- IP65 waterproof and dustproof
- Pole mount & wall mount available



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Optional Peripherals

Software Development Kits (SDK) and Built-in Software

IEI AVL-2000PLUS SDK

Allows third-parties to develop software to send requests to the protocol firmware to acquire vehicle data

- Detects function key status (F1~F3) to program user interface application
- Implements digital I/O
 - Offers an easy-to-use 8-bit digital I/O (4 inputs/4 outputs) configuration. Allows you to set digital outputs and read digital inputs.
- Multi-channel video capture card provides:
 - Four active channels video settings
 - Captured video preview
 - Frame rate information
 - Image property settings
 - Fast configuration and ready-to-run
 - Complete source code



● Channel Video Capture Card



● Implement Digital I/O

UHF module provides:

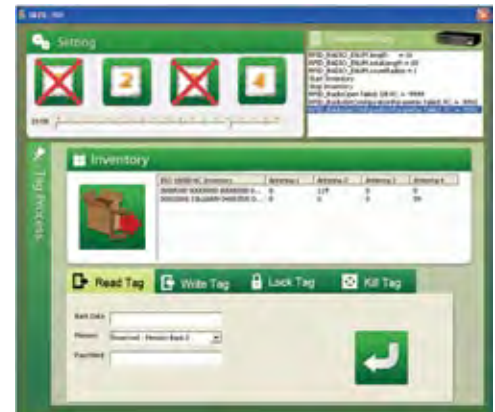
A selection of 4 active antennas.
Antenna in use identification
Interface to read/write/lock/kill tag and retrieve product information such as product names, inventory, place of production, specification and read count information.

OBD-II provides:

Demo the query results of OBD-II interface with CAN protocol data. There are 4 types of CAN data supported. Also features an interface for users to acquire diagnostic vehicle data and over 79 kinds of vehicle for diagnostic or travel information such as speed, engine loading, engine R.P.M and more.

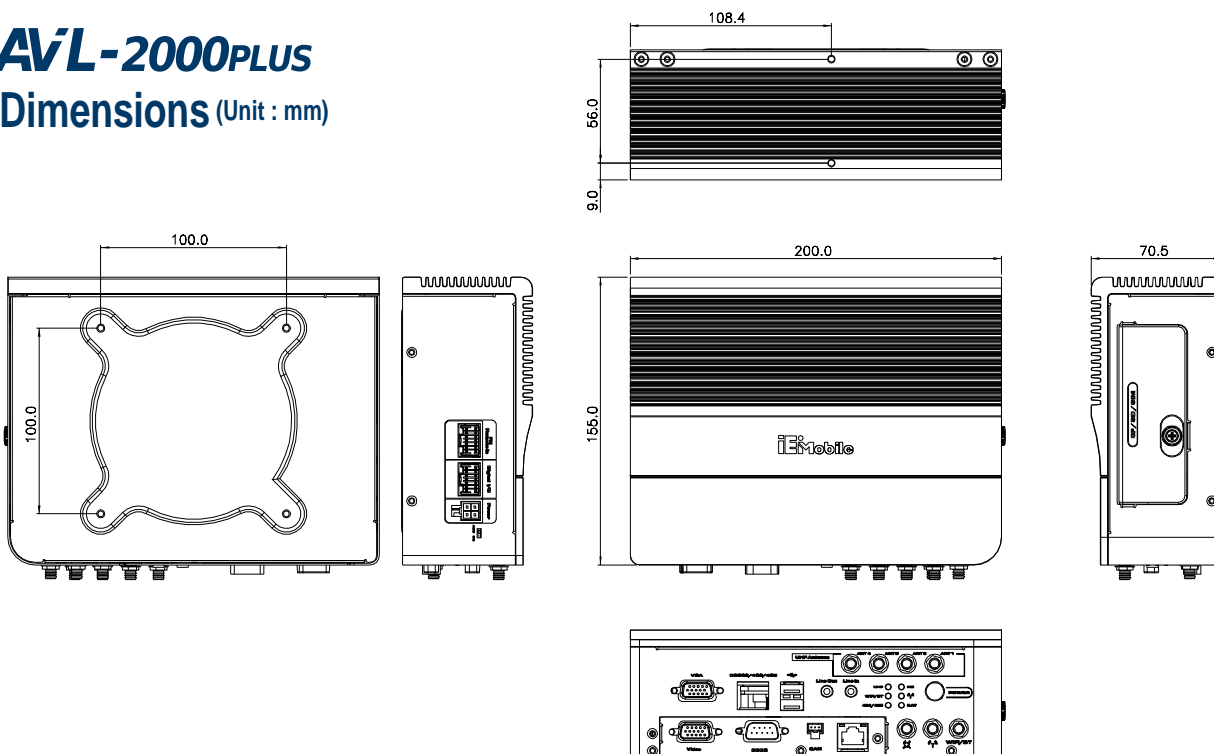


● Data provided by OBD-II

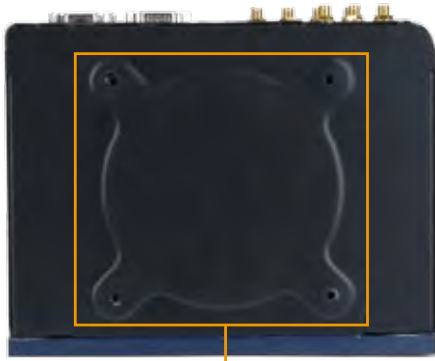


● UHF Module

AVL-2000PLUS Dimensions (Unit : mm)



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- 5 Optional Peripherals



DIN Rail 100 Mount

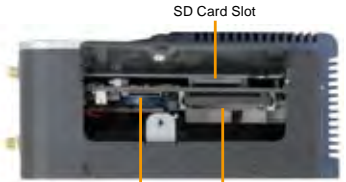
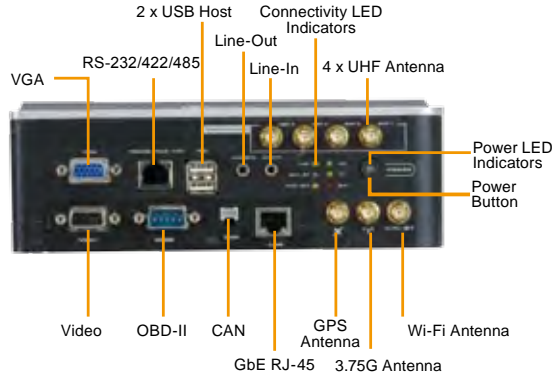


Easy Access to CF, SD and SIM



FN Remote In
Digital I/O 12 V DC IN

ACC/Manual Power Mode Switch



SIM Card Slot
CF Card Slot

Specifications

Model	AVL-2000PLUS	
System	CPU	Intel® Atom™ Z510 1.1 GHz
	Chipset	Intel® US15WP
	Operating System	Microsoft® Windows® XP Embedded
	Memory	1 GB DDR2 533 MHz On-board
	Storage	4GB CompactFlash® SD Card Slot
Communication	Wireless LAN	Wi-Fi 802.11b/g/n
	Bluetooth	N/A
	Modem	WCDMA/HSUPA
	GPS	GPS
Multimedia	Audio	1 x Line-in 1 x Line-out
Data Collection	RFID	Read-Write Capable ISO18000-6C UHF module (option)
	Video Capturing	Video Input: 4 channels composite video(NTSC/PAL/SECAM) Frame rate: 4 channels with 120fps@D1 per channel(NTSC), 4 channels with 100fps@D1 per channel(PAL/SECAM)
LED Indicators & Buttons	Indicators	UHF/Wi-Fi/ RS-422/485/HDD/3.75G/BAT/Power Status LED
	Buttons	Power Button
I/O Interface	USB	2 x USB 2.0
	Serial	1 x DB-9 OBD-II 1 x RJ-45 RS-232/422/485
	LAN	1 x 10/100/1000 Mbps GbE RJ-45
	VGA	1 x VGA
	CAN	1 x CAN 2.0b
	Digital I/O	4 Inputs / 4 Outputs
	Power	Cigarette Lighter Power
	ACC Power	Manual power mode and ignition detection supported ACC power on/off mode with software configurable delay time
Environment	Operating Temperature	-20°C to +70°C
	Storage Temperature	-30°C to +80°C
	Humidity	5%~95% non-condensing
	Certification	CE/FCC/e-Mark/ISO7637
	Physical Characteristics	Dimensions (LxWxH) (mm)
	Net Weight	1.9kg

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Optional Peripherals

Ordering Information

Part Number	Description
AVL-2000P-510/HU-R11	Vehicle PC Box with Intel® Atom™ Z510 1.1GHz CPU, 1GB SDRAM, 802.11 b/g/n Wireless, HSUPA, 4CH 120 FPS Video Capture, OBD-II, GPS with DR, RoHS
AVL-2000P-510/HU/FCC-R11	Vehicle PC Box with Intel® Atom™ Z510 1.1GHz CPU, 1GB SDRAM, 802.11 b/g/n Wireless, HSUPA, 4CH 120 FPS Video Capture, OBD-II, GPS with DR, UHF FCC, RoHS
AVL-2000P-510/HU/ESTI-R11	Vehicle PC Box with Intel® Atom™ Z510 1.1GHz CPU, 1GB SDRAM, 802.11 b/g/n Wireless, HSUPA, 4CH 120 FPS Video Capture, OBD-II, GPS with DR, UHF ETSI, RoHS

Support Function

Part Number	Wireless	Video Capture	GPS	3.75G	UHF RFID
AVL-2000P-510/HU-R11	802.11 b/g/n	4CH 120 FPS	U-blox	Qualcomm	None
AVL-2000P-510/HU-R11/FCC	802.11 b/g/n	4CH 120 FPS	U-blox	Qualcomm	UHF FCC
AVL-2000P-510/HU-R11/ETSI	802.11 b/g/n	4CH 120 FPS	U-blox	Qualcomm	UHF ETSI

Packing List

Item	Part Number	Q'ty
Cigarette Lighter Power Cable	32002-001800-100-RS	1
ACC Power Cable	32002-001900-100-RS	1
RS-232 Cable	32005-000200-200-RS	1
Capture Cable	32007-001400-100-RS	1
OBD-II Cable	32025-000300-100-RS	1
J1939 Cable	32025-000400-100-RS	1
Wi-Fi/BT Antenna	32505-000400-100-RS	1
GPS / 3.75G Integrate Antenna	32506-000100-100-RS	1
User Manual CD-ROM	7B000-000568-RS	1
IEI One Key Recovery CD	IEI-7B000-000478-RS	1



ACC Power Cable



Capture Cable



J1939 Cable



OBD-II Cable



Cigarette Lighter Power Cable



GPS / 3.75G Integrate Antenna



RS-232 Cable



Wi-Fi Antenna



Power Adapter



UHF RFID Cable



UHF RFID Antenna

Optional Accessory List

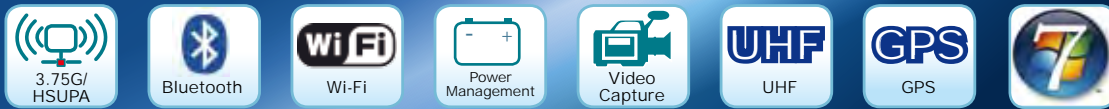
Item	Part Number	Description
UHF RFID Antenna w/Cable	AVL-2000PLUS-FCC01-R10	PATCH Antenna 915MHz
		RFID Cable 10000MM
	AVL-2000PLUS-ETSI01-R10	PATCH Antenna 867.5MHz
		RFID CABLE 10000MM
Power Adapter	VIPOWER-4PIN-R10	PPOWER ADAPTER; 63000-FSP040DGAA1107-RS + Switching Cable 32002-005100-100-RS

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Optional Peripherals

AVL-3000

Advanced Auto Data Server

- Intel® Atom™ N2600 1.6GHz CPU
- Powered by Windows® Embedded Standard 7 E (WES7E)
- Built-in 2.5" 16 GB SATA SSD
- Built-in Wi-Fi, Bluetooth, HSUPA, and GPS
- Built-in VGA Output and NTSC/PAL/SECAM Video Capture
- Supports On-Board Diagnostics (OBD)
- Optional UHF RFID reader module



Advanced Auto Data Server with Upgraded Tracking and Surveillance Function

The AVL-3000 comes integrated with a remote on-line and real time diagnostic system for vehicles via HSUPA/GPRS/GSM, Global Position System (GPS) and On-Board Diagnostics System (OBD) technologies.

The AVL-3000 provides video/audio capture and recording functions. With the codec solution, the AVL-3000 offers enhanced data streaming performance. Optional functions include UHF RFID Readers for a wide range of industrial and commercial applications, including supply chain management, asset tracking, authentication and access control. These complete advanced functions make an Auto Data Server suitable for accurate vehicle tracking, security ,monitoring, and data collection.

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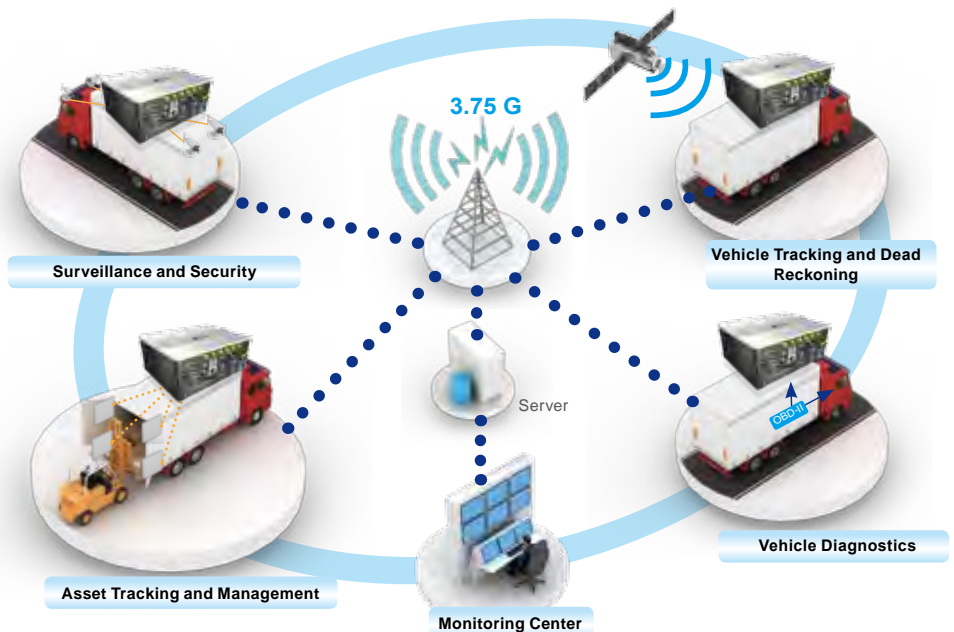
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PACSmate Medical Solutions

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Optional Peripherals

	AVL-2000	AVL-3000
CPU	eMenlow	Cedarview
OS	Windows® XP Embedded	Windows® 7 Embedded
Memory	DDR2 533MHz (2 GB max.)	DDR3 1066MHz



2012 New Atom™ Dual Core Platform

Benefit

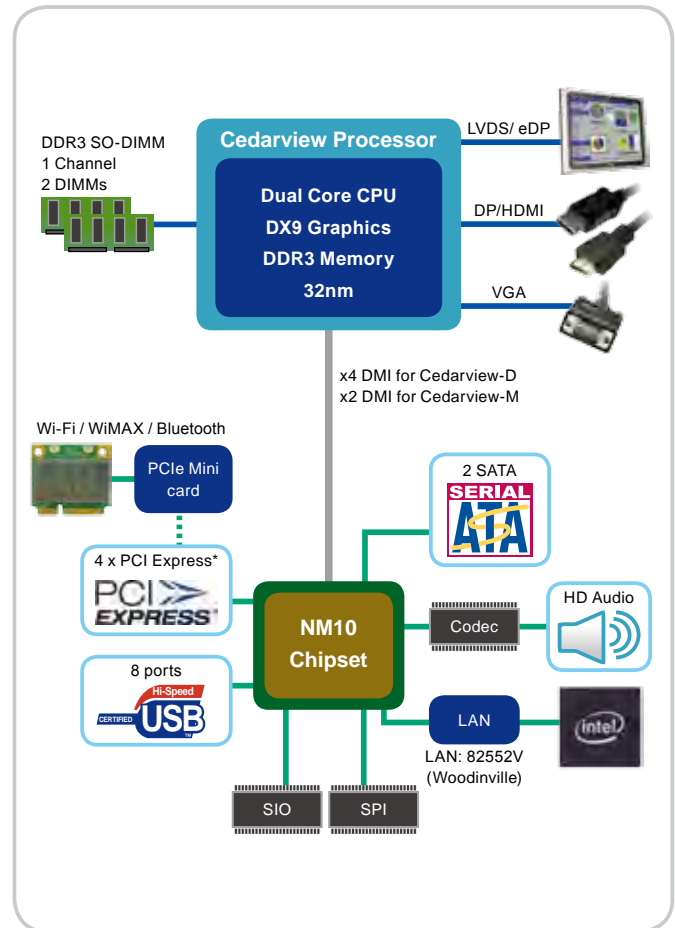
- CPU TDP (3.5/6.5/10W) and average power are lower than Pine Trail (6.5/10/13W)
- Display options including 2 digital ports support for extra LVDS/ HDMI/VGA options
- 2 times improved graphics with 2 HD video support
- Faster memory up to DDR3 1066MHz
- HD decoding with Blu-ray support

Specifications Comparison

	Navy Pier (N270)	Pine Trail (D525/D425/N455)	Cedar Trail (N2800/N2600)
Process	45nm	45nm	32nm
Processor Frequency	N270: 1.6GHz	D525/D524: 1.8GHz N455: 1.66GHz	N2800: 1.86GHz N2600: 1.6GHz
CPU TDP	N270: 2.5W	D525: 13W D425: 10W N455: 6.5W	N2800: 6.5W N2600: 3.5W
Chipset/ PCH TDP	945GSE: 5.5W ICH7M: 1.9W	ICH8M: 2W	Intel® NM10: 1.5W
Memory	DDR2 400/533MHz (2GB max.)	DDR2/DDR3 up to 667 for N455 800MHz for D525/D425 (4GB max.)	DDR3 1066MHz for N2800 (4GB max.) DDR3 800MHz for N2600 (2GB max.)
Graphics	DX9, OGL 1.4	DX9, OGL 1.5	DX9, OGL 3.0
	Gfx @ 133 MHz	Gfx @ 200 MHz (N455) Gfx @ 400 MHz (D525/D425)	Gfx @ 400 MHz (N2600) Gfx @ 640 MHz (N2800)
Video Decode	MPEG2	Discrete 3rd part decoder	MPEG2, H.264, VC-1/ WMV9 Up to 1080p decoding

Note: Standard product is N2600. By customization can upgrade to N2800.

Block Diagram



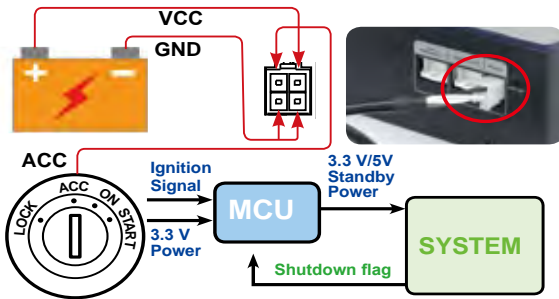
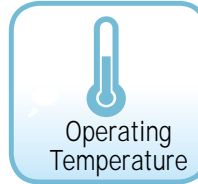
Microsoft® Windows® Embedded Standard 7

Benefit Category	Top Features
Performance/ Reliability	<ul style="list-style-type: none"> • 64/32 bit support • Less boot time • Improved power management • Aero glass
Compatibility/ Security	<ul style="list-style-type: none"> • Enhanced driver compatibility • Enhanced application compatibility • Credential manager (allows you to maintain all your credentials related to websites or when you connect to another computer)
Connectivity	<ul style="list-style-type: none"> • Sensor and location platform • Bluetooth 2.1+EDR and Extended Inquiry Response (EIR) (Windows® XP only supports Bluetooth 2.0+EDR; EIR is not supported by Windows® Vista)
Development/Deployment/ Serving	<ul style="list-style-type: none"> • Simplified installation (2 tools vs. 4 tools compared with previous versions of wes/xpe); installation wizard (ibw) is also available. • Supports imagex/dism for easier recovery and service solutions • Supports Windows® update

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- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Wide Temperature Range and Compact, Rugged Design

- 20°C ~ 70°C Operating Temperature
- Shock and vibration protection ideal in vehicle environments



Vehicle Power Management

- The unique MCU enables system to automatically reboot or shutdown based on the adjustable delay time by detecting ACC status
- Surge protection and low power consumption hardware design

Extended Connectivity

Multi-Channel Real Time Video and Audio Capture Applications

The AVL-3000, featuring multi-channel real time video and audio capture capabilities, is designed to meet the requirements of modern security systems in the transportation industry. It can reduce loss and damage to goods and assets while increasing the safety of drivers at the same time. The AVL-3000 SDK contains a library of four active channels video demo program, allowing for quick and easy customization of audio/video preview and capture application.

Key Features

- Internal 4-channel video decoder and audio ADC
- High quality proprietary fast video locking system for non-real-time application
- Supports 4-channel D1 video plus 1-channel audio simultaneously with independent channel control
- Dynamic synchronization: video processing; multiple video format output support Y422, Y420, IYUI/Y411, Y41P, RGB555 and RGB565
- Dual support for Direct Show and Direct Draw
- Accepts all NTSC(M/N/4.43) / PAL(B/D/G/H/I/ K/L/M/N/60) / SECAM standards with auto detection



UHF RFID Readers

The AVL-3000 extends the benefits of UHF RFID technology to in-vehicle applications via the long range UHF RFID readers which are ISO 18000-6C standard compliant and suitable for industrial warehouse management. It can be used in any harsh environment or temperature. It also supports error-free read performance in vehicles. The non line-of-sight tag reading is effectively used in item level identification, warehouse logistics, and security access management. The AVL-3000 SDK contains libraries to read, write, lock and kill RFID tags, which can be easily integrated into software applications.

Key Features :

- High Gain, high performance
- Easy installation
- UV resistance
- IP 65 waterproof and dustproof
- Pole mount & wall mount available



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Optional Peripherals

Rich Wireless Communication

Built-in Global Positioning System (GPS)

The built-in GPS allow drivers to perform real-time navigation and access Location Based Services (LBS) while on the road. On the other hand, this information can be transmitted through 3G wireless, which enables the management center to track their vehicles on the road.

802.11 b/g/n Wi-Fi

Delivers broadband-speed browsing and connectivity, compared to traditional wired LAN connections. Best for near field or ad-hoc data communications.

Leading the Wireless Revolution

WWAN 2.5G/3.5G/3.75G

Receives the localization coordinate of each vehicle through efficient mobile connectivity.

Technology/Bands

- HSPA/HSPA/UMTS-800/850/900/1900/2100 MHz
- Quad-band EDGE/GPRS/GSM-850/900/1800/1900 MHz
- Dual-band EV-DO/CDMA-800/1900 MHz



Solid and Expansion Storage

The AVL-3000 uses a 16 GB 2.5" SATA SSD for storage. This design has 2 benefits:

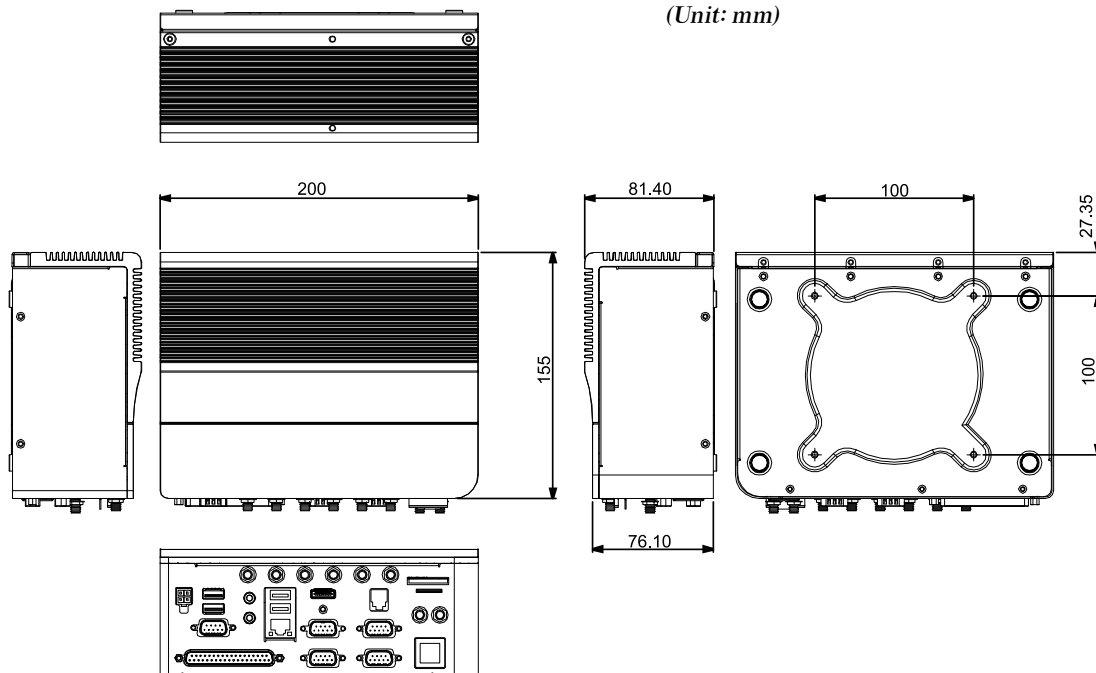
- It allows more information to be stored. This is a great significance for vehicle surveillance applications as video/audio information requires large storage space.
- It is more durable and is hardly to be damaged by vibrations and tough vehicle environment.

SSD vs HDD

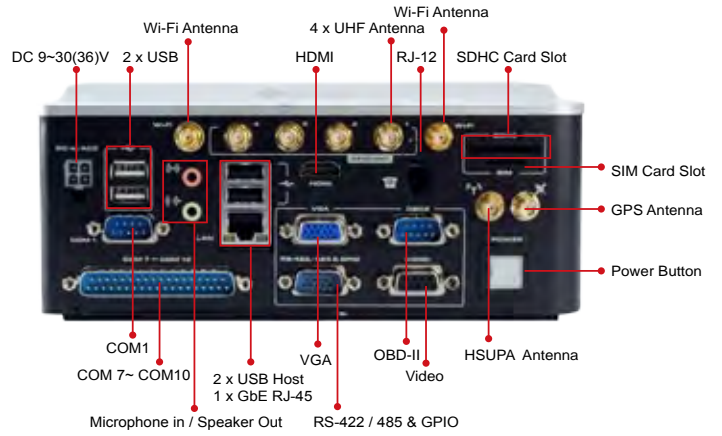
SSD is more suitable for IVI solutions as it can pass the tests of operating shock and vibration.

	HDD	SSD
Life Expectancy	●●●	●●●●●
Operating Temperature	●●●	●●●●●
Storage Temperature	●●●●	●●●●●
Operating Shock	●	●●●●●
Operating Vibration	●	●●●●●
Humidity	●●●●	●●●●●
Altitude	●●●	●●●●●
Power Read/Write Capacity	●●●●	●●●●

Dimensions (Unit: mm)



- 1 IEMobile Solutions
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- 3 RISC-based Solutions
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- 5 Optional Peripherals



Specifications

Model	AVL-3000	
System	CPU	Intel® Atom™ processor N2600 1.6Ghz
	Chipset	Intel® NM10
	Operating System	Windows® Embedded Standard 7 E (WES7E)
	Memory	2GB 800 MHz DDR3
	Storage	1 x Built-in 16G 2.5" SATA SSD 1 x SDXC Slot for data storage
Communication	Wireless LAN	802.11b/g/n
	Bluetooth	Bluetooth V2.0+EDR (class I)
	3.75G	HSUPA/UMTS-800/850/900/1900/2100 MHz
		Quad-band EDGE/GPRS GSM-850/900/1800/1900 MHz Dual-band EV-DO/CDMA
	GPS	GPS
Data Collection	RFID	Read-Write Capable ISO18000-6C UHF module ETSI/FCC
Multimedia	Audio	1 x MIC IN 1 x Line-out
	Camera	4 x Channel camera D1 120FPS
LED Indicator	1 x Power LED	
Power	Power Input	Cigarette lighter power cable DC 9~30(36)V
	Vehicle Power	ACC Power Cable
I/O Interface	4 x USB	
	1 x OBD-II	
	6 x COM port: DB-9 (COM1), RS-422/485 (COM4, 4-PIN), DB-37 (COM7~COM10)	
	1 x GIGA LAN	
	1 x VGA support up to 1920 x 1200	
	4 x VIDEO IN	
	1 x 8 bit Digital I/O (selectable by software)	
	4 x DI	
	4 x DO	
	1 x Line in 1 x Line out 1 X RJ11 3.5G Voice 1 x HDMI	
Environment	Operating Temperature	-20°C~70°C
	Storage Temperature	-30°C ~80°C
	Humidity	5%~95% non-condensing
	Drop Survival	ISO 16754
	Certification	CE/FCC/e-Mark
Physical Characteristics	Dimensions (LxWxH) (mm)	200 x 150 x 76
	Weight	2kg

Ordering Information

Part No.	Description
AVL-3000-N26-R10	Vehicle PC Box with Intel® Atom™ N2600 1.6GHz CPU, WES7E OS, 2GB SDRAM, 16GB 2.5" SSD, 802.11 b/g/n Wireless, HSUPA, OBD-II, GPS, RoHS

Packing List

Item	Part Number	Quantity
GPS/3.75G Integrate Antenna	32506-000100-100-RS	1
Wi-Fi Antenna	32505-000400-100-RS	2
ACC Power Cable	32002-001900-100-RS	1

Optional Accessory List

Item	Part Number
Cigarette Lighter Power Cable	32002-001800-100-RS
RS-232 Cable	32005-000200-200-RS
Capture Cable	32007-001400-100-RS
OBD-II Cable	32025-000300-100-RS
J1939 Cable	32025-000400-100-RS
User Manual CD-ROM	7B000-000568-RS
IEI One Key Recovery CD	IEI-7B000-000478-RS
UHF RFID Antenna w/Cable (PATCH Antenna 915MHZ)	AVL-2000PLUS-FCC01-R10
UHF RFID Antenna w/Cable (PATCH Antenna 867.5MHZ)	AVL-2000PLUS-ETSI01-R10
Power Adapter	IVIPOWER-4PIN-R10



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Optional Peripherals

AFOLUX GEN II Panel PC

New flat bezel, multi-touch, wide voltage AFOLUX panel PC

From the heritage of affordable Luxury AFOLUX Panel PC, AFOLUX GEN II Panel PC shows it's spirit to exceed the history. The AFOLUX GEN II Panel PC is slim and stylish and provides two types of touch option. RFID reader, wide voltage power input are its features which make it more flexible and more powerful than ever!

Innovative product design:

- AFOLUX GEN II flat bezel design is thinner than AFOLUX
- Projected capacitive multi-touch and resistive single touch screen options

New technology for more functions:

- LED dash system for eye-catching notification
- Integrated EM/ Mifare RFID reader
- Light fanless temperature management
- 9–36VDC wide voltage fits all power requirements



9–36VDC wide voltage input



EM/Mifare RFID reader



LED dash system

AFOLUX GEN II – More than Affordable Luxury

The AFOLUX Panel PC positions itself as an affordable luxury system by offering comprehensive functions. In heritage of AFOLUX spirit, AFOLUX GEN II enhances its ability to show its ambition to be advanced flagship industrial panel PC in the world with more stylish and more functions.

	AFOLUX	AFOXLUX GEN II
Type of Touch	Resistive single touch	Resistive single touch / Projected capacitive multi-touch
Front Panel Design	Conventional bezel	Flat bezel
RFID Reader	N/A	EM/ Mifare RFID reader
Function Key	N/A	Yes
LED Indicator	N/A	Yes

2013 New AFOLUX GEN II at a Glance



Platform	W7"	8"	W10.2"	10.4"	12.1"	15"	W15.6"	17"	W18.9"	W21.5"
Intel® Atom™ N2600 / N2800	AFL2-W07A-N26	AFL2-08A-N26	AFL2-W10A-N28	AFL2-10A-N28						
Intel® Atom™ N270							AFL2-W15A-N270			
Intel® Atom™ D525					AFL2-12A-D525					
Intel® HM65					AFL2-12A-HM65					
Intel® H61						AFL2-15A-H61	AFL2-W15B-H61	AFL2-17A-H61	AFL2-W19A-H61	AFL2-W21A-H61

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Rugged While Stylish

Flat Bezel Design with IP64 Protection

AFOLUX Gen II series is designed in flat bezel panel and against dust and water, enduring flawless operation.

Flat-bezel Features:

- Better visual effects
- No edge effect
- Sleek and stylish
- Easy to clean



Enhanced touch technology – projected capacitive touch

Projected capacitive touch panel is stronger and with higher transparency than the resistive type of touch. It also supports Windows 7 multi-touch function compatible with glove-wearing users and enhancing ease-of-use.

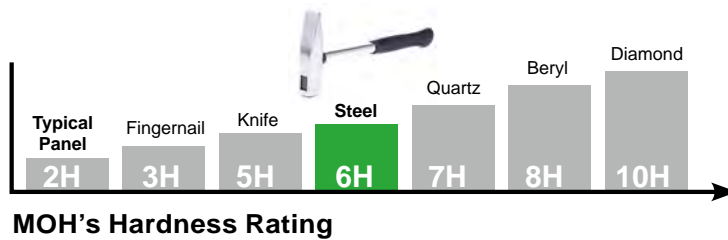
Model	AFL2-17A-H61/PC	AFL2-17A-H61/R
Type of Touch	Projected capacitive type	Resistive type 5-wire touch
Touch Function	Multi-touch	Single-touch
Transparency	85%	80%
Hardness	≥6H	≥3H
Input Flexibility	Hand/ glove	Hand/ glove/ stylus



Glove-friendly multi-touch

6H Anti-scratch Surface (Projected capacitive type touch screen)

Projected Capacitive touch technology utilizes a durable glass front surface. 6H hardness is stronger than the conventional touch panel and therefore is able to protect the screen from damage.



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Superior Performance

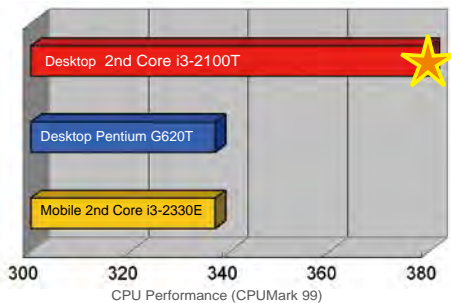
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RISC-based Solutions

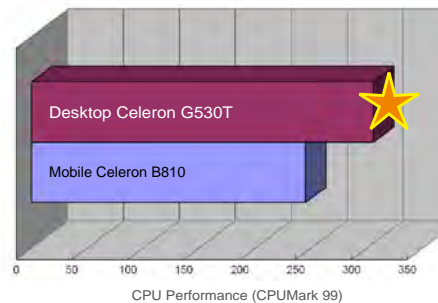
Better Performance and Cost-effective Solution

Comparing to mobile solution, Intel H61 with desktop CPU provides low power consumption but high performance.

Mobile 2nd Core i3 V.S. Desktop Pentium & 2nd Core i3



Mobile Celeron V.S. Desktop Celeron



CPU Type	Intel 2nd Core i3-2330E (Mobile 35W CPU)	Intel Pentium G620T (Desktop 35W CPU)	Intel 2nd Core i3-2100T (Desktop 35W CPU)
CPU Performance (CPUMark 99)	337	337	380

CPU Type	Intel Celeron B810 (Mobile 35W CPU)	Intel Celeron G530T (Desktop 35W CPU)
CPU Performance (CPUMark 99)	245	306

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PACSmart Medical Solutions

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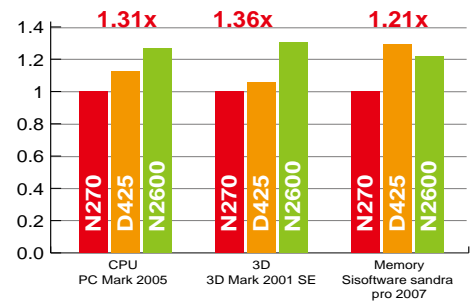
Optional Peripherals

Better efficiency with Intel cedaview dual core processor

AFL2-N26 new series integrates with Intel dual core running at 800 MHz DDR3 Capability for processor running fast. Attached with Fanless system to reduce noise and unable to stuck dust on the fan in lower CPU utilization.

N2600 CPU Performance is 31% better than N270,
Graphics performance is 36% better than N270,
Memory performance is 21% better than N270

Intel® Atom™ processor N270 (1.6GHz)
 Intel® Atom™ processor D425 (1.8GHz)
 Intel® Atom™ processor N2600 (1.6GHz)



Latest Display Technology

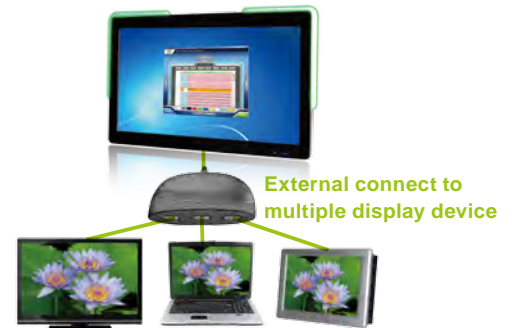
AFL GEN II supports latest display technology : DisplayPort. It's not only used to connect a video source to a display device, but also be used to transmit audio, USB, and other forms of data. DisplayPort lets you take advantage of today's high-bandwidth content, enabling you to create a professional and powerfully compelling digital signage solution.



Reception



Hospital-Medical Imaging



External connect to multiple display device

Advantages

- Backward compatible with DVI/HDMI with the adapter
- Support Multi-Display simultaneously : It can be Monitor, Notebook, All-In-One computer.

Faster Transmission

Super Speed USB 3.0

AFL2-N26 series support both USB 2.0 and USB 3.0 for the necessary. USB 3.0 has higher transmission speed and wider data bandwidth. Support faster transferring for the user.

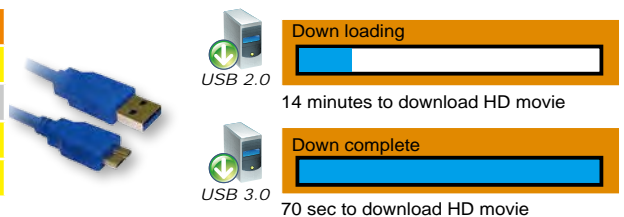
Data Rate Comparison

USB 3.0
5Gbps

USB 2.0
480Mbps

10 times faster!

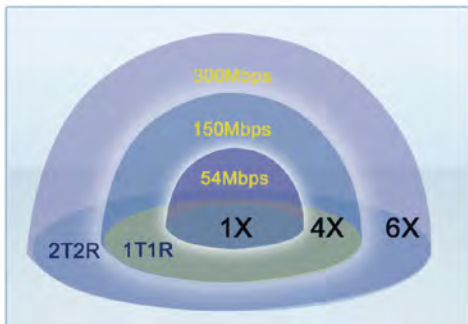
USB version	USB1.0	USB2.0	USB3.0
Data Transfer Rate	12Mbps	480Mbps	5Gbps
Media (Data Size)	Transfer Time		
Song / Pic (4 MB)	5.3 sec	0.1 sec	0.01 sec
HD-Movie (25GB)	9.3 hr	13.9 min	70 sec



Wi-Fi 2T2R Wireless LAN

The AFL2 new series integrate a PIFA antenna and provides 802.11n 2T2R wide bandwidth wireless communication.

- T:** Transmitter: the number T is absolutely relative with speed, 1T up to 150Mbps, 2T up to 300Mbps
- R:** Receive: the number R is relative with receiving dead angle and distance. The higher R is, the wider the receiving range.



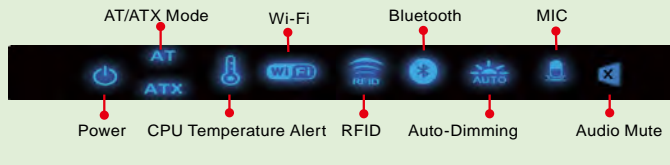
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Easy to Use

LED Indicator and Function key

- Function key can be more convenient for panel PC users to operate this panel without any keyboard or mouse.
- Indicator is located in front of panel, it can tell users which function is enable or disable

• LED Indicators



Mini USB 2.0 Port & micro SD Card Slot on Front Panel



Mini USB 2.0

AFOLUX2 new series conducts mini USB 2.0 on front panel providing different com port for connecting device directly and more convenient

Micro SD card

AFOLUX2 new series conducts micro SD card on front panel for saving memory easier and supports

1 Auto dimming Advantage



Auto dimming Advantage

- Power Consumption Saving
- Comfortable Viewing Brightness
- Extend Product Lifetime

Auto dimming

Adjust the optimal brightness to fit the circumstance change in automation.



Day: Higher Ambient Luminance



Night: Lower Ambient Luminance

Flexible Design to Fit Various Scenarios

Wide Application to Extreme Circumstance

Power supply requirement varies from applications. Incorrect voltage input will damage electronic components thus cause system break down. AFOLUX GEN II series offers wide voltage power input, which fits different application scenarios and increase stability of the system.



Wide Range 9~36VDC input *

Wide range DC input fits different power source depends on what circumstance needed.

Wide Range Power Input

9~ 36V DC*



Automation Central Control



Factory Manufacture Control



Truck Control(24V)

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Optional Peripherals

Flexible Power Mode

With the AT mode selected, the AFOLUX GEN II turns on automatically when the power is connected. With the ATX mode, the AFOLUX GEN II can be easily to control via network or a power switch



AT/ATX

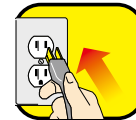
AT Power Mode

Application

- Factory Automation platform
- Self-service kiosk

Advantage

- Easy to turn on/off with panel mounting
- Automatic start when power connected



System On



System Off

ATX Power Mode

Application

- Security surveillance
- Advertising terminal

Advantage

- Power management
- Remote control via network advantage
- Remote control individually



System On



System Off

Optional EM/Mifare Card Reader



EM card reader(125KHz):

It is called an ID card and has read/write function of contactless RFID chip with low consumption and can provide various data transmission rate and data encoding.

Mifare card reader (13.56MHz):

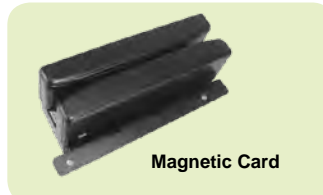
It is called an IC card and can be used to read and save the data information to implement certain data transmission.

		100KHz	1MHz	100MHz	1GHz
		Low Frequency (125KHz)	High Frequency (13.56MHz)		
			ISO14443	ISO15693	Felica (NFC)
Data Rate		Up to 16 kbps	Up to 106 kbps <i>Faster!</i>	Up to 53 kbps	Up to 434 kbps
Reading Distance		0-200cm	0-10cm	0-150cm	0-10cm
Memory	R/O	48/64 bits	64 bits	64bits	64bits
	R/W	2048/1024 bits	512-4096 bits <i>High Capacity!</i>	Max. 2048 bits	N/A
Interference	Liquid	Low	Mid	Mid	Mid
	Metal	High	High	High	High
	RF	Very Low	Low	Low	Low
Security		32-bit password	High (AB keys)	Low	High (AB Keys)

Complete Peripherals

Optional Magnetic Stripe Card/ Hybrid Card Reader

Providing bracket kit to fix either MSR or MSI card for the user choose the optimal one. It can be used to deal with magnetic card.



VESA Mounting



VSTAND-A12 STAND-B19

- Desktop Stand
- Wall Mount
- VESA Standard Multi-mounting Stand

Mounting Kits



OSD Remote Control Advantage

Advantage

- Convenient way to control visual setting
- Wherever for remote control
- Extend Product Lifetime



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IEI Light Fanless System

IEI LIGHT FANLESS SYSTEM is a highly effective smart system, embedded with smart sensor to test the ambient temperature. It can be used in high performance and silence both in need situation, such as: multimedia platform next to patient bedside, gaming machine, airport kiosk.....etc.

Benefits

- **Power Saving**
Auto switch on/off fan can reduce redundant power consumption
- **Expanding system lifecycle**
Helping users to run system more effectively, it also enhances the lifecycle of CPU.
- **Effectively manage system environment**
User can monitor the information of system easily
- **High performance with noiseless**
IEI supports noiseless situation for the user having quiet and high performance simultaneously.

Environment Temperature (°C)

High Performance With Light Fanless

Smart-Fan Mode

Light Fanless Mode

iCMC Setting (default: 32°C)

IEI Light Fanless Application



Patient Bedside Entertainment System



Clean room



Semi-outdoor kiosk

iCMC (IEI Cooling Management Console)



IEI's exclusive software system provides embedded features for system integrator. Supporting reliability and simplify integration for AFL2 PPC series, moving from the BIOS level to the system level.



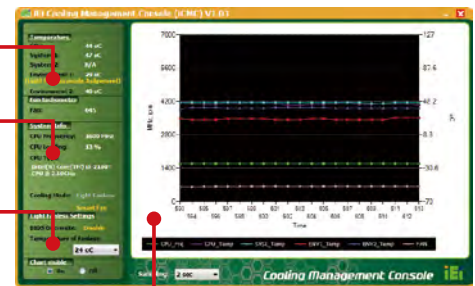
Real-time Monitoring



CPU Information



Light Fanless Settings



Graphical Data

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IEI Mobile Solutions

LED Light Visual Management

2

Automation Panel Solutions



Features

- LED 256 programmable colors
- Signaling light display user demand
- Manual scripts for LED lighting programs
- 100% software programmable for colors, light duration, and light patterns
- Totally 34 light sections for AFL2-W19A-H61 and AFL2-W21A-H61; 30 light sections for AFL2-17A-H61; each light section can be configured independently.

Function Button

30/34 light buttons

Access Key

Scripts

Full Colors

Display time adjustment

Support LED Light Bar control API for the customer to suit their own software program. Light bar signal are correspond to the light button. User can customize their own necessary to suit different condition.

3

RISC-based Solutions

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PACSmate Medical Solutions

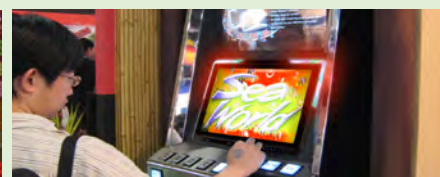
LED Dash Board for Visual Alarm System/Status Notification!!



Helping product line to be fluent



Browsing medical list to be convenient



Showing appealing light simulation

5

Optional Peripherals

AFOLUX II 7"~10" Selection Guide




	Model	AFL2-W07A-N26	AFL2-08A-N26	AFL2-W10A-N28	AFL2-10A-N28
LCD Specifications	Size	Wide 7"	8"	Wide 10.2"	10.4"
	Resolution	800 (W) x 480 (H)	800 (W) x 600 (H)	1024 (W) x 600 (H)	800 (W) x 600 (H)
	Brightness (cd/m ²)	400 cd/m ²	250 cd/m ²	400 cd/m ²	400 cd/m ²
	Contrast Ratio	500:1	500:1	400:1	700:1
	LCD Color	262K/16.2M	16.2 M	262K	262K/16.2M
	Pixel Pitch (mm)	0.1905(H) x 0.1905(V)	0.2025(H) x 0.2025(V)	0.2175 (H) x 0.2275 (V)	0.264 (H) x 0.264 (V)
	Viewing Angle (H-V)	160°(H) / 160°(V)	140°(H) / 130°(V)	140°(H) / 120°(V)	160°(H) / 140°(V)
	Backlight MTBF	30000 hrs (LED backlight)	30000 hrs (LED backlight)	30000 hrs (LED backlight)	30000 hrs (LED backlight)
System	CPU	Intel® Atom™ N2600 dual core 1.6 GHz CPU		Intel® Atom™ N2800 dual core 1.86 GHz CPU	
	Chipset	Intel® NM10			
	RAM	Support One 800 MHz 204-pin DDR3 SO-DIMM slot (max. 2GB) pre-installed with 2GB		Support One 1066MHz 204-pin DDR3 SO-DIMM slot (max. 4GB) pre-installed with 2GB	
	Ethernet	Realtek RTL8111E PCIe GbE controller support ASF2.0			
	SSD	PCIe mSATA		2.5" SATA 2.0 HDD bay	
	Input / Output	1 x RS-232 COM Port (DB-9) 1 x 422/485 COM Port (RJ-11) 1 x GbE LAN (RJ-45) 2 x USB2.0 2 x USB3.0 1 x Audio jack 1 x Display port	1 x Mini USB 2.0 port on front panel 1 x Micro SD card slot on front panel 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x DC input jack	1 x RS-232 COM Port (DB-9) 1 x RS-232 COM Port (RJ-45) 1 x RS-422/485 COM Port (RJ-45) 1 x GbE LAN (RJ-45) 2 x USB 2.0 2 x USB 3.0 1 x Audio jack 1 x Display port	1 x Mini USB 2.0 port on front panel 1 x Micro SD card slot on front panel Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x DC input jack
	Expansion Interface	1 x PCIe by 1 for Wi-Fi		1 x PCIe by 1 for Wi-Fi	
	Other Features	Audio	AMP 0.8 W + 0.8 W		AMP 1.5 W + 1.5 W
Microphone		Digital Microphone		2M pixels with low light function, digital microphone	
RFID Reader		EM 125 KHz or Mifare 13.56 MHz card reader (optional)			
MSR Card Reader		MSR card reader (optional)			
OSD Function		LCD on/off, brightness up/down, volume up/down, hotkey			
Ambient Light Sensor		Yes			
Infrared Remote Controller		Yes			
Touch Screen		5-wire resistive type			
Wireless		1 x Wireless LAN 802.11b/g/n 2T2R module (internal PCIe Mini card interface)	1 x Wireless LAN 802.11b/g/n 2T2R module (internal PCIe Mini card interface) (Optional, internal USB interface, Bluetooth V2.0+EDR)	1 x Wireless LAN 802.11 b/g/n 2T2R module (internal PCIe Mini card interface) (Optional, internal USB interface, Bluetooth V2.0+EDR)	
Physical	Construction Front Panel	PC + ABS plastic front frame			
	Mounting	Wall, Panel, Stand and VESA 75 mm x 75mm			
	Color	Black			
	Dimensions (mm)	208 (W) x 158.5 (H) x 45.9 (D)	215 (W) x 188 (H) x 46 (D)	280 (W) x 198 (H) x 51(D)	282.5 (W) x 242.7 (H) x 51 (D)
	Weight (N/G)	1.12 kg / 2.08 kg	1.43 kg / 2.2 kg	2.5 kg / 4.02 kg	2.98 kg / 4.5 kg
Environment	Operating Temperature (°C) (Ambient with air flow)	-20°C ~ 40°C		-20°C ~ 45°C	
	Storage Temperature (°C)	-20°C ~ 60°C			
	Humidity	10% to 95% (non-condensing)			
	IP Level	Front panel IP 64			
	Safety&EMC	CE / FCC			
Power	Power Supply	36W adapter Input: 90VAC~264VAC, 50/60 Hz, Output: 12VDC		60W power adapter, Input: 90VAC~264VAC, 50/60 Hz, Output: 12VDC	
	Power Requirement	9 ~ 36 VDC			
	Power Consumption	19V@1.1A (Intel® Atom™ N2600 CPU with 2GB DDR3 memory)	19V@1.1A (Intel® Atom™ N2600 CPU with 2GB DDR3 memory)	19V@1.5A (Intel® Atom™ N2800 CPU with 2GB DDR3 memory)	19V@1.6A (Intel® Atom™ N2800 CPU with 2GB DDR3 memory)

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IEI Mobile Solutions

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Optional Peripherals

AFOLUX II 12.1"~15" Selection Guide



	Model	AFL2-12A-D525	AFL2-12A-HM65	AFL2-W15A-N270	AFL2-15A-H61
LCD Specifications	Size	12.1"		Wide 15.6" TFT LCD	15" (4:3)
	Resolution	1024 (W) x 768 (H)		1366 (W) x 768 (H)	1024 (W) x 768 (H)
	Brightness (cd/m ²)	600		250	400
	Contrast Ratio	700:1		500:1	700:1
	LCD Color	16.2 M		16.2 M	262K/16.2M
	Pixel Pitch (mm)	0.240 (H) x 0.240 (V)		0.252 (H) x 0.252 (V)	0.297 (H) x 0.297 (V)
	Viewing Angle (H-V)	160° / 140°		110° / 85°	160° / 140°
	Backlight MTBF	50000 hrs (LED backlight)		50,000 (LED backlight)	50,000 hrs (LED backlight)
System	CPU	Intel® Atom™ D525 1.8GHz dual core processor	2nd Generation Intel® Core™ i7/ i5/ i3 and Celeron® processor	Intel® Atom™ processor N270 1.6 GHz CPU	2nd Generation Intel® Core™ i5/ i3, Pentium® processor
	Chipset	Intel® ICH8M	Intel® HM65	Intel® 945GSE + ICH7M	Intel® H61
	RAM	Support one 204-pin DDR3 SO-DIMM slot (max. 4GB)		Support one 400 MHz or 533 MHz DDR2 SO-DIMM (2 GB max.)	Support two 204-pin DDR3 SO-DIMM slot (system max. 16GB) preinstalled with 4GB (2GB x 2)
	Ethernet	Realtek RTL8111E PCIe GbE controller supports ASF 2.0			
	SSD	CF Type II socket	N/A	CF Type II	CF Type II socket
	HDD	2.5" SATA 3Gb/s SSD bay	2.5" SATA 6Gb/s SSD bay	1 x 2.5" SATA HDD Bay	2.5" SATA 3Gb/s HDD bay
	Input / Output	1 x RS-232 (DB-9 connector) 1 x RS-232 (RJ-45 connector) 1 x RS-422/485 (4-pin box header) 2 x GbE LAN (RJ-45 connector) 4 x USB 2.0 1 x Mini USB 2.0 port on front panel 1 x Audio jack (line-out) 1 x VGA port (DB-15 connector) 1 x Micro SD card slot on front panel 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x DC input jack	1 x RS-232 (DB-9 connector) 1 x RS-232 (RJ-45 connector) 1 x RS-422/485 (4-pin box header) 1 x GbE LAN (RJ-45 connector) 2 x USB 2.0 2 x USB 3.0 1 x Mini USB 2.0 port on front panel 1 x Audio jack (line-out) 1 x HDMI port 1 x Micro SD card slot on front panel 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x DC input jack	1 x RS-232 COM port 1 x RS-232/422/485 COM port 1 x RJ-45 for GbE LAN 2 x USB 2.0 1 x Power switch 1 x Reset button 1 x Audio port (Line out) 1 x VGA 1 x Power jack 1 x External SATA 1 x 8-bit digital I/O, 4-bit input/4-bit output (optional)	2 x RS-232 (DB-9 connector) 1 x GbE LAN (RJ-45 connector) on left side 1 x RS-422/485 (RJ-45 connector) 3 x USB 2.0 (two on the bottom, one on the left) 2 x USB 3.0 1 x Mini USB port on front panel 1 x Micro SD card slot on front panel 1 x Line out, MIC on left side 1 x VGA port 1 x HDMI port 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x 9 ~ 36V DC jack
	Expansion Interface	1 x PCIe Mini slot for Wi-Fi 1 x PCIe Mini slot reserved supporting mSATA			1 x PCIe Mini slot for Wi-Fi, 1 x PCIe Mini slot reserved
	Audio	AMP 3W + 3W (internal speaker)		AMP 1.5 W + 1.5 W (internal speaker)	AMP 2W + 2W (internal speaker)
	Camera	1.3 megapixels with low light function			
Other Features	RFID Reader	EM 125 KHz or Mifare 13.56 MHz card reader (optional)			EM 125 KHz or Mifare 13.56 MHz card reader (optional)
	MSR Card Reader	MSR card reader (optional)			
	OSD Function	LCD on/off, brightness up/down, volume up/down, Hot Key			
	Ambient Light Sensor	Yes			
	Infrared Remote Controller	Yes	LCD on/off, brightness up/down, volume up/down		Yes
	Touch Screen	5-wire resistive type or projected capacitive type touch screen		Projected capacitive type flat touch screen/ Resistive type 5-wire flat touch screen	5-wire resistive type or projected capacitive type touch screen
	System Cooling	Fanless	Smart fan		N/A
Wireless	1 x Wireless LAN 802.11 b/g/n 2T2R module (internal PCIe Mini card interface) (Optional, internal USB interface, Bluetooth V2.0+EDR)		1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini card interface)	1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini card interface) (optional internal USB interface, Bluetooth V2.0+EDR)	
Physical	Construction Front Panel	PC + ABS Plastic		PC + ABS plastic front frame	PC + ABS Plastic
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100 mm x 100 mm		VESA 100 mm x 100 mm	Wall, Stand, Arm VESA 100mm x 100mm
	Color	Black			
	Dimensions (WxHxD) (mm)	310 x 265 x 52.6		400 x 267 x 54	363.2 x 305.1 x 58.8
	Weight (N/G)	3.2 kg / 5.5 kg		3.8 kg / 6.1 kg	3.8 kg 5.2 kg / 7.3 kg
Environment	Operating Temperature (°C) (Ambient with air flow)	-20°C ~ 50°C		-10°C ~ 50°C	-20°C ~ 50°C
	Storage Temperature (°C)	-20°C ~ 60°C			
	Humidity	10% to 95% (non-condensing)			
	IP Level	IP 64 compliant front panel			
Power	Safety&EMC	CE / FCC			
	Power Supply	60W power adapter Input: 100VAC~240VAC, 50/60 Hz Output: 19VDC	90W power adapter Input: 100VAC~240VAC, 50/60Hz Output: 19VDC	60W power adapter Input: 90VAC~264VAC, 50/60 Hz Output: 12VDC	90W power adapter Input: 100 V AC ~ 240 V AC, 50 / 60Hz, Output: 19 V DC
	Power Requirement	9 ~ 36 VDC		12VDC	
	Power Consumption	19W@2.2A (Intel® ATOM™ D525 CPU with 800MHz 2GB DDR3 memory)	19W@2.68A (Intel® Core™ i5-2510E processor with 4GB DDR3 memory)	12V@4.25A (Intel® ATOM™ N270 CPU with 667MHz 2GB DDR2 memory)	19W@3.42A (Intel® Core™ i3-2100T CPU with 4GB 1333 Mhz DDR3 memory)

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmart Medical Solutions

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Optional Peripherals

AFOLUX II

15"~21.5" Selection Guide



Model	AFL2-W15B-H61	AFL2-17A-H61	AFL2-W19A-H61	AFL2-W21A-H61	
LCD Specifications	Size	15.6" (16:9)	17" (4:3)	W18.9" (16:10)	21.5" (16:9)
	Resolution	1366 (W) x 768 (H)	1280 (W) x 1024 (H)	1440 (W) X 900 (H)	1920(W) x 1080(H)
	Brightness (cd/m ²)	300	350	250	250
	Contrast Ratio	500:1	1000:1	1000:1	1000 : 1
	LCD Color	16.7M	16.7M	16.7M	16.7M
	Pixel Pitch (mm)	0.252 (H) x 0.252 (V)	0.264 (H) x 0.264 (V)	0.2835 (H) x 0.2835 (V)	0.248mm x 0.248mm
	Viewing Angle (H-V)	170° / 160°	170° / 160°	170° / 160°	165° / 165°
	Backlight MTBF	50,000 hrs (LED backlight)	50,000 (LED backlight)	30,000 (LED backlight)	30000 (LED backlight)
System	CPU	2nd/3rd Generation of Intel®Core™ i5/i3, and Pentium® processors			
	Chipset	Intel® H61			
	RAM	Support two 204-pin DDR3 SO-DIMM slot (system Max. 16GB) preinstalled with 4GB (2GB x 2)			Support two 204-pin DDR3 SO-DIMM slots (System Max. 16GB)
	Ethernet	Realtek RTL8111E PCIe GbE controller supports ASF 2.0	Realtek RTL8111E PCIe GbE controller supports ASF 2.0		Realtek RTL8111E PCIe GbE controller supporting ASF 2.0 and Wake on LAN (default: on)
	SSD	CF Type II socket	N/A		N/A
	HDD	2.5" SATA 3Gb/s HDD bay			
	CD-ROM	N/A	1 x Slim Type CD-ROM bay		CD-ROM 1 x Slim Type CD-ROM bay
	Input / Output	2 x RS-232 (DB-9 connector) 1 x GbE LAN (RJ-45 connector) on left side 1 x RS-422/485 (RJ-45 connector) 3 x USB 2.0 (two on the bottom, one on the left) 2 x USB 3.0 1 x Mini USB port on front panel 1 x Micro SD card slot on front panel 1 x Line out, MIC on left side 1 x VGA port 1 x HDMI port 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x 9 ~ 36V DC jack	2 x RS-232 (DB-9 connector) 1 x RS-422/485 (DB-9 connector) 2 x GbE LAN (one on the bottom, one on the left) 2 x USB 3.0 3 x USB 2.0 (two on the bottom, one on the left) 1 x Mini USB port on front panel 1 x Micro SD card slot on front panel	1 x Line-out, Mic (on the left) 1 x VGA port DB-15 connector) 1 x HDMI port 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x 9 ~ 36V DC input jack	2 x RS232 (DB-9 Connector) 1 x RS422/485 COM Port (DB-9 connector) 2 x GbE LAN (RJ-45 connector) 3 x USB 2.0 2 x USB 3.0 1 x HDMI on bottom side 1 x Line out/MIC on left side 1 x VGA port (DB-15 Connector) 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Clear CMOS button 1 x K-Type 1 x 9~36V DC jack
		Expansion Interface	1 x PCIe Mini slot for Wi-Fi, 1 x PCIe Mini slot reserved		
	Other Features	Audio	AMP 2W + 2W (internal speaker)		
Camera		2 M pixels with low light function			
RFID Reader		EM 125 KHz or Mifare 13.56 MHz card reader (optional)			
MSR Card Reader		MSR card reader (optional)			
TPM		Reserved by pin-header			
OSD Function		LCD on/off, brightness up/down, volume up/down, Hot Key			
Ambient Light Sensor		Yes			
Infrared Remote Controller		Yes			
Touch Screen		5-wire resistive type or projected capacitive type touch screen			
LED Light Bar		N/A	Yes		Yes
System Cooling	Light fanless (smart fan operates above default temperature setting)				
Wireless	1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini card interface) 1 x Bluetooth function (optional internal USB interface, Bluetooth V2.0+EDR)				
Physical	Construction Front Panel	PC + ABS Plastic			
	Mounting	Panel, Wall, Rack, Stand, Arm VESA 100mm x 100mm	Panel, Wall, Rack, Stand, Arm VESA 100mm x 100mm	Panel, Wall, Stand, Arm VESA 100mm x 100mm	Wall, Panel, Stand and VESA 100 mm x 100mm
	Color	Black			
	Dimensions (WxHxD)(mm)	399.4 x 271.2 x 58.8	418 x 378 x 65	488 x 361 x 65	540 x 362 x 65, without LED Light Bar 600 x 360 x 65 , withLED Light Bar
	Weight (N/G)	4.5 kg / 6.5 Kg	6.9 kg / 9.0 kg	7.3 kg / 10 Kg	6.9 Kg / 9 Kg (without LED Light Bar) 7.3 Kg / 9.4 Kg (with LED Light Bar)
Environment	Operating Temperature (°C) (Ambient with air flow)	-20°C ~ 50°C	-20°C ~ 40°C		-10°C ~ 50°C
	Storage Temperature (°C)	-20°C ~ 60°C			
	Humidity	10% to 95% (non-condensing)			
	IP Level	IP 64 compliant front panel			
	Safety&EMC	CE / FCC			
Power	Power Supply	90W power adapter Input:100 V AC ~ 240 V AC, 50 / 60Hz, Output: 19 V DC	120W power adapter Input:100 V AC ~ 240 V AC, 50 / 60Hz, Output: 19 V DC		
	Power Requirement	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC
	Power Consumption	(Intel® Core™ i3-2120 CPU with 4GB 1333 Mhz DDR3 memory)	(Intel® Core™ i7-2600S CPU with 4GB 1333 Mhz 4GB DDR3 memory)	(Intel® Core™ i7-2600S CPU with 4GB 1333 Mhz 4GB DDR3 memory)	

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- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

AFL2-W07A-N26

Intel® Atom™ N2600 Dual Core Solution



AFL2-08A-N26

Intel® Atom™ N2600 Dual Core Solution



AFL2-W07A-N26

Features

- Flat-bezel LCD with LED backlight
- Intel® Atom™ N2600 dual core 1.6 GHz processor
- One 800 MHz 204-pin DDR3 SO-DIMM slot (system max. 2GB) pre-installed with 2GB
- 5-wire resistive type touch screen supported
- Wi-Fi 802.11b/g/n 2T2R high speed wireless
- EM or Mifare RFID reader
- IP64 compliant front panel
- Auto dimming control



Specifications

	Model	AFL2-W07A-N26	AFL2-08A-N26	
LCD Specifications	Size	Wide 7"	8"	
	Resolution	800 (W) x 480 (H)	800 (W) x 600 (H)	
	Brightness (cd/m ²)	400 cd/m ²	250 cd/m ²	
	Contrast Ratio	500:1	500:1	
	LCD Color	262K/16.2M	16.2 M	
	Pixel Pitch (mm)	0.1905(H) x 0.1905(V)	0.2025(H) x 0.2025(V)	
	Viewing Angle (H-V)	160°(H) / 160°(V)	140°(H) / 130°(V)	
	Backlight MTBF	30000 hrs (LED backlight)	30000 hrs (LED backlight)	
System	CPU	Intel® Atom™ N2600 dual core 1.6 GHz CPU		
	Chipset	Intel® NM10		
	RAM	Support One 800 MHz 204-pin DDR3 SO-DIMM slot (max. 2GB) pre-installed with 2GB		
	Ethernet	Realtek RTL8111E PCIe GbE controller support ASF2.0		
	SSD	PCIe mSATA		
	Input / Output		1 x RS-232 COM Port (DB-9) 1 x 422/485 COM Port (RJ-11) 1 x GbE LAN (RJ-45) 2 x USB2.0 2 x USB3.0 1 x Audio jack 1 x Display port	1 x Mini USB 2.0 port on front panel 1 x Micro SD card slot on front panel 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x DC input jack
		Expansion Interface	1 x PCIe by 1 for Wi-Fi	
	Other Features	Audio	AMP 0.8 W + 0.8 W	
		Microphone	Digital Microphone	
		RFID Reader	EM 125 KHz or Mifare 13.56 MHz card reader (optional)	
MSR Card Reader		MSR card reader (optional)		
OSD Function		LCD on/off, brightness up/down, volume up/down, hotkey		
Ambient Light Sensor		Yes		
Infrared Remote Controller		Yes		
Wireless	Touch Screen	5-wire resistive type		
	System Cooling	Fanless		
Physical	Wireless	1 x Wireless LAN 802.11b/g/n 2T2R module (internal PCIe Mini card interface)	1 x Wireless LAN 802.11b/g/n 2T2R module (internal PCIe Mini card interface) (Optional, internal USB interface, Bluetooth V2.0+EDR)	
	Construction Front Panel	PC + ABS plastic front frame		
		Mounting	Wall, Panel, Stand and VESA 75 mm x 75mm	
	Physical	Color	Black	
		Dimensions (WxHxD)(mm)	208 x 158.5 x 45.9	215 x 188 x 46
		Weight (N/G)	1.12 kg / 2.08 kg	1.43 kg / 2.2 kg
Environment	Operating Temperature (°C) (Ambient with air flow)	-20°C ~ 40°C		
	Storage Temperature (°C)	-20°C ~ 60°C		
	Humidity	10% to 95% (non-condensing)		
	IP Level	Front panel IP 64		
	Safety&EMC	CE / FCC		
Power	Power Supply	36W power adapter Input: 90VAC~264VAC, 50/60 Hz, Output: 12VDC		
	Power Requirement	9 ~ 36 VDC		
	Power Consumption	19V@1.1A (Intel® Atom™ N2600 CPU with 2GB DDR3 memory)	19V@1.1A (Intel® Atom™ N2600 CPU with 2GB DDR3 memory)	

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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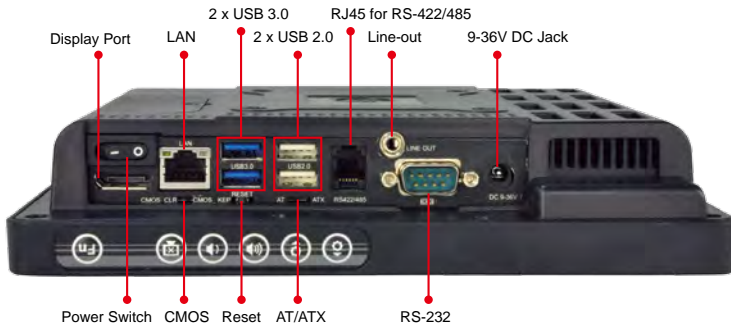
PACSmate Medical Solutions

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Optional Peripherals

Rich I/O Interface

AFL2-W07A-N26
AFL2-08A-N26



1 x Mini USB port
1 x Micro SD card slot

- Fn
- Backlight On/Off
- Audio -
- Audio +
- Brightness -
- Brightness +
- RFID Enable/Disable
- Audio Mute
- Camera Enable/Disable
- Front Side USB Enable/Disable
- Power On / Off

Options

Item	AFL2-W07A-N26	AFL2-08A-N26
Panel Mounting Kit		AFL2PK-08A
Wall Mounting Kit		AFLWK-12
Rack Mounting Kit	AFL2RK-W07A	AFL2RK-08A
Stand		STAND-A08/STAND-B08/STAND-C12
V-stand		VSTAND-A07
Hybrid Card Reader		AFL2P-08AMSI-U-R10
Magnetic stripe reader		AFL2P-08AMSR-U-R10
Bluetooth Module Kit		AFL2-BT-KIT01-R11
EM RFID Reader		AFL2-EM-RFID-KIT01-R10
Mifare RFID Reader		AFL2-MF-RFID-KIT02-R10
OS: Win XPE (CD-ROM)		AFL2-W07A-CV-XPE-R10
OS: Linux (CD-ROM)		AFL2-W07A-CV-LNX-R10
OS: Win 7 Embedded (DVD-ROM)		AFL2-W07A-CV-WES7P-R10 (for Projected Capacitive Touch) AFL2-W07A-CV-WES7E-R10 (for Resistive Touch)

Packing List

Item	P/N	Q'ty	Description
Utility CD		1	drivers and user manual
One Key Recovery CD		1	
Power adapter		1	
Power cord	32702-000200-100-RS	1	European standard, 1830mm
Power transfer cord	32702-000300-100-RS	1	
RJ-11 to DB-9 COM port cable		1	
IR Remote Controller	7Z000-SLPCB001-RS	1	
Pen	43125-0002C0-00-RS	1	For Resistive Touch

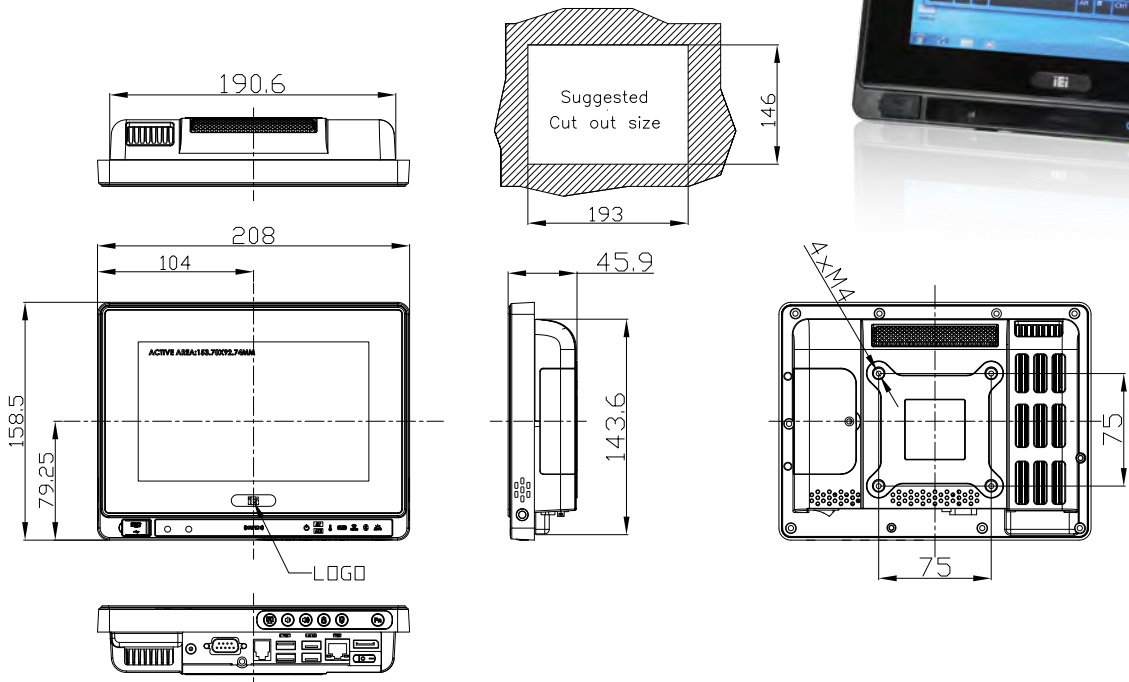
Ordering Information

Part No.	Description
AFL2-W07A-N26/R/2G-R10	7" 350 cd/m ² WVGA fanless panel PC with Intel® Atom™ cedarview N2600 dual core 1.6GHz, 802.11b/g/n wireless module, resistive touch screen, microphone, 2GB DDR3 RAM, R10
AFL2-08A-N26/R/2G-R10	8" 250 cd/m ² SVGA fanless panel PC with Intel® Atom™ cedarview N2600 dual core 1.6GHz, 802.11b/g/n wireless module, resistive touch screen, microphone, 2GB DDR3 RAM, R10

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- 5 Optional Peripherals

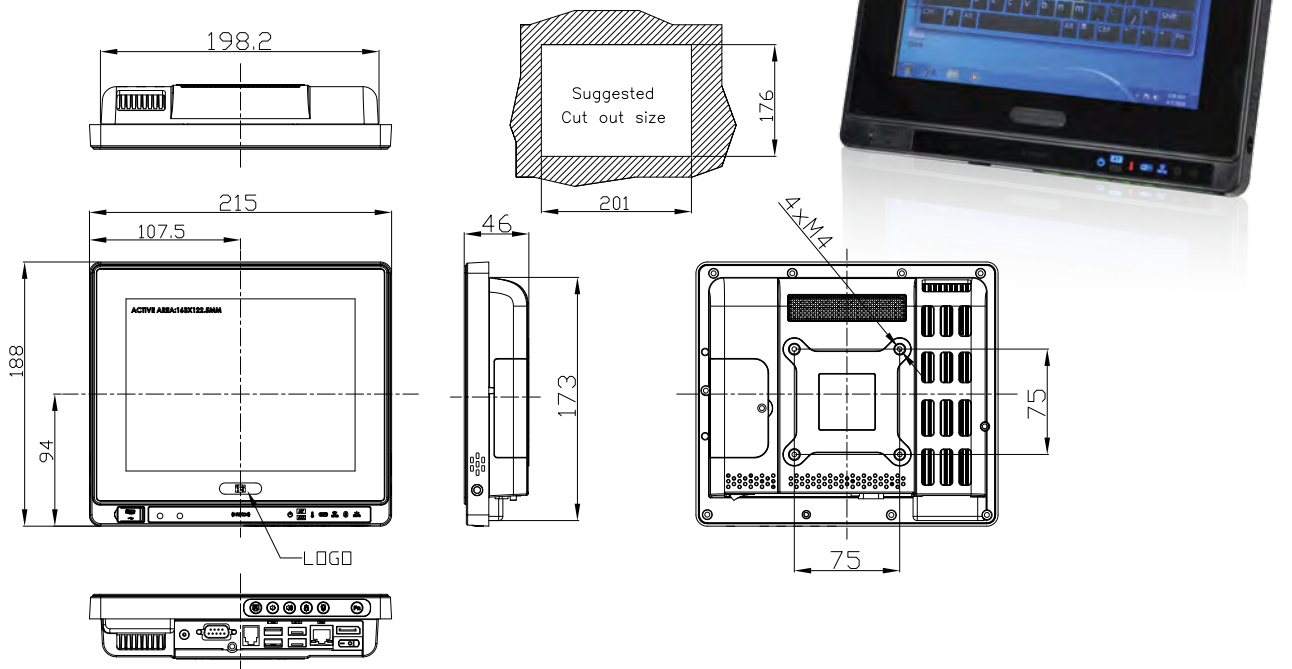
AFL2-W07A Dimensions

(Unit: mm)



AFL2-08A Dimensions

(Unit: mm)



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Optional Peripherals

AFL2-W10A-N28

Intel® Atom™ N2800 Dual Core Solution



AFL2-10A-N28

Intel® Atom™ N2800 Dual Core Solution



AFL2-W10A-N28

Features

- Flat-bezel LCD with LED backlight
- Intel® Atom™ N2800 dual core 1.86 GHz processor
- One 1066 MHz 204-pin DDR3 SO-DIMM slot (system max. 4GB) pre-installed with 2GB
- 5-wire resistive type touch screen supported
- Wi-Fi 802.11b/g/n 2T2R high speed wireless
- EM or Mifare RFID reader
- Built-in 2M pixels webcam with AF, AE and AWB capabilities
- Built-in two 1.5W speakers and microphone
- IP 64 compliant front panel



Specifications

Model	AFL2-W10A-N28	AFL2-10A-N28	
LCD Specifications	Size	Wide 10.2"	10.4"
	Resolution	1024 (W) x 600 (H)	800 (W) x 600 (H)
	Brightness (cd/m ²)	400 cd/m ²	400 cd/m ²
	Contrast Ratio	400:1	700:1
	LCD Color	262K	262K/16.2M
	Pixel Pitch (mm)	0.2175 (H) x 0.2275 (V)	0.264 (H) x 0.264 (V)
	Viewing Angle (H-V)	140°(H) / 120°(V)	160°(H) / 140°(V)
	Backlight MTBF	30000 hrs (LED backlight)	30000 hrs (LED backlight)
System	CPU	Intel® Atom™ N2800 dual core 1.86 GHz CPU	
	Chipset	Intel® NM10	
	RAM	Support one 1066MHz 204-pin DDR3 SO-DIMM slot (max. 4GB) pre-installed with 2GB	
	Ethernet	Realtek RTL8111E PCIe GbE controller support ASF2.0	
	HDD	2.5" SATA 2.0 HDD bay	
	Input / Output	1 x RS-232 COM Port (DB-9) 1 x RS-232 COM Port (RJ-45) 1 x RS-422/485 COM Port (RJ-45) 1 x GbE LAN (RJ-45) 2 x USB 2.0 2 x USB 3.0 1 x Audio jack 1 x Display port	1 x Mini USB 2.0 port on front panel 1 x Micro SD card slot on front panel 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x DC input jack
	Expansion Interface	1 x PCIe by 1 & USB 2.0 for Wi-Fi	
Other Features	Audio	AMP 1.5 W + 1.5 W	
	Camera	2M pixels with low light function, digital microphone	
	RFID Reader	EM 125 KHz or Mifare 13.56 MHz card reader (optional)	
	MSR Card Reader	MSR card reader (optional)	
	OSD Function	LCD on/off, brightness up/down, volume up/down, hotkey	
	Touch Screen	5-wire resistive type	
Wireless	System Cooling	Fanless	
		1 x Wireless LAN 802.11 b/g/n 2T2R module (internal PCIe Mini card interface) (Optional, internal USB interface, Bluetooth V2.0+EDR)	
Physical	Construction Front Panel	PC + ABS plastic front frame	
	Mounting	Wall, Rack, Stand and Arm VESA 75mm x 75mm	
	Color	Black	
	Dimensions (WxHxD) (mm)	280 x 198 x 51	282.5 x 242.7 x 51
Environment	Weight (N/G)	2.5 kg / 4.02 kg	2.98 kg / 4.5 kg
	Operating Temperature (°C) (Ambient with air flow)	-20°C ~ 45°C	
Power	Storage Temperature (°C)	-20°C ~ 60°C	
	Humidity	10% to 95% (non-condensing)	
	IP Level	IP 64 compliant front panel	
	Safety&EMC	CE / FCC	
	Power Supply	60W power adapter, Input: 90VAC~264VAC, 50/60 Hz, Output: 12VDC	
Power	Power Requirement	9 ~ 36 VDC	
	Power Consumption	19V@1.5A (Intel® Atom™ N2800 CPU with 2GB DDR3 memory)	19V@1.6A (Intel® Atom™ N2800 CPU with 2GB DDR3 memory)

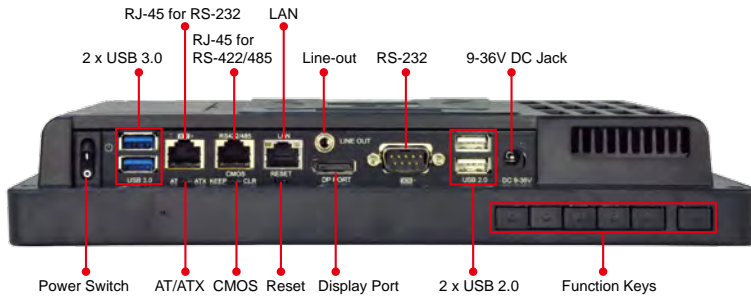
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Rich I/O Interface

AFL2-W10A-N28
AFL2-10A-N28



1 x Mini USB port
1 x Micro SD card slot



- Fn
- Backlight On/Off
- Audio -
- Audio +
- Brightness -
- Brightness +
- Fn + Backlight On/Off
- Fn + Audio Mute
- Fn + Camera Enable/Disable
- Fn + Front Side USB Enable/Disable
- Fn + Power On / Off

Options

Item	AFL2-W10A-N28	AFL2-10A-N28
Panel Mounting Kit		AFL2PK-10A
Wall Mounting Kit		AFLWK-12
Rack Mounting Kit	AFL2RK-W10A	AFL2RK-10A
Stand		STAND-C12/STAND-B19
V-stand		VSTAND-A10
Hybrid Card Reader		AFL2P-12AMSI-U-R10
Magnetic Stripe Reader		AFL2P-12AMSR-U-R10
Bluetooth Module Kit		AFL2-BT-KIT01-R11
EM RFID Reader		AFL2-EM-RFID-KIT01-R10
Mifare RFID Reader		AFL2-MF-RFID-KIT02-R10
OS: Win XPE (CD-ROM)		AFL2-W10A-CV-XPE-R10
OS: Linux (CD-ROM)		AFL2-W10A-CV-LNX-R10
OS: Win 7 Embedded (DVD-ROM)		AFL2-W10A-CV-WES7P-R10 (for Projected Capacitive Touch) AFL2-W10A-CV-WES7E-R10 (for Resistive Touch)

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Optional Peripherals

Packing List

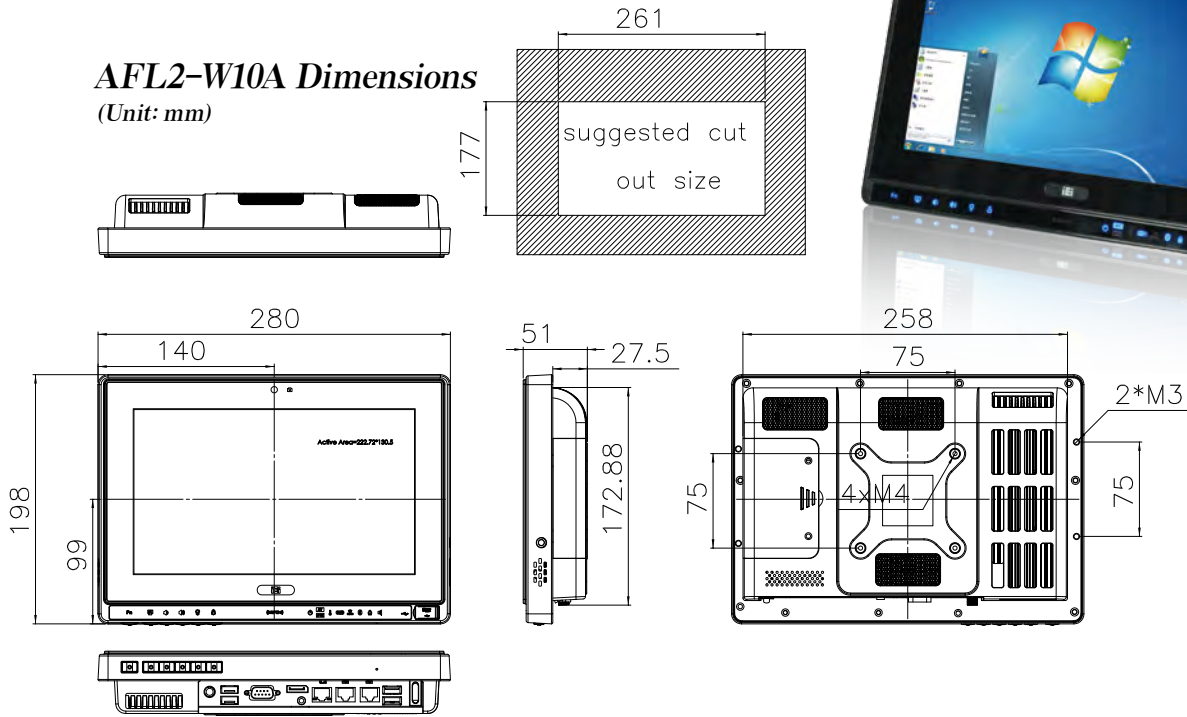
Item	P/N	Q'ty	Description
Utility CD		1	drivers and user manual
One Key Recovery CD		1	
Power adapter		1	
Power cord	32702-000200-100-RS	1	European standard, 1830mm
Power transfer cord	32702-000300-100-RS	1	

Ordering Information

Part Number	Description
AFL2-W10A-N28/R/2G-R10	10.2" 400cd/m ² WSVGA fanless panel PC with Intel® Atom™ cedarview N2800 dual core 1.86GHz, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, 2GB DDR3 RAM, R10
AFL2-10A-N28/R/2G-R10	10.4" 400cd/m ² SVGA fanless panel PC with Intel® Atom™ cedarview N2800 dual core 1.86GHz, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, 2GB DDR3 RAM, R10

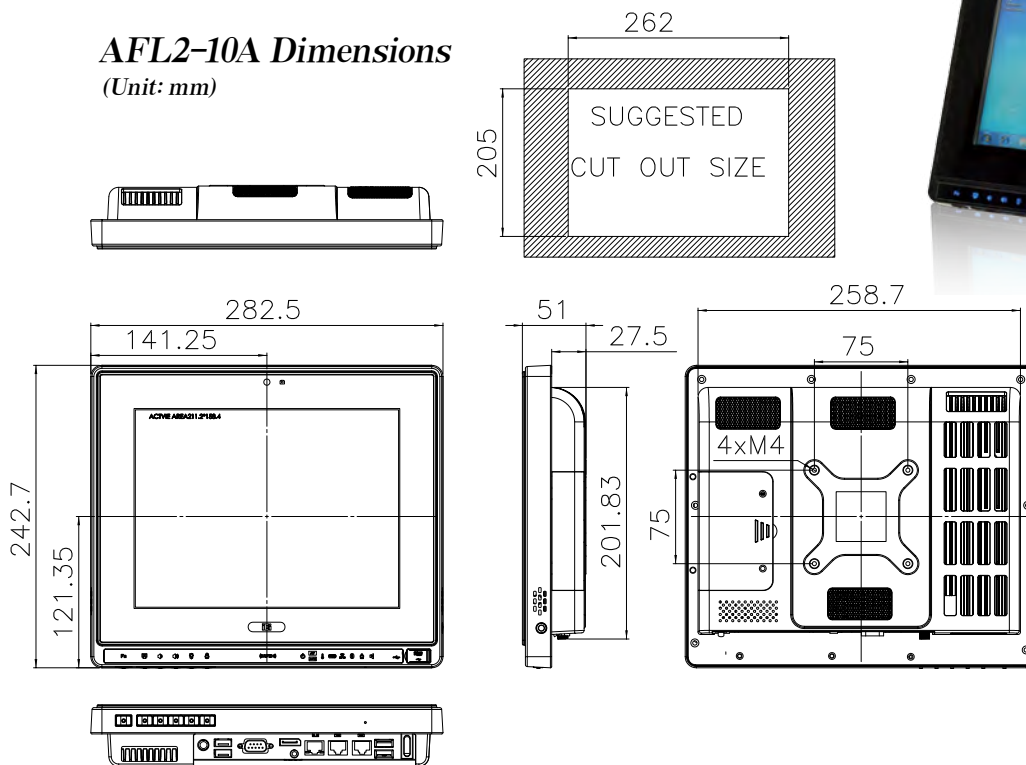
AFL2-W10A Dimensions

(Unit: mm)



AFL2-10A Dimensions

(Unit: mm)



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Optional Peripherals

AFL2-12A-HM65

Intel® 2nd Gen Core™ i7/i5/i3 Solution

AFL2-12A-D525

Intel® Atom™ D525 Dual Core Solution



Features

- 12.1" 600nits 1024 x 768 flat-bezel LCD with LED backlight
- Supports projected capacitive touchscreen or 5-wire resistive type touchscreen
- Built-in two 3W speakers and microphone
- GbE LAN for high speed network applications
- One 204-pin DDR3 SO-DIMM slot (system max. 4GB)
- Wi-Fi 802.11b/g/n 2T2R high speed wireless
- EM or Mifare RFID reader
- IP 64 compliant front panel
- Auto-dimming control
- Built-in 1.3 megapixels webcam with AF AE and AWB capabilities
- Wide range 9~36 VDC input



Specifications

	Model	AFL2-12A-D525	Fanless	AFL2-12A-HM65	
LCD Specifications	Size	12.1"			
	Resolution	1024 (W) x 768 (H)			
	Brightness (cd/m²)	600			
	Contrast Ratio	700:1			
	LCD Color	16.2 M			
	Pixel Pitch (mm)	0.240 (H) x 0.240 (V)			
	Viewing Angle (H-V)	160° / 140°			
Backlight MTBF	50000 hrs (LED backlight)				
System	CPU	Intel® Atom™ D525 1.8GHz dual core processor		2nd Generation Intel® Core™ i7/ i5/ i3 and Celeron® processor	
	Chipset	Intel® ICH8M		Intel® HM65	
	RAM	Support one 204-pin DDR3 SO-DIMM slot (Max. 4GB)			
	Ethernet	Realtek RTL8111E PCIe GbE controller supports ASF 2.0			
	SSD	CF Type II socket		N/A	
	HDD	2.5" SATA 3Gb/s SSD bay		2.5" SATA 6Gb/s SSD bay	
	Input / Output	1 x RS-232 (DB-9)	1 x VGA port (DB-15)	1 x RS-232 (DB-9)	1 x HDMI port
		1 x RS-232 (RJ-45)	1 x Micro SD card slot on front panel	1 x RS-232 (RJ-45)	1 x Micro SD card slot on front panel
		1 x RS-422/485 (4-pin box header)	1 x Power switch	1 x RS-422/485 (4-pin box header)	1 x Power switch
		2 x GbE LAN (RJ-45)	1 x AT/ATX switch	1 x GbE LAN (RJ-45)	1 x AT/ATX switch
Expansion Interface	4 x USB 2.0	1 x Reset button	2 x USB 2.0	1 x Reset button	
	1 x Mini USB 2.0 port on front panel	1 x Clear CMOS button	1 x Mini USB 2.0 port on front panel	1 x Clear CMOS button	
	1 x Audio jack (line-out)	1 x DC input jack	1 x Audio jack (line-out)	1 x DC input jack	
			1 x PCIe Mini slot for Wi-Fi		
Other Features	Audio	1 x PCIe Mini slot reserved supporting mSATA AMP 3W + 3W (internal speaker)			
	Camera	1.3 M pixels with low light function			
	RFID Reader	EM 125 KHz or Mifare 13.56 MHz card reader (optional)			
	MSR Card Reader	MSR card reader (optional)			
	OSD Function	LCD on/off, brightness up/down, volume up/down, Hot Key			
	Ambient Light Sensor	Yes			
	Infrared Remote Controller	Yes			
	Touch Screen	5-wire resistive type or projected capacitive type touch screen			
Wireless	System Cooling	Fanless		Smart fan	
		1 x Wireless LAN 802.11 b/g/n 2T2R module (internal PCIe Mini card interface) (Optional, internal USB interface, Bluetooth V2.0+EDR)			
Physical	Construction Front Panel	PC + ABS Plastic			
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100 mm x 100 mm			
	Color	Black			
	Dimensions (WxHxD)(mm)	310 x 265 x 52.6			
Environment	Weight (N/G)	3.2 kg / 5.5 kg		3.8 kg / 6.1 kg	
	Operating Temperature (°C) (Ambient with air flow)	-20°C ~ 50°C		-20°C ~ 50°C with SSD	
	Storage Temperature (°C)	-20°C ~ 60°C		-20°C ~ 60°C	
	Humidity	10% to 95% (non-condensing)			
	IP Level	IP 64 compliant front panel			
	Safety&EMC	CE / FCC			
Power	Power Supply	60W power adapter Input: 100VAC~240VAC, 50/60 Hz Output: 19VDC		90W power adapter Input: 100VAC~240VAC, 50/60Hz Output: 19VDC	
	Power Requirement	9 ~ 36 VDC			
	Power Consumption	19V@2.2A (Intel® ATOM™ D525 CPU with 800MHz 2GB DDR3 memory)		19V@2.68A (Intel® Core™ i5-2510E processor with 4GB DDR3 memory)	

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Optional Peripherals

Ordering Information

●AFL2-12A-D525

Part No.		Description
Resistive Touch Panel Screen	AFL2-12A-D525/R/1G-R12	12.1" 600cd/m ² XGA fanless panel PC with Intel® Atom™ D525 dual core 1.8GHz, 802.11b/g/n wireless module, resistive touch screen, 1.3 M camera, microphone, 1 GB DDR3 RAM, Dual GbE LAN, R12
Projective Capacitive Touch Screen	AFL2-12A-D525/PC/1G-R12	12.1" 600cd/m ² XGA fanless panel PC with Intel® Atom™ D525 dual core 1.8GHz, 802.11b/g/n wireless module, projected capacitive touchscreen, 1.3 M camera, microphone, 1 GB DDR3 RAM, Dual GbE LAN, R12

●AFL2-12A-HM65

Part No.		Description
Resistive Touch Screen	AFL2-12A-HM65/R-R11	12.1" 600cd/m ² XGA panel PC, 802.11b/g/n wireless module, resistive touch screen, 1.3M camera, microphone, Single GbE LAN, R11
Projective Capacitive Touch Screen	AFL2-12A-HM65/PC-R11	12.1" 600cd/m ² XGA panel PC, 802.11b/g/n wireless module, projected capacitive touchscreen, 1.3M camera, microphone, Single GbE LAN, R11
CPU Selection	CPU-MB-i7-2640M	2nd Generation Intel® Core™ i7 Processor [Mobile], PPGA-988, dual core 2.8GHz, 35W, iAMT
	CPU-MB-i5-2510E	2nd Generation Intel® Core™ i5 Processor [Mobile], PPGA-988, dual core 2.5GHz, 35W, iAMT
	CPU-MB-i3-2310M	2nd Generation Intel® Core™ i3 Processor [Mobile], PPGA-988, dual core 2.1GHz, 35W
	CPU-MB-CM-B810	Intel® Celeron® Mobile Processor, PPGA-988, dual core 1.6GHz, 35 W
	CPU-MB-CM-B710	Intel® Celeron® Mobile Processor, PPGA-988, single core 1.6GHz, 35 W
Memory Selection	DDR3-SO-1333-1GB	SO-DIMM DDR3 1333MHz 1GB
	DDR3-SO-1333-2GB	SO-DIMM DDR3 1333MHz 2GB
	DDR3-SO-1333-4GB	SO-DIMM DDR3 1333MHz 4GB

Options

Item	AFL2-12A-D525	AFL2-12A-HM65
Panel Mounting Kit	AFLPK-15	
Wall Mounting Kit	AFLWK-19/AFLWK-19B	
Rack Mounting Kit	AFL2RK-12	
Arm	ARM-11-RS	
Stand	STAND-A12/STAND-A19/STAND-B19/STAND-C12	
V-Stand	VSTAND-A12	
Hybrid Card Reader Kit	AFL2P-12AMSI-U-R10	
Bluetooth Module Kit	AFL2-BT-KIT01-R11	
Magnetic Stripe Reader Kit	AFL2P-12AMSR-U-R10	
EM RFID Reader	AFL2-EM-RFID-KIT01-R10	
Mifare RFID Reader	AFL2-MF-RFID-KIT02-R10	
OS: Win CE 6.0 (128MB CF Card)	AFL2CF-12-D525-CE060-128M-R10	AFL2-12A-HM65-CE060-R10*
OS: Win XPE (2GB CF Card)	AFL2CF-12-D525-XPE-2G-R10	AFL2-12A-HM65-XPE-R10*
OS: Win XPE (4GB CF Card)	AFL2CF-12-D525-XPE-4G-R10	AFL2-12A-HM65-XPE-R10*
OS: Linux (2GB CF Card)	AFL2CF-12-D525-LNX-2G-R10	AFL2-12A-HM65-LNX-R10*
OS: Win 7 Embedded (4GB CF Card)	AFL2CF-12-D525-WES7P-4G-R10 (for Projected Capacitive Touch) AFL2CF-12-D525-WES7E-4G-R10 (for Resistive Touch)	AFL2-12A-HM65-WES7P-R10* (for Projected Capacitive Touch) AFL2-12A-HM65-WES7E-R10* (for Resistive Touch)

*OS image with CD-ROM or DVD-ROM

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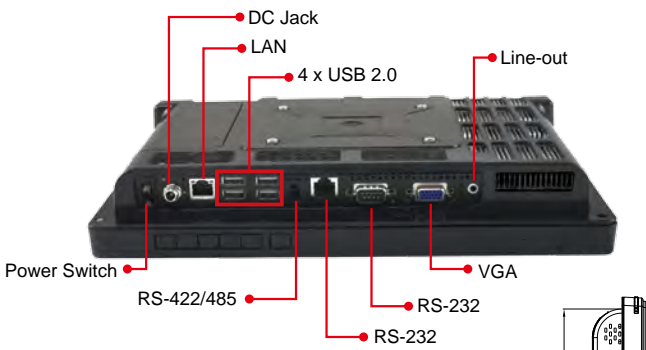
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Optional Peripherals

Packing List

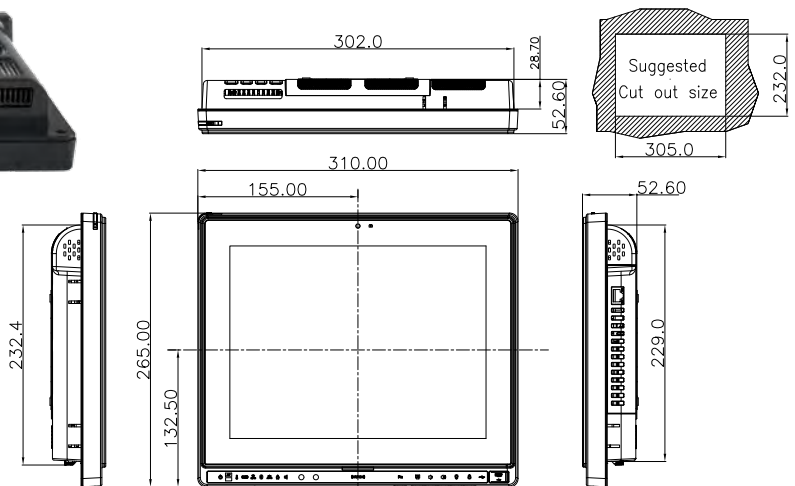
Item	P/N	Q'ty	Description
Utility CD		1	Drivers and user manual
One Key Recovery CD		1	
Power Adapter	63040-010065-010-RS (for AFL2-12A-D525) 63040-010090-030-RS (for AFL2-12A-HM65)	1	FSP065-RAB;90~264VAC input ; 65W ;19VDC output FSP090-D2BA1;90~264VAC input ; 90W ;19VDC output
Power Cord	32702-000401-100-RS	1	1500 mm, European Standard
Power Transfer Cord	32702-000300-100-RS	1	
M3 Screw Pack	44013-030041-RS	4	M3*4 for securing HDD
M4 Screw Pack	44403-040061-RS	4	M4*4 VESA screw
Touch Pen	43125-0002C0-00-RS	1	
RJ-45 to DB-9 COM Port Cable	32005-000200-200-RS	1	
IR Remote Controller	7Z000-SLPCB005-RS	1	
RS-422 Cable	32205-002400-100-RS	1	
Pen	43125-0002C0-00-RS	1	For Resistive Touch

Fully Integrated I/O



AFL2-12A-D525 Dimensions

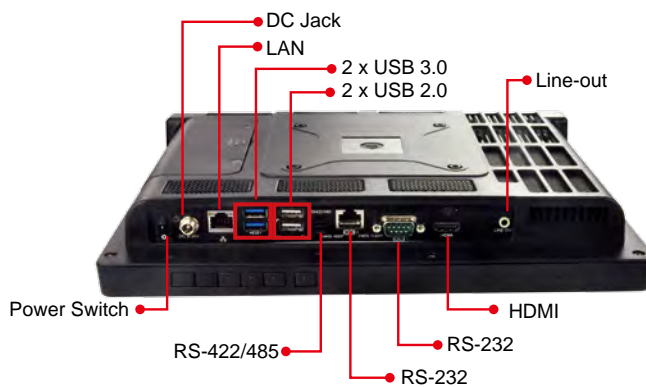
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AFL2-12A-D525

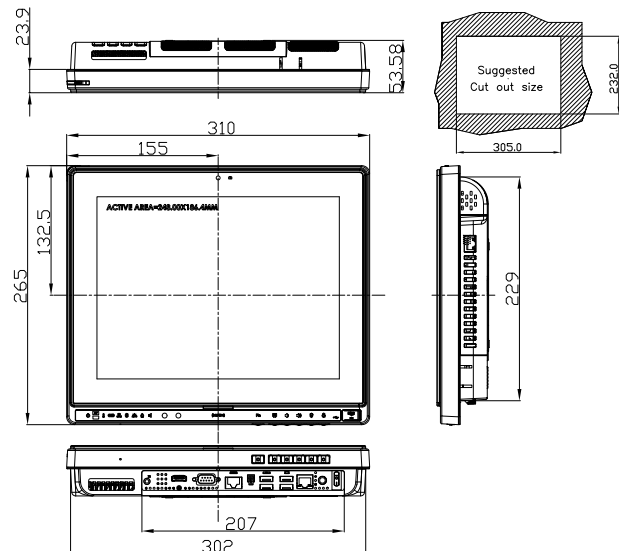
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Fully Integrated I/O



AFL2-12A-HM65 Dimensions

(Unit: mm)



AFL2-12A-HM65

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Optional Peripherals

AFL2-15A-H61

Intel® Core™ i5/ i3 and Pentium® processor **New**

AFL2-W15B-H61

Intel® Core™ i5/ i3 and Pentium® processor **New**



AFL2-15A-H61

Features

- Flat-bezel LCD with LED backlight
- Intel® Core™ i5/ i3 and Pentium® processor
- Two 204-pin DDR3 SO-DIMM slot (system max. 16GB) preinstalled with 4GB (2GB x 2)
- Projected capacitive touchscreen and 5-wire resistive type touchscreen supported
- Wi-Fi 802.11b/g/n 2T2R high speed wireless
- EM or Mifare RFID reader
- Built-in 2M pixels webcam with AF, AE and AWB capabilities
- Built-in two 2W speakers and microphone
- IP64 compliant front panel
- Auto dimming control
- Light fanless technology design
- K-type thermocouple temperature sensor
- Wide range 9~36 VDC input



Specifications

	Model	AFL2-15A-H61	AFL2-W15B-H61	
LCD Specifications	Size	15" (4:3)	15.6" (16:9)	
	Resolution	1024 (W) x 768 (H)	1366 (W) x 768 (H)	
	Brightness (cd/m ²)	400	300	
	Contrast Ratio	700:1	500:1	
	LCD Color	262K/16.2M	16.7M	
	Pixel Pitch (mm)	0.297 (H) x 0.297 (V)	0.252 (H) x 0.252 (V)	
	Viewing Angle (H-V)	160° / 140°	170° / 160°	
	Backlight MTBF	50,000 hrs (LED backlight)	50,000 hrs (LED backlight)	
System	CPU	2nd/3rd Generation of Intel®Core™ i5/i3, and Pentium® processors		
	Chipset	Intel® H61		
	RAM	Support two 204-pin DDR3 SO-DIMM slot (max. 16GB) preinstalled with 4GB (2GB x 2)		
	Ethernet	Realtek RTL8111E PCIe GbE controller supports ASF 2.0		
	SSD	CF Type II socket		
	HDD	2.5" SATA 3Gb/s HDD bay		
	Input / Output		2 x RS-232 (DB-9 connector) 1 x GbE LAN (RJ-45 connector) on left side 1 x RS-422/485 (RJ-45 connector) 3 x USB 2.0 (two on the bottom, one on the left) 2 x USB 3.0 1 x Mini USB port on front panel 1 x Micro SD card slot on front panel 1 x Line out, MIC on left side	1 x VGA port 1 x HDMI port 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x 9 ~ 36V DC jack
		Expansion Interface	1 x PCIe Mini slot for Wi-Fi 1 x PCIe Mini slot reserved	
	Other Features	Audio	AMP 2W + 2W (internal speaker)	
		Camera	2M pixels with low light function	
RFID Reader		EM 125 KHz or Mifare 13.56 MHz card reader (optional)		
MSR Card Reader		MSR card reader (optional)		
TPM		Reserved by pin-header		
OSD Function		LCD on/off, brightness up/down, volume up/down, Hot Key		
Ambient Light Sensor		Yes		
Infrared Remote Controller		Yes		
Touch Screen		5-wire resistive type or projected capacitive type touch screen		
LED Light Bar		N/A		
System Cooling	Light fanless (smart fan operates above default temperature setting)			
Wireless		1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini card interface) (Optional, internal USB interface, Bluetooth V2.0+EDR)		
	Construction Front Panel	PC + ABS Plastic		
Physical	Mounting	Wall, Stand, Arm VESA 100mm x 100mm	Panel, Wall, Rack, Stand, Arm VESA 100mm x 100mm	
	Color	Black		
	Dimensions (WxHxD)(mm)	363.2 x 305.1 x 58.8	399.4 x 271.2 x 58.8	
	Weight (N/G)	5.2 kg / 7.3 kg	4.5 kg / 6.5 Kg	
Environment	Operating Temperature (°C) (Ambient with air flow)	-20°C ~ 50°C		
	Storage Temperature (°C)	-20°C ~ 60°C		
	Humidity	10% to 95% (non-condensing)		
	IP Level	IP 64 compliant front panel		
	Safety&EMC	CE / FCC		
Power	Power Supply	90W power adapter Input:100 V AC ~ 240 V AC, 50 / 60Hz, Output: 19 V DC		
	Power Requirement	9 ~ 36 VDC		
	Power Consumption	19V@3.42A (Intel® Core™ i3-2100T CPU with 4GB 1333 Mhz DDR3 memory)	19V@3.95A (Intel® Core™ i3-2120 CPU with 4GB 1333 Mhz DDR3 memory)	

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- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Options

Item	AFL2-15A-H61	AFL2-W15B-H61
Panel Mounting Kit	N/A	AFL2PK-W15B
Wall Mounting Kit	AFLWK-19/AFLWK-19B	
Rack Mounting Kit	N/A	AFL2RK-W15B
Arm	ARM-11-RS/ARM-31-RS	
Stand	STAND-A19/ STAND-B19/ STAND-C19/ STAND-210-R11	
Hybrid Card Reader	AFL2P-15AMSI-U-R10	AFL2P-W15BMSI-U-R10
Magnetic Stripe Reader	AFL2P-15AMSR-U-R10	AFL2P-W15BMSR-U-R10
Bluetooth Module Kit	AFL2-BT-KIT01-R11	
Trusted Platform Module (TPM)	TPM-IN01-R11	
EM RFID Reader	AFL2-EM-RFID-KIT01-R10	
Mifare RFID Reader	AFL2-MF-RFID-KIT02-R10	
OS: Win XPE (2GB CF Card)	AFL2CF-15A-H61-XPE-2G-R10	
OS: Win XPE (4GB CF Card)	AFL2CF-15A-H61-XPE-4G-R10	
OS: Linux (2GB CF Card)	AFL2CF-15A-H61-LNX-2G-R10	
OS: Win 7 Embedded (4GB CF Card)	AFL2CF-15A-H61-WES7P-4G-R10 (for Projected Capacitive Touch) AFL2CF-15A-H61-WES7E-4G-R10 (for Resistive Touch)	

Packing List

Item	P/N	Q'ty	Description
Utility CD		1	drivers and user manual
One Key Recovery CD		1	
Power Adapter	63040-010090-020-RS	1	FSP090-D2BA1; 90~264VAC input; 90W; 19VDC output
Power Cord	32702-000401-100-RS	1	European, 1500mm
Power Transfer Cord	32702-000300-100-RS	1	
RJ-45 to DB-9 COM Port Cable	32005-000200-200-RS	1	
IR Remote Controller	7Z000-SLPCB005-RS	1	
M3 Screw Pack	44013-030041-RS	4	M3 x 4 for securing HDD
M4 Screw Pack	44033-040061-RS	4	M4 x 4 for VESA screw
Temperature Sensor Cable	32133-004300-100-RS	1	
Pen	43125-0002C0-00-RS	1	For Resistive Touch

Ordering Information

AFL2-15A-H61

Part No.	Description
Core i5	AFL2-15A-H61-i5/R-R11 15" 400cd/m ² XGA panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 1.3M camera, microphone, R11
	AFL2-15A-H61-i5/PC-R11 15" 400cd/m ² XGA panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 1.3M camera, microphone, R11
Core i3	AFL2-15A-H61-i3/R-R11 15" 400cd/m ² XGA panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 1.3M camera, microphone, R11
	AFL2-15A-H61-i3/PC-R11 15" 400cd/m ² XGA panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 1.3M camera, microphone, R11
Pentium	AFL2-15A-H61-P/R-R11 15" 400cd/m ² XGA panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 1.3M camera, microphone, R11
	AFL2-15A-H61-P/PC-R11 15" 400cd/m ² XGA panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 1.3M camera, microphone, R11

AFL2-W15B-H61

Part No.	Description
Core i5	AFL2-W15B-H61-i5/R-R11 15.6" 300cd/m ² HD panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 3M camera, microphone, R10
	AFL2-W15B-H61-i5/PC-R11 15.6" 300cd/m ² HD panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 3M camera, microphone, R10
Core i3	AFL2-W15B-H61-i3/R-R11 15.6" 300cd/m ² HD panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 1.3M camera, microphone, R10
	AFL2-W15B-H61-i3/PC-R11 15.6" 300cd/m ² HD panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 3M camera, microphone, R10
Pentium	AFL2-W15B-H61-P/R-R11 15.6" 300cd/m ² HD panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 3M camera, microphone, R10
	AFL2-W15B-H61-P/PC-R11 15.6" 300cd/m ² HD panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 3M camera, microphone, R10

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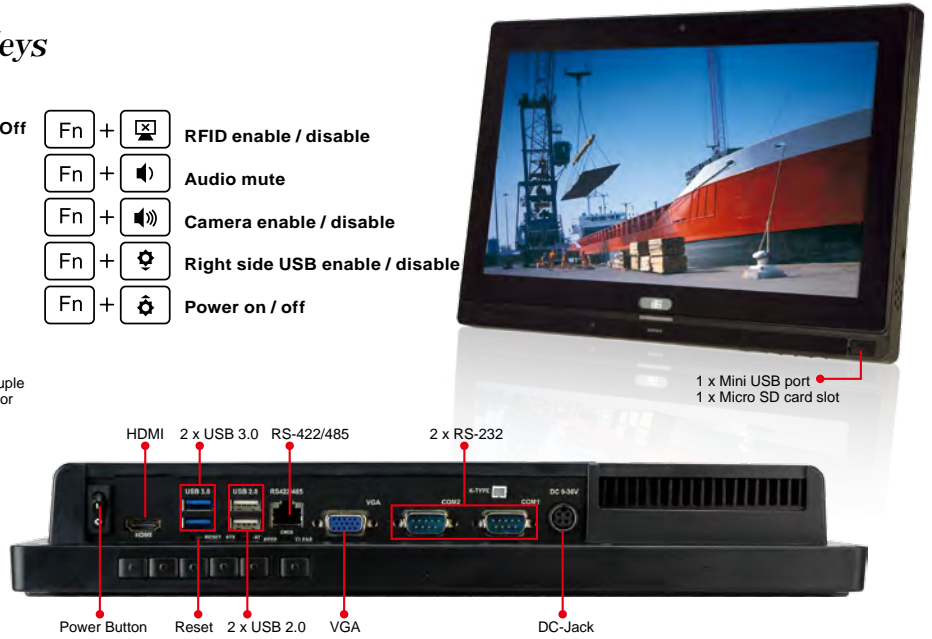
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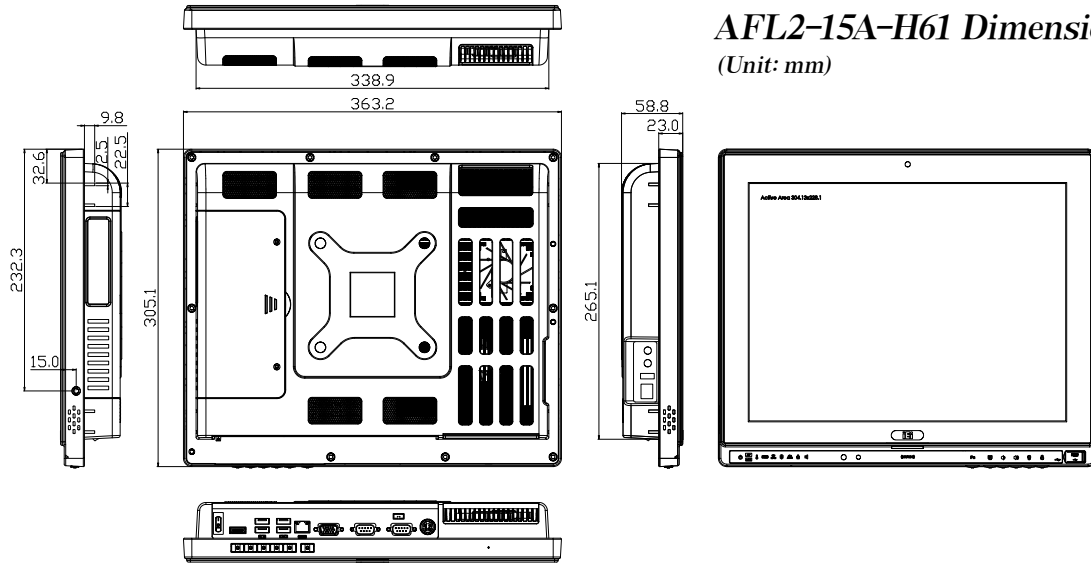
Optional Peripherals

Function Keys

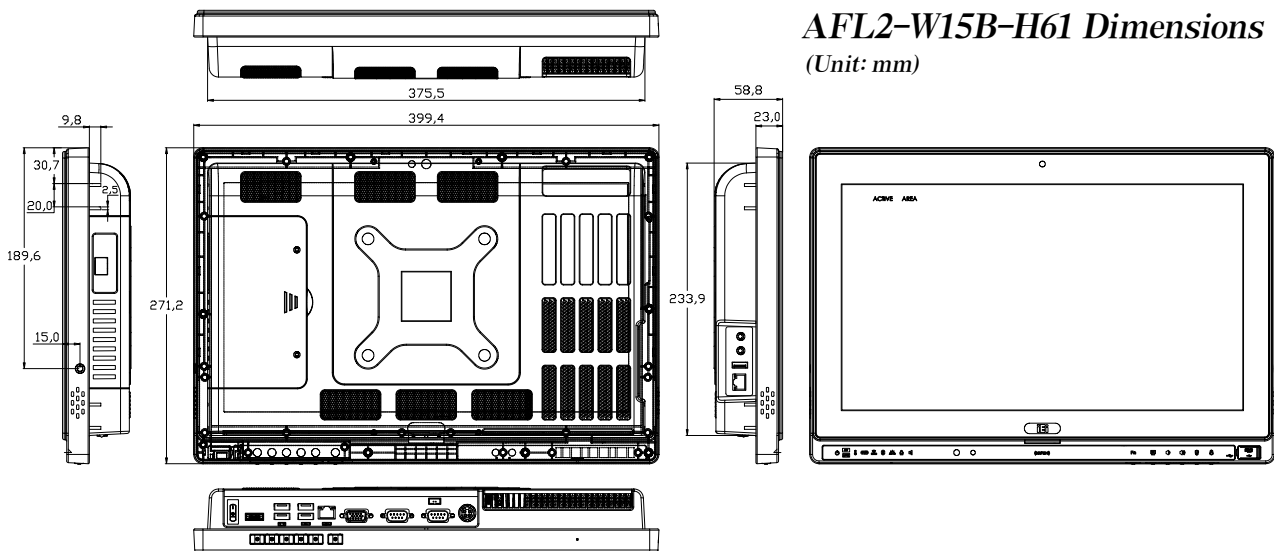
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|--------------|---------------------------------|-----------------------|
| Fn | Backlight On/Off | RFID enable / disable |
| Audio - | Audio mute | |
| Audio + | Camera enable / disable | |
| Brightness - | Right side USB enable / disable | |
| Brightness + | Power on / off | |



AFL2-15A-H61 Dimensions (Unit: mm)



AFL2-W15B-H61 Dimensions (Unit: mm)



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Optional Peripherals

15.6" Wide Panel PC

AFL2-W15A-N270

Intel® Atom™ Solution



Features

- Flat-bezel LCD with LED backlight
- Intel® Atom™ processor N270 1.6 GHz processor
- one 400 MHz or 533 MHz DDR2 SO-DIMM (max. 2GB)
- Projected capacitive type flat touch screen/ Resistive type 5-wire flat touch screen supported
- Wi-Fi 802.11b/g/n supported
- Optional EM or Mifare RFID reader
- Built-in 1.3M pixels webcam
- Built-in two 1.5W speakers and microphone
- IP 64 compliant front panel



Specifications

	Model	AFL2-W15A-N270	
LCD Specifications	Size	Wide 15.6" TFT LCD	
	Resolution	1366 x 768	
	Brightness (cd/m²)	250 cd/m²	
	Contrast Ratio	500:1	
	LCD Color	16.2 M	
	Pixel Pitch (mm)	0.252 (H) x 0.252 (V)	
	Viewing Angle (H-V)	110° (H) / 85° (V)	
	Backlight MTBF	50000 hrs (LED backlight)	
System	CPU	Intel® Atom™ processor N270 1.6 GHz CPU	
	Chipset	Intel® 945GSE + ICH7M	
	RAM	Support one 400 MHz or 533 MHz DDR2 SO-DIMM (max. 2GB)	
	SSD	CF Type II	
	HDD	1 x 2.5" SATA HDD Bay	
	Watchdog Timer	Software programmable supports 1~255 sec. system reset	
	Input / Output	1 x RS-232 COM port	1 x Audio port (Line out)
		1 x RS-232/422/485 COM port	1 x VGA
	Other Features	Audio	AMP 1.5 W + 1.5 W (internal speaker)
		Camera	1.3 M pixels with low light function
RFID Reader		EM 125 KHz or Mifare 13.56 MHz card reader (optional)	
OSD Function		LCD on/off, brightness up/down, volume up/down	
Ambient Light Sensor		Yes	
Infrared Remote Controller		LCD on/off, brightness up/down, volume up/down	
Touch Screen		Projected capacitive type flat touch screen/ Resistive type 5-wire flat touch screen	
Wireless		1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini card interface)	
Physical		Construction Front Panel	PC + ABS plastic front frame
		Mounting	VESA 100 mm x 100 mm
	Color	Black C	
	Dimensions (WxHxD) (mm)	400 x 267 x 54	
	Weight (N/G)	3.8 kg	
Environment	Operating Temperature (°C) (Ambient with air flow)	-10°C ~ 50°C	
	Storage Temperature (°C)	-20°C ~ 60°C	
	Humidity	10% to 95% (non-condensing)	
	IP Level	IP 64 compliant front panel	
	Safety & EMI	CE / FCC	
Power	Power Supply	60W power adapter Input: 90VAC~264VAC, 50/60 Hz Output: 12VDC	
	Power Requirement	12VDC	
	Power Consumption	12V@4.25A (Intel® ATOM™ N270 CPU with 667MHz 2GB DDR2 memory)	

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IEI Mobile Solutions

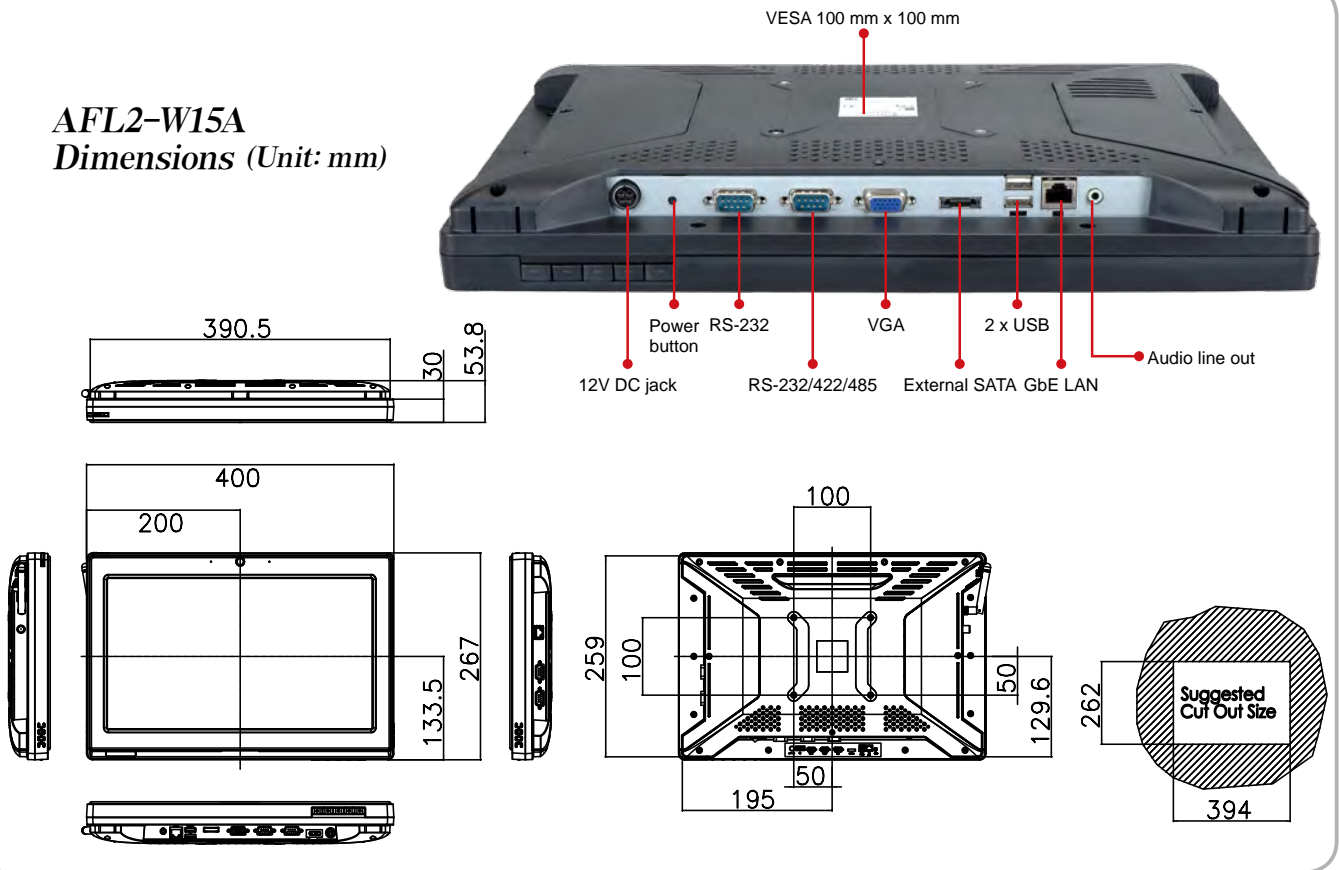
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Automation Panel Solutions

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RISC-based Solutions

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Optional Peripherals

AFL2-W15A
Dimensions (Unit: mm)



Optional Kit

Options	AFL2-W15A-N270
Panel Mounting Kit	AFL2PK-W15A-R10
Wall Mounting Kit	AFLWK-19 / AFLWK-19B
Arm	ARM-11-RS / ARM-31-RS
Stand	STAND-A19 / STAND-B19 / STAND-C19 / STAND-210-R11
EM RFID Reader	AFL2-EM-RFID-KIT02-R10
Mifare RFID Reader	AFL2-MF-RFID-KIT03-R10
OS	Win CE 6.0 AFL2CF-W15-N270-CE060-R10 (128 MB CF card)
	Win XPE AFL2CF-W15-N270-XPE-R10 (1 GB CF card)
	Linux AFL2CF-W15-N270-LNX-R10 (2 GB CF card)
	Win 7 AFL2CF-W15-N270-WES7E-R10 / AFL2CF-W15-N270-WES7P-R10 (4 GB CF card) AFL2SD-W15-N270-WES7E-R10 / AFL2SD-W15-N270-WES7P-R10 (4 GB SATA SSD module)
DC 12 V Input UPS	AUPS-B10-R10 (VESA 100, DC 12 V input, 12 V output 100 W UPS module with 3800 mAh)
DC 9~36 V Input UPS	AUPS-B20-R10 (VESA 100, DC 9~36 V input, 12 V output 100 W UPS module with 3800 mAh)

Packing List

Item	P/N	Q'ty	Specifications
Touch Pen	43125-0002C0-00-RS	1	
Power Adapter	63000-FSP060DBAB1554-RS (for Intel® N270 platform)	1	90-264 VAC input , 12 VDC output , 60W 90-264 VAC input , 12 VDC output , 84W
Power Cord	32000-000002-RS	1	1750 mm; European standard
User's Manual CD	7B000-000087-RS	1	
Screws	44013-030041-RS	4	
Remote Controller	7Z000-8T00320ICP05G-RS	1	



Touch Pen

Model No.:43125-0002C0-00-RS

Description:

- 1) With special material
 - 2) Combined soft rubber with anti-oxidative plastic material
 - 3) Durable and flexible
 - 4) Particularly designed for AFOLUX GEN II touch Pen
- Length: 140mm

Ordering Information

Part No.	Description
Resistive Type Touch AFL2-W15A-N270/R/1G-R12	15.6" 250cd/m ² WXGA+ fanless panel PC with Intel® Atom™ N270 1.6 GHz, 802.11b/g/n wireless module, resistive touch screen, 1.3 M camera, microphone, 1GB DDR2 RAM, without expansion, R12
Projected Capacitive Type Touch AFL2-W15A-N270/PC/1G-R12	15.6" 250cd/m ² WXGA+ fanless panel PC with Intel® Atom™ N270 1.6 GHz, 802.11b/g/n wireless module, Projected capacitive touchscreen, 1.3 M camera, microphone, 1GB DDR2 RAM, without expansion, R12

AFL2-17A-H61

Intel® Core™ i5/ i3 and Pentium® processor **New**

AFL2-W19A-H61

Intel® Core™ i5/ i3 and Pentium® processor **New**



Optional CD-ROM available

AFL2-17A-H61

Features

- Programmable colorful LED light bar
- Intel® Core™ i5/ i3 and Pentium® processor
- Two 204-pin DDR3 SO-DIMM slot (system max. 16GB) preinstalled with 4GB (2GB x 2)
- Projected capacitive touchscreen and 5-wire resistive type touchscreen supported
- Wi-Fi 802.11b/g/n 2T2R high speed wireless
- EM or Mifare RFID reader
- Built-in 2M pixels webcam with AF, AE and AWB capabilities
- Built-in two 2W speakers and microphone
- IP64 compliant front panel
- Auto dimming control
- Light fanless design
- K-type thermocouple temperature sensor
- Wide range 9~36 VDC input



Specifications

Model	AFL2-17A-H61	AFL2-W19A-H61	
LCD Specifications	Size	17" (4:3)	W18.9" (16:10)
	Resolution	1280 (W) x 1024 (H)	1440 (W) X 900 (H)
	Brightness (cd/m²)	350	250
	Contrast Ratio	1000:1	1000:1
	LCD Color	16.7M	16.7M
	Pixel Pitch (mm)	0.264 (H) x 0.264 (V)	0.2835 (H) x 0.2835 (V)
	Viewing Angle (H-V)	170° / 160°	170° / 160°
	Backlight MTBF	50,000 (LED backlight)	30,000 (LED backlight)
System	CPU	2nd/3rd Generation of Intel®Core™ i5/i3 and Pentium® processors	
	Chipset	Intel® H61	
	RAM	Support two 204-pin DDR3 SO-DIMM slot (max. 16GB) preinstalled with 4GB (2GB x 2)	
	Ethernet	Realtek RTL8111E PCIe GbE controller supports ASF 2.0	
	HDD	2.5" SATA 3Gb/s HDD bay	
	CD-ROM	1 x Slim Type CD-ROM bay	
	Input / Output	2 x RS-232 (DB-9 connector) 1 x RS-422/485 (DB-9 connector) 2 x GbE LAN (one on the bottom, one on the left) 2 x USB 3.0 3 x USB 2.0 (two on the bottom, one on the left) 1 x Mini USB port on front panel 1 x Micro SD card slot on front panel 1 x Line out (on the left)	1 x Mic (on the left) 1 x VGA port (DB-15 connector) 1 x HDMI port 1 x Power switch 1 x AT/ATX switch 1 x Reset button 1 x Clear CMOS button 1 x 9 - 36V DC input jack
Other Features	Expansion Interface	1 x PCIe Mini slot for Wi-Fi, 1 x PCIe Mini slot reserved	
	Audio	AMP 2W + 2W (internal speaker)	
	Camera	2 M pixels with low light function	
	RFID Reader	EM 125 KHz or Mifare 13.56 MHz card reader (optional)	
	MSR Card Reader	MSR card reader (optional)	
	TPM	Reserved by pin-header	
	OSD Function	LCD on/off, brightness up/down, volume up/down, Hot Key	
	Ambient Light Sensor	Yes	
	Infrared Remote Controller	Yes	
	Touch Screen	5-wire resistive type or projected capacitive type touch screen	
Wireless	LED Light Bar	Yes	
	System Cooling	Light fanless (smart fan operates above default temperature setting)	
		1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini card interface) 1 x Bluetooth function (optional internal USB interface, Bluetooth V2.0+EDR)	
Physical	Construction Front Panel	PC + ABS Plastic	
	Mounting	Panel, Wall, Rack, Stand, Arm VESA 100mm x 100mm	Panel, Wall, Stand, Arm VESA 100mm x 100mm
	Color	Black	
	Dimensions (WxHxD)(mm)	418 x 378 x 65	488 x 361 x 65
	Weight (N/G)	6.9 kg / 9.0 kg	7.3 kg / 10 Kg
Environment	Operating Temperature (°C) (Ambient with air flow)	-20°C ~ 40°C	
	Storage Temperature (°C)	-20°C ~ 60°C	
	Humidity	10% to 95% (non-condensing)	
	IP Level	IP 64 compliant front panel	
	Safety&EMC	CE / FCC	
	Power	Power Supply	120W power adapter Input:100 V AC ~ 240 V AC, 50 / 60Hz, Output: 19 V DC
Power Requirement		9 ~ 36 VDC	
Power Consumption		19V@5.3A (Intel® Core™ i7-2600S CPU with 4GB 1333 Mhz 4GB DDR3 memory)	19V@5.58A (Intel® Core™ i7-2600S CPU with 4GB 1333 Mhz 4GB DDR3 memory)

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Optional Peripherals



Ordering Information

AFL2-17A-H61/AFL2-17AB-H61

Part No.		Description
Core i5	Resistive Touch	AFL2-17A-H61-i5/R-R11 17" 350cd/m ² SXGA panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, R11
		AFL2-17AB-H61-i5/R-R11 17" 350cd/m ² SXGA panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, without LED bar, R11
	Projected Capacitive Touch	AFL2-17A-H61-i5/PC-R11 17" 350cd/m ² SXGA panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R11
		AFL2-17AB-H61-i5/PC-R11 17" 350cd/m ² SXGA panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R11
Core i3	Resistive Touch	AFL2-17A-H61-i3/R-R11 17" 350cd/m ² SXGA panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, R11
		AFL2-17AB-H61-i3/R-R11 17" 350cd/m ² SXGA panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, without LED bar, R11
	Projected Capacitive Touch	AFL2-17A-H61-i3/PC-R11 17" 350cd/m ² SXGA panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R11
		AFL2-17AB-H61-i3/PC-R11 17" 350cd/m ² SXGA panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R11
Pentium	Resistive Touch	AFL2-17A-H61-P/R-R11 17" 350cd/m ² SXGA panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, R11
		AFL2-17AB-H61-P/R-R11 17" 350cd/m ² SXGA panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, without LED bar, R11
	Projected Capacitive Touch	AFL2-17A-H61-P/PC-R11 17" 350cd/m ² SXGA panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R11
		AFL2-17AB-H61-P/PC-R11 17" 350cd/m ² SXGA panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R11

Options

Item	AFL2-17A-H61	AFL2-W19A-H61
Panel Mounting Kit	AFL2RK-17A	AFL2PK-W19A
Wall Mounting Kit	AFLWK-19/AFLWK-19B	
Rack Mounting Kit	AFL2RK-17A	N/A
Arm	ARM-31-RS	
Stand	STAND-A19/STAND-B19/STAND-C19/STAND-210-R11/STAND-A26-R11	
Hybrid Card Reader	AFL2P-W19AMSI-U-R10	
Magnetic Stripe Reader	AFL2P-W19AMSR-U-R10	
Slim DVD Burner	73400-AD7700S01-RS	
Bluetooth Module Kit	AFL2-BT-KIT01-R11	
Trusted Platform Module (TPM)	TPM-IN01-R11	
EM RFID Reader	AFL2-EM-RFID-KIT01-R10	
Mifare RFID Reader	AFL2-MF-RFID-KIT01-R10	
OS: Win XPE (CD-ROM)	AFL2-17A-H61-XPE-R10	AFL2-W19A-H61-XPE-R10
OS: Linux (CD-ROM)	AFL2-17A-H61-LNX-R10	AFL2-W19A-H61-LNX-R10
OS: Win 7 Embedded (DVD-ROM)	AFL2-17A-H61-WES7P-R10 (for Projected Capacitive Touch) AFL2-17A-H61-WES7E-R10 (for Resistive Touch)	AFL2-W19A-H61-WES7P-R10 (for Projected Capacitive Touch) AFL2-W19A-H61-WES7E-R10 (for Resistive Touch)

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- 5 Optional Peripherals



Ordering Information

AFL2-W19A-H61/AFL2-W19AB-H61

Part No.			Description
Core i5	Resistive Touch	AFL2-W19A-H61-i5/R-R11	18.9" 250cd/m ² WXGA+ panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, R11
		AFL2-W19AB-H61-i5/R-R11	18.9" 250cd/m ² WXGA+ panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, without LED bar, R11
	Projected Capacitive Touch	AFL2-W19A-H61-i5/PC-R11	18.9" 250cd/m ² WXGA+ panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R11
		AFL2-W19AB-H61-i5/PC-R11	18.9" 250cd/m ² WXGA+ panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R11
Core i3	Resistive Touch	AFL2-W19A-H61-i3/R-R11	18.9" 250cd/m ² WXGA+ panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, R11
		AFL2-W19AB-H61-i3/R-R11	18.9" 250cd/m ² WXGA+ panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, without LED bar, R11
	Projected Capacitive Touch	AFL2-W19A-H61-i3/PC-R11	18.9" 250cd/m ² WXGA+ panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R11
		AFL2-W19AB-H61-i3/PC-R11	18.9" 250cd/m ² WXGA+ panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R11
Pentium	Resistive Touch	AFL2-W19A-H61-P/R-R11	18.9" 250cd/m ² WXGA+ panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, R11
		AFL2-W19AB-H61-P/R-R11	18.9" 250cd/m ² WXGA+ panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, resistive touch screen, 2M camera, microphone, without LED bar, R11
	Projected Capacitive Touch	AFL2-W19A-H61-P/PC-R11	18.9" 250cd/m ² WXGA+ panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R11
		AFL2-W19AB-H61-P/PC-R11	18.9" 250cd/m ² WXGA+ panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R11

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Optional Peripherals

Packing List

Item	P/N	Q'ty	Description
Utility CD		1	drivers and user manual
One Key Recovery CD		1	
Power Adapter	63000-FSP120AAB-RS	1	FSP120-AAB;90-264VAC input ; 120W ;19VAC output
Power Cord	32702-000401-100-RS	1	European, 1500mm
Power Transfer Cord	32000-089400-RS	1	
Infrared Remote Controller	7Z000-SLPCB005-RS	1	
M3 Screw Pack	44013-030041-RS	4	M3 x 4 for securing HDD
M4 Screw Pack	44033-040061-RS	4	M4 x 4 for VESA screw
I/O Bracket	41013-0290C2-00-RS	1	I/O Bracket
Temperature Sensor Cable	32133-004300-100-RS	1	
Pen	43125-0002C0-00-RS	1	For Resistive Touch

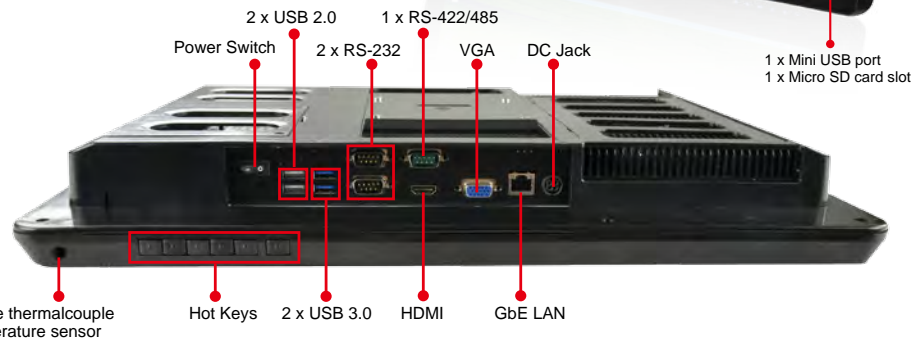
CD-RW/DVD-RW Driver Spec.

The drive is able to write CD-R/RW disks, DVD+R/RW disks and DVD-R/RW disks

Drive Type	Internal Slim CD-RW/DVD Combo Drive	
Data Transfer Rate	Write: DVD+R/DVD+RW/DVD-R: 8X DVD-RW: 6X CD-R/CD-RW: 24X	Read: DVD-ROM: 8X CD-ROM: 24X
Interface	SATA	
Buffer Memory	2MB	

Function Keys

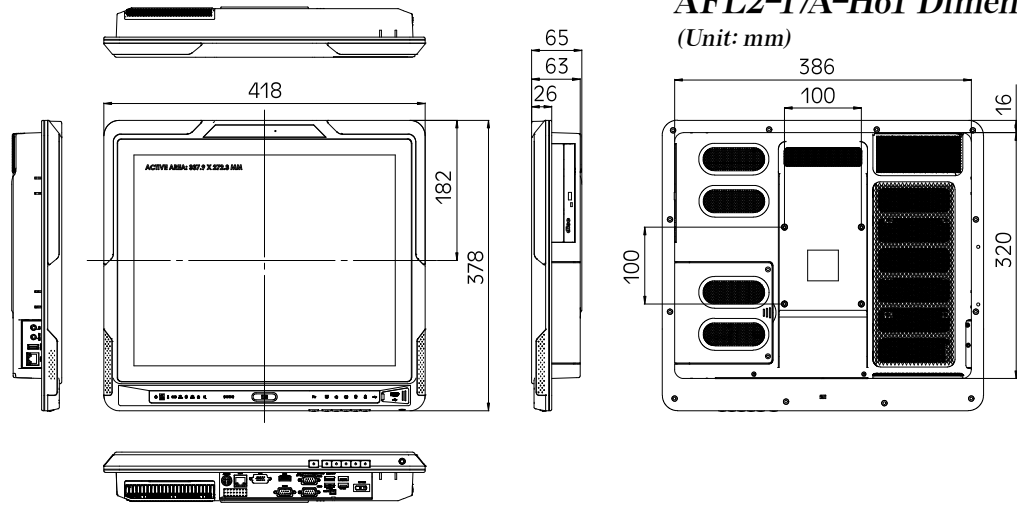
- | | | |
|------------------|------|---------------------------------|
| Fn | Fn + | RFID enable / disable |
| Backlight On/Off | Fn + | Audio mute |
| Audio - | Fn + | Camera enable / disable |
| Audio + | Fn + | Right side USB enable / disable |
| Brightness - | Fn + | Power on / off |
| Brightness + | | |



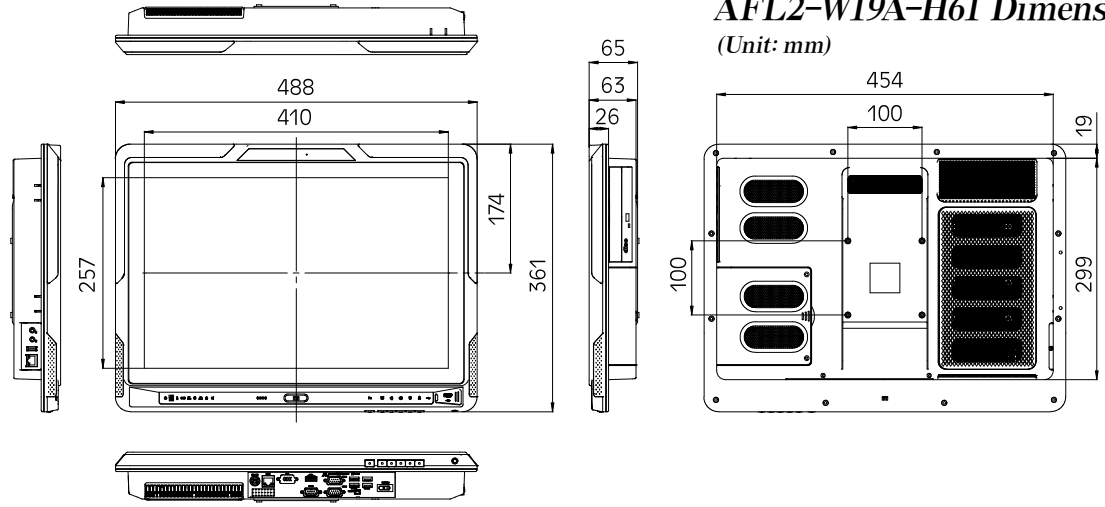
- Mic, Line-out
- 1 x USB 2.0
- 1 x GbE LAN

- 2 x USB 2.0
- 1 x RS-422/485
- Power Switch
- 2 x RS-232
- VGA
- DC Jack
- 1 x Mini USB port
- 1 x Micro SD card slot
- K-type thermocouple temperature sensor
- Hot Keys
- 2 x USB 3.0
- HDMI
- GbE LAN

AFL2-17A-H61 Dimensions (Unit: mm)



AFL2-W19A-H61 Dimensions (Unit: mm)



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Optional Peripherals

AFL2-W21A-H61

Intel® Core™ i5/ i3, and Pentium® Processor **New**



Features

- Programmable colorful LED light bar
- Intel® Core™ i5/ i3, and Pentium® processor
- Two 204-pin DDR3 SO-DIMM slot (system max. 16GB) preinstalled with 4GB (2GB x 2)
- Projected capacitive touchscreen supported
- Wi-Fi 802.11b/g/n 2T2R high speed wireless
- EM or Mifare RFID reader
- Built-in 2M pixels webcam with AF, AE and AWB capabilities
- Built-in two 3W speakers and microphone
- IP64 compliant front panel
- Auto dimming control
- Light fanless design
- K-type thermocouple temperature sensor
- Wide range 9~36 VDC input



Specifications

Model		AFL2-W21A-H61		
LCD	LCD Display	21.5" (16:9)		
	Max Resolution	1920(W) x 1080(H)		
	Brightness (cd/m2)	250		
	Contrast Ratio	1000 : 1		
	LCD Color	16.7M		
	Pixel Pitch (mm)	0.24825mm x 0.24825mm		
	Viewing Angle (H-V)	170° / 160°		
	Backlight MTBF (Hrs)	30000 (LED backlight)		
Touch	Touch Screen	Projected capacitive type with USB interface		
	Touch Controller	EETI EXC7200 & EXC5404		
System	CPU	2nd Generation of Intel®Core™ i5/i3, and Pentium® processors		
	Chipset	Intel® H61		
	Graphics Controller	Integrated Intel® HD Graphics		
	RAM	Support two 204-pin DDR3 SO-DIMM slot (max. 16GB) preinstalled with 4GB (2GB x 2)		
	Storage	1 x 2.5" SATA 3Gb/s HDD Bay		
	Optical Drive	1 x Slim Type CD-ROM bay		
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0		
	Wireless Connectivity	IEEE 802.11b/g/n 2T2R module (WIFI-RT5392-SB-R10)		
	Audio Codec	Realtek ALC892 HD audio codec		
	Audio	Amplifier 3W + 3W		
	Webcam & Microphone	2M pixel camera with low light function Digital Microphone		
	I/O Ports		2 x RS232 (DB9 Connector) 1 x RS422/485 COM Port (DB9 connector) 2 x GbE LAN (R-J-45 connector) 3 x USB 2.0 2 x USB 3.0 1 x HDMI 1 x Line out/MIC 1 x VGA port (DB-15 Connector) 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Clear CMOS button 1 x K-Type 1 x 9~36V DC jack 1 x Line out 1 x Mic	
		Expansion Interface	1 x PCIe Mini for Wi-Fi Module 1 x PCIe Mini reserved supporting mSATA	
		Cooling System	Light Fanless	
		Other Features	EM and Mifare RFID	Optional: EM 125 KHz or Mifare 13.56 MHz card reader
LED Light Bar			Programmable R/G/B colorful LED Light bar (SMBus Control)	
Function Key			6 x function keys: Fn Key1 Backlight On/Off Key2 Audio - Key3 Audio + Key4 Brightness - Key5 Brightness+ Combinations: Fn+Key1 RFID Enable/Disable Fn+Key2 Audio Mute Fn+Key3 Camera Enable/Disable Fn+Key5 Power ON/OFF	
Infrared			IR receiver 38KHz	
Light Sensor			Ambient light sensor for panel brightness adjustment	
TPM			Reserved by pinheader	
OS Support			OS Support Windows Embedded Standard 7 Windows XP Embedded, Debian 6.0 Backports	
Physical	Construction Material		PC + ABS plastic for front cover and rear cover	
	Mounting		Wall, Stand and VESA 100 mm x 100mm	
	Enclosure Color		Silver + Black	
	Dimension (mm)	546.85 (W) x 345.82 (H) x 70.35 (D), with LED Light Bar 528.8 (W) x 337.1 (H) x 70.35 (D), without LED Light Bar		
	Weight (Net/Gross)	8.27 Kg / 11.27 Kg (with LED Light Bar) 8.07 Kg / 11.07 Kg (without LED Light Bar)		
Environment	Operating Temperature (with air flow)	-10°C ~ 50°C		
	Storage Temperature	-20°C ~ 60°C		
	Humidity	10% to 95% (non-condensing)		
	IP Level	Front bezel IP 64		
Power	Safety and EMC	CE & FCC		
	Power Adapter	19VDC Power Input Adapter		
	Power Input	9 ~ 36V DC-IN		

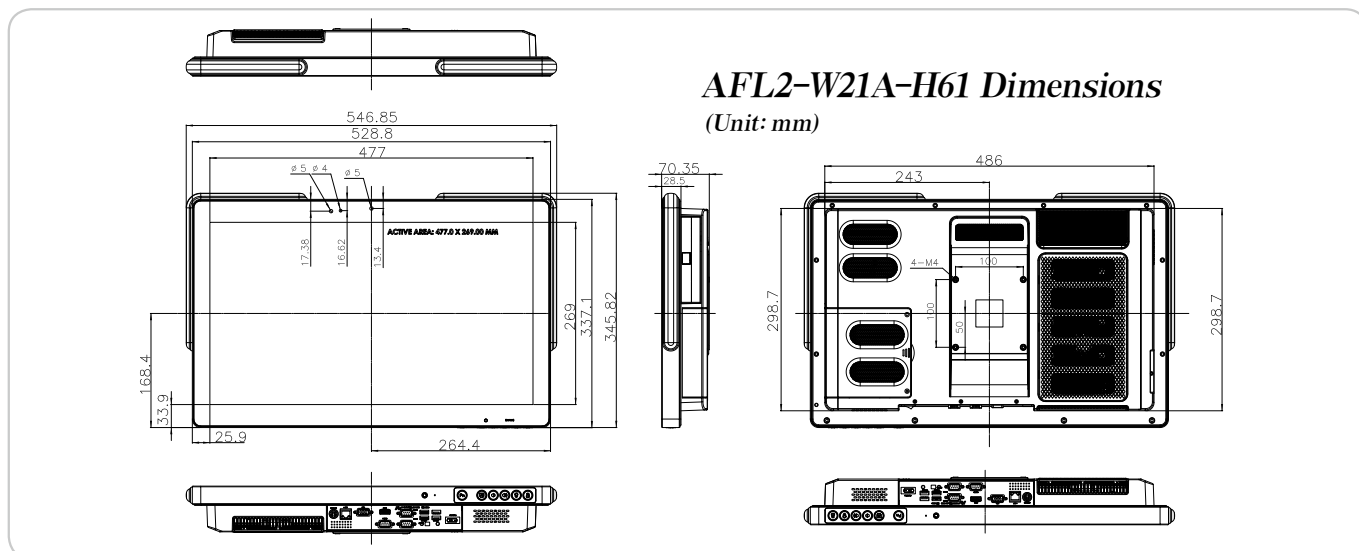
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Optional Peripherals



AFL2-W21A-H61 Dimensions
(Unit: mm)

Ordering Information

CPU	Model	Description
Core i5	AFL2-W21A-H61-i5/PC-R10	21.5" 250cd/m² FHD panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R10
	AFL2-W21AB-H61-i5/PC-R10	21.5" 250cd/m² FHD panel PC, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R10
Core i3	AFL2-W21A-H61-i3/PC-R10	21.5" 250cd/m² FHD panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R10
	AFL2-W21AB-H61-i3/PC-R10	21.5" 250cd/m² FHD panel PC, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R10
Pentium	AFL2-W21A-H61-P/PC-R10	21.5" 250cd/m² FHD panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, R10
	AFL2-W21AB-H61-P/PC-R10	21.5" 250cd/m² FHD panel PC, Pentium Dual Core G6xxT CPU (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, without LED bar, R10

Packing List

Item	P/N	Q'ty	Description
Utility CD		1	drivers and user manual
One Key Recovery CD		1	
Power Adapter	63000-FSP120AAB-RS	1	FSP120-AAB;90~264VAC input ; 120W ;19VAC output
Power Cord	32702-000401-100-RS	1	European, 1500mm
Power Transfer Cord	32000-089400-RS	1	
Infrared Remote Controller	7Z000-SLPCB005-RS	1	
M3 Screw Pack	44013-030041-RS	4	M3 x 4 for securing HDD
M4 Screw Pack	44033-040061-RS	4	M4 x 4 for VESA screw
I/O Bracket	41013-0290C2-00-RS	1	I/O Bracket
Temperature Sensor Cable	32133-004300-100-RS	1	
Pen	43125-0002C0-00-RS	1	For Resistive Touch

Options



- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

AFOLUX Panel PC

- 5.7"~19" multi-functional all-in-one Panel PCs
- Streamlined plastic housing
- Water and dust resistance IP64 front panel protection
- Industrial grade operating temperature



Affordable Luxury for You~

AFOLUX is designed to provide versatile, cost-effective solutions to meet the growing demand emerging from semi-industrial computing markets. From clinical to factory environments, restaurants to schools, and entertainment to surveillance devices, AFOLUX is your ultimate choice to fulfill a wide spectrum of applications.

1

IEI Mobile Solutions

AFOLUX PPC Diverse Platform and Panel Size

2

Automation Panel Solutions



	5.7"	W7"	8.0"	8.4"	W10.2"	10.4"	12.1"
AMD LX800	AFL-057A-LX	AFL-07A-LX	AFL-08AH-LX			AFL-10A-LX	AFL-12A-LX
Intel® Atom™ N270/Z510/Z530/E620	AFL-057A-Z510 AFL-057A-Z530	AFL-07A-N270	AFL-F08A-N270 AFL-08B-N270	AFL-08AH-N270	AFL-W10A-N270	AFL-10A-N270	AFL-12A-N270

3

RISC-based Solutions



	15"	W15.6"	17"	19"	W19.1"
Intel® Atom™ N270	AFL-15A-N270		AFL-17D-N270		AFL-W19A-N270
Intel® GM45		AFL-W15A-GM45	AFL-17D-GM45		
Intel® HM55	AFL-15i-HM55		AFL-17i-HM55	AFL-19i-HM55	

4

PACSmate Medical Solutions

5

Optional Peripherals

AFOLUX PPC MAIN FEATURES

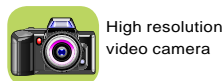
A. IP 64 Water and Dust Proof Protection

The AFOLUX front panel is IP64 compliant which protects the screen against damage from liquid or dust. Extend the lifetime of your products!



B. Variety Multimedia Functions

Low Light Camera, Microphone and Speaker



High resolution video camera



Sensitive Microphone



Built-in stereo speakers

Models	Camera	Microphone	Speakers
AFL-15i/17i/19i-HM55	--	--	Amplified
AFL-F08A/08B/W10A-N270 AFL-408A/412A	300K pixels with low light	Digital microphone	Amplified 1.5W + 1.5W
AFL-W15A/17D/W19A AFL-W15A/17D/W19A	300K pixels with low light	Digital microphone	Amplified 3W + 3W
AFL-057A/07A/08AH/10A/12A-LX AFL-12BS/12BX/15A-LXPOS	--	--	Amplified 1.5W + 1.5W
AFL-07A/08AH/10A/12A/15A-N270 AFL-408B-W410A-N270 AFL-057A-Z510/Z530	--	--	Amplified 1.5W + 1.5W

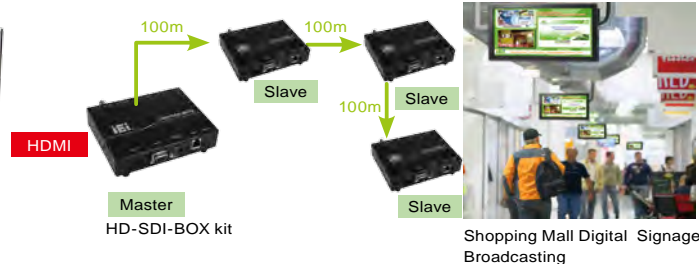
HD Hardware Decoder and HDMI Output

Integrated Radeon HD3200 graphic core supports UVD- VC-1, MPEG2, and H.264/AVC full HD decoder. Through HDMI output to HD-SDI-BOX-kit, HD content can be transmitted up to 100 meters for a long distance digital signage application.

Models	HD Hardware Decoder	HDMI output
AFL-15i/17i/19i-HM55	--	V
AFL-W15A/17D/W19A/W19B-GM45	--	V
AFL-057A-Z510/Z530	V	--

AFL-W15A-L325 with S780E/T + SB710

Graphic Core	Radeon 3200
DirectX Support	DX10
Video Decode	UVD-VC-1, MPEG2, H.264/AVC Full HD Decode
HDMI/DVI	1080p



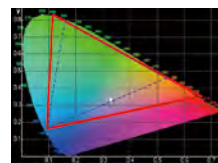
C. LED Backlight Panel Equipped



Enhancement of image quality on LCD screen

- Wider color gamut
- More even screen illumination
- Longer display life
- Low temperature operation and greater power efficiency

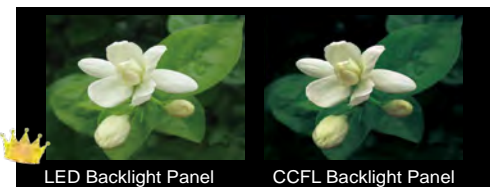
Color Gamut Comparison



— LED
- - - Normal CCFL

Thus LED backlight makes the image color shown on the LCD screen look nature and vivid.

Vivid and High Contrast Image



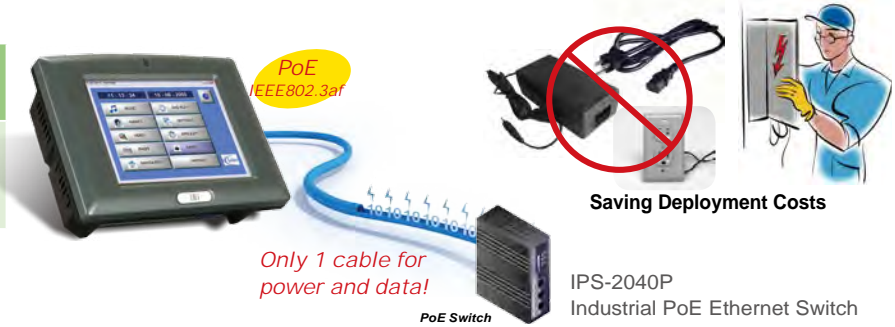
Panel Size	5.7"	W7"	8.0"	8.4"	10.4"	12.1"
Brightness	400 nits	500 nits	250 nits	450 nits	400 nits	500 nits
Models	AFL-057A-LX AFL-057A-Z510 AFL-057A-Z530	AFL-07A-LX AFL-07A-N270	AFL-F08A-N270 AFL-08B-N270	AFL-08AH-LX AFL-08AH-N270	AFL-10A-LX AFL-10A-N270	AFL-12A-LX AFL-12A-N270

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

D. Power over Ethernet Enabled

No need for electricians to install conduit, electrical wiring, and outlets throughout the enterprise.

Panel Size	5.7"
Solution Models	AFL-057A-Z510 AFL-057A-Z530



E. Wireless Capabilities

Local-based Communication

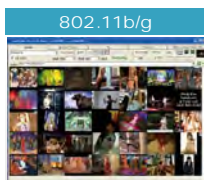
Easy to deploy, no network cables is needed. Reduce your setup cost and lead time.

Peripheral Communication

It is easy to operate and connect input devices and peripherals when the Panel PC is mounted to a rack or a kiosk.

Long-range Mobile Communication

High mobility without any hot spot limitation.



Streaming music
Streaming video



No spaces in between items:
VoIP/Gaming/NAS



Real-Time Data
Communication



1

IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

	Wi-Fi	Bluetooth (optional)
AFL-15i/17i/19i-HM55	IEEE 802.11 b/g/n	Bluetooth V2.1+EDR
AFL-W15A/17D/W19A/W19B-GM45	IEEE 802.11 b/g/n	Bluetooth V2.0
AFL-07A/08AH/F08A/08B/W10A-N270 AFL-408A/408B-N270	IEEE 802.11 b/g/n	Bluetooth V2.0
AFL-W15A/17D/W19A/W19B-N270 AFL-10A/12A/15A-N270 AFL-W410A/412A/415A-N270 AFL-15A/17A/19A-915	IEEE 802.11 b/g/n	Bluetooth V2.0
AFL-057A-Z510/Z530 AFL-057A/07A/08AH-LX	IEEE 802.11 b/g	Bluetooth V2.0
AFL-10A/12A-LX	IEEE 802.11 b/g	Bluetooth V2.0

F. Auto Dimming and OSD Remote Control

Built-in Ambient Light Sensor

- Power Consumption Saving
- Comfortable Viewing Brightness
- Extend Product Lifetime



Ambient Light Sensor



Day: Higher Ambient Luminance



Night: Lower Ambient Luminance

OSD Remote Control

Brightness and volume control wherever the system is located.



Models	Hardware OSD Control	OSD Remote Control	Ambient Light Sensor
AFL-15I/17I/19I-HM55	5-Key Keypad	V	V
AFL-F08A-N270	6-Key Keypad	V	
AFL-W15A/W19A	7-Key Keypad	V	V
AFL-15C/17C/19C-965	5-Key Keypad	--	--
AFL-408A/408B/W410A/412A/415A-N270	--	V	V
AFL-17D/W19B	5-Key Keypad	--	--

G. Multiple and Expandable Storage



	CF card	SATA Slim SSD	2.5" SSD	Hard Disk	Optical Disk
Cost	High	High	High	Medium	Low
Data Transfer Rate	Read-40MB/sec. Write-20MB/sec.	Read-90MB/sec. Write-60MB/sec.	Read-230MB/sec. Write-160MB/sec.	Read-110MB/sec. Write-110MB/sec.	Read-32.4MB/sec. Write-10MB/sec.
Capacity	128MB-16GB	1GB-16GB	8GB-128GB	80GB-1TB	680MB-50GB
Application	Operating System, Application Program	Operating System, Application Program	Operating System, Application Program	Operating Data, Media Data	Media Data, Backup Data...

Models	CF Card	SATA Slim SSD	2.5" Storage Bay	Slim Type ODD
AFL2-W15A-N270/L325	V	V	V	--
AFL-15I/17I/19I-HM55	--	V	V	--
AFL-17D/W19B/317A/517A	V	V	V	V
AFL-W15A/W19A	V	V	V	--
AFL-057A-Z510/Z530 AFL-07A/08AH/F08A/08B/ W10A-N270 AFL-408A/408B/W410A-N270 AFL-057A/07A/08AH/10A-LX	V	--	--	--
AFL-10A/12A/15A-N270 AFL-412A	V	V	V	--
AFL-12A-LX	V	--	V (IDE Interface)	--

1

IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACsmate Medical Solutions

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Optional Peripherals

H. Optional Magnetic Stripe Card / Smart Card Reader



(1) Magnetic Stripe Reader

Magnetic Card



Magnetic Card Reader

(2) Hybrid Card Reader

- Magnetic Card
- IC Card
- iButton



Smart Card Reader

iButton

The iButton can be used to store cash for small transactions or as an electronic asset tag to store and track information such as valuable capital equipment.

Magnetic Card Reader

Convenient cable location

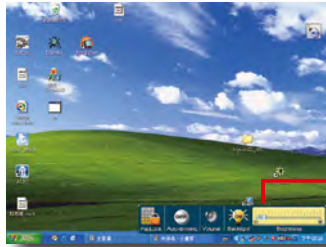


Back mounting holes designed for the bracket kit



P/N	AFLP-12BMSR-U / AFLP-17AMSR-U	AFLP-12BMSI-U / AFLP-17AMSI-U
General	90 mm Magnetic Stripe Reader Programming: By Software Download Program Card Standard: ANSI , ISO , ABA Track Read: ISO 1,2,3 (IATA,ABA,THRIFT/MINTS), JISII100-1000mm/sec	(1) Magnetic Card: ISO 7811, AAMVA, DMV, JIS II (2) Smart Card: ISO 7816, EMV (3) Dallas iButton
Electrical	Voltage:DC+5V, +/-5% Reading Indicator:Beeper	Voltage: DC+5V,+/-5% Reading Indicator:Beeper
Environment	Operating Temperature: 0°C to 40°C Relative Humidity: 20% to 85 % (Non-condensing)	Operating Temperature: -10°C to 55°C Relative Humidity: 10% to 90 % (Non-condensing)
Physical	Cable: Straight 2.5ft Weight: Approx.61g	Cable: Straight 2.5ft Weight: Approx.60g
Interface	USB	USB

I. OSD Control Software



IEI patented system software utility allows users to adjust system settings through the software interface in Windows environment instead of pressing the membrane keypad below the front panel.



J. Selectable AT/ATX Power Mode



AT Power Mode



Applications

- ATM
- Self-service kiosk
- Plant environment monitoring system
- Factory automation platform
- Manufacturing shop flow

Advantages

- Easy to turn on/off with wall/panel mounting
- Automatic start when power connected

With the AT mode selected, the power is controlled by a central power unit rather than a power switch. The AFOLUX PPCs turns on automatically when the power is connected.



ATX Power Mode



Applications

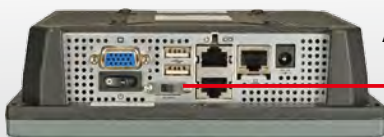
- Security surveillance
- Advertising terminal

Advantages

- Power management
- Remote control via network advantage

With the ATX mode selected, the AFL series panel PC goes in a standby mode when it is turned off. The panel PC can be easily turned on via network or a power switch in standby mode. Remote power control is perfect for advertising applications since the broadcasting time for each panel PC can be set individually and controlled remotely.

Convenient Power Mode Setting



AT/ATX switch on the rear panel

AT/ATX



AT/ATX switch is located at the bottom right on the aluminum chassis

1

IEI Mobile Solutions

2

Automation Panel Solutions

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RISC-based Solutions

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PACSmart Medical Solutions

5

Optional Peripherals

AFOLUX 5.7"~8.4" Selection Guide



LCD Size		5.7"		Wide 7"		8.0"		8.4"	
Model		AFL-057A-LX	AFL-057A-Z510 AFL-057A-Z530	AFL-07A-LX	AFL-07A-N270	AFL-08B-N270	AFL-F08A-N270	AFL-08AH-LX	AFL-08AH-N270
Display	LCD Size	5.7"		Wide 7"		8.0"		8.4"	
	Max Resolution (WxH)	640 x 480		800 x 480		800 x 600		800 x 600	
	Brightness (cd/m ²)	400		400		250		450	
	Contrast Ratio	300:1		400:1		400:1		600:1	
	LCD Color	262K		262K		262K		262K	
	Pixel Pitch (mm) (HxV)	0.06 (H) x 0.18 (V)		0.0635 (H) x 0.1905 (V)		0.2025 (H) x 0.2025 (V)		0.213 (H) x 0.213 (V)	
	Viewing Angle (H/V)	140°/100°		140°/110°		140°/ 130°		160°/140°	
	Backlight MTBF (hrs)	50000 (LED backlight panel)		50000 (LED backlight panel)		30000 (LED backlight panel)		50000 (LED backlight panel)	
Motherboard	CPU	AMD Geode LX800 500MHz Processor	Intel® Atom™ Z530 1.6GHz Processor Intel® Atom™ Z510 1.1GHz Processor	AMD Geode LX800 500MHz Processor	Intel® Atom™ Processor N270 1.6GHz CPU	Intel® Atom™ Processor N270 1.6GHz CPU		AMD Geode LX800 500MHz Processor	Intel® Atom™ Processor N270 1.6GHz CPU
	Chipset	AMD Geode LX800 + AMD CS5536	Intel® US15W	AMD Geode LX800 + AMD CS5536	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M		AMD Geode LX800 + AMD CS5536	Intel® 945GSE + ICH7M
	RAM	One 200-pin DDR SO-DIMM (max. 1GB)	One 200-pins DDR2 SO-DIMM (max. 2GB)	One 200-pin DDR SO-DIMM (max. 1GB)	One 200-pins DDR2 SO-DIMM (max. 2GB)	One 200-pin DDR2 SO-DIMM (max. 2GB)		One 200-pin DDR SO-DIMM socket, (max. 1GB)	One 200-pins DDR2 SO-DIMM (max. 2GB)
I/O Ports and Switches		1 x RS-232 COM Port (RJ-45) 1 x RS-232/422/485 COM Port (RJ-45) 1 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x VGA Port 1 x Power Jack	1 x RS-232/422/485 COM Port 1 x RJ-45 for GbE supports PoE 802.3af, PoE/PD 1 x USB 2.0 1 x Reset Button 1 x Power Input with Lock 1 x Reset Button	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out)	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x External SATA	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x External SATA		1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out)	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x External SATA
SSD		CF Type II							
Wireless Connection	Wi-Fi	IEEE 802.11 b/g (internal USB)	IEEE 802.11 b/g (internal Mini PCI)	IEEE 802.11 b/g (internal Mini PCI)	IEEE 802.11 b/g/n (internal PCIe Mini card)	IEEE 802.11 b/g/n (internal PCIe Mini card)		IEEE 802.11 b/g (internal Mini PCI)	IEEE 802.11 b/g/n (internal PCIe Mini card)
Audio/Video Device	Camera Module	--		--		300K pixels	2 megapixel with Low Light Function	--	
	Microphone	--		--		yes		--	
Physical	Dimensions (WxHxD) (mm)	180 x 135 x 55		226 x 140 x 41		234 x 177 x 43		234 x 134 x 42	
	Net Gross Weight	0.8 Kg		0.8 Kg		0.8 Kg	1.8 Kg	0.8 Kg	
System Cooling		Fanless							
Environment	Operation Temperature	0°C~50°C	-20°C~60°C	0°C~50°C	-10°C~50°C	-10°C~50°C		0°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C							
Power Requirement		12 VDC	5 VDC	12 VDC	12 VDC	12 VDC		12 VDC	12 VDC

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

AFOLUX Wide 10.2"~12.1" Selection Guide



LCD Size		Wide 10.2"	10.4"		12.1"	
Model		AFL-W10A-N270	AFL-10A-LX	AFL-10A-N270	AFL-12BX(S)-LXPOS	AFL-12A-N270
Display	LCD Size	Wide 10.2"	10.4"		12.1"	
	Max Resolution (WxH)	1024 x 600	800 x 600		1024 x 768 or 800 x 600	1024 x 768
	Brightness (cd/m ²)	400	400		500 or 450	500
	Contrast Ratio	400:1	600:1		700:1	600:1
	LCD Color	262K	262K		262K	262K
	Pixel Pitch (mm) (HxV)	0.2175 (H) x 0.2175 (V)	0.264 (H) x 0.264 (V)		0.240 (H) x 0.240 (V)	
	Viewing Angle (H/V)	140°/ 110°	160°/140°		160°/160° or 160°/140°	160°/160°
	Backlight MTBF (hrs)	40000	50000 (LED backlight panel)		50000 (LED backlight panel)	
Motherboard	CPU	Intel® Atom™ Processor N270 1.6GHz CPU	AMD Geode LX800 500MHz Processor	Intel® Atom™ Processor N270 1.6GHz CPU	AMD Geode LX800 500MHz Processor	Intel® Atom™ Processor N270 1.6GHz CPU
	Chipset	Intel® 945GSE + ICH7M	AMD Geode LX800 + AMD CS5536	Intel® 945GSE + ICH7M	AMD Geode LX800 + AMD CS5536	Intel® 945GSE + ICH7M
	RAM	One 200-pins DDR2 SO-DIMM (max. 2GB)	One 200-pin DDR SO-DIMM (max. 1GB)	One 200-pins DDR2 SO-DIMM (max. 2GB)	One 200-pin DDR SO-DIMM (max. 1GB)	One 200-pins DDR2 SO-DIMM (max. 2GB)
I/O Ports and Switches		1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x External SATA	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out)	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x External SATA	2 x RS-232 COM Port (pin 9 with RI, 5V or 12V switch selectable) 1 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x RJ-12 for Cash Drawer (12V)	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x External SATA
Drive Bay	HDD	--	--		1 x 2.5" IDE HDD bay	1 x 2.5" SATA HDD bay
	SSD		CF Type II			
Wireless Connection	Wi-Fi	IEEE 802.11 b/g/n (internal PCIe Mini card)	IEEE 802.11 b/g (internal Mini PCI)	IEEE 802.11 b/g/n (internal PCIe Mini card)	IEEE 802.11 b/g (internal Mini PCI)	IEEE 802.11 b/g/n (internal PCIe Mini card)
Audio/Video Device	Camera Module	300K pixels	--		--	
	Microphone	Yes	--		--	
Physical	Dimensions (WxHxD) (mm)	280 x 186 x 49	276 x 222 x 51		304 x 246 x 56	304 x 246 x 50
	Net Gross Weight	1.4 Kg	1.4 Kg		1.8 Kg	
System Cooling			Fanless			
Environment	Operation Temperature	-10°C~50°C	0°C~50°C	-10°C~50°C	0°C~50°C	0°C~40°C with SATA HDD -10°C~50°C with CF card or SATA SSD
	Storage Temperature	-20°C~60°C	-20°C~60°C		-20°C~60°C	
Power Requirement				12 VDC		

1

IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

AFOLUX 15" ~Wide 15.6" Selection Guide



LCD Size		15"			Wide 15.6"	
Model		AFL-15A(E)-N270	AFL-15D(E)-N270	AFL-15i(E)-HM55	AFL-W15A-N270	AFL-W15A-GM45
Display	LCD Size	15"			15.6"	
	Max Resolution (WxH)	1024 x 768			1366 x 768	
	Brightness (cd/m²)	350 or 250			250	
	Contrast Ratio	700:1 or 600:1			500:1	
	LCD Color	262K				
	Pixel Pitch (mm) (HxV)	0.297 (H) x 0.297 (V)				
	Viewing Angle (H/V)	140°/125° or 160°/160°			110°/85°	
	Backlight MTBF (hrs)	50000 or 40000			50000	
Motherboard	CPU	Intel® Atom™ Processor N270 1.6GHz CPU	Intel® Atom™ Processor N270 1.6GHz CPU	Intel® Celeron® M P4500 CPU	Intel® Atom™ Processor N270 1.6GHz CPU	Intel® Celeron® M 575 2.0GHz CPU Intel® Core™2 Duo P8400 2.26GHz Intel® Core™2 Duo T9400 2.53GHz
				Intel® Core™ i7/i5/i3	Intel® 945GSE + ICH7M	Intel® GM45 + ICH9M
	Chipset	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M	Intel® HM55	Intel® 945GSE + ICH7M	Intel® GM45 + ICH9M
	RAM	One 200-pins DDR2 SO-DIMM (max. 2GB)	One 200-pins DDR2 SO-DIMM (max. 2GB)	Two 204-pins DDR3 SO-DIMM (max. 8GB)	One 200-pins DDR2 SO-DIMM (max. 2GB)	Two 200-pins DDR2 SO-DIMM (max. 4GB)
I/O Ports and Switches	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15)			1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15) 1 x HDMI Port		1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15) 1 x HDMI Port
Drive Bay	HDD	1 x 2.5" IDE HDD bay			1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay or Optional HSUPA module
	SSD	CF Type II			SATA SSD	CF Type II
	CD-ROM	--	1 x Slim type ODD bay	--	--	--
Wireless Connection	Wi-Fi	IEEE 802.11 b/g/n (internal Mini PCI)			IEEE 802.11 b/g/n (internal PCIe Mini card)	
Audio/Video Device	Camera Module	--	--	--	300K pixels	
	Microphone	--	--	--	Yes	
Physical	Dimensions (WxHxD) (mm)	394 x 309 x 61	394 x 309 x 71	394 x 309 x 66	400 x 273 x 63	400 x 273 x 63
	Net Gross Weight	3.2 Kg	3.5 Kg	5.8 Kg	3.3 Kg	3.3 Kg
System Cooling		Fanless	Fanless	Active with fan	Fanless	Active with fan
Environment	Operation Temperature	0°C~40°C with SATA HDD -10°C~45°C with CF card or SATA SSD		0°C~50°C	0°C~40°C with SATA HDD -10°C~50°C with CF card or SATA SSD	
	Storage Temperature	-20°C~60°C		-20°C~60°C	-20°C~60°C	
Power Requirement		12 VDC				

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- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

AFOLUX 17"~19" Selection Guide



LCD Size		17"			19"	Wide 19"
Model		AFL-17D-N270	AFL-17D-GM45	AFL-17i-HM55	AFL-19i-HM55	AFL-W19A-N270
Display	LCD Size	17"			19"	
	Max Resolution (WxH)	1280 x 1024			1440 x 900	
	Brightness (cd/m ²)	300		380	450	300
	Contrast Ratio	800:1			1000:1	1000:1
	LCD Color	16.7M				16.2M
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)			0.294 (H) x 0.294 (V)	0.285 (H) x 0.285 (V)
	Viewing Angle (H/V)	160°/160°			178°/178°	170°/160°
	Backlight MTBF (hrs)	50000				
Motherboard	CPU	Intel® Atom™ Processor N270 1.6GHz CPU	Intel® Celeron® M 575 2.0GHz	Intel® Celeron® M P4500 CPU"	Intel® Celeron® M P4500 CPU	Intel® Atom™ Processor N270 1.6GHz CPU
			Intel® Core™2 Duo P8400 2.26GHz CPU	Intel® Core™ i7/i5/i3	Intel® Core™ i7/i5/i3	
			Intel® Core™2 Duo T9400 2.53GHz CPU			
	Chipset	Intel® 945GSE + ICH7M	Intel® GM45 + ICH9M	Intel® HM55	Intel® HM55	Intel® 945GSE + ICH7M
RAM	One 200-pin DDR2 SO-DIMM (max. 2GB)	Two 200-pin DDR2 SO-DIMM (max. 4GB)	Two 204-pin DDR3 SO-DIMM (max. 8GB)	Two 204-pin DDR3 SO-DIMM (max. 8GB)	One 200-pin DDR2 SO-DIMM (max. 2GB)	
I/O Ports and Switches	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15)		1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 6 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15) 1 x HDMI Port		1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15) 1 x HDMI Port	
	1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15)		1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15) 1 x HDMI Port		1 x RS-232 COM Port (DB-9) 1 x RS-232/422/485 COM Port (DB-9) 2 x RJ-45 for GbE LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out) 1 x VGA (DB-15) 1 x HDMI Port	
Drive Bay	HDD	1 x 2.5" SATA HDD bay				
	SSD	CF Type II			SATA SSD	SATA SSD
	CD-ROM	1 x Slim type ODD bay			--	--
Wireless Connection	WiFi	IEEE 802.11 b/g/n (internal PCIe Mini card)				
Audio/Video Device	Camera Module	300K pixels			--	300K pixels
	Microphone	Yes			--	Yes
Physical	Dimensions (WxHxD) (mm)	410 x 349 x 83			428 x 350 x 71	470 x 383 x 72
	Net Gross Weight	6.2 Kg			6.0 Kg	5.8 Kg
System Cooling		Fanless	Active with fan	Active with fan	Active with fan	Fanless
Environment	Operation Temperature	0°C~40°C with SATA HDD -10°C~50°C with CF card or SATA SSD			0°C~50°C	0°C~50°C
	Storage Temperature	-20°C~60°C				
Power Requirement		12 VDC				

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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Optional Peripherals

5.7" VGA AFOLUX PPC

AFL-057A-LX

AMD Geode™ LX 800 500MHz Processor

AFL-057A-Z510/Z530

5.7" Power over Ethernet (PoE) All-in-One Panel PC



Features

- 5.7" PoE compliant Panel PC with resistive touchscreen
- IEEE802.3af Power Over Ethernet (PoE) compliant
- Intel® Atom™ processor Z510P/Z530P up to 1.6 GHz
- Lower power consumption and fanless operation
- One CompactFlash® slot
- Wide operating temperature capability: -20°C to 60°C (AFL-057A-ZXX)
- IEI One Key Recovery solution for rapid OS backup and recovery (over 4 GB storage capacity recommended)
- IP64 compliant front panel



Specifications

Model	AFL-057A-LX	AFL-057A-Z510/Z530
LCD Size	5.7"	
Max Resolution	640 (W) x 480 (H)	
Brightness (cd/m²)	400	
Contrast Ratio	300:1	
LCD Color	262K	
Pixel Pitch (mm)	0.06 (W) x 0.18 (H)	
Viewing Angle (H-V)	140° / 100°	
Backlight MTBF	50,000 hrs (LED Backlight)	
SBC Model	AFLMB-LX2-800	AFLMB-US15W
CPU	AMD Geode™ LX 800 (500Mhz)	Intel® Atom™ Processor Z530P 1.6 GHz Intel® Atom™ Processor Z510P 1.1 GHz
Chipset	AMD LX800 + AMD CS5536	Intel® SCH: US15W
RAM	Supports one 333MHz or 400MHz DDR SO-DIMM (Max.1GB)	
I/O Ports	1 x RJ-45 for RS-232 COM port 1 x RJ-45 for RS-232/422/485 COM port 2 x USB 2.0 1 x RJ-45 for 10/100Mbps LAN 1 x VGA port 1 x Power switch 1 x Reset button 1 x Power jack	1 x RS-232/422/485 COM port 1 x RJ-45 for GbE supports IEEE 802.3af, PoE/PD 1 x USB 2.0 1 x Reset button 1 x 5V DC power input
SSD	CF Type II	
PoE Function	--	Require IEEE 802.3af 12.95W power input Power Device PD (Power-input)
Watchdog Timer	Software programmable supports 1~255 sec. system reset	
Audio	AMP 1.5W + 1.5W (internal speaker)	
Wireless Connection	1 x Wireless LAN 802.11 b/g Module (internal USB interface)	--
Construction Front Panel	ABS + PC Plastic front frame /Aluminum die-casting body	
LED Function	1 x LED on front panel for power on/off	
Mounting	Panel, Wall, Rack, Stand or Arm mounting VESA 75mm x 75mm	Panel, Wall, Stand and Arm VESA 75mm x 75mm
Front Panel Color	Gray 7539U	
Dimension (WxHxD) (mm)	180 x 135 x 55	
Operation Temperature (°C)	0°C~50°C	-20°C~60°C
Storage Temperature (°C)	-20°C ~ 60°C	
N/G Weight	0.8 Kg	
IP Level	Front Frame IP64	
Safety & EMC	CE / FCC	
Touch Screen	4-Wire Resistive Type (touch controller IC is on board)	
Power Adapter	P/N: 63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP025DGAA1705-RS (optional) 25W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 5VDC
Power Requirement	12VDC	5V DC-IN Power input or receives PoE Power from RJ45 Connector
Power Consumption	15W	12W

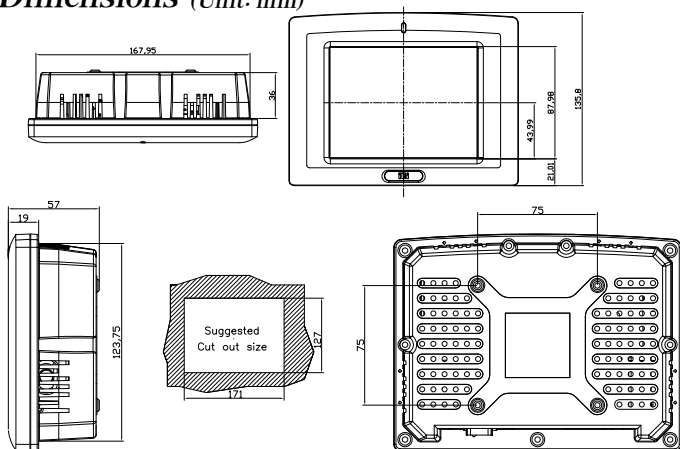
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PoE Panel PC Eliminates Need for AC Outlets

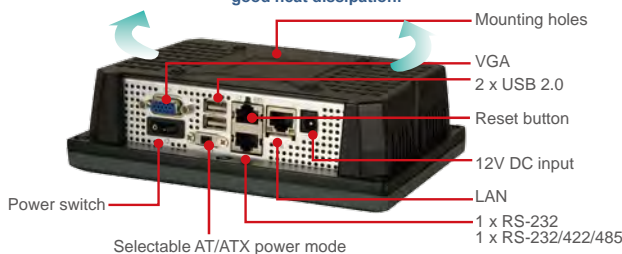
The IEI AFL-057A is IEEE 802.3af compliant. The IEEE 802.3af PoE standard ensures that 12.95W of DC power is provided to each connected device. PoE Technology describes a system that safely transfers electrical power, along with data, to remote devices over a standard category 5e cable in an Ethernet network.



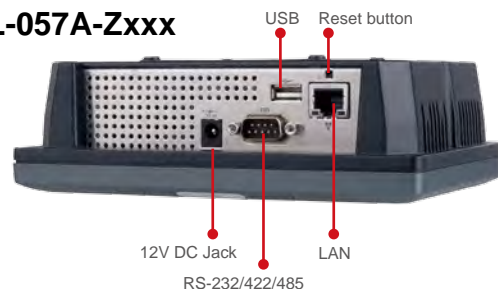
AFL-057A Dimensions (Unit: mm)



AFL-057A-LX Aluminum die-casting rear cover with good heat dissipation!



AFL-057A-Zxxx



Ordering Information

Part Number	Description
AFL-057A-LX/R/256M-R21	5.7" VGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, wireless module, touch screen and 256MB DDR RAM, R21, RoHS
AFL-057A-LX/R/512M-R21	5.7" VGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, wireless module, touch screen and 512MB DDR RAM, R21, RoHS
AFL-057A-Z530/ R/1G-R11	5.7" 400 cd/m ² VGA fanless panel PC with Intel® Atom™ Z530 1.6 GHz, PoE IEEE 802.3 af, touch screen, 1 GB DDR2 553 MHz, RoHS
AFL-057A-Z510/ R/1G-R11	5.7" 400 cd/m ² VGA fanless panel PC with Intel® Atom™ Z510 1.1 GHz, PoE IEEE 802.3 af, touch screen, 1GB DDR2 553 MHz, RoHS

Options

	Item	AFL-057A-LX	AFL-057A-Zxxx
IQ Mount	Panel Mount Kit		AFLPK-12
	Wall Mount Kit		AFLWK-12
	Rack Mount Kit		AFLRK-057
	ARM	ARM-11-RS / ARM-31-RS	
	Stand	STAND-A08 / STAND-C12 / STAND-100-RS	
	VSTAND	VSTAND-A07	
OS	Win XPE (1GB CF card)	AFLCF-057-LX-XPE-R10	AFLCF-057-US15W-XPE-R10
	Win 7 Embedded (2GB CF card)	N/A	AFLCF-057-US15W-WES7E-R10
	Win CE 5.0 (128MB CF card)	AFLCF-057-LX-CE5-R10	N/A
	Win CE 6.0 (128MB CF card)	AFLCF-057-LX-CE6-R10	AFLCF-057-US15W-CE6-R10
	Linux (2GB CF card)	AFLCF-057-US15W-LNX-R10	N/A
	Industrial PoE Switch (4 ports P.S.E)	N/A	IPS-2042TX
Card Reader	Hybrid Card Reader	AFLP-08AMSI-U	AFLP-08AMSI-U
	Magnetic Stripe Reader	AFLP-08AMSR-U	AFLP-08AMSR-U
Power Adapter	DC to DC converter module	IDD-930160-KIT	N/A
	DC 12V Input UPS	AUPS-A10-R1- (7.4V 3800mAh)	N/A
	DC 9-36V Input UPS	AUPS-A10-R1- (7.4V 3800mAh)	N/A
	25W Power Adapter for AFL-057A-Zxxx	N/A	63000-FSP025DGAA1705-RS
Bluetooth	Bluetooth V2.0+EDR	AFL-BT-KIT03-R10	N/A

IPS-2042TX

Industrial 6-port Lite-Managed PoE Ethernet Switch



- World's fastest Redundant Ethernet Ring : O-Ring (Recovery time < 10 ms over 250 units of connection)
- Multiple Redundant Ethernet technology RSTP/STP, O-Ring supported
- SNMP v1 supports secured network management
- Web-based configuration and Windows utility (Open-Vision)
- Triple redundant DC power inputs via terminal block and power jack
- Event notification through Syslog, Email, and SNMP trap
- Two 100Base-FX fiber ports support long distance connections
- 4 ports support P.S.E based on IEEE 802.3af standard up to 25 watts per port
- Wide operating temperature range from -40°C to 70°C

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3,5mm
Power Adpater	63000-FSP036RAB608-RS	1	90~264V AC; 12V DC; 36W (for AFL-057A-LX)
Power Cord	32000-000002-RS	1	1750mm (EU or US, depending on the shipment country) (for AFL-057A-LX)
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmart Medical Solutions

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Optional Peripherals

7" Wide Screen WVGA AFOLUX PPC

AFL-07A-LX

AMD Geode™ LX 800 500 MHz Processor

AFL-07A-N270

Intel® Atom™ N270 1.6GHz Processor

AFL-W07A-N26

Intel® Atom™ N2600 1.6GHz Processor



9V ~ 28V Wide DC Power Input

The compact fanless AFL-W07A-N26 model with widescreen high-brightness panel is ideal for setup in a place where space and light is limited. This makes it an ideal choice for mobile and transportation PC applications.



Features

- 7" widescreen WVGA LED backlight TFT LCD with resistive touch screen
- 9V~28V wide range DC power input (for Intel® N2600 platform)
- Compact design with plastic housing
- Fanless cooling system
- Selectable AT/ATX power mode
- System memory up to 2 GB SDRAM
- Built-in 802.11b/g/n Wireless LAN
- Built-in speakers
- One compactFlash® slot
- IP64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (suggest with over 4GB storage capacity)

Specifications

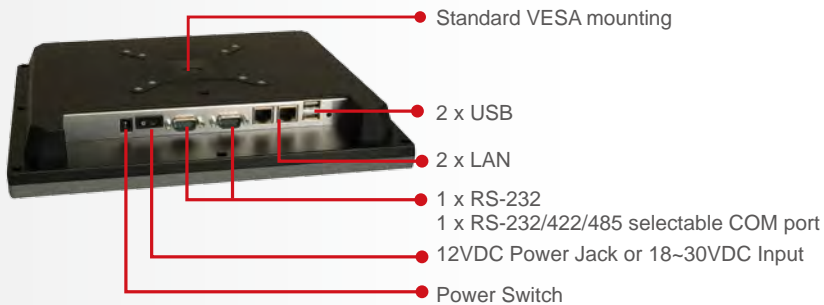


Model	AFL-07A-LX / AFL-07A-LX24V	AFL-07A-N270	AFL-W07A-N26
LCD Size	7"		
Max Resolution	800 x 480		
Brightness (cd/m²)	500		
Contrast Ratio	400:1		
LCD Color	262K		
Pixel Pitch (mm)	0.0635 (H) x 0.1905 (V)		
Viewing Angle (H-V)	140° / 110°		
Backlight MTBF	50000 hrs (LED Backlight)		
SBC Model	AFLMB-LX-800	AFLMB-945GSE-N270-R10	AFLMB-CV-N2600-R10
CPU	AMD Geode™ LX 800 (500Mhz)	Intel® Atom™ processor N270 1.6GHz CPU	Intel® Atom™ N2600 dual core 1.6 GHz CPU
Chipset	AMD LX800 + AMD CS5536	Intel® 945GSE + ICH7M	Intel® NM10
RAM	Supports one 333MHz or 400MHz DDR SO-DIMM (1GB Max.)	Supports one 400MHz or 533MHz DDR2 SO-DIMM (2GB Max.)	One 800 MHz 204-pin DDR3 SO-DIMM slot (max. 2G) pre-installed with 2GB
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Jack (Line-out)	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for GbE 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x External SATA 1 x Audio Jack (Line-out)	1 x 9-28V Lockable DC Jack 1 x RJ45 for RS-232 1 x RS-232/422/485 1 x VGA 2 x GbE LAN 2 x USB 2.0 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Line out
SSD	CF Type II		mSATA
Watchdog Timer	Software programmable supports 1~255 sec. system reset		
Audio	AMP 1.5W + 1.5W (internal speaker)		AMP 2W + 2W (internal speaker)
Wireless Connection	1 x Wireless LAN 802.11 b/g Module (internal Mini PCI interface)	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)	1 x Wireless LAN 802.11 b/g/n 2T2R Module (internal PCIe Mini card interface)
Construction Front Panel	ABS + PC Plastic front frame		
LED Function	1 x LED on front panel for power on/off		
Mounting	Panel, Wall, Rack, Stand or Arm mounting VESA 75mm x 75mm		
Front Panel Color	Gray 7539U		
Dimensions (WxHxD) (mm)	226 x 140 x 41		
Operation Temperature (°C)	0~50°C	-10°C ~50°C	-10°C~50°C
Storage Temperature (°C)	-20°C ~ 60°C		
N/G Weight	0.6 Kg		
IP Level	Front Frame IP64		
Safety & EMC	CE / FCC		
Touch Screen	4-wire Resistive Type (touch controller IC is on board)		
Power Adapter	P/N: 63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC		P/N: 63000-FSP036RAB610-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC/ 18~30VDC	12VDC	9-28V DC
Power Consumption	20W	23W	23W

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- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Fully Integrated I/O

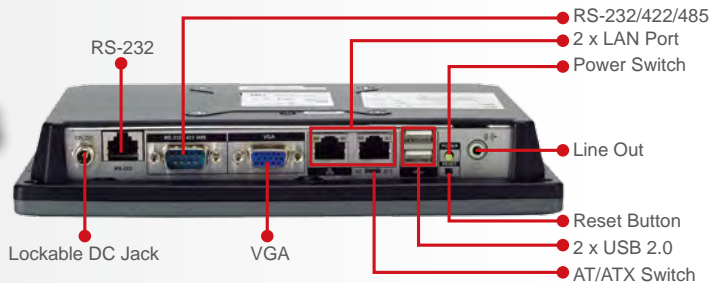
AFL-07A-LX



AFL-07A-N270



AFL-W07A-N26



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IEI Mobile Solutions

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Automation Panel Solutions

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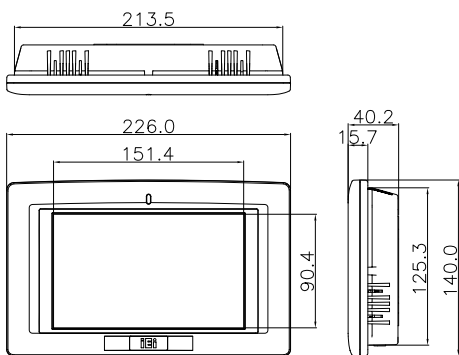
RISC-based Solutions

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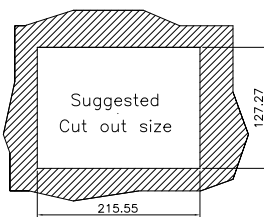
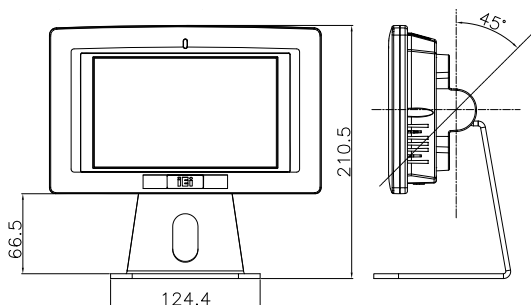
PACSmate Medical Solutions

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Optional Peripherals



AFL-07A/AFL-W07A
Dimensions (Unit: mm)



(Optional Stand Kit)

Ordering Information

Part Number	Description
AFL-07A-LX/R/256-R22	7" 500 cd/m ² , WVGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g Wireless Module, Touch screen and 256MB DDR RAM, R22
AFL-07A-LX/R/512-R22	7" 500 cd/m ² , WVGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g Wireless Module, Touch screen and 512MB DDR RAM, R22
AFL-07A-N270/R/1G-R23	7" 500 cd/m ² WVGA fanless panel PC with Intel® Atom™ N270 1.6GHz, 802.11b/g/n wireless module, touch screen, 1GB DDR2 533, R23
AFL-W07A-N26/R/2G-R10	7" 500cd/m ² , WVGA fanless panel PC with Intel® Atom™ cedarview N2600 dual core 1.6GHz, 802.11b/g/n wireless module, touch screen, 2GB DDR3, R10

Options

Model	AFL-07A-LX	AFL-07A-N270	AFL-W07A-N26
Panel Mounting Kit		AFLPK-12	
Wall Mounting Kit		AFLWK-12	
Rack Mounting Kit		AFLRK-07	
Arm		ARM-11-RS / ARM-31-RS	
Stand		STAND-A08 / STAND-100-RS	
VSTAND		VSTAND-A07	
9-30VDC to 12VDC Converter Module		IDD-930160-KIT	
OS: Win CE 5.0 (128 MB CF card)	AFLCF-07-LX-CE-R21	N/A	N/A
OS: Win CE 6.0 (128 MB CF card)	AFLCF-07-LX-CE060-R21	AFLCF-07-N270-CE060-R21	AFL-W07-N26-CE060-R10*
OS: Win XPE (1 GB CF card)	AFLCF-07-LX-XPE-R21	AFLCF-07-N270-XPE-R21	AFL-W07-N26-LNX-R10*
OS: LINUX (2 GB CF card)	AFLCF-07-LX-LNX-R21	AFLCF-07-N270-LNX-R21	AFL-W07-N26-WES7E-R10*
OS: Win 7 Embedded (2 GB CF card)	N/A	AFLCF-07-N270-WES7E-R21	AFL-W07-N26-XPE-R10*
Hybrid Card Reader		AFLP-08AMSI-U	
Magnetic Stripe Reader		AFLP-08AMSR-U	
DC 12V Input UPS		AUPS-A10-R10 (7.4V 3800mAH)	
DC 9-36V Input UPS		AUPS-A20-R10 (7.4V 3800mAH)	
Bluetooth V2.0+EDR		AFL-BT-KIT02-R10	

*OS image with CD-ROM

ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	WDT	Cash Drawer
AFL-07A-LX	V			V	V	
AFL-07A-N270	V			V	V	
AFL-W07A-N26	V			V	V	

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3;5mm
Power Adpater	63000-FSP036RAB608-RS 63000-FSP036RAB610-RS (for AFL-07A-N26)	1	90~264V AC; 12V DC; 36W
Power Cord	32000-000002-RS	1	1750mm; European Standard (EU or US, depending on the shipment country)
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

8.4" SVGA AFOLUX Panel PC

AFL-08AH-LX

AMD Geode™ LX 800 500 MHz Processor

AFL-08AH-N270

Intel® Atom™ N270 1.6GHz Processor

AFL-08A-N26

Intel® Atom™ N2600 1.60 GHz Processor **New**



Features

- 8.4" TFT LED Backlight LCD with resistive touch screen
- 9V~28V wide range DC power input (for Intel® N2600 platform)
- Fanless cooling system
- Selectable AT/ATX power mode
- System memory up to 2GB SDRAM
- Built-in 802.11b/g/n Wireless LAN
- Built-in speakers
- One CompactFlash® slot
- IP64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



Specifications

Model	AFL-08AH-LX	AFL-08AH-N270	AFL-08A-N26
LCD Size		8.4"	
Max Resolution		800 x 600	
Brightness (cd/m ²)		450	
Contrast Ratio		600:1	
LCD Color		262K	
Pixel Pitch (mm)		0.213 (H) x 0.213 (V)	
Viewing Angle (H-V)		160° / 140°	
Backlight MTBF		50000 hrs (LED Backlight)	
SBC Model	AFLMB-LX-800	AFLMB-945GSE-N270-R10	
CPU	AMD Geode™ LX 800 (500MHz)	Intel® Atom™ process N270 1.6GHz CPU	Intel® Atom™ N2600 dual core 1.6 GHz CPU
Chipset	AMD LX 800 + AMD CS5536	Intel® 945GSE + ICH7M	Intel® NM10
RAM	Supports one 400MHz or 533MHz DDR SO-DIMM (Max.1GB)	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)	One 800 MHz 204-pin DDR3 SO-DIMM slot (Max. 2GB)pre-installed with 2GB
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for GbE 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x External SATA 1 x Audio Port 1 x Power Jack	1 x 9-28V Lockable DC Jack 1 x RJ45 for RS-232 1 x RS-232/422/485 1 x VGA 2 x GbE LAN 2 x USB 2.0 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Line out
SSD		CF Type II	
Watchdog Timer		Software programmable supports 1~255 sec. system reset	
Audio		AMP 1.5W + 1.5W (internal speaker)	AMP 2W + 2W (internal speaker)
Wireless Connection	1 x Wireless LAN 802.11 b/g Module (internal Mini PCI interface)	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)	1 x Wireless LAN 802.11 b/g/n 2T2R Module (internal PCIe Mini card interface)
Construction Front Panel		ABS + PC Plastic front frame	
LED Function		1 x Power on/off LED on front panel	
Mounting		Panel, Wall, Rack, Stand and Arm VESA 75mm x 75mm	
Front Panel Color		Gray 7539U	
Dimensions (WxHxD) (mm)		234 x 184 x 42	
Operation Temperature (°C)	0°C ~ 50°C	-10°C ~50°C	-10°C ~50°C
Storage Temperature (°C)		-20°C ~ 60°C	
N/G Weight		0.8 Kg	
IP Level		Front Frame IP64	
Safety & EMC		CE / FCC	
Touch Screen		4-Wire Resistive Type (touch controller IC is on board)	
Power Adapter	P/N: 63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC		P/N: 63000-FSP036RAB610-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC	12VDC	9-28V DC
Power Consumption	20W	29W	29W

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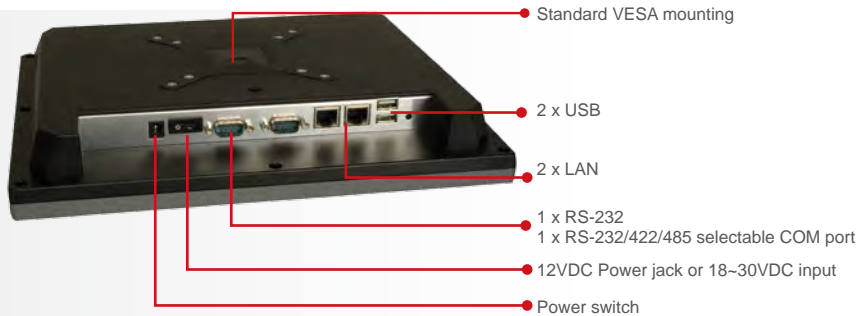
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RISC-based Solutions

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PACSmate Medical Solutions

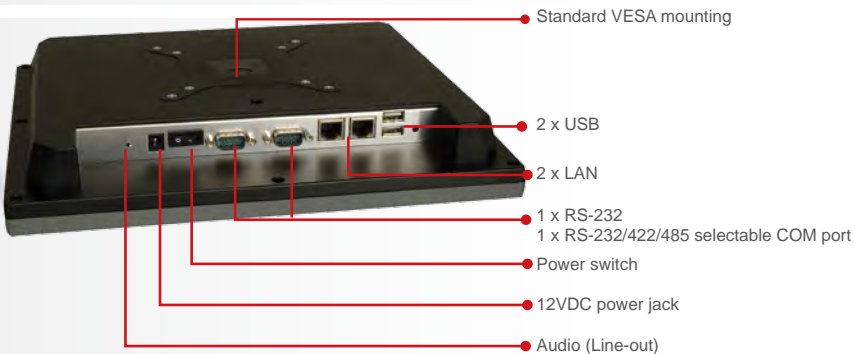
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Optional Peripherals

Fully Integrated I/O

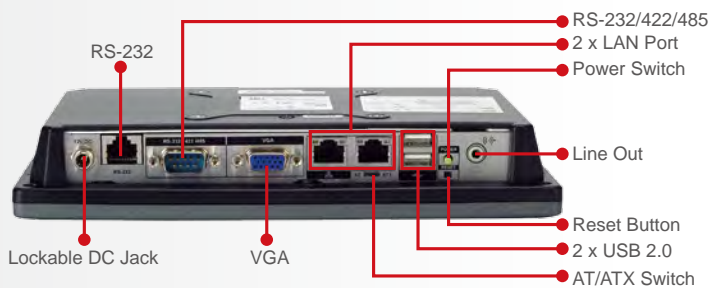
AFL-08AH-LX



AFL-08AH-N270



AFL-08A-N26



AFL-08AH/AFL-08A
Dimensions (Unit: mm)

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Optional Peripherals

Ordering Information

Part Number	Description
AFL-08AH-LX/R/256-R22	8.4" 450 cd/m ² , SVGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g Wireless Module, Touch screen and 256MB DDR RAM, R22
AFL-08AH-LX/R/512-R22	8.4" 450 cd/m ² , SVGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g Wireless Module, Touch screen and 512MB DDR RAM, R22
AFL-08AH-N270/R/1G-R23	8.4" 450 cd/m ² , SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz, 802.11b/g/n wireless module, touch screen, 1GB DDR2 533MHz, R23
AFL-08A-N26/R/2G-R10	8.4" 450cd/m ² , SVGA fanless panel PC with Intel® Atom™ cedarview N2600 dual core 1.6GHz, 802.11b/g/n wireless module, touch screen, 2GB DDR3, R10

Options

Model	AFL-08AH-LX	AFL-08AH-N270	AFL-08A-N26
Panel Mounting Kit	AFLPK-12		
Wall Mounting Kit	AFLWK-12		
Rack Mounting Kit	AFLRK-08		
Arm	ARM-11-RS / ARM-31-RS		
Stand	STAND-A08 / STAND-100-RS		
VSTAND	VSTAND-A10		
9-30VDC to 12VDC Converter Module	IDD-930160-KIT		
OS: Win CE 5.0 (128 MB CF card)	AFLCF-08-LX-CE-R21	--	
OS: Win CE 6.0 (128 MB CF card)	AFLCF-08-LX-CE060-R21	AFLCF-08-N270-CE060-R21	AFL-08-N26-CE060-R10
OS: Win XPE (1 GB CF card)	AFLCF-08-LX-XPE-R21	AFLCF-08-N270-XPE-R21	AFL-08-N26-LNX-R10
OS: LINUX (2 GB CF card)	AFLCF-08-LX-LNX-R21	AFLCF-08-N270-LNX-R21	AFL-08-N26-WES7E-R10
OS: Win 7 Embedded (2GB CF card)	--	AFLCF-08-N270-WES7E-R21	AFL-08-N26-XPE-R10
Hybrid Card Reader	AFLP-08AMSI-U		
Magnetic Stripe Reader	AFLP-08AMSR-U		
DC 12V Input UPS	AUPS-A10-R10 (7.4V 3800mAH)		
DC 9-36V Input UPS	AUPS-A20-R10 (7.4V 3800mAH)		
Bluetooth V2.0+EDR	AFL-BT-KIT02-R10	AFL-BT-KIT01-R10	AFL-BT-KIT02-R10

*OS image with CD-ROM

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Optional Peripherals

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Cash Drawer
AFL-08AH-LX	V			V		V	
AFL-08AH-N270	V			V		V	
AFL-08AH-N26	V			V		V	

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3;5mm
Power Adpater	63000-FSP036RAB608-RS 63000-FSP036RAB610-RS (for AFL-08A-N26)	1	90~264V AC; 12V DC; 36W
Power Cord	32000-000002-RS	1	1750mm; European Standard (EU or US, depending on the shipment country)
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

AFL-F08A 8" Flat-bezel Panel PC

The new 8" panel is a full-flat surface touchscreen PC. The AFL-F08A includes all necessary input/output interfaces to control any subsystem or automation hardware in your office, business, or home. The new stylish design is easily integrated into any environment. The front panel is IP64 compliant. An optional projected capacitive touchscreen provides a multi-touch interactive user experience.

Features:

- 8.0" LED TFT LCD with stylish flat-bezel touchscreen
- Optional projected capacitive touchscreen supports multi-touch
- Fanless system with Intel® Atom™ Processor N270 (512K Cache, 1.60 GHz, 533 MHz FSB)
- Hot keys controlled by cap-sensor in the front panel
- Optional color change kit matches the style of any decoration
- Wireless Wi-Fi LAN 802.11 b/g/n
- Built-in 2 megapixel CMOS camera with low-light capability
- Two 1.5W speakers and microphone for multimedia applications
- IP64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (suggest with over 4GB storage capacity)

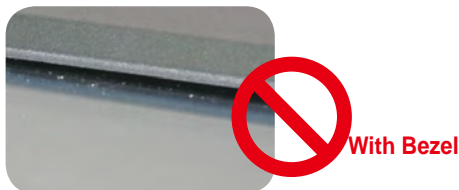


Full-flat Surface Touchscreen

The AFL-F08A flat-bezel design covers the entire front frame (bezel) of standard LCD to make the screen and bezel appear to blend together. The seamless flat-bezel touchscreen system offers a stylish and easy to clean surface.

Flat-bezel Advantages:

- Better visual effects
- No edge effect
- Sleek and stylish
- Easy to clean



Applications:



OFFICE



LIVING ROOM



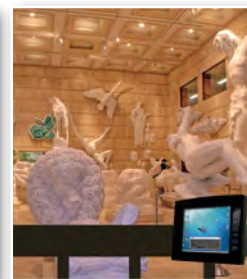
YACHTING



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AUTOMATION



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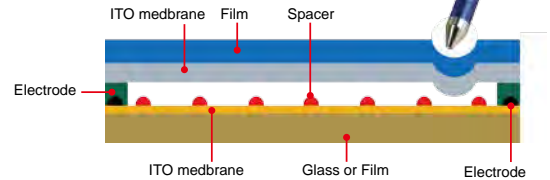
Optional Peripherals

5-wire Resistive Touch Sensor



Operational Theory

There are two major parts of resistive touch panel: ITO film and ITO glass. Two conductive layers are separated and isolated by the dot spacers scattered evenly on the ITO glass. Only when the proper activation force is applied onto the ITO film, these two conductive layers are contacted and the analog signal (the voltage) will be sent out to the touch panel controller then transferred into a digital signal for system processing.



Touch Window Architecture

The AFL-F08A utilizes touch window technology which consists of a decorative film overlay mounted in front of the touch panel to achieve the true-flat surface of a flat-bezel touch system.



Projected Capacitive Touch Sensor

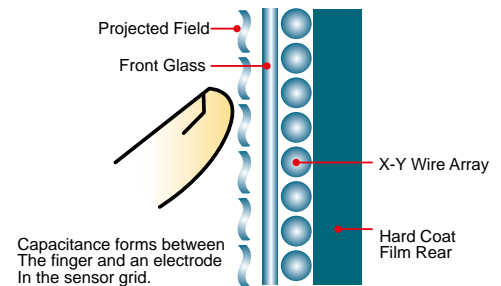
Operational Theory

Projected capacitive touch is based on principle of embedding an array of micro-fine sensing wires within a multi-layer laminated screen behind a protective front surface, ensuring that the sensing medium is well-protected from accidental damage.



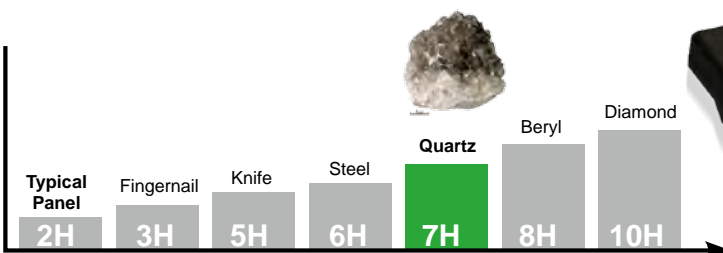
Windows® 7 with Multi-touch Capability

The AFL-F08A comes with the true multi-touch Microsoft Windows 7 operating system. Windows 7 features improved touch and gesture support. With Windows 7, handwriting recognition is faster, more accurate and with more language support.



7H Anti-scratch Surface (Projected capacitive type touch screen)

Projected Capacitive touch technology utilizes a durable glass front surface. 7H hardness is stronger than the conventional touch panel and therefore is able to protect the screen from damage.



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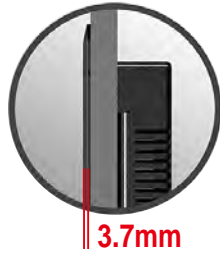
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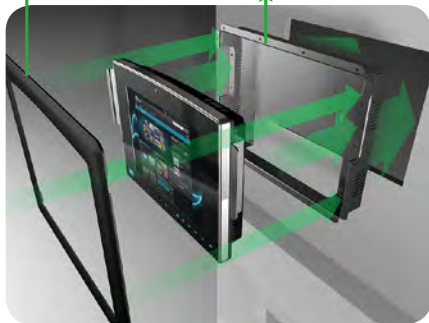
Optional Peripherals

Picture Frame In-Wall Mount

This optional kit includes a decorative front plate and wall mount enclosure to securely house the AFL-F08A panel PC. The enclosure includes knockouts for power and I/O interface cables.



Decorative front plate
In-Wall Enclosure

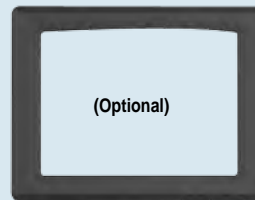


• Optional Decorative Kit:

DIM.
300mm x 230mm x 3.7mm



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Restaurant Interactive Multi-touch Table

Applications



The AFL-F08A interactive system can be mounted in tables from which your customers can order, track and pay for their meal. The terminals can also be used to play digital games while waiting for the food to be served.

At the Table

POS/Front of Restaurant

Back Office



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Casino Customer Relationship Management

Applications



The user friendly all-in-one system helps casino managers and dealers to identify players and to calculate and record winnings. It is easy to connect to peripherals such as card readers and ticket reader/printers. Convenient and reliable communication with system management servers can be achieved through LAN or wireless LAN connection.

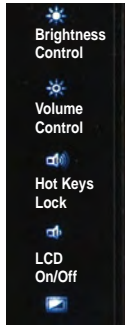


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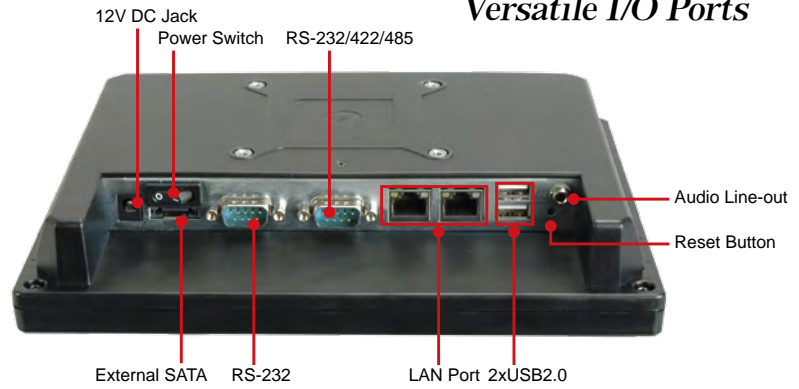
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Optional Peripherals

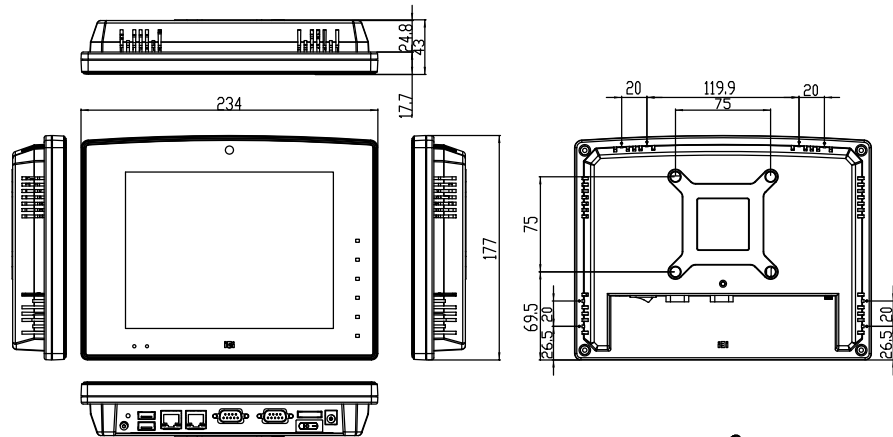
Hot Keys Controlled by Cap-Sensor



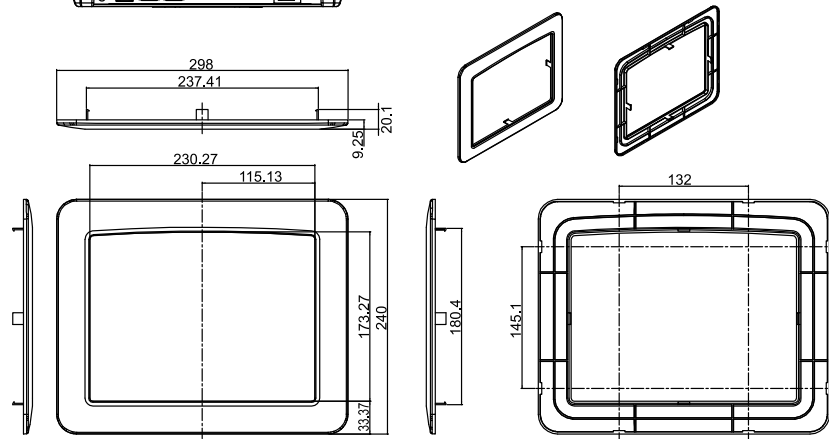
Versatile I/O Ports



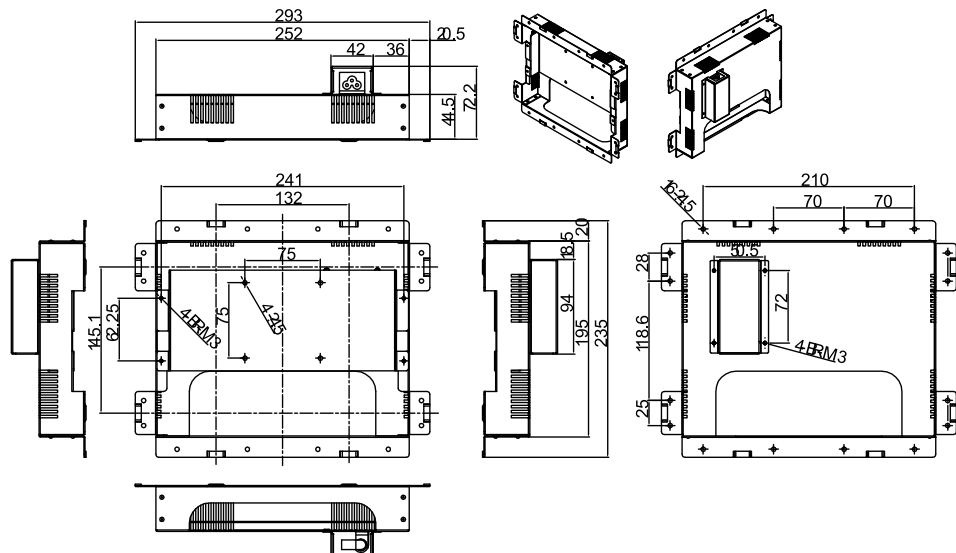
AFL-F08A Dimensions (Unit: mm)



Decoration Kit Dimensions (Unit: mm)



In-Wall Cage Dimensions (Unit: mm)



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Optional Peripherals

Specifications

Model	AFL-F08A-N270	
LCD Size	8"	
Max Resolution	800 x 600	
Brightness (cd/m ²)	250	
Contrast Ratio	500:1	
LCD Color	262K	
Pixel Pitch (mm)	0.2025 (H) x 0.2025 (V)	
Viewing Angle (H-V)	140° / 130°	
Backlight MTBF	30000 hrs (LED Backlight)	
SBC Model	AFLMB-945GSE-N270-R10	
CPU	Intel® Atom™ Processor N270 (512K Cache, 1.60 GHz, 533 MHz FSB)	
Chipset	Intel® 945GSE + ICH7M	
RAM	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)	
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for GbE 2 x USB 2.0	1 x Reset Button 1 x Audio Port (line-out) 1 x 12V DC Power Jack 1 x External SATA
SSD	CF Type II	
Watchdog Timer	Software programmable supports 1~255 sec. system reset	
Audio	AMP 1.5W + 1.5W (internal speakers)	
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini interface)	
Camera	2 megapixel with Low Light Function and digital microphone	
Front Panel Construction	ABS + PC Plastic front frame	
Membrane Keypad	LCD on/off, Brightness up/down, Volume up/down by cap-sensor	
Mounting	In-Wall, Panel, Wall, Stand and Arm VESA 75mm x 75mm	
Front Panel Color	Black	
Dimensions (WxHxD) (mm)	234 x 177 x 43	
Operation Temperature (°C)	-10°C – 50°C	
Storage Temperature (°C)	-20°C – 60°C	
N/G Weight	1.8Kg	
IP Level	IP64 compliant front panel	
Safety & EMC	CE / FCC	
Touch Screen	5 (touch controller IC is on board) or projected capacitive type touch screen	
Power Adapter	63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	
Power Requirement	12VDC	
Power Consumption	32W	



Ordering Information

	Part Number	Description
Resistive Touch Panel	AFL-F08A-N270/R/1G-R24	8.0" 250cd/m ² SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n Wi-Fi, touch screen, 2 megapixel camera, R24, microphone
Projected Capacitive Multi-Touch Panel	AFL-F08A-N270/PC/1G-R24	8.0" 250cd/m ² SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n Wi-Fi, projected capacitive multi-touch panel screen, 2 megapixel camera, R24, microphone

Options

Item	AFL-F08A-N270/R (Resistive type touch)	AFL-F08A-N270/PC (PCT type touch)
Panel Mounting Kit	AFLPK-12	
Wall Mounting Kit	AFLWK-12	
Rack Mounting Kit	AFLRK-08	
Arm	ARM-11-RS / ARM-31-RS	
Stand	STAND-A08 / STAND-100-RS / STAND-C12	
VSTAND	VSTAND-A10	
9~30VDC to 12VDC converter module	IDD-930160-KIT	
OS: Win CE 6.0 (128 MB CF card)	AFLCF-F08-N270-CE060-R24	
OS: Win XPE (1 GB CF card)	AFLCF-F08-N270-XPE-R24	
OS: LINUX (2 GB CF card)	AFLCF-F08-N270-LNX-R24	
OS: Win 7 Embedded (2 GB CF card)	AFLCF-F08-N270-WES7E-R24	AFLCF-F08-N270-WES7P-R24
Hybrid Card Reader	AFLP-08AMSI-U	
Magnetic Stripe Reader	AFLP-08AMSR-U	
DC 12V Input UPS	AUPS-A10-R10 (7.4V 3800mAH)	
DC 9~36V Input UPS	AUPS-A20-R10 (7.4V 3800mAH)	
In-wall Cage	AFLIWC-F08A-R10	
Bluetooth V2.0+EDR	AFL-BT-KIT02-R10	

Note: Multi-touch function is only supported on Windows 7 on PCT type touch.

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3;5mm
Power Adpater	63000-FSP036RAB608-RS	1	90~264V AC; 12V DC; 36W
Power Cord	32000-000002-RS	1	1750mm; European Standard (EU or US, depending on the shipment country)
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

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Optional Peripherals

8" SVGA AFOLUX PPC

AFL-08B-N270

Intel® Atom™ Processor N270 1.60 GHz



Features

- 8" LED backlight LCD panel with resistive type touch screen
- Built-in 2megapixel camera with low light capability
- Built-in digital microphone
- Selectable AT/ATX power mode via internal switch
- Fanless cooling system
- System memory up to 2 GB SDRAM
- Built-in 802.11b/g/n Wireless LAN
- Built-in two 1.5 W speakers
- One CompactFlash® slot
- IP64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



Specifications

Model	AFL-08B-N270
LCD Size	8"
Max Resolution	800 x 600
Brightness (cd/m ²)	250
Contrast Ratio	400 : 1
LCD Color	262K
Pixel Pitch (mm)	0.2025 (H) x 0.2025 (V)
Viewing Angle (H-V)	140° / 130°
Backlight MTBF	30000 hrs (LED backlight)
SBC Model	AFLMB-945GSE-N270-R10
CPU	Intel® Atom™ Processor N270 (512K L2 Cache, 1.60 GHz, 533 MHz FSB)
Chipset	Intel® 945GSE + ICH7M
RAM	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for GbE 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x External SATA 1 x Audio Port 1 x Power Jack
SSD	CF Type II
Watchdog Timer	Software programmable supports 1-255 sec. system reset
Audio	AMP 1.5W + 1.5W (internal speakers)
Camera Module	2megapixel camera with digital microphone
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)
Construction Front Panel	ABS + PC Plastic front frame
LED Function	1 x Power on/off LED on front panel
Mounting	Panel, Wall, Rack, Stand and Arm VESA 75mm x 75mm
Front Panel Color	Gray 7539U
Dimensions (WxHxD) (mm)	234 x 177 x 43
Operation Temperature (°C)	-10°C ~50°C
Storage Temperature (°C)	-20°C ~60°C
N/G Weight	0.8 Kg
IP Level	Front Frame IP64
Safety & EMC	CE / FCC
Touch Screen	5-wire resistive type (touch controller IC is on board)
Power Adapter	P/N: 63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC
Power Consumption	25W

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RISC-based Solutions

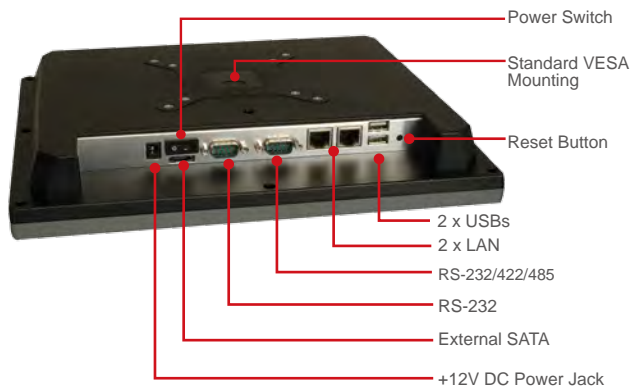
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Optional Peripherals

Fully Integrated I/O



LED-backlight PPC Delivers Vivid Images

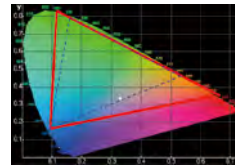
The AFL-08B-N270 is the first panel PC with its compact size to incorporate a LED backlight - making viewing and editing photos a lot better than previous CCFL illumination models.

LED backlighting PPC displays clear and vivid pictures!

Enhancement of image quality on LCD screen

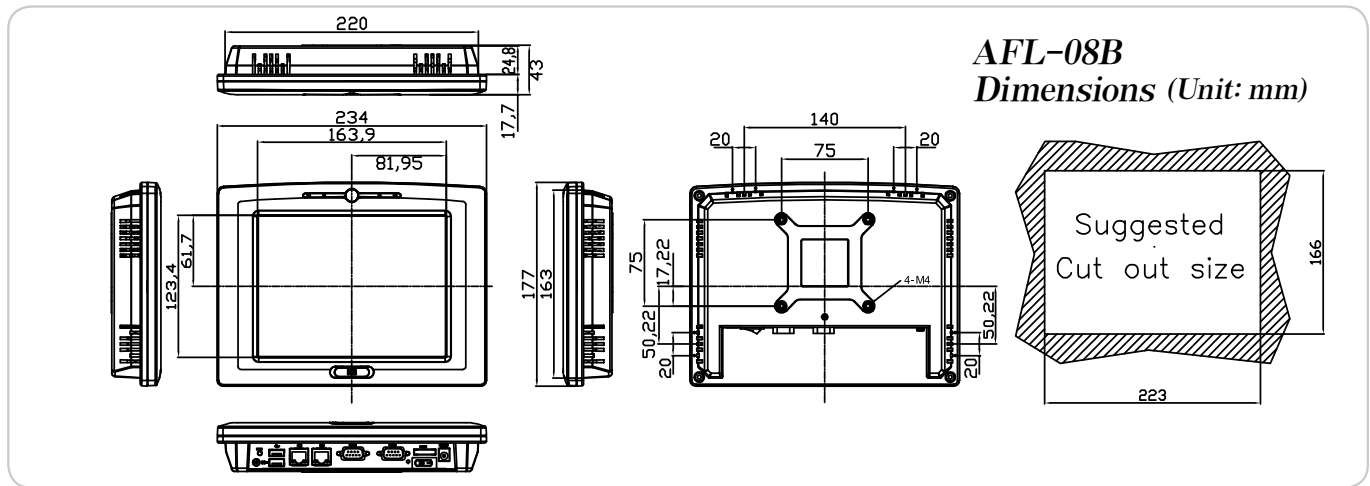
- Wider color gamut
- More even screen illumination
- Longer display life
- Low temperature operation and greater power efficiency

Color Gamut Comparison



— LED
- - - Normal CCFL

The LED backlight makes the image color shown on the LCD screen look nature and vivid.



AFL-08B
Dimensions (Unit: mm)

Ordering Information

Part Number	Description
AFL-08B-N270/R/1G-R23	8" 250 cd/m ² , SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz, 802.11b/g/n wireless module, touch screen, 2megapixel camera with digital microphone, 1GB DDR2 533MHz, R23

Options

Item	P/N
Panel Mounting Kit	AFLPK-12
Wall Mounting Kit	AFLWK-12
Rack Mounting Kit	AFLRK-08
Arm	ARM-11-RS / ARM-31-RS
Stand	STAND-A08 / STAND-100-RS
VSTAND	VSTAND-A10
9~30VDC to 12VDC converter module	IDD-930160-KIT
OS: Win CE 6.0 (128 MB CF card)	AFLCF-08-N270-CE060-R23
OS: Win XPE (1 GB CF card)	AFLCF-08-N270-XPE-R23
OS: LINUX (2 GB CF card)	AFLCF-08-N270-LNX-R23
OS: Win 7 Embedded (2GB CF card)	AFLCF-08-N270-WES7E-R23
Hybrid Card Reader	AFLP-08BMSI-U
Magnetic Stripe Reader	AFLP-08BMSR-U
DC 12V Input UPS	AUPS-A10-R10 (7.4V 3800mAh)
DC 9~36V Input UPS	AUPS-A20-R10 (7.4V 3800mAh)
Bluetooth V2.0+EDR	AFL-BT-KIT02-R10

Note: Win CE application without digital microphone function

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	WDT	Cash Drawer
AFL-08B-N270	V			V	V	

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3;5mm
Power Adpater	63000-FSP036RAB608-RS	1	90~264V AC; 12V DC; 36W
Power Cord	32000-000002-RS	1	1750mm (EU or US, depending on the shipment country)
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

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Optional Peripherals

Wide 10.2" WSVGA AFOLUX PPC

AFL-W10A-N270

Intel® Atom™ Processor N270 1.60 GHz



New Wide Screen

Features

- Wide 10.2" TFT LCD with resistive touch screen
- Fanless cooling system
- Built-in 2megapixel camera with digital microphone module
- Selectable AT/ATX power mode through the switch inside the chassis
- System memory up to 2 GB SDRAM
- Built-in 802.11b/g/n wireless LAN
- Built-in two 1.5 W speakers
- One CompactFlash® slot
- IP 64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



Specifications

Model	AFL-W10A-N270
LCD Size	Wide 10.2"
Max Resolution	1024 x 600
Brightness (cd/m ²)	400
Contrast Ratio	400: 1
LCD Color	262K
Pixel Pitch (mm)	0.2175 mm (H) x 0.2175 mm (V)
Viewing Angle (H-V)	140° / 120°
Backlight MTBF	40000 hrs
SBC Model	AFLMB-945GSE-N270-R10
CPU	Intel® Atom™ processor N270 1.6GHz CPU
Chipset	Intel® 945GSE + ICH7M
RAM	Supports one 400 MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for GbE 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x External SATA 1 x Audio Port 1 x Power Jack
SSD	CF Type II
Watchdog Timer	Software programmable supports 1~255 sec. system reset
Audio	AMP 1.5W + 1.5W (internal speakers)
Camera Module	2megapixel with digital microphone
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)
Construction Front Panel	ABS + PC Plastic front frame
LED Function	1 x Power on/off LED on front panel
Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm
Front Panel Color	Gray 7539U
Dimensions (WxHxD) (mm)	280 x 186 x 49
Operation Temperature (°C)	-10°C ~50°C
Storage Temperature (°C)	-20°C ~ 60°C
N/G Weight	1.4 Kg
IP Level	Front Frame IP64
Safety & EMC	CE / FCC
Touch Screen	5-wire resistive type (touch controller IC is on board)
Power Adapter	P/N: 63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC
Power Consumption	28W

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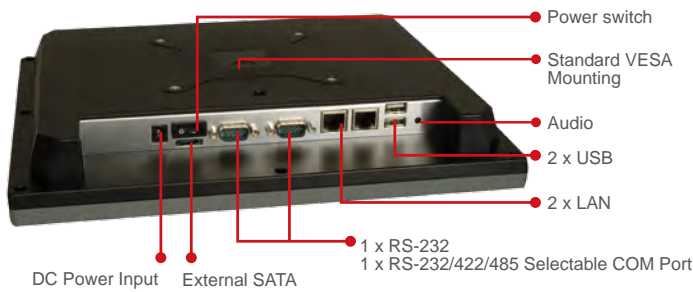
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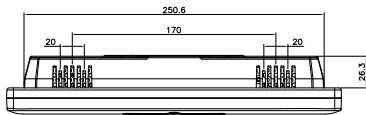
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Optional Peripherals

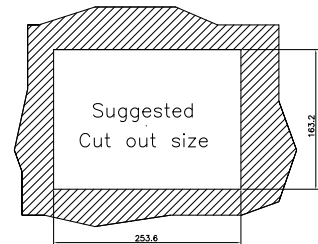
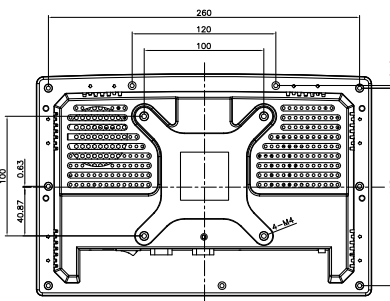
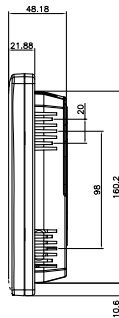
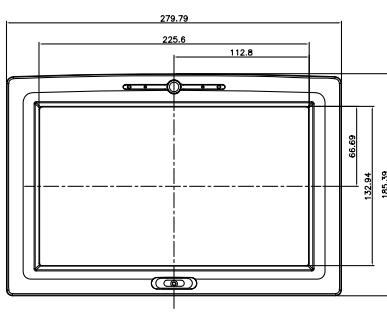
Fully Integrated I/O



Building Automation/Access Control System



AFL-W10A Dimensions (Unit: mm)



Ordering Information

Part Number	Description
AFL-W10A-N270/R/1G-R32	10.2" 400 cd/m ² , WSVGA fanless panel PC with Intel® Atom™ N270 1.6GHz, 802.11b/g/n wireless module, touch screen, 2megapixel camera with digital microphone, 1GB DDR2 533, R32

Options

Model	AFL-W10A-N270	
Panel Mounting Kit	AFLPK-12	
Wall Mounting Kit	AFLWK-19	
Rack Mounting Kit	AFLRK-W10	
Arm	ARM-11-RS / ARM-31-RS	
Stand	STAND-A12 / STAND-100-RS	
VSTAND	VSTAND-A10	
9-30VDC to 12VDC Converter Module	IDD-930160-KIT	
OS	Win CE 6.0 (128 MB CF card)	AFLCF-W10-N270-CE060-R32
	Win XPE (1 GB CF card)	AFLCF-W10-N270-XPE-R32
	LINUX (2 GB CF card)	AFLCF-W10-N270-LNX-R32
	Win 7 Embedded (2GB CF card)	AFLCF-W10-N270-WES7E-R32
Hybrid Card Reader	AFLP-10AMSI-U	
Magnetic Stripe Reader	AFLP-10AMSR-U	
DC 12V Input UPS	AUPS-B10-R10 (7.4V 3800mAH)	
DC 9-36V Input UPS	AUPS-B20-R10 (7.4V 3800mAH)	
Bluetooth V2.0+EDR	AFL-BT-KIT02-R10	

Note: Win CE application without digital microphone function

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep	Cash Drawer
AFL-W10A-N270	V			V		V		

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3; 5mm
Power Adpater	63000-FSP036RAB608-RS	1	90~264V AC; 12V DC; 36W
Power Cord	32000-000002-RS	1	1750mm; European Standard (EU or US, depending on the shipment country)
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

10.4" SVGA AFOLUX Panel PC

AFL-10A-LX

AMD Geode™ LX 800 500 MHz Processor

AFL-10A-N270

Intel® Atom™ N270 1.6GHz Processor

AFL-10A-N26

Intel® Atom™ N2600 1.60 GHz Processor



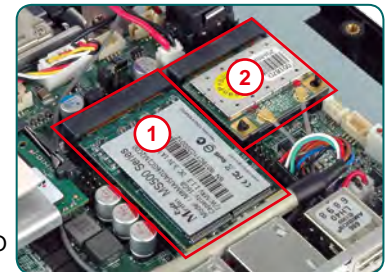
Advanced Features

(1) PCIe mini card slot compatible with mSATA and PCIe mini device

IEI patented PCIe mini interface provides PCIe x 1 and USB signals such as PCIe mini SSD and wireless LAN card for full-size or half-size devices!

(2) Enhanced 2T2R MIMO Technology

Preinstalled 2.4GHz 802.11b/g/n WiFi module supports 2Tx/2Rx 2-stream MIMO to enable data rates up to 300Mbps for a 40MHz channel!



Specifications

Model	AFL-10A-LX	AFL-10A-N270	AFL-10A-N26
LCD Size	10.4"		
Max Resolution	800 x 600		
Brightness (cd/m²)	400		
Contrast Ratio	700:1		
LCD Color	262K		
Pixel Pitch (mm)	0.264 (H) x 0.264 (V)		
Viewing Angle (H-V)	160° / 140°		
Backlight MTBF	50000 hrs (LED Backlight)		
SBC Model	AFLMB-LX-800	AFLMB-945GSE-N270-R10	AFLMB-CV-N2600-R10
CPU	AMD Geode™ LX 800 (500MHz)	Intel® Atom™ processor N270 1.6GHz CPU	Intel® Atom™ N2600 dual core 1.6 GHz CPU
Chipset	AMD LX 800 + AMD CS5536	Intel® 945GSE + ICH7M	Intel® NM10
RAM	Supports one 333MHz or 400MHz DDR2 SO-DIMM (Max.1GB)	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)	One 800 MHz 204-pin DDR3 SO-DIMM slot (Max. 2GB)pre-installed with 2GB
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Port	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x External SATA 1 x Audio Port 1 x Power Jack	1 x 9-28V Lockable DC Jack 1 x RJ45 for RS-232 1 x RS-232/422/485 1 x VGA 2 x GbE LAN 2 x USB 2.0 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Line out
SSD	CF Type II		
Watchdog Timer	Software programmable supports 1~255 sec. system reset		
Audio	AMP 1.5W + 1.5W (internal speakers)		AMP 2W + 2W (internal speaker)
Wireless Connection	1 x Wireless LAN 802.11 b/g Module (internal Mini PCI interface)	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)	1 x Wireless LAN 802.11 b/g/n 2T2R Module (internal PCIe Mini card interface)
Construction Front Panel	ABS + PC Plastic front frame		
LED Function	1 x Power on/off LED on front panel		
Mounting	Panel, Wall, Rack, Stand and Arm VESA 75mm x 75mm / 100mm x 100mm		
Front Panel Color	Gray 7539U		
Dimensions (WxHxD) (mm)	276 x 222 x 51		
Operation Temperature (°C)	0°C ~ 50°C	-10°C ~50°C	-10°C~50°C
Storage Temperature (°C)	-20°C ~ 60°C		
N/G Weight	1.4 Kg		
IP Level	Front Frame IP64		
Safety & EMC	CE / FCC		
Touch Screen	5-wire resistive type (touch controller IC is on board)		
Power Adapter	P/N: 63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63040-010060-040-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12V DC	12V DC	9-28V DC
Power Consumption	25W	28W	28W

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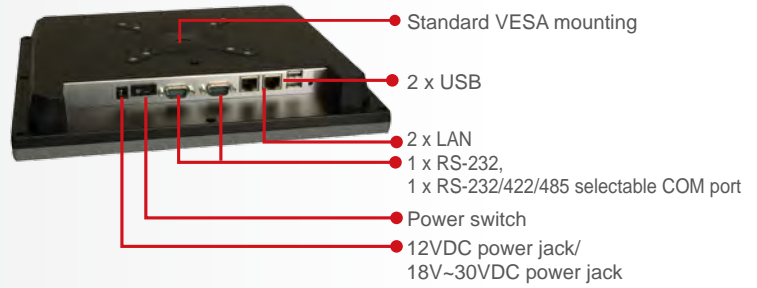
PACSmart Medical Solutions

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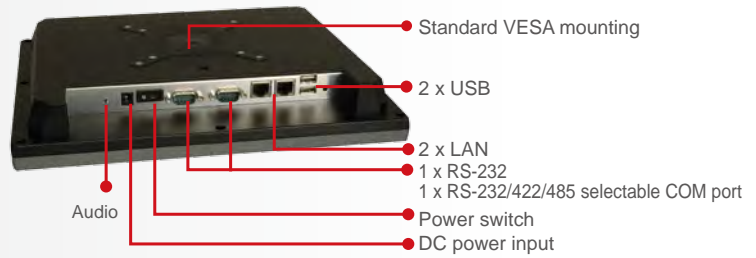
Optional Peripherals

Fully Integrated I/O

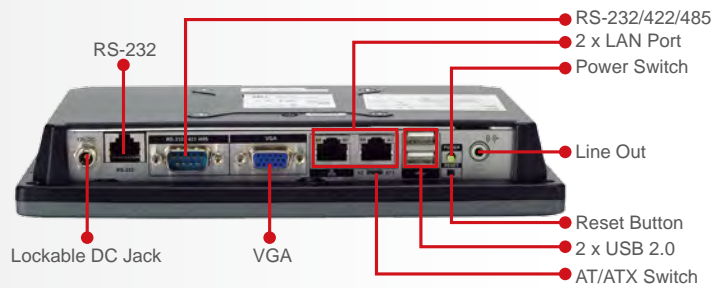
AFL-10A-LX



AFL-10A-N270



AFL-10A-N26



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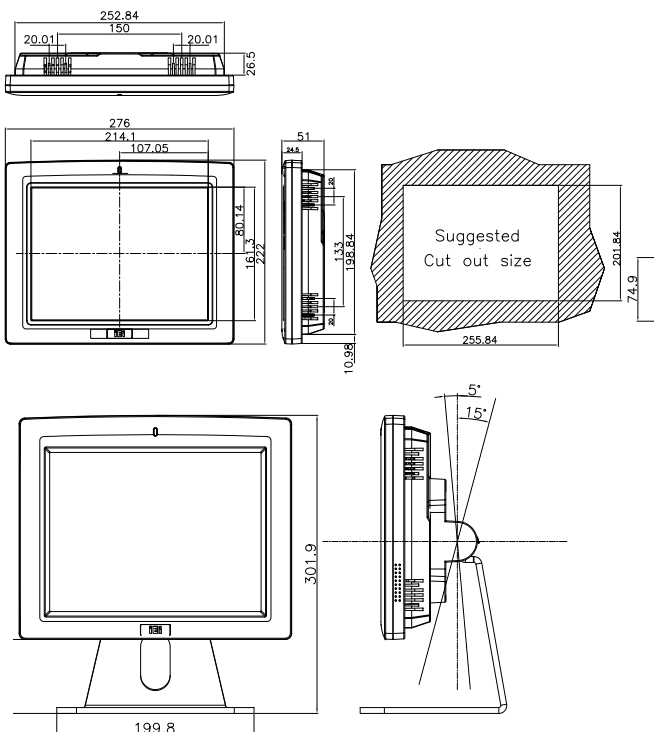
RISC-based Solutions

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Optional Peripherals



AFL-10A Dimensions (Unit: mm)



Ordering Information

Part Number	Description
AFL-10A-LX/R/256-R22	10.4" 400 cd/m ² , SVGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g wireless module, Touch screen and 256MB DDR RAM, R22
AFL-10A-LX/R/512-R22	10.4" 400 cd/m ² , SVGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g wireless module, Touch screen and 512MB DDR RAM, R22
AFL-10A-N270/R/1G-R23	10.4" 400cd/m ² SVGA fanless panel PC with Intel® Atom™ N270 1.6GHz, 802.11b/g/n wireless module, touch screen, 1GB DDR2 533, R23
AFL-10A-N26/R/2G-R10	10.4" 400cd/m ² SVGA fanless panel PC with Intel® Atom™ cedarview N2600 dual core 1.6GHz, 802.11b/g/n wireless module, touch screen, 2GB DDR3, R10

Note: AFL-10A-LX24V model is without power adapter

Options

Model	AFL-10A-LX	AFL-10A-N270	AFL-10A-N26
Panel Mounting Kit		AFLPK-12	
Wall Mounting Kit		AFLWK-12	
Rack Mounting Kit		AFLRK-10	
Arm		ARM-11-RS / ARM-31-RS	
Stand		STAND-A12 / STAND-100-RS	
VSTAND		VSTAND-A10	
9-30VDC to 12VDC Converter Module		IDD-930160-KIT	
OS: Win CE 5.0 (128 MB CF card)	AFLCF-10-LX-CE-R21	--	
OS: Win CE 6.0 (128 MB CF card)	AFLCF-10-LX-CE060-R21	AFLCF-10-N270-CE060-R21	AFL-10-N26-CE060-R10*
OS: Win XPE (1 GB CF card)	AFLCF-10-LX-XPE-R21	AFLCF-10-N270-XPE-R21	AFL-10-N26-LNX-R10*
OS: LINUX (2 GB CF card)	AFLCF-10-LX-LNX-R21	AFLCF-10-N270-LNX-R21	AFL-10-N26-WES7E-R10*
OS: Win 7 Embedded (2GB CF card)	--	AFLCF-10-N270-WES7E-R21	AFL-10-N26-XPE-R10*
Hybrid Card Reader		AFLP-10AMSI-U	
Magnetic Stripe Reader		AFLP-10AMSR-U	
DC 12V Input UPS		AUPS-A10-R10 (7.4V 3800mAH)	
DC 9-36V Input UPS		AUPS-A20-R10 (7.4V 3800mAH)	
Bluetooth V2.0+EDR		AFL-BT-KIT02-R10	

*OS image with CD-ROM

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Cash Drawer
AFL-10A-LX	V			V		V	
AFL-10A-N270	V			V		V	
AFL-10A-N26	V			V		V	

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3; 5mm
Power Adpater	63000-FSP036RAB608-RS 63040-010060-040-RS (for AFL-10A-N26)	1	90-264V AC; 12V DC; 36W
Power Cord	32000-000002-RS	1	1750mm; European Standard
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

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Optional Peripherals

12.1" XGA AFOLUX Panel PC

AFL-12A-LX

AMD Geode™ LX 800 500 MHz Processor

AFL-12A-N270

Intel® Atom™ N270 1.6GHz Processor

AFL-12A-N26

Intel® Atom™ N2600 1.6GHz Processor



Features

- 12.1" TFT LED backlight LCD with resistive touch screen
- Fanless cooling system
- 9V~28V wide range DC power input (for Intel® N2600 platform)
- Selectable AT/ATX power mode through the switch inside the chassis
- One CompactFlash® slot
- IP 64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)



Specifications

Model	AFL-12A-LX	AFL-12A-N270	AFL-12A-N26
LCD Size	12.1"		
Max Resolution	1024 x 768		
Brightness (cd/m ²)	500		
Contrast Ratio	700 : 1		
LCD Color	262K		
Pixel Pitch (mm)	0.240 (H) x 0.240 (V)		
Viewing Angle (H-V)	160° / 160°		
Backlight MTBF	50000 (LED Backlight)		
SBC Model	AFLMB-LX-800	AFLMB-945GSE-N270-R10	AFLMB-CV-N2600-R10
CPU	AMD Geode™ LX 800 (500MHz)	Intel® Atom™ processor N270 1.6GHz CPU	Intel® Atom™ N2600 dual core 1.6 GHz CPU
Chipset	AMD LX 800 + AMD CS5536	Intel® 945GSE + ICH7M	Intel® NM10
RAM	Supports one 333MHz or 400MHz DDR SO-DIMM (Max. 1GB)	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)	One 800 MHz 204-pin DDR3 SO-DIMM slot (Max. 2GB)pre-installed with 2GB
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Power Jack 1 x Audio Port	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x External SATA 1 x Audio Port 1 x Power Jack	1 x 9-28V Lockable DC Jack 1 x RJ45 for RS-232 1 x RS-232/422/485 1 x VGA 2 x GbE LAN 4 x USB 2.0 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Line out
SSD	CF Type II		
Watchdog Timer	Software programmable supports 1~255 sec. system reset		
Audio	AMP 1.5W + 1.5W (internal speaker)		AMP 2W + 2W (internal speaker)
Wireless Connection	1 x Wireless LAN 802.11 b/g Module (internal Mini PCI interface)	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)	
Drive Bay	1 x 2.5" IDE HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD & 1 x mSATA SSD
Construction Front Panel	ABS + PC Plastic front frame		
LED Function	1 x Power on/off LED on front panel		
Mounting	Panel, Wall, Rack, Stand and Arm VESA 75mm x 75mm / 100mm x 100mm		
Front Panel Color	Gray 7539U		
Dimensions (WxHxD) (mm)	304 x 246 x 50		
Operation Temperature (°C)	0°C ~ 50°C	0°C ~40°C with SATA HDD -10°C ~50°C with CF Card or SATA interface 2.5" SSD HDD	-10°C~50°C
Storage Temperature (°C)	-20°C ~ 60°C		
N/G Weight	1.8 Kg		
IP Level	Front Frame IP64		
Safety & EMC	CE / FCC		
Touch Screen	5-wire resistive type (touch controller IC is on board)		
Power Adapter	P/N: 63000-FSP036RAB608-RS 36W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP050DBAB1405-RS 50W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63040-010060-040-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC	12VDC	9-28V DC
Power Consumption	29W	32W	

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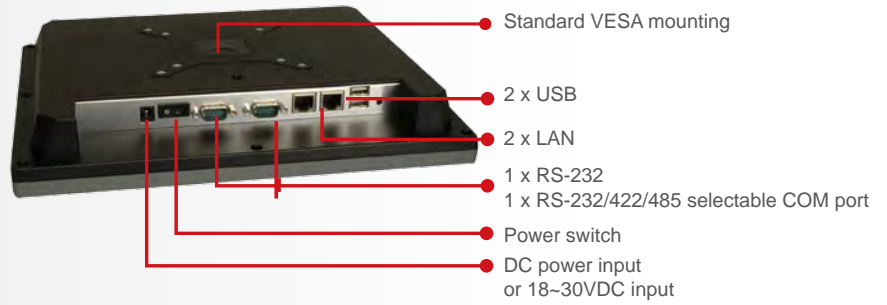
PACSmate Medical Solutions

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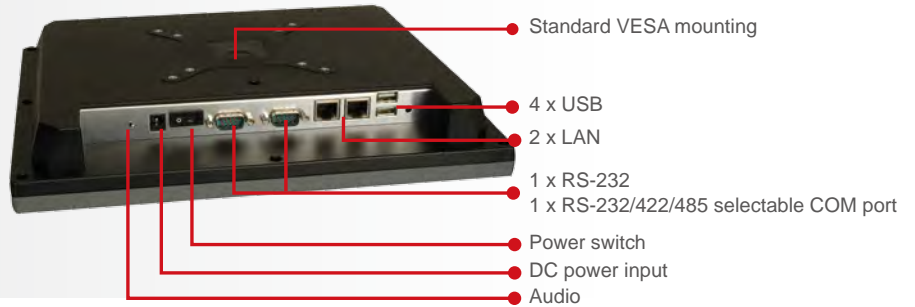
Optional Peripherals

Fully Integrated I/O

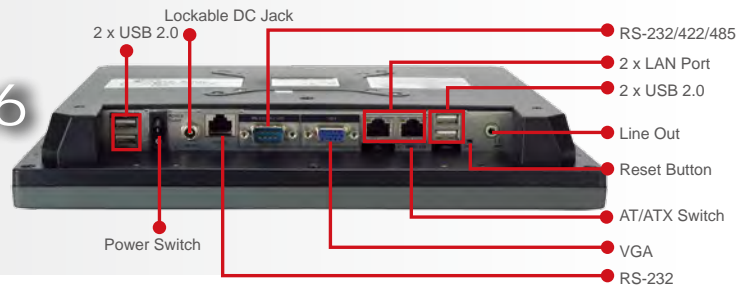
AFL-12A-LX



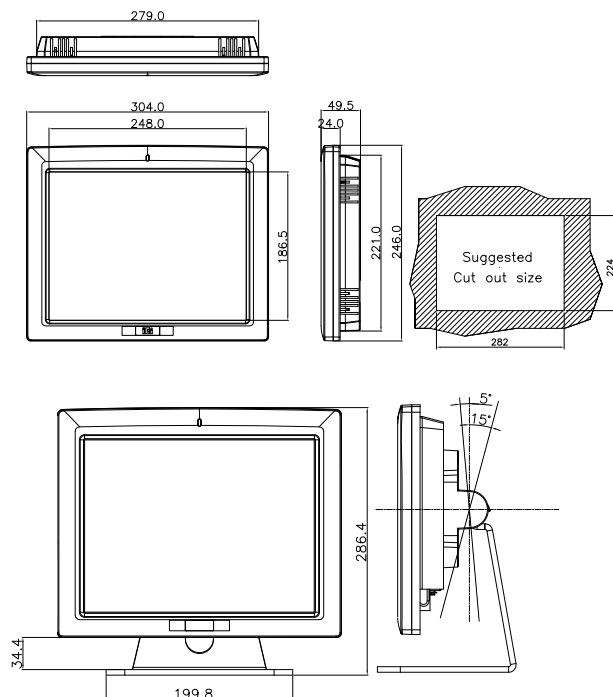
AFL-12A-N270



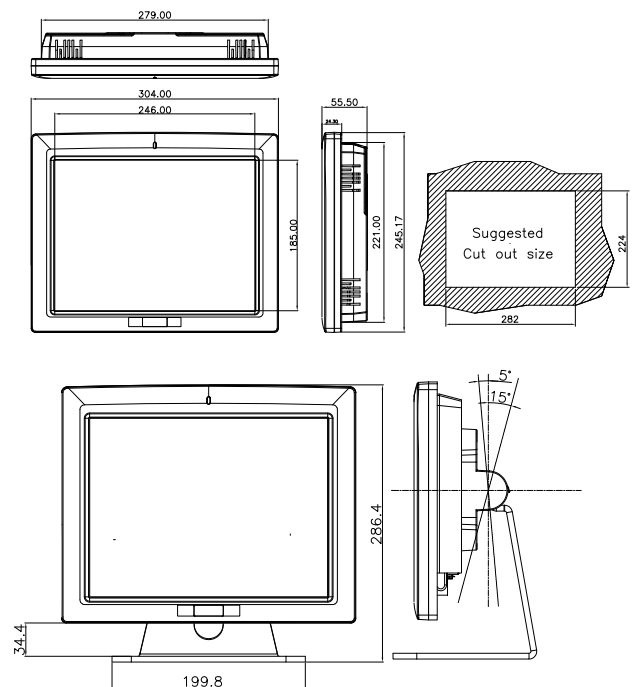
AFL-12A-N26



AFL-12A
Dimensions (Unit: mm)



AFL-12B
Dimensions (Unit: mm)



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Optional Peripherals

Ordering Information

Part Number	Description
AFL-12A-LX/R/256-R22	12.1" 500 cd/m ² , XGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g wireless module, touch screen and 256MB DDR RAM, R22
AFL-12A-LX/R/512-R22	12.1" 500 cd/m ² , XGA fanless panel PC with AMD LX-800 CPU, AT/ATX mode, 802.11b/g wireless module, touch screen and 512MB DDR RAM, R22
AFL-12A-N270/R/1G-R23	12.1" 500 cd/m ² , XGA fanless panel PC with Intel® Atom™ N270 1.6GHz, 802.11b/g/n wireless module, capitalize touch screen, 1GB DDR2 533MHz, R23
AFL-12A-N26/R/2G-R10	12.1" 500cd/m ² , XGA fanless panel PC with Intel® Atom™ cedarview N2600 dual core 1.6GHz, 802.11b/g/n wireless module, touch screen, 2GB DDR3, R10

Options

Model	AFL-12A-LX	AFL-12A-N270	AFL-12A-N26
Panel Mounting Kit	AFLPK-12		
Wall Mounting Kit	AFLWK-12		
Rack Mounting Kit	AFLRK-12		
Arm	ARM-11-RS / ARM-31-RS		
Stand	STAND-A12 / STAND-POS12 / STAND-100-RS		STAND-A12 / STAND-100-RS
VSTAND	VSTAND-A12		
9~30VDC to 12VDC Converter Module	IDD-930160-KIT		
OS: Win CE 5.0 (128 MB CF card)	AFLCF-12-LX-CE-R21	--	AFL-12-N26-CE060-R10
OS: Win CE 6.0 (128 MB CF card)	AFLCF-12-LX-CE060-R21	AFLCF-12-N270-CE060-R21	AFL-12-N26-LNX-R10
OS: Win XPE (1 GB CF card)	AFLCF-12-LX-XPE-R21	AFLCF-12-N270-XPE-R21	AFL-12-N26-WES7E-R10
OS: LINUX (2 GB CF card)	AFLCF-12-LX-LNX-R21	AFLCF-12-N270-LNX-R21	AFL-12-N26-XPE-R10
OS: Win 7 Embedded (2GB CF card)	--	AFLCF-12-N270-WES7E-R21	--
Hybrid Card Reader	AFLP-12AMSI-U		
Magnetic Stripe Reader	AFLP-12AMSR-U		
DC 12V Input UPS	AUPS-A10-R10 (7.4V 3800mAH)		
DC 9~36V Input UPS	AUPS-A20-R10 (7.4V 3800mAH)		
Bluetooth V2.0+EDR	AFL-BT-KIT02-R10	AFL-BT-KIT03-R10	AFL-BT-KIT01-R10

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Optional Peripherals

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Cash Drawer
AFL-12A-LX	V			V		V	
AFL-12A-N270	V			V		V	
AFL-12A-N26	V			V		V	

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3; 5mm
Power Adpater	63000-FSP036RAB608-RS 63000-FSP050DBAB1405-RS 63040-010060-040-RS	1	90~264V AC; 12V DC; 36W (for LX) 90~264V AC; 12V DC; 50W (for LXPOS, N270) 90~264V AC; 12V DC; 60W (for N2600)
Power Cord	32000-000002-RS	1	1750mm; European Standard
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

15" XGA AFOLUX Panel PC

AFL-15A(E)-N270

Intel® Atom™ N270 1.6GHz Processor



Features

- 15" TFT LCD with resistive touch screen
- System memory up to 2 GB RAM
- Built-in 802.11b/g (or 802.11 b/g/n) wireless LAN
- Selectable AT/ATX power mode through the switch inside the chassis
- Built-in two speakers
- One CompactFlash® slot
- IP 64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (over 4GB storage capacity is suggested)



Specifications

Model	AFL-15A(E)-N270 Fanless
LCD Size	15"
Max Resolution	1024 x 768
Brightness (cd/m ²)	350 or 250
Contrast Ratio	700:1 or 600:1
LCD Color	262K or 16.7M
Pixel Pitch (mm)	0.297(H) x 0.297(V)
Viewing Angle (H-V)	140°/125° or 160°/160°
Backlight MTBF	50000 or 40000 hrs
SBC Model	AFLMB2-945GSE-N270-R10
CPU	Intel® Atom™ N270 1.6GHz processor
Chipset	Intel® 945GSE + ICH7M
RAM	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for GbE 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Audio Port (line-out) 1 x VGA Port 1 x Power Jack
SSD	CF Type II
Watchdog Timer	Software programmable supports 1~255 sec. system reset
Audio	AMP 1.5W + 1.5W (internal speakers)
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini interface)
Construction Front Panel	ABS + PC Plastic front frame
LED Function	1 x Power on/off LED on front panel
Mounting	Panel, Wall, Rack, Stand and Arm, VESA 100mm x 100mm
Front Panel Color	Sliver (877U) & Gray (ABSA2037)
Dimensions (WxHxD) (mm)	394 x 309 x 61
Operation Temperature (°C)	0°C ~40°C with SATA HDD -10°C ~50°C with CF Card or SATA interface 2.5" SSD HDD
Storage Temperature (°C)	-20°C ~ 60°C
N/G Weight	3.2 Kg
IP Level	Front Frame IP64
Safety & EMC	CE / FCC
Touch Screen	5-wire resistive type (Touch controller IC is on board) or Capacitive type touch screen without HDD bay
Power Adapter	P/N: 63000-FSP060DBAB1554-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz / Output: 12VDC
Power Requirement	12VDC
Power Consumption	49W

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- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

15" XGA AFOLUX Panel PC

AFL-15i(E)-HM55

Intel® Core i7-620M 2.66GHz Processor



NEW Features in HM55 Platform :

- Powered by high performance 2.66 GHz Intel® Core i7-620M CPU with Intel® HM55 chipset
- DDR3 1066MHz system memory up to 4GB
- HDMI/VGA port delivers high quality image on the second display
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (over 4GB storage capacity is suggested)



Specifications

Model	AFL-15i(E)-HM55
LCD Size	15"
Max Resolution	1024 x 768
Brightness (cd/m ²)	350 or 250
Contrast Ratio	700:1 or 600:1
LCD Color	262K or 16.7M
Pixel Pitch (mm)	0.297(H) x 0.297(V)
Viewing Angle (H-V)	140°/125° or 160°/160°
Backlight MTBF	50000 hrs or 40000 hrs
SBC Model	AFLMB2-HM55-R10
CPU	Socket G (PGA989A) Intel® Core™ i series
Chipset	Intel® HM55
RAM	Two 204-pin 800/1066MHz DDR3 dual-channel SO-DIMMs supported (Max. 8GB)
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Audio Port (Line-out) 1 x VGA 1 x Power Jack 1 x HDMI Port
SSD	SATA SSD
Watchdog Timer	Software programmable supports 1~255 sec. system reset
Audio	AMP 3W + 3W (internal speakers)
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)
Drive Bay	1 x 2.5" SATA HDD bay
Construction Front Panel	ABS + PC Plastic front frame
Membrane Keypad	LCD on/off, Brightness up/down, Volume up/down (5 keys)
LED Function	1 x Power on/off LED on front panel
Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm
Front Panel Color	Sliver (877U) & Gray (ABSA2037)
Dimensions (WxHxD) (mm)	394 x 309 x 66
Operation Temperature (°C)	0°C~50°C
Storage Temperature (°C)	-20°C ~ 60°C
N/G Weight	5.8 Kg
IP Level	Front Frame IP64
Touch Screen	Resistive Type 5-Wire (Touch controller IC is on board) or Capacitive type touch screen without HDD bay
Power Adapter	P/N: 63000-FSP096AHB-RS 96W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC
Power Consumption	80W

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IEI Mobile Solutions

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Automation Panel Solutions

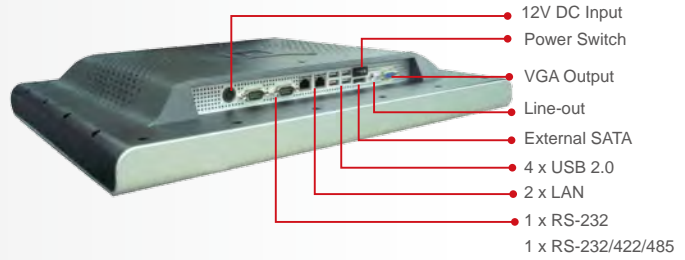
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RISC-based Solutions

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PACSmate Medical Solutions

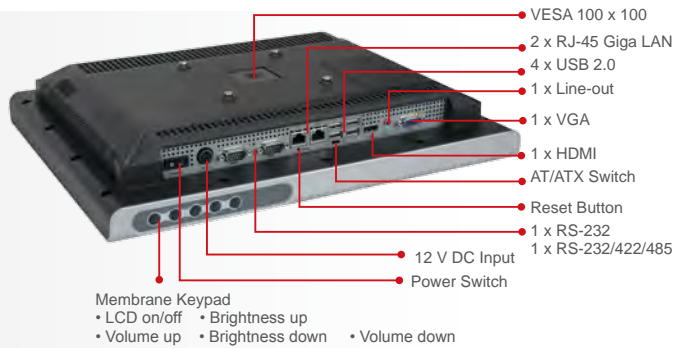
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Optional Peripherals

Fully Integrated I/O

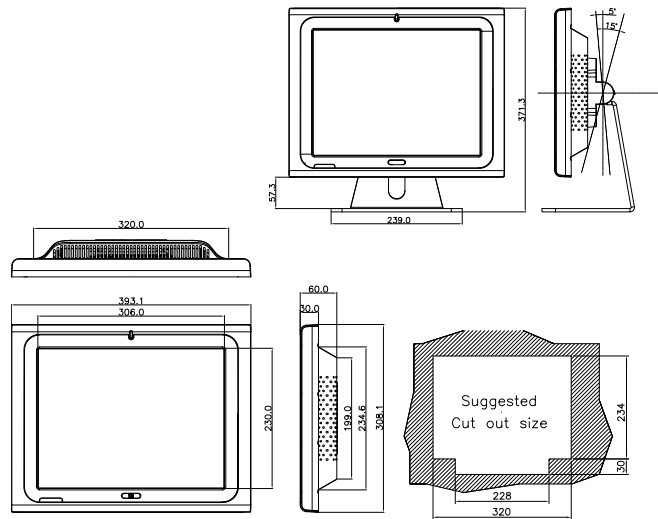
AFL-15A-N270



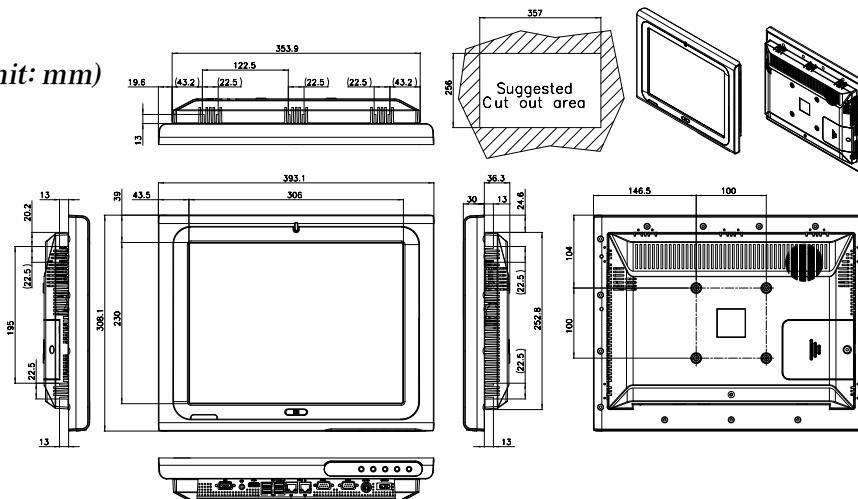
AFL-15i-HM55



AFL-15A Dimensions (Unit: mm)



AFL-15i Dimensions (Unit: mm)



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Optional Peripherals

Ordering Information

• High Luminance (350 cd/m²)

Part Number	Description
AFL-15A-N270/R/1G-R22	15" 350cd/m ² XGA fanless panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, touch screen, R22
AFL-15i-HM55-P45/R/1G-R12	15" 350cd/m ² XGA panel PC with Intel® Celeron P4500 1.86G CPU, 1GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-15i-HM55i3-35/R/2G-R12	15" 350cd/m ² XGA panel PC with Intel® Core™ i3-350M 2.26G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-15i-HM55i5-52/R/2G-R12	15" 350cd/m ² XGA panel PC with Intel® Core™ i5-520M 2.4G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-15i-HM55i7-62/R/2G-R12	15" 350cd/m ² XGA panel PC with Intel® Core™ i7-620M 2.66G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS

• Regular Luminance (250 cd/m²)

Part Number	Description
AFL-15AE-N270/R/1G-R22	15" 250cd/m ² XGA fanless panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, touch screen, R22
AFL-15iE-HM55-P45/R/1G-R12	15" 250cd/m ² XGA panel PC with Intel® Celeron P4500 1.86G CPU, 1GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-15iE-HM55i3-35/R/2G-R12	15" 250cd/m ² XGA panel PC with Intel® Core™ i3-350M 2.26G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-15iE-HM55i5-52/R/2G-R12	15" 250cd/m ² XGA panel PC with Intel® Core™ i5-520M 2.4G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-15iE-HM55i7-62/R/2G-R12	15" 250cd/m ² XGA panel PC with Intel® Core™ i7-620M 2.66G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	WDT	Cash Drawer
AFL-15i(E)-HM55	V	V	V	V	V	
AFL-15A(E)-N270	V			V	V	

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3,5mm
Power Adpater	63040-010060-030-RS 63040-010060-050-RS 63040-010096-010-RS	1	90~264V AC; 12V DC; 60W (15A-N270) 90~264V AC; 12V DC; 96W (15i-HM55)
Power Cord	32000-000002-RS	1	1750mm; European Standard
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

Options

Model	AFL-15A(E)-N270	AFL-15i(E)-HM55
Panel Mounting Kit	AFLPK-15	AFLPK-15B
Wall Mounting Kit	AFLWK-19	
Rack Mounting Kit	AFLRK-15-R11	N/A
Arm	ARM-11-RS / ARM-31-RS	
Stand	STAND-A19 / STAND-B19 / STAND-POS15 / STAND-210-R11	
OS: Win CE 6.0 (128 MB CF card)	AFLCF-15-N270-CE060-R21	--
OS: Win XPE (1 GB CF card)	AFLCF-15-N270-XPE-R21	AFLSD-15-HM55-2G-XPE-R12 (2GB SATA SSD)
OS: LINUX (2 GB CF card)	AFLCF-15-N270-LNX-R21	--
OS: Win 7 Embedded (2GB CF card)	AFLCF-15-N270-WES7E-R21	AFLSD-15-HM55-4G-WES7E (4GB SATA SSD)
Hybrid Card Reader	AFLP-17AMSI-U	
Magnetic Stripe Reader	AFLP-17AMSR-U	
DC 12V Input UPS	AUPS-B10-R10 (14.8V 3800mAh)	
DC 9-36V Input UPS	AUPS-B20-R10 (14.8V 3800mAh)	
Bluetooth V2.0+EDR	AFL-BT-KIT04-R10	AFL-BT-KIT01-R10

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IEI Mobile Solutions

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Optional Peripherals

15" Wide 1366 x 768 AFOLUX Panel PC

AFL-W15A-N270

Intel® Atom™ N270 1.6GHz Processor

AFL-W15A-GM45

Intel® Core™ 2 Duo T9400 2.53GHz Processor (Max.)

16:9
Wide Screen



Membrane Keypad for LCD On/Off, Brightness Down/Up, Volume Down/Up, Lock, Ambient Light Sensor On/Off Control



Ambient Light Sensor



300K Pixel Camera (with Low Light Function) and Digital Microphone



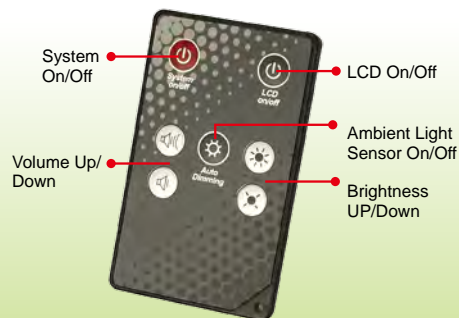
HDMI High-Definition Multimedia Interface (for GM45 Systems Only)

Features

- 15" wide screen all-in-one system with resistive touch panel
- IEEE 802.11b/g/n Wi-Fi connection
- New High-Definition multimedia HDMI interface (for Intel® GM45 system)
- Built-in HSUPA module for mobile connection (optional)
- Ambient light sensor detects ambient light for automated screen adjustments.
- VESA-mountable for flexibility in mounting and deployment
- Membrane keypad to control LCD backlight, panel brightness, speakers volume, ambient light sensor and lock the keypad functions
- Software system settings utility support
- Support for Windows CE, Windows XP Embedded and Linux (optional)
- IP 64 compliant front panel



Infrared Remote Control

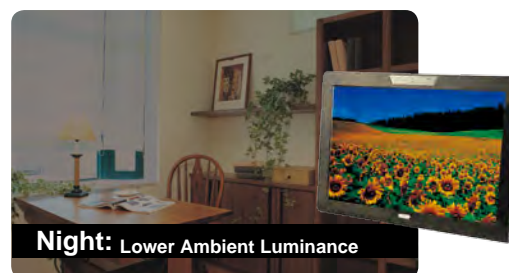


Ambient Light Sensor

The AFL-W15A series has a built-in ambient light sensor at the front of the panel to automatically detect the amount of light in the viewing environment and auto-adjust the brightness of the screen.

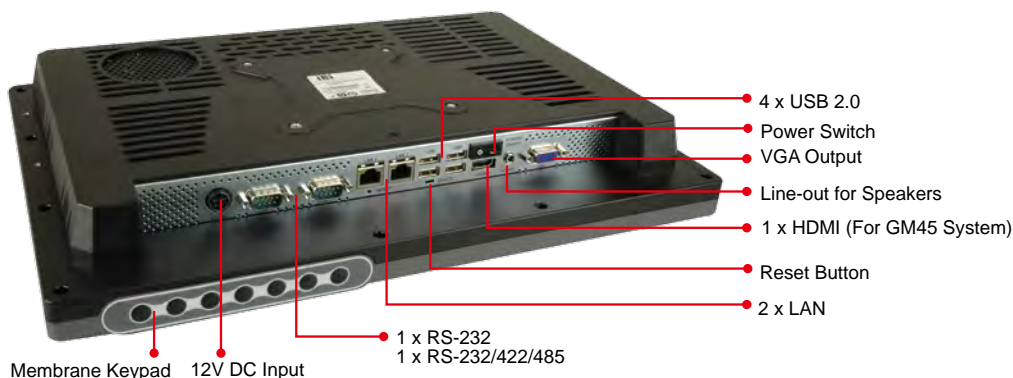
Benefits:

- More comfortable viewing decreases eye strain and tiredness
- Power consumption saving
- Extend lamp lifetime



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Fully Integrated I/O



Specifications



Model	AFL-W15A-N270	AFL-W15A-GM45
LCD Size	15.6"	
Max Resolution	1366 x 768	
Brightness (cd/m ²)	250	
Contrast Ratio	500 : 1	
LCD Color	16.2M	
Pixel Pitch (mm)	0.252 (W) x 0.252 (H)	
Viewing Angle (H-V)	110° / 85°	
Backlight MTBF	50000 hrs	
SBC Model	AFLMB2-945GSE-N270-R10	AFLMB2-GM45-R10
CPU	Intel® Atom™ N270 1.6GHz CPU	Intel® Celeron® M 575 2.0GHz CPU Intel® Core™2 Duo P8400 2.26GHz CPU Intel® Core™2 Duo T9400 2.53GHz CPU
Chipset	Intel® 945GSE + ICH7M	Intel® GM45 Chipset + ICH9M
RAM	Supports one 400MHz or 533MHz DDR1 SO-DIMM (Max. 2GB)	Supports two 667MHz or 800MHz DDR2 SO-DIMM (Max. 4GB)
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Audio Port 1 x VGA Port 1 x Power Jack	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x HDMI Port 1 x Audio Port 1 x VGA Port 1 x Power Jack
SSD	CF Type II	
Watchdog Timer	Software programmable supports 1~255 sec. system reset	
Audio	AMP 3W + 3W (internal speakers)	
Camera Module	300K pixel camera (with low light function) and digital microphone	
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)	
Construction Front Panel	ABS + PC Plastic front frame	
Membrane Keypad	LCD On/Off, Brightness Down/Up, Volume Down/Up, Lock, Ambient Light Sensor On/Off (OSD Lock: Lock button+ ALS button) (7 keys)	
Infrared Remote Control	LCD On/Off, Brightness Up/Down, Volume Up/Down, System On/Off, Ambient Light Sensor On/Off	
Ambient Light Sensor	Yes	Yes
Mounting	Panel, Wall, Stand and Arm VESA 100mm x 100mm	
Front Panel Color	Gray 7539U	
Dimensions (WxHxD) (mm)	400 x 273 x 63	400 x 273 x 63
Operation Temperature (°C)	0°C ~40°C with SATA HDD -10°C ~50°C with CF Card or SATA interface 2.5" SSD HDD	
Storage Temperature (°C)	-20°C ~60°C	
N/G Weight	3.3 Kg	
IP Level	Front Frame IP64	
Safety & EMC	CE / FCC	
Touch Screen	5-wire Resistive Type (Touch controller IC is on board)	
Power Adapter	P/N: 63000-FSP060DDBAB1554-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP096AHB-RS 96W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC	
Power Consumption	50W	90W

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IEI Mobile Solutions

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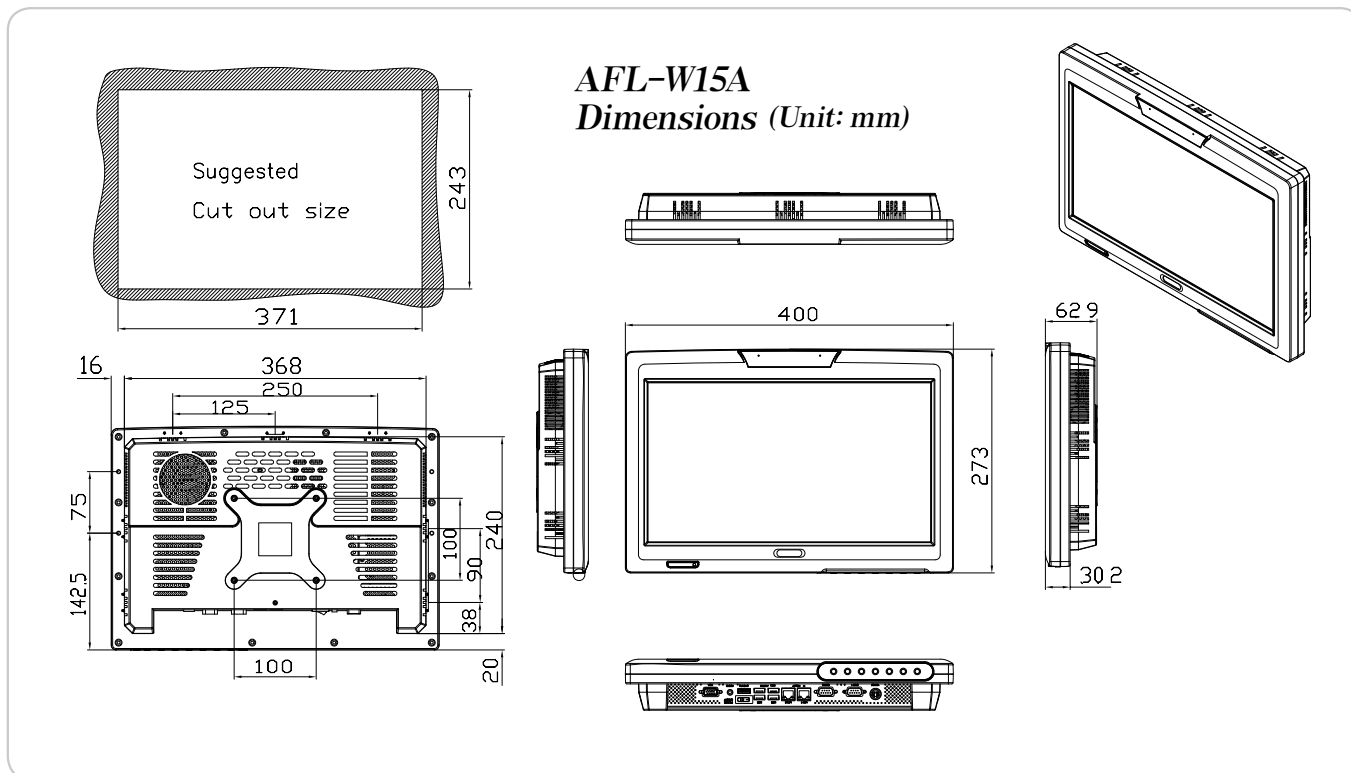
RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals



AFL-W15A
Dimensions (Unit: mm)

Ordering Information

Part Number	Description
AFL-W15A-N270/R/1G-R30	15.6" 250cd/m ² 1366x768 panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, touch screen, 300K camera, microphone, R30
AFL-W15A-GM45-CM5/R/1G-R30	15.6" 250cd/m ² 1366x768 panel PC with Intel® Celeron® 2.0GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n WiFi, touch screen, 300K camera, microphone, R30, RoHS
AFL-W15A-GM45-P84/R/2G-R30	15.6" 250cd/m ² 1366x768 panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n WiFi, touch screen, 300K camera, microphone, R30, RoHS
AFL-W15A-GM45-T94/R/2G-R30	15.6" 250cd/m ² 1366x768 panel PC with Intel® Core™2 Duo T9400 2.53GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n WiFi, touch screen, 300K camera, microphone, R30, RoHS

Note 1: AFL-W15B-N270 is for project-based order

Options

Model	AFL-W15A-N270	AFL-W15A-GM45
Panel Mounting Kit	AFLPK-15B	
Wall Mounting Kit	AFLWK-19	
Rack Mounting Kit	AFLRK-W15	
Arm	ARM-11-RS / ARM-31-RS	
Stand	STAND-A19 / STAND-B19 / STAND-210-R11	
OS: Win CE 6.0 (128 MB CF card)	AFLCF-W15-N270-CE060-R30	N/A
OS: Win XPE (1 GB CF card)	AFLCF-W15-N270-XPE-R30	AFLCF-W15-GM45-XPE-R30
OS: Win LINUX (2 GB CF card)	AFLCF-W15-N270-LNX-R30	AFLCF-W15-GM45-LNX-R30
OS: Win 7 Embedded (2GB CF card)	AFLCF-W15-N270-WES7E-R30	AFLCF-W15-GM45-WES7E-R30
Hybrid Card Reader	AFLP-W15AMSI-U	
Magnetic Stripe Reader	AFLP-W15AMSR-U	
DC 12V Input UPS	AUPS-B10-R10 (VESA 100, DC 12V input, 12V output 100W UPS module with 3800mAh)	
DC 9~36V Input UPS	AUPS-B20-R10 (VESA 100, DC 9~36V input, 12V output 100W UPS module with 3800mAh)	
Bluetooth V2.0+EDR	AFL-BT-KIT04-R10	AFL-BT-KIT03-R10

Note: Win CE application without digital microphone function

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3; 5mm
Power Adapter	63000-FSP096AHB-RS 63000-FSP060DBAB1554-RS	1	90~264V AC; 12V DC; 96W (W15A-GM45) 90~264V AC; 12V DC; 60W (W15A-N270)
Power Cord	32000-000002-RS	1	1750mm (EU or US, depending on the shipment country)
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	WDT	Cash Drawer
AFL-W15A-N270	V			V	V	
AFL-W15A-GM45	V	V	V	V	V	

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

17" SXGA AFOLUX Panel PC

AFL-17i(E)-HM55

Intel® Core i7-620M 2.66GHz Processor



New HM55 Platform Features:

- Powered by high performance 2.66 GHz Intel® Core i7-620M CPU with Intel® HM55 chipset
- DDR3 1066MHz system memory up to 4GB
- HDMI port delivers high image quality on the second display
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (over 4GB storage capacity is suggested)



Specifications

Model	AFL-17i-HM55
LCD Size	17"
Max Resolution	1280 x 1024
Brightness (cd/m ²)	380
Contrast Ratio	800 : 1
LCD Color	16.7M
Pixel Pitch (mm)	0.264 (H) x 0.264 (V)
Viewing Angle (H-V)	160° / 160°
Backlight MTBF	50000 hrs
SBC Model	AFLMB2-HM55-R10
CPU	Socket G (PGA989A) Intel® Core™ series processor
Chipset	Intel® HM55
RAM	Two 204-pin 800/1066MHz DDR3 dual-channel SO-DIMMs supported (Max. 8GB)
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Audio Port (Line-Out) 1 x VGA 1 x Power Jack 1 x HDMI Port
SSD	SATA SSD
Watchdog Timer	Software programmable supports 1~255 sec. system reset
Audio	AMP 3W + 3W (internal speakers)
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)
Drive Bay	1 x 2.5" SATA HDD bay
Construction Front Panel	ABS + PC Plastic front frame
Membrane Keypad	LCD On/Off, Brightness Up/Down, Volume Up/Down (5 keys)
LED Function	1 x Power on/off LED on front panel
Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm
Front Panel Color	Sliver (877U) & Gray (ABSA2037)
Dimensions (WxHxD) (mm)	428 x 350 x 71
Operation Temperature (°C)	0°C ~ 50°C
Storage Temperature (°C)	-20°C ~60°C
N/G Weight	6.0 Kg
IP Level	Front Frame IP64
Touch Screen	5-wire resistive type (touch controller IC is on board) or Capacitive type touch screen without HDD bay
Power Adapter	P/N: 63000-FSP096AHB-RS 96W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC
Power Consumption	85W

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IEI Mobile Solutions

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Automation Panel Solutions

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Optional Peripherals

17" SXGA AFOLUX Panel PC

AFL-17D-N270

Intel® Atom™ N270 1.6GHz Processor

AFL-17D-GM45

Intel® Core™2 Duo T9400 2.53GHz Processor



Digital Camera:
300K Camera with Low Light Function

Deep Glossy Black Surface



5-key membrane keypad



(for GM45 systems)



Easy access CF card



Convenient USBs on the side



Built-in ODD (optional)

Specifications

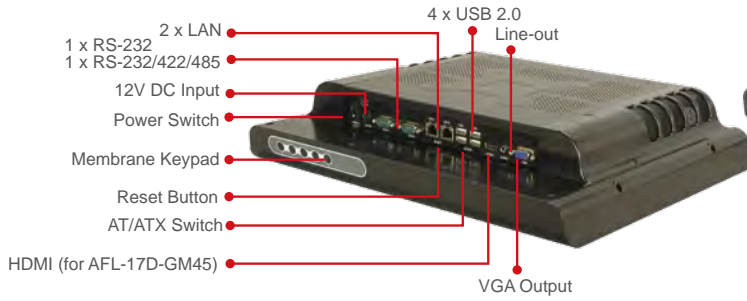
Fanless

Model	AFL-17D-N270	AFL-17D-GM45
LCD Size	17"	
Max Resolution	1280 x 1024	
Brightness (cd/m ²)	300	
Contrast Ratio	800 : 1	
LCD Color	16.7M	
Pixel Pitch (mm)	0.264 (H) x 0.264 (V)	
Viewing Angle (H-V)	160° / 160°	
Backlight MTBF	50000 hrs	
SBC Model	AFLMB2-N270-R10	AFLMB2-GM45-R10
CPU	Intel® Atom™ processor N270 1.6GHz CPU	Intel® Celeron® M 575 2.0GHz CPU Intel® Core™ 2 Duo P8400 2.26GHz CPU Intel® Core™ 2 Duo T9400 2.53GHz CPU
Chipset	Intel® 945GSE + ICH7M	Intel® GM45 Chipset + ICH9M
RAM	Supports one 400MHz or 533MHz DDR2 SO-DIMMs (Max. 2GB)	Supports two 667MHz or 800MHz DDR2 SO-DIMMs (Max. 4GB)
I/O Ports	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power switch 1 x Reset button 1 x Audio port 1 x VGA port 1 x Power jack	1 x RS-232 COM port 1 x RS-232/422/485 COM port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power switch 1 x Reset button 1 x HDMI port 1 x Audio port 1 x VGA port 1 x Power jack
SSD	CF Type II	
Watchdog Timer	Software programmable supports 1~255 sec. system reset	
Audio	AMP 3W + 3W (internal speakers)	
Camera Module	300K pixel with digital microphone	
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)	
Drive Bay	1 x 2.5" SATA HDD bay, 1 x Slim Type CD-ROM bay	
Construction Front Panel	ABS + PC Plastic front frame	
Membrane Keypad	LCD On/Off, Brightness Up/Down, Volume Up/Down (5 keys)	
LED Function	1 x Power on/off LED on front panel	
Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	
Front Panel Color	Black C	
Dimensions (WxD) (mm)	410 x 349 x 83	
Operation Temperature (°C)	0°C ~40°C with SATA HDD -10°C ~50°C with CF Card or SATA interface 2.5" SSD HDD	0°C ~40°C with SATA HDD 0°C ~45°C with CF Card or SATA interface 2.5" SSD HDD
Storage Temperature (°C)	-20°C ~60°C	
N/G Weight	6.2 Kg	
IP Level	Front Frame IP64	
Safety & EMC	CE / FCC	
Touch Screen	5-wire resistive type (touch controller IC is on board) or Capacitive type touch screen without HDD bay	
Power Adapter	P/N: 63000-FSP084DMBA1308-RS 84W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP150AHAN1808-RS 150W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC
Power Requirement	12VDC	
Power Consumption	58W	90W

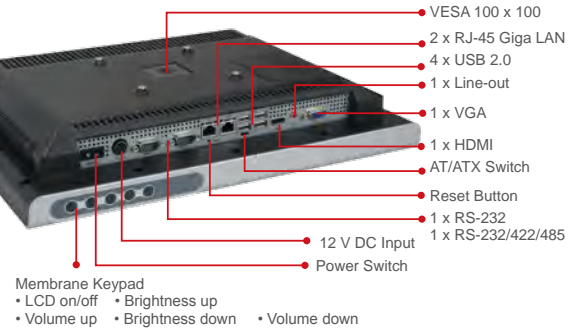
- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Fully Integrated I/O

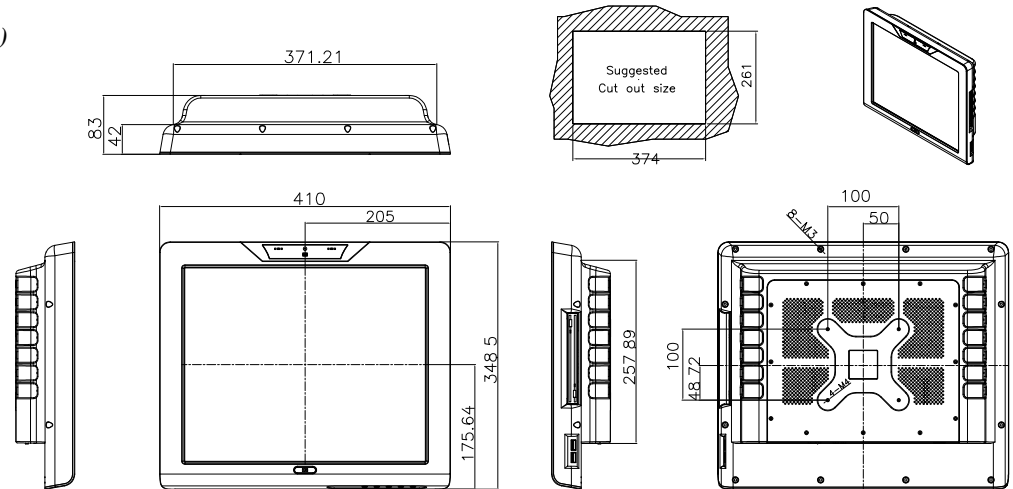
• AFL-17D-N270/AFL-17D-GM45



• AFL-17i-HM55



AFL-17D Dimensions (Unit: mm)



1
IEI Mobile Solutions

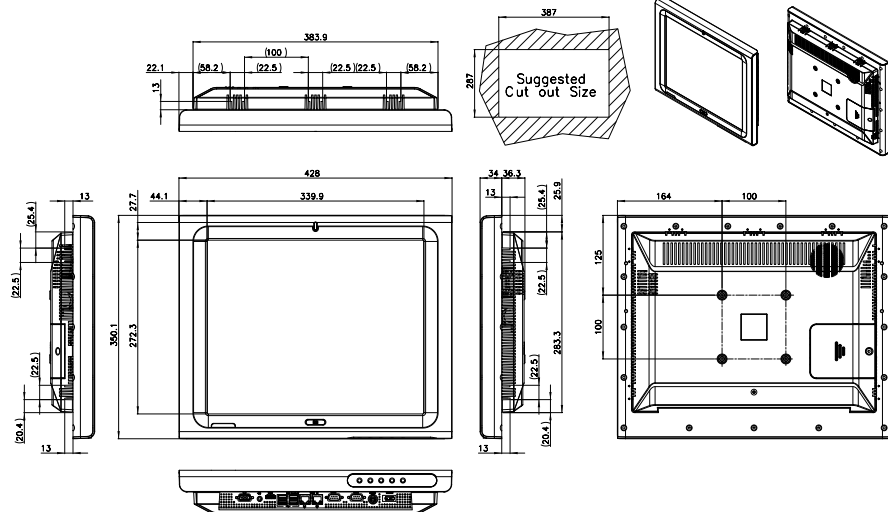
2
Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

AFL-17i-HM55 Dimensions (Unit: mm)



Ordering Information

Part Number	Description
AFL-17D-N270/R/1G-R22	17" 300cd/m ² SXGA fanless panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, touch screen, 300K camera, microphone, R22
AFL-17D-N270/RD/1G-R22	17" 300cd/m ² SXGA fanless panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n Wi-Fi, touch screen, 300K camera, microphone, DVD-COMBO, R22
AFL-17D-GM45-CM5/R/1G-R23	17" 300cd/m ² SXGA panel PC with Celeron® M 2.0GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, touch screen, 300K camera, microphone, R23, RoHS
AFL-17D-GM45-P84/R/2G-R23	17" 300cd/m ² SXGA panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n wireless module, touch screen, 300K camera, microphone, R23, RoHS
AFL-17D-GM45-T94/R/2G-R23	17" 300cd/m ² SXGA panel PC with Intel® Core™2 Duo T9400 2.53GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n wireless module, touch screen, 300K camera, microphone, R23, RoHS
AFL-17D-GM45-CM5/RD/1G-R23	17" 300cd/m ² SXGA panel PC with Celeron® M 2.0GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n Wi-Fi, touch screen, 300K camera, microphone, DVD-RW, R23, RoHS
AFL-17D-GM45-P84/RD/2G-R23	17" 300cd/m ² SXGA panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n Wi-Fi, touch screen, 300K camera, microphone, DVD-RW, R23, RoHS
AFL-17D-GM45-T94/RD/2G-R23	17" 300cd/m ² SXGA panel PC with Intel® Core™2 Duo T9400 2.53GHz CPU, 2GB DDR2 RAM, 802.11 b/g/n Wi-Fi, touch screen, 300K camera, microphone, DVD-RW, R23, RoHS
AFL-17i-HM55-P45/R/1G-R12	17" 380cd/m ² SXGA panel PC with Intel® Celeron® P4500 1.86G CPU, 1GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-17i-HM55i3-35/R/2G-R12	17" 380cd/m ² SXGA panel PC with Intel® Core™ i3-350M 2.26G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-17i-HM55i5-52/R/2G-R12	17" 380cd/m ² SXGA panel PC with Intel® Core™ i5-520M 2.4G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-17i-HM55i7-62/R/2G-R12	17" 380cd/m ² SXGA panel PC with Intel® Core™ i7-620M 2.66G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	WDT
AFL-17i-HM55	V	V	V	V	V
AFL-17D-N270	V			V	V
AFL-17D-GM45	V	V	V	V	V

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3; 5mm
Power Adapter	63000-FSP084DMBA1308-RS 63000-FSP096AHB-RS 63000-FSP150AHAN1808-RS	1	90-264V AC; 12V DC; 84W (17D-N270) 90-264V AC; 12V DC; 96W (17i-HM55) 90-264V AC; 12V DC; 150W (17D-GM45)
Power Cord	32000-000002-RS	1	1750mm; European Standard
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

Options

Model	AFL-17D-N270	AFL-17i-HM55	AFL-17D-GM45
Panel Mounting Kit	AFLPK-17D	AFLPK-17B	AFLPK-17D
Wall Mounting Kit		AFLWK-19	
Rack Mounting Kit	AFLRK-17D-R11	N/A	AFLRK-17D-R11
Arm	ARM-11-RS / ARM-31-RS		
Stand	STAND-A19, STAND-B19, STAND-210-R11		
OS: Win CE 6.0 (128 MB CF card)	AFLCF-17-N270-CE060-R21	N/A	N/A
OS: Win XPE (1 GB CF card)	AFLCF-17-N270-XPE-R21	AFLSD-17-HM55-2G-XPE-R12 (2GB SATA SSD)	AFLCF-17-GM45-XPE-R23
OS: LINUX (2 GB CF card)	AFLCF-17-N270-LNX-R21	N/A	AFLCF-17-GM45-LNX-R23
OS: Win 7 Embedded (2GB CF card)	AFLCF-17-N270-WES7E-R21	AFLSD-17-HM55-4G-WES7E (4GB SATA SSD)	AFLCF-17-GM45-WES7E-R23
Hybrid Card Reader	N/A	AFLP-17BMSI-U	N/A
Magnetic Stripe Reader	N/A	AFLP-17BMSR-U	N/A
DC 12V Input UPS	AUPS-B10-R10 (VESA 100, DC 12V input, 12V output 100W UPS module with 3800mAH)		
DC 9-36V Input UPS	AUPS-B20-R10 (VESA 100, DC 9-36V input, 12V output 100W UPS module with 3800mAH)		
Bluetooth V2.0+EDR	AFL-BT-KIT04-R10	AFL-BT-KIT01-R10	AFL-BT-KIT03-R10

Note: Win CE application without digital microphone function

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 IEI Mobile Solutions

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 Automation Panel Solutions

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 RISC-based Solutions

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 PACSmate Medical Solutions

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 Optional Peripherals

19" SXGA AFOLUX Panel PC

AFL-19i(E)-HM55

Intel® Core™ i7-620M 2.66GHz Processor



New HM55 Platform Features:

- Powered by high performance 2.66 GHz Intel® Core™ i7-620M CPU with Intel® HM55 chipset
- 1066MHz DDR3 system memory up to 4GB
- HDMI port delivers high image quality on the second display
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (over 4GB storage capacity is suggested)



Specifications

Model	AFL-19i-HM55
LCD Size	19"
Max Resolution	1280 x 1024
Brightness (cd/m ²)	450
Contrast Ratio	1000 : 1
LCD Color	16.7M
Pixel Pitch (mm)	0.294 (H) x 0.294 (V)
Viewing Angle (H-V)	178° / 178°
Backlight MTBF	50000 hrs
SBC Model	AFLMB2-HM55-R10
CPU	Socket G (PGA989A) Intel® Core™ i series processor
Chipset	Intel® HM55
RAM	Two 204-pin 800/1066MHz DDR3 dual-channel SO-DIMMs supported (Max. 8GB)
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch 1 x Reset Button 1 x Audio Port (Line-out) 1 x VGA 1 x Power Jack 1 x HDMI Port
SSD	SATA SSD
Watchdog Timer	Software programmable supports 1~255 sec. system reset
Audio	AMP 3W + 3W (internal speakers)
Wireless Connection	1 x Wireless LAN 802.11 b/g/n Module (internal PCIe Mini card interface)
Drive Bay	1 x 2.5" SATA HDD bay
Construction Front Panel	ABS + PC Plastic front frame
Membrane Keypad	OSD Keypad below the Front Panel (5 keys)
LED Function	1 x Power on/off LED on front panel
Mounting	Panel, Wall, Stand and Arm VESA 100mm x 100mm
Front Panel Color	Silver (877U) & Gray (ABSA2037)
Dimensions (WxHxD) (mm)	470 x 383 x 72
Operation Temperature (°C)	0°C~50°C
Storage Temperature (°C)	-20°C ~60°C
N/G Weight	6.2Kg
IP Level	Front Frame IP64
Touch Screen	Resistive Type 5-Wire (Touch controller IC is on board)
Power Adapter	P/N: 63000-FSP096AHB-RS 96W Power Adapter Input: 90VAC~264VAC, 50 / 60 Hz Output: 12VDC
Power Requirement	12VDC
Power Consumption	88W (Intel® T7500, 2GB memory, 80G HDD)

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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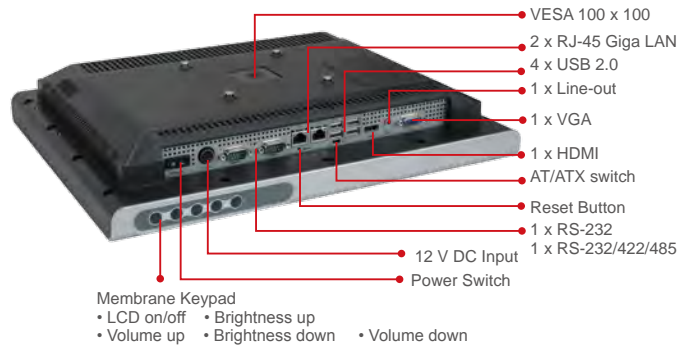
PACSmate Medical Solutions

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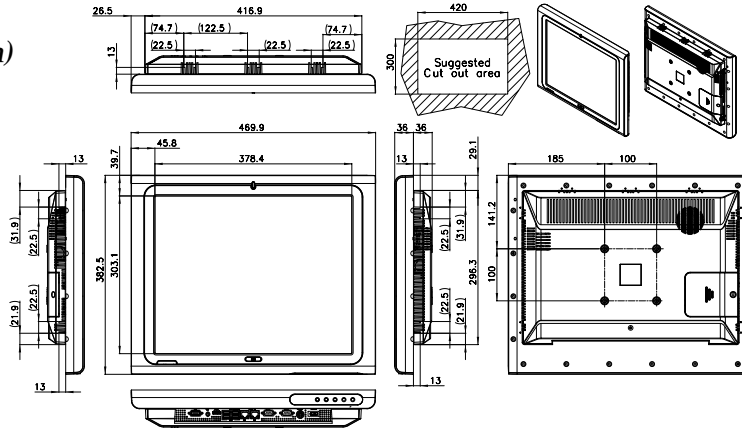
Optional Peripherals

Fully Integrated I/O

● **AFL-19i-HM55**



AFL-19i Dimensions (Unit: mm)



Ordering Information

Part Number	Description
AFL-19i-HM55-P45/R/1G-R12	19" 450cd/m ² SXGA panel PC with Intel® Celeron® P4500 1.86G CPU, 1GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-19i-HM55i3-35/R/2G-R12	19" 450cd/m ² SXGA panel PC with Intel® Core™ i3-350M 2.26G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-19i-HM55i5-52/R/2G-R12	19" 450cd/m ² SXGA panel PC with Intel® Core™ i5-520M 2.4G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS
AFL-19i-HM55i7-62/R/2G-R12	19" 450cd/m ² SXGA panel PC with Intel® Core™ i7-620M 2.66G CPU, 2GB DDR3 RAM, 802.11 b/g/n wireless module, touch screen, R12, RoHS

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3;5mm
Power Adpater	63000-FSP096AHB-RS	1	90~264V AC; 12V DC; 96W (19i-HM55)
Power Cord	32000-000002-RS	1	1750mm; European Standard
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	WDT	Cash Drawer
AFL-19i-HM55	V	V	V	V	V	

Options

Model	AFL-19i-HM55
Panel Mounting Kit	AFLPK-19B
Wall Mounting Kit	AFLWK-19
Arm	ARM-11-RS / ARM-31-RS
Stand	STAND-A19 / STAND-B19 / STAND-210-R11
OS: Win XPE (1 GB CF card)	AFLSD-19-HM55-2G-XPE-R12 (2GB SATA SSD)
OS: Win 7 Embedded	AFLSD-17-HM55-4G-WES7E (4GB SATA SSD)
Hybrid Card Reader	AFLP-19AMSI-U
Magnetic Stripe Reader	AFLP-19AMSR-U
DC 12V Input UPS	AUPS-B10-R10 (VESA 100, DC 12V input, 12V output 100W UPS module with 3800mAh)
DC 9~36V Input UPS	AUPS-B20-R10 (VESA 100, DC 9~36V input, 12V output 100W UPS module with 3800mAh)
Bluetooth V2.0+EDR	AFL-BT-KIT01-R10

19" Wide 1440 x 900 AFOLUX Panel PC

AFL-W19A-N270

Intel® Atom™ N270 1.6GHz Processor

**Mirror Black
Glossy Finish**



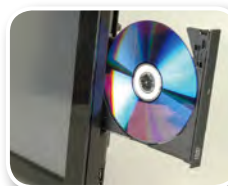
Features

- 19" wide screen all-in-one system with resistive touch panel
- High quality wide screen panel featuring 16:10 aspect ratio, high contrast and fast response time
- Fanless system integrated with Intel® Atom™ N270 1.6G processor for ultra low voltage
- IEEE 802.11b/g/n Wi-Fi connection
- Built-in two speakers
- Built-in capitalize technology
- Ambient light sensor detects ambient light for automated screen adjustments
- VESA-mountable for flexibility in mounting and deployment
- iSM system utility included for system settings
- Support Windows® CE, Windows® XP Embedded and Linux (optional)
- IP 64 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (suggest over 4GB storage capacity)



Specifications

Model	AFL-W19A-N270	
LCD Size	19"	
Max Resolution	1440 x 900	
Brightness (cd/m²)	300	
Contrast Ratio	1000:1	
LCD Color	16.2M	
Pixel Pitch (mm)	0.285 (H) x 0.285 (V)	
Viewing Angle (H-V)	170° / 160°	
Backlight MTBF	50000 hrs	
SBC Model	AFLMB2-945GSE-N270-R10	
CPU	Intel® Atom™ N270 1.6GHz CPU	
Chipset	Intel® 945GSE + ICH7M	
RAM	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)	
I/O Ports	1 x RS-232 COM Port 1 x RS-232/422/485 COM port 2 x RJ-45 for Giga LAN 4 x USB 2.0 1 x Power Switch	1 x Reset Button 1 x Audio Port 1 x VGA Port 1 x Power Jack
SSD	CF Type II	
Watchdog Timer	Software programmable supports 1~255 sec. system reset	
Audio	AMP 1.5W + 1.5W (internal speakers)	
Camera Module	300K pixel camera (with low light function) and digital microphone	
Wireless Connection	1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini card interface)	
Drive Bay	1 x 2.5" SATA HDD bay	
Construction Front Panel	ABS + PC Plastic front frame	
Membrane Keypad	LCD On/Off, Brightness Down/Up, Volume Down/Up, Lock, Ambient Light Sensor On/Off (7 keys)	
Ambient Light Sensor	Yes	
Infrared Remote Control	LCD On/Off, Brightness Up/Down, Volume Up/Down, System On/Off, Ambient Light Sensor On/Off	
Mounting	Panel, Wall, Stand and Arm VESA 100mm x 100mm	
Front Panel Color	Black C	
Dimensions (WxHxD) (mm)	475 x 259 x 65	
Operation Temperature (°C)	0°C ~40°C with HDD -10°C ~50°C with CF Card or SATA interface 2.5" SSD HDD	
Storage Temperature (°C)	-20°C ~60°C	
N/G Weight	5.8 Kg	
IP Level	Frant Frame IP64	
Safety & EMC	CE / FCC	
Touch Screen	5-wire resistive type (touch controller IC is on board) P/N: 63000-FSP084DMBA1308-RS	
Power Adapter	84W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	
Power Requirement	12VDC	
Power Consumption	55W	



Slim-type Optical Disk Drive



Membrane Keypad for System Function Control



Ambient Light Sensor



2megapixel Camera (with Low Light Function) and Digital Microphone

**Infrared Remote Control
(For AFL-W19A Series Only)**



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

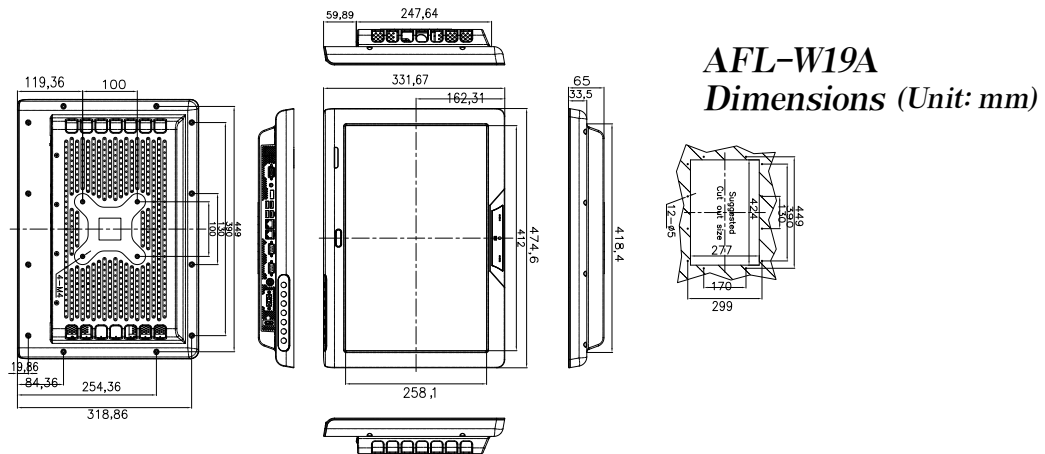
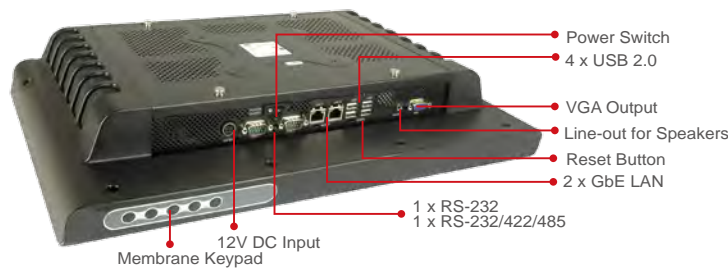
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PACSmart Medical Solutions

5

Optional Peripherals

Fully Integrated I/O



Ordering Information

Part Number	Description
AFL-W19A-N270/R/1G-R23	19" 300cd/m ² 1440x900 panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, 802.11 b/g/n wireless module, touch screen, 300K camera, microphone, R23

Packing List

Item	Part Number	Q'ty	Specification
Screw Pack	44013-030041-RS	4	M3;5mm
Power Adapter	63000-FSP084DMBA1308-RS 63000-FSP150AHAN1808-RS	1	90~264V AC; 12V DC; 84W (W19A/B-N270) 90~264V AC; 12V DC; 150W (W19A/B-GM45)
Power Cord	32000-000002-RS	1	1750mm; (EU or US, depending on the shipment country)
Utility CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	

ISMM Supported Functions

	Voltage	Fan	Smart Fan	Temperature	WDT	Cash Drawer
AFL-W19A- N270	V			V	V	

Options

Model	AFL-W19A-N270
Panel Mounting Kit	AFLPK-W19B
Wall Mounting Kit	AFLWK-19
Arm	ARM-11-RS / ARM-31-RS
Stand	STAND-A19 / STAND-B19 / STAND-210-R11
OS: Win CE 6.0 (128 MB CF card)	AFLCF-W19-N270-CE060-R23
OS: Win XPE (1 GB CF card)	AFLCF-W19-N270-XPE-R23
OS: LINUX (2 GB CF card)	AFLCF-W19-N270-LNX-R23
OS: Win 7 Embedded (2GB CF card)	AFLCF-W19-N270-WES7E-R23
DC 12V Input UPS	AUPS-B10-R10 (VESA 100, DC 12V input, 12V output 100W UPS module with 3800mAh)
DC 9~36V Input UPS	AUPS-B20-R10 (VESA 100, DC 9~36V input, 12V output 100W UPS module with 3800mAh)
Bluetooth V2.0+EDR	AFL-BT-KIT04-R10

Note: Win CE application without digital microphone function

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

AFOLUX Vertical Market Panel PC

The AFOLUX all-in-one PPC series is based on an integrated multi-functional design. Its new vertical market capability allows a wide variety of applications to be easily integrated, from high performance KIOSKS RFID solutions and more.

A. Public Information Solutions



Printer PC - EP-308A

- 8" Panel PC integrated with 2" easy-loading thermal printer
- Small footprint satisfies limited space requirements

Model	LCD Size	CPU	Thermal Printer
EP-308A	8.0"	Intel® 945GSE / Atom™ N270 Processor	•



Mini Kiosk - IMK-571R

- 5.7" Panel PC integrated with wide scanning angle 1D/2D Barcode module
- Supports PoE (Power Over Ethernet) agile deployment

Model	LCD Size	CPU	1D/2D Barcode scan	POE	RFID (Optional)	MSR (Optional)
IMK-571R	5.7"	RMI Alchemy™ AU1250	•	•	•	•

B. In-Wall Mount Solutions

1

IEI Mobile Solutions

2

Automation Panel Solutions

3

RISC-based Solutions

4

PACSmate Medical Solutions

5

Optional Peripherals



AFOLUX 4 Series

- In-wall mounting design allows the system to be flush with the wall with no visible wall mount
- Changeable face plate and face plate skin sticker available to match diverse decoration styles
- One digital I/O (4 inputs / 4 outputs)

Model	LCD Size	CPU	Changeable Faceplate	Digital Input / Output	Wide Power Requirement
AFL 4 Series	8.0" / 8.4" / 10.4" / 12.1" / 15"	Intel® 945GSE / Atom™ N270 Processor	•	4 x Digital Input / 4 x Digital Output	10~28VDC

C. RFID Collector Solutions



ACT series

- Integrated RFID reader for MIFARE 13.56 MHz or EM 125 KHz RFID tag

Model	LCD Size	CPU	RFID Reader (EM / Mifare)	Relay Output	Digital Input / Output	Wiegand Slave Reader Port	Changeable Faceplate
ACT-457A	5.7"	RMI Alchemy™ AU1250	•	2 x Relay Output	2 x Digital Input	-	•



AFOLUX Vertical Market Panel PC Selection Guide

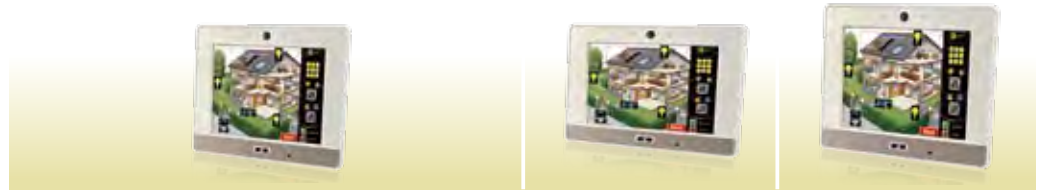


Model		Mini Kiosk	Printer PC	RFID Collector Solutions
		IMK-571A	EP-308A	ACT-457A
Display	LCD Size	5.7"	8.0"	5.7"
	Max Resolution (W x H)	640 x 480	800 x 600	640 x 480
	Brightness (cd/m ²)	400	250	400
	Max. Colors	262K	262K	262K
	Viewing Angle (H-V)	140°/160°	140° / 130°	140° / 100°
	Backlight MTBF (hrs)	50000 (LED backlight panel)	30000 (LED backlight)	50000 (LED backlight)
Motherboard	CPU	RMI Alchemy™ AU1250 500MHz	Intel® Atom™ N270 1.6GHz CPU	RMI Alchemy™ AU1250 500MHz CPU
	Chipset	--	Intel® 945GSE + ICH7M	--
	RAM	256MB DDR2 SDRAM	Supports one 400MHz / 533MHz DDR2 SO-DIMM (2GB max.)	256MB DDR2 SDRAM
I/O Ports and Switches		1 x RS-232 COM port 1 x RJ-45 for 10/100Mbps LAN (With on-board POE design) 2 x USB 2.0 1 x Stereo audio jack	1 x RJ-45 for RS-232 COM port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Gigabit LAN 4 x USB 2.0 1 x VGA port	1 x RS-232 COM port 1 x RS-422/485 COM port 1 x RJ-45 for 10/100Mbps LAN 2 x USB 2.0
Digital Input/Output		--	1 x RJ-12,12V cash drawer port	2 x Relay output 2 x Digital input
Drive Bay	SSD	--	CF Type II	--
	HDD	--	--	--
	CD-ROM	--	--	--
Wireless Connection	Wi-Fi	IEEE 802.11 b/g (internal PCIe Mini interface)	--	IEEE 802.11 b/g (optional) (internal PCIe Mini interface)
Audio/Video Device	Audio	AMP 1.5W + 1.5W (Internal speakers)	AMP 1.5W + 1.5W (Internal speakers)	AMP 2W + 2W
	Webcam	--	--	1 x 300K pixel camera (internal USB interface)
	Microphone	--	--	1 x Digital microphone (internal USB interface)
RFID Reader		--	--	EM 125KHz MIFARE 13.56MHz
1D / 2D Barcode Scanner		1D / 2D barcode scanner	--	--
Thermal Printer		--	2" Thermal Printer	--
Physical	Mounting	Wall, stand and arm (VESA 100mm x 100mm)	VESA 100mm	In-wall mount, VESA 75mm x 75mm
System Cooling		Fanless	Fanless	Fanless
Environment	Operation Temperature (°C)	0°C~50°C	0°C~40°C	-10°C~60°C
	Storage Temperature (°C)	-20°C~60°C	-20°C~60°C	-20°C~70°C
Power Requirement		12~24VDC	12VDC	12VDC

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- 5 Optional Peripherals

AFOLUX Vertical Market Panel PC

Selection Guide



Model		In-Wall Mount Solutions			
		AFL-408B	AFL-408A	AFL-W410A	AFL-412A
Display	LCD Size	8.0"	8.4"	Wide 10.2"	12.1"
	Max Resolution (W x H)	800 x 600	800 x 600	1024 x 600	1024 x 768
	Brightness (cd/m ²)	250	450	400	500
	Max. Colors	262K	262K	262K	262K
	Viewing Angle (H-V)	140° / 130°	160° / 140°	140° / 110°	160° / 160°
	Backlight MTBF (hrs)	30000 (LED backlight)	50000 (LED backlight)	40000	50000 (LED backlight)
Motherboard	CPU	Intel® Atom™ N270 1.6GHz CPU			
	Chipset	Intel® 945GSE + ICH7M			
	RAM	Supports one 400MHz / 533MHz DDR2 SO-DIMM (2GB max.)			
I/O Ports and Switches		1 x RJ-45 for RS-232 COM Port 1 x RJ-45 for RS-232/422/485 COM Port 1 x RJ-45 for Gigabit LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 1 x VGA Port			
Digital Input/Output		1 x DIO (4in / 4out)	1 x DIO (4in / 4out)	1 x DIO (4in / 4out)	1 x DIO (4in / 4out)
Drive Bay	SSD	CF Type II	CF Type II	CF Type II	CF Type II
	HDD	--	--	--	1 x 2.5" SATA HDD bay
	CD-ROM	--	--	--	--
Wireless Connection	Wi-Fi	IEEE 802.11 b/g/n (internal PCIe Mini interface)			
Audio/Video Device	Audio	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W	AMP 1.5W + 1.5W
	Webcam	--	300K pixels camera	300K pixels camera	300K pixels camera
	Microphone	--	1 x Digital microphone (internal USB interface)	1 x Digital microphone (internal USB interface)	1 x Digital microphone (internal USB interface)
IR Remote Control		LCD On/Off, System Power On/Off, Volume Up/Down, Brightness Up/Down			
Physical	Mounting	In-wall mount, VESA 75mm x 75mm / 100mm x 100mm	In-wall mount, VESA 75mm x 75mm / 100mm x 100mm	In-wall mount, VESA 75mm x 75mm / 100mm x 100mm	In-wall mount, VESA 75mm x 75mm / 100mm x 100mm
System Cooling		Fanless	Fanless	Fanless	Fanless
Environment	Operation Temperature (°C)	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature (°C)	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Power Requirement		10~28VDC	10~28VDC	10~28VDC	10~28VDC

1

IEI Mobile Solutions

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Automation Panel Solutions

3

RISC-based Solutions

4

PACSmate Medical Solutions

5

Optional Peripherals

Mini Kiosk Panel PC

IMK-571R

1D/2D Code Reading

PoE

- 5.7 inch VGA TFT touch panel LCD with LED backlight
- RMI Alchemy™ MAE multimedia platform
- 10/100Mbps Ethernet with on-board PoE (Power over Ethernet)
- Built-in stereo speakers
- Wi-Fi 802.11 b/g and wired network connectivity
- Watchdog timer
- Wide-angle, 1D/2D barcode scanner
- Default 2GB miniSD for data storage
- Optional MSR+SCR card reader
- Optional RFID Mifare reading module



1. Reliable Multimedia Platform with RMI AU1250 Microprocessor

Powered by RMI Alchemy™ AU1250 microprocessor with MAE (Multimedia Acceleration Engine), IMK-571R achieves great performance with its versatile multimedia support including most available video and audio types (MPEG1/2/4, DivX and WMV9).

- Video codecs inside, rich media support at full D1 resolution
- 15W low power consumption system
- 0°C~50°C wide temperature range



FORMAT	STREAM TYPE	AUDIO FORMAT	SUPPORTED BIT RATES
MPEG-1	System	MPEG	8 Mbps
MPEG-2	Program	MPEG	10 Mbps
	Transport	MPEG	8 Mbps
WMV9	Unencrypted only	WMA	2.5 Mbps
	CBR w/o filters, 720x480	WMA	2.5 Mbps
	VBR w/o filters, 720x480	WMA	2.5 Mbps
DivX	Unencrypted only/ no subtitles - V3.11	MP3/AAC/MPEG	4 Mbps
	V4	MP3/AAC/MPEG	4 Mbps
	V5	MP3/AAC/MPEG	4 Mbps
MPEG-4 MP4ISO/EIC 14496-2.	Advanced Simple Profile – level 5	AAC	3 Mbps
MPEG-4 AVI	Advanced Simple Profile – level 5	MP3, AC-3	4 Mbps



Full D1 (720 x 480)

Advertising platform maximizes customer satisfaction and ROI

- Play multimedia video to attract the attention of customers and make shopping more interesting
- At DVD rental stores, customers can watch movie previews by scanning DVD barcodes

2. Applications



Self-service

Allows customer to check price, obtain product related information or motivate them with promotional messages



Customer loyalty program

Customer can access their loyalty card to see their accumulated credit and reward programs



Production line information

Operator can scan barcode on WIP carrier to get production information and update production status

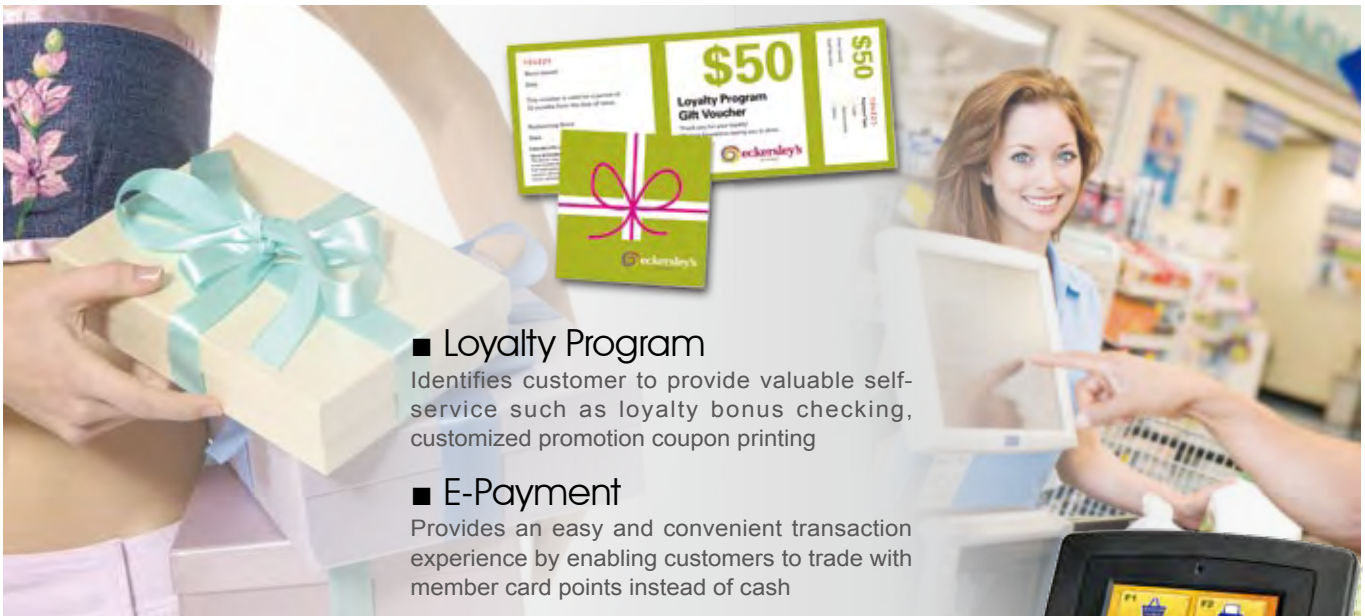
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IEI Mobile Solutions

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Optional Peripherals



■ **Loyalty Program**

Identifies customer to provide valuable self-service such as loyalty bonus checking, customized promotion coupon printing

■ **E-Payment**

Provides an easy and convenient transaction experience by enabling customers to trade with member card points instead of cash

3. Built-in 1D/2D Barcode Scanner

- Accurately decodes all 1D and 2D codes, even wrinkled, damaged or poorly printed
- 1.23 mega-pixel CMOS sensor captures high resolution images for decoding
- 50° / 37.5° (H/V) large scanning area



2D Barcode

A 2D (two-dimensional) barcode is a graphical image that stores information both horizontally.

- Greater storage than is possible with the 20-character capacity of a unidimensional barcode.
- Faster data access allows for quicker response codes.

Technology	1D Code	2D Code
Read Condition	20 to 25 characters	100 to about 7,089 characters



1

IEI Mobile Solutions

4. Identification / Payment Card Empowered Models

■ **IMK-571R-CE5/MIFARE/-R10**

RFID Reader Feature

- ISO14443A (MIFARE) UID (Read Only) and block date Read/Write
- Reading Distance : 3-5cm (Card dependent)
- Supports up to 115.2Kbps data rate
- PWR, ACT LED Indicators

■ **IMK-571R-CE5/MSR/-R10**

Magnetic Card Reader Feature

- Reading Track : ISO1,2,3 (IATA, ABA, THRIFT, MINTS)
- Card Standard : ANSI, ISO, ABA
- Beeper Reading Indicator

2

Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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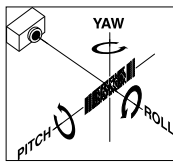
Optional Peripherals



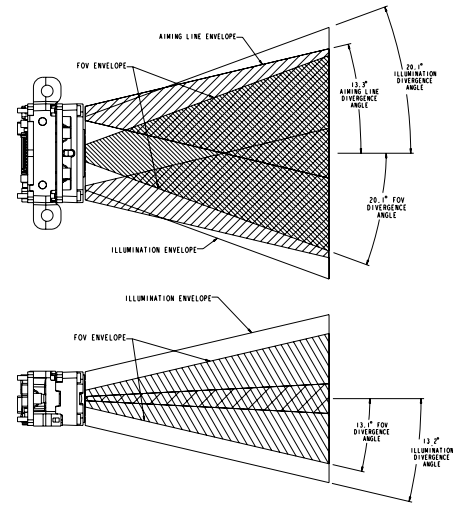
6. Barcode Capability

IMK-571R is equipped with the leading Metrologic IS4920 scanner engine. IS4920 is a decoded miniature area imaging scan engine designed to scan 1D and 2D bar codes. It features a megapixel imaging sensor, a wide angle lens design, integrated illumination and aiming, and industrial leading decoding software and delivers a fast and aggressive scanning performance.

Features	Benefits
Powered by Adaptus® Imaging Technology	Adaptus Imaging Technology delivers leading technologies and utilizes Honeywell's continuous commitment to provide superior data capture solutions
Point-and-Shoot Scanning Ease of Use	Available in high visibility LED and laser aimer versions makes reading linear and full matrix codes quick and easy with industry-leading motion tolerance, low light sensitivity, and broad depth of reading distances
Durable	Incorporates industrial grade image sensor technology which are designed with no moving parts, these imagers can withstand rugged applications
Decoding	Read all major linear, stacked linear, and matrix bar codes, as well as machine-readable OCR fonts, quickly and easily
Fifth Generation Image Processing	Industry-leading image processing performance. In addition to reading bar codes well, these products also capture crisp digital images.



Barcode Reading Angles		
Pitch	Skew	Tilt
40° @ 0° tilt and 0° skew	40° @ 0° tilt and 0° pitch	360° @ 0° pitch and 10° skew
PS : The scanner may not operate under conditions of specular reflection: +/- 5° (assuming Pitch & Skew @ 0° tilt only)		



Window Size Diagram (Laser Aimer)

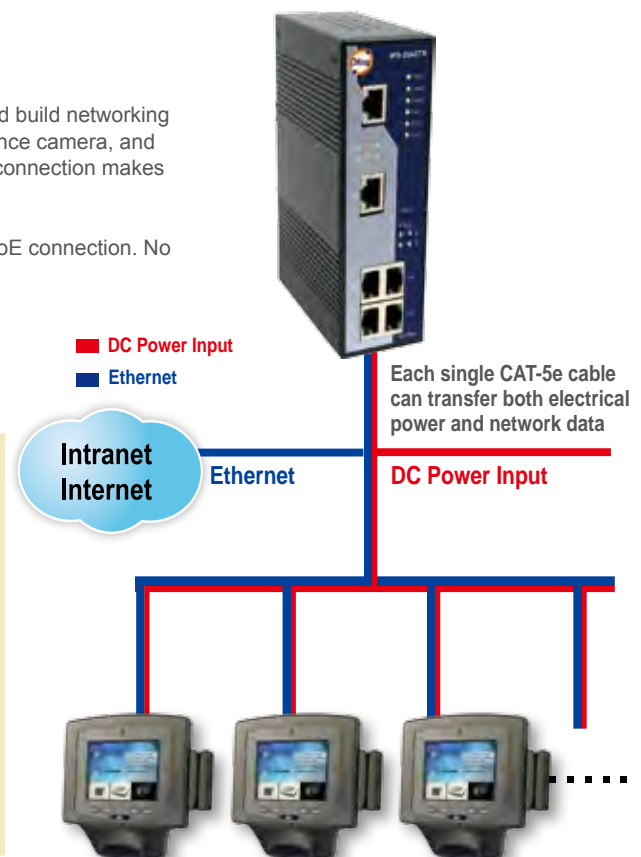
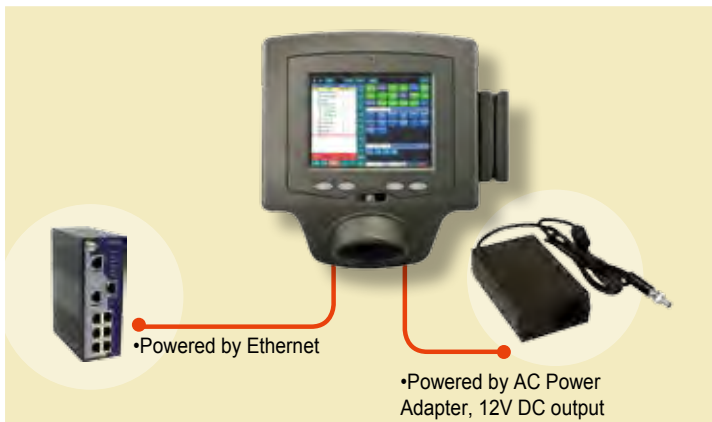
Bar Code Element Width	Depth of Field (In the Field of View)				
			Start (From Engine Face)	End (From Engine Face)	Total
1D (Code 39)	.203 mm	8 mil	89 mm (3.5")	193 mm (7.6")	104 mm (3.1")
	.254 mm	10 mil	81 mm (3.2")	234 mm (9.2")	153 mm (6")
	.381 mm	15 mil	53 mm (2.1")	325 mm (12.8")	272 mm (10.7")
PDF417	.168 mm	6.6 mil	114 mm (4.5")	159 mm (6.25")	45 mm (1.75")
	.254 mm	10 mil	79 mm (3.1")	229 mm (9.0")	150 mm (5.9")
Data Matrix	.381 mm	15 mil	58 mm (2.3")	259 mm (10.2")	201 mm (7.9")

7. Power over Ethernet (PoE)

What is the Benefit of PoE?

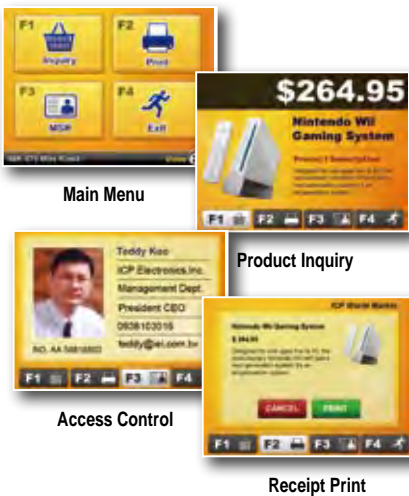
- PoE is a revolutionary feature changing the way manufacturers design and build networking products. The need for PoE has been largely driven by the VoIP, surveillance camera, and Panel PC industry, but the benefits spread much further. The single data connection makes it cheaper and easier to install.
- Power is supplied to the IMK-571R panel PC and peripherals through a PoE connection. No additional power supply is needed which reduces engineering costs.

Power Input Options



- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

8. IMK Runtime Demo



■ IMK Runtime Demo:

IMK Runtime Demo is a pre-installed application which introduces the functions of the IMK-571R to new users

■ Product Inquiry:

In this mode the user can scan pre-defined product barcodes, view relative product information, and check barcode type

■ Receipt Print:

Print receipts in product inquiry mode by pressing the print button when prompted

■ Access Control:

Access control allows users to read magnetic cards and display pre-defined personal information

9. IMK Merchandise Manager

■ IMK Merchandise Manager

IMK Merchandise Manager provides a friendly interface for the administrator to maintain and manage product information on an IMK-571R in the network.

■ Find IMK-571R in Your Network

Use Find IMK-571R to search and list all available IMK-571R in the network. Then select the IMK-571R which you want to upload or download product information files from.

■ Upload/Download Product Information File

When executing the download command, IMK Merchandise grabs the product information file from the previously selected IMK-571R and generates local sub folders with different device names. When execute upload command, IMK Merchandise will transfer the product information file in sub folders named after the device name onto the relative IMK-571R.

■ Edit Product Information File

User can select and open the product information file (*.xml) to edit content. In editing mode, the user can add and remove product items or edit product details. Then using 'Apply to all' generate sub folders named after selected IMK-571R devices and imitate the product information file with the edited content into the folders.



IMK Web Configurator

IMK Web Configurator is a Web-based utility which allows users to access IMK-571R and modify the settings via a web browser interface at anytime and in any place, anywhere without any PC client application installed. It makes management of IMK-571R in the network very easy and convenient for IT administrator while minimizing system maintenance costs and time.

- System Setting: User can inquire system information and set up Ethernet and Wireless parameters. Remote restart option allows users to restart the system once any abnormal circumstance occurs and a restart procedure is needed.

- Barcode Setting: User can adjust universal barcode parameters and the variables of various barcode types. The available settings will auto change when a specific barcode type is selected on the left side of the screen. User can also use the 'Factory default' function to restore all settings to default when needed.

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

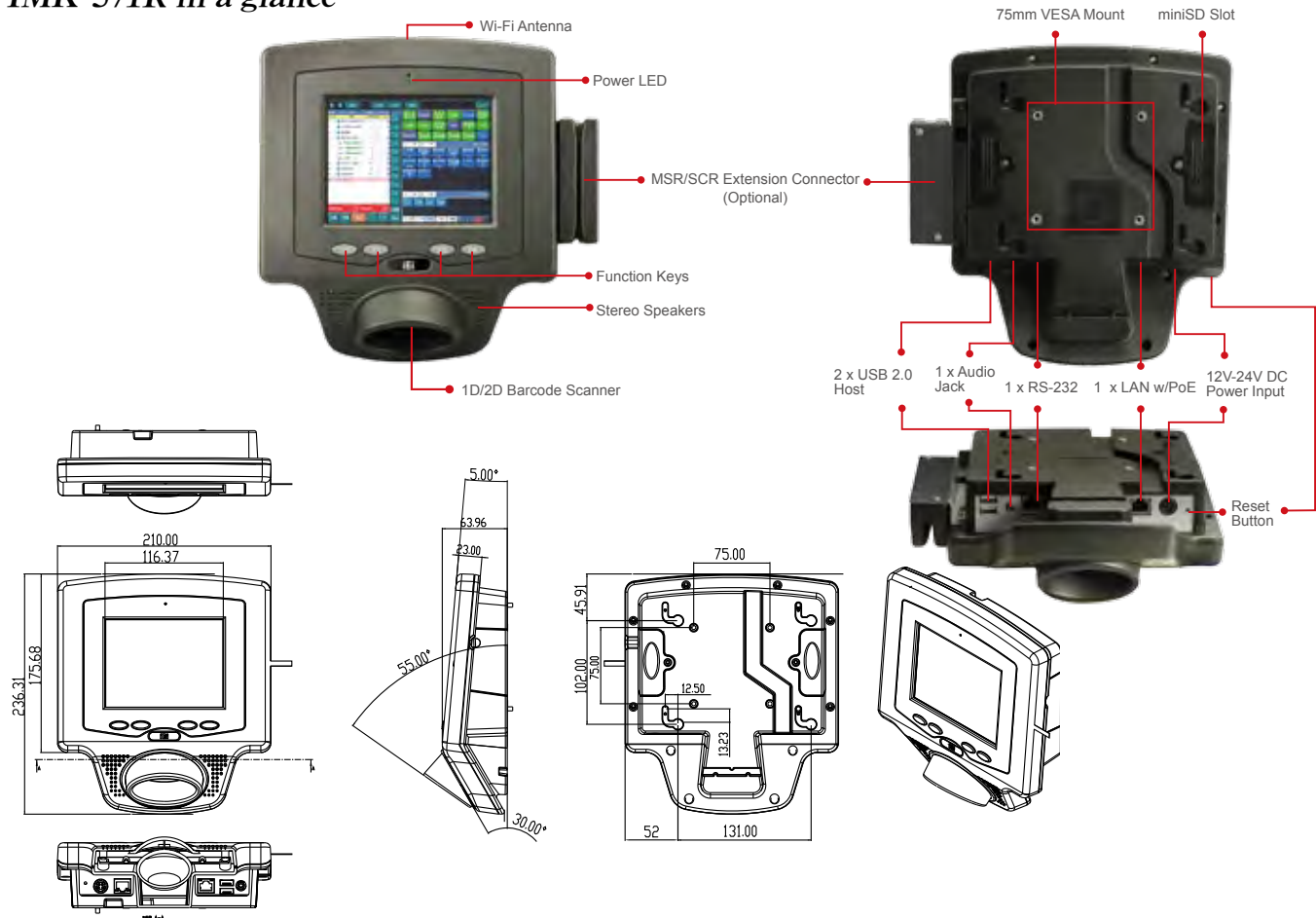
4

PACSmate Medical Solutions

5

Optional Peripherals

IMK-571R in a glance



Specifications

Model	IMK-571R MiniKiosk	
Core System	<ul style="list-style-type: none"> RMI Alchemy™ AU1250 500MHz CPU 2MB NOR flash for bootloader 256MB DDR2 miniSD slot with default 2GB miniSD memory card for OS and user data/program Watchdog Timer 	<ul style="list-style-type: none"> 10/100Mbps Ethernet with on-board POE design Built-in Wi-Fi 802.11 b/g RS-232 x 1 2 x USB host Rev. 2.0 1 x Stereo Audio Jack 2 x Stereo Speaker
Display	<ul style="list-style-type: none"> 5.7" VGA TFT touch panel LCD with LED backlight Resistive type 4-wire touch screen 	<ul style="list-style-type: none"> Operation temperature : 0°C-50°C Humidity : 5%-90% RH
Data Input and Display	<ul style="list-style-type: none"> Power LED 4 x Function keys 1D/2D barcode scanner 1 x Reset button MSR (IMK-571R-CE5/MSR-R10 only) 	<ul style="list-style-type: none"> 1 x 12-24V DC power input 8W power consumption
Connectivity		<ul style="list-style-type: none"> Windows® CE 5.0 Built-in web server Built-in RDC (Remote Desktop Connection) Thin Client support SDK for embedded Visual C++
Physical Specification		<ul style="list-style-type: none"> IMK Web Configurator IMK Remote Management Tool IMK Merchandise Manager
Power		Demo
OS		<ul style="list-style-type: none"> IMK Runtime Demo Application

Ordering Information

Part Number	Description
IMK-571R-CE5/-R10	RISC-BASED MINI KIOSK PANEL PC, ALCHEMY™ AU1250 CPU, 5.7" TFT TOUCH PANEL, HONEYWELL IT5180 1D/2D BARCODE SCANNER, WIFI B/G, ON-BOARD POE, W/O MAGNETIC STRIPE READER, WIN CE5.0, RoHS
IMK-571R-CE5/MSR/-R10	RISC-BASED MINI KIOSK PANEL PC, ALCHEMY™ AU1250 CPU, 5.7" TFT TOUCH PANEL, HONEYWELL IT5180 1D/2D BARCODE SCANNER, WIFI B/G, ON-BOARD POE, W/ MAGNETIC STRIPE READER, WIN CE5.0, RoHS
IMK-571R-CE5/MIFARE/-R10	RISC-BASED MINI KIOSK PANEL PC, ALCHEMY™ AU1250 CPU, 5.7" TFT TOUCH PANEL, HONEYWELL IT5180 1D/2D BARCODE SCANNER, MIFARE 13.56MHz RFID READER, WIFI B/G, ON-BOARD POE, W/O MAGNETIC STRIPE READER, WIN CE5.0, RoHS
7Z000-MIFARES50-RS	RFID PROXIMITY, CARD, 13.56MHz, ISO14443A; MIFARE-S50; SIZE: 85.6X 54X 0.76MM, PVC SURFACE; RoHS
AFLWK-12	VESA 75 WALL MOUNT KIT

Packing List

1 x IMK-571R	1 x Utility CD includes SDK, utilities, and technical document
1 x 9-pin RS-232 cable	1 x Touch pen
1 x Screw kit	

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

8.0" Printer PC

EP-308A

- 8.0" printer PC with Intel® Atom™ processor
- Small footprint satisfies limited space requirements
- Extendable connections for peripheral devices
- Built-in 2" easy-loading thermal printer
- Built-in resistive touch screen
- IP 64 compliant front panel

**Compact Desktop PC
built in thermal printer**



1. Compact Low Profile System

A compact and efficient desktop system is the perfect solution for small and medium business, allowing the business owner to easily manage the business transactions and records. The small footprint EP-308A is perfect for any environment installation.



Mobile POS System



Space Sensibility Retail Store



1

IEI Mobile Solutions

2

Automation Panel Solutions

2. Customer Display Connection via VGA

- * Migrating from vacuum fluorescent display (VFD) to LCD customer display via VGA connection
- * Double screen space
- * Displays retail advertisements and promotions



VFD

LCD monitor



Customer side display via VGA connection



3

RISC-based Solutions

4

PACSmate Medical Solutions

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Optional Peripherals

3. Built-in 2" Easy-Loading Thermal Printer with Auto-cutting

■ High Speed Thermal Printer

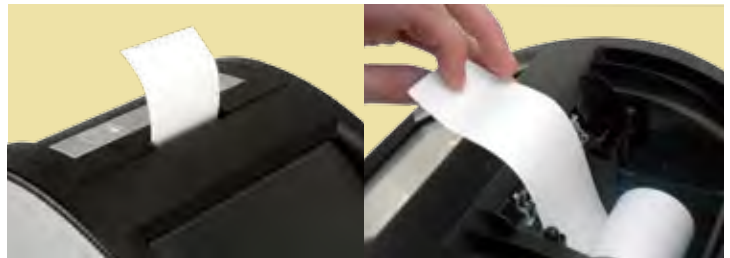
The built-in printer can print at 100 mm/s (800 dot line/s) maximum.

■ Auto Cutter

The built-in printer supports full cut or partial cut paper according to user selection.

■ Easy Paper Setting

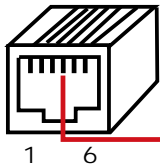
Paper can be easily inserted or the auto-load function can be selected. When a paper jam occurs, simply re-insert the roll of paper.



4. Cash Drawer Port via RJ-12 with 12V / 24V Power

Equipped with a digital I/O RJ-12 12 V/24 V port that provides extension for peripherals such as a cash drawer device.

Pin	Assignment
1	Ground
2	CASH_1 (Digital Out Programmable)
3	Digital IN
4	+12V/24V
5	NC
6	Ground

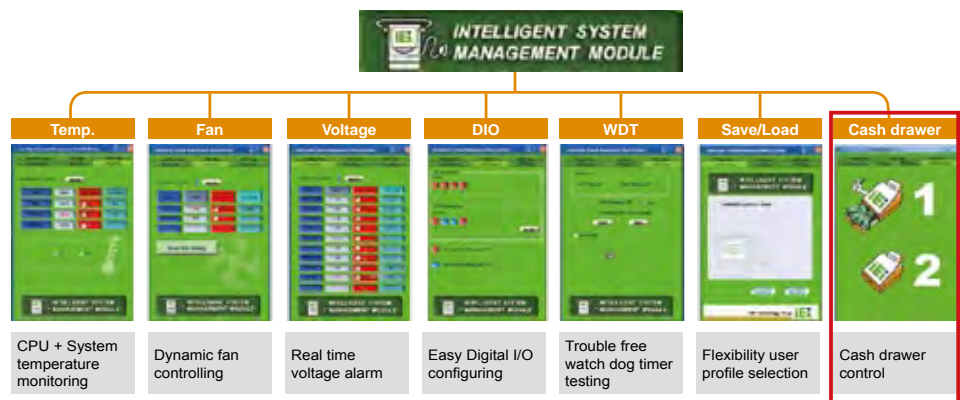


Digital I/O control diagram



5. IEI Intelligent System Management Module (iSMM)

The AFOLUX panel PC is equipped with the IEI patent system management module for tracking system and CPU temperatures, voltages, cooling fan speed, etc. By quickly capturing and reporting health data, users can prevent disasters from system instability or damage.



Cash Drawer Control For POS Application

6. Watchdog Timer Prevents System Lock-up

The watchdog timer will automatically restart the system if it stops responding, ensuring dependability during unattended operation.



- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

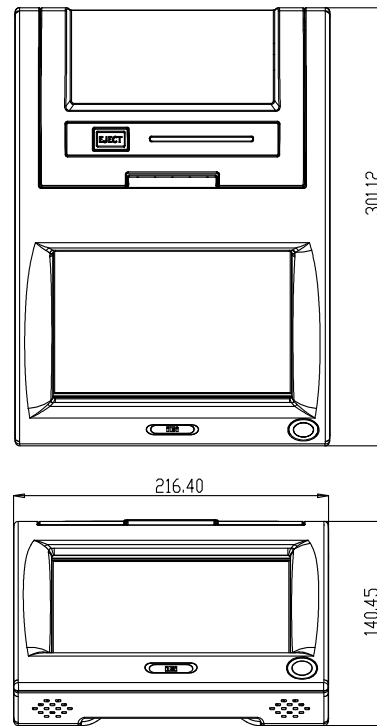
Rear Panel Input/Output



Specifications

Model	EP-308A-N270	
LCD Size	8"	
CPU	Intel® Atom™ 1.6GHz N270 Processor	
Chipset	Intel® 945GSE	
Memory	Built-in 1GB DDR2 Memory System Supports One 200-pin Dual-Channel 667 MHz DDR2 up to 2 GB	
Max. Resolution (W x H)	800 x 600	
Brightness (cd/m ²)	250	
Contrast Ratio	500:1	
LCD Color	262K	
Pixel Pitch (mm)	0.2025(H) x 0.2025(V)	
Viewing Angle (H-V)	130° / 110°	
Backlight MTBF	30000 hrs	
Touch Screen	5-Wire Resistive Type	
HDD	1 x 2.5" SATA HDD	
SSD	1 x CF Type II	
I/O Interface	Display	1 x VGA Port
	Powered USB	4 x USB 2.0
	Powered COM	2 x RJ-45 for RS-232 COM Port
	Cash Drawer Port	1 x RJ-12, 12V Cash Drawer Port
	LAN	1 x RJ-45 for Gigabit LAN
	Wireless	(Optional) IEEE 802.11 b/g/n (Internal PCIe Mini interface)
	Audio	AMP 1.5W + 1.5W (Internal speakers)
	Power Switch	1 x 24V DC-IN Power Jack
Power	Quick Buttons	1 x Power Switch with LED on Front Panel
	Adapter	FSP070-RAA607, VAC:90~264V, 24V/70W
	Output	24V DC
Mounting	VESA 75mm x 75mm / 100mm x 100mm	
Construction	Aluminum Chassis	
Color	Black / Silver or Selected Color	
Operation Temperature (°C)	0°C~40°C	
IP Level	IP64 (Front Panel)	
Safety & EMI	CE / EMC / FCC / UL / BSMI	
Dimensions (WxHxD)	320 x 217 x 141 mm	
Net Weight	2.80 Kg	

EP-308 Dimensions (Unit: mm)



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

Ordering Information

Part Number	Description
EP-308A-N270/T-R/1GB-R11	8" 250cd/m ² POS PC with Intel® Atom™ N270 1.6GHz, 1GB DDR2 RAM, 10/100Base-T Ethernet, built-in 2" easy loading thermal printer with auto cutter WPOS/OPOS support only, touch screen, RoHS
EP-308AX-N270/T-R/1GB-R11	8" 250cd/m ² POS PC with Intel® Atom™ N270 1.6GHz, 1GB DDR2 RAM, 10/100Base-T Ethernet, touch screen, RoHS
EP-308AS-N270/T-R/1GB-R11	8" 250cd/m ² POS PC with Intel® Atom™ N270 1.6GHz, 1GB DDR2 RAM, 10/100Base-T Ethernet, built-in 2" easy loading thermal printer with auto cutter command mode supported, touch screen, RoHS

Options

Barcode Reader	AFLP-BRW01-U (White color) / AFLP-BRB01-U (Black color)
Customer Display	AFL-CDW01 (White color) / AFL-CDB01 (Black color)
OS: Windows® XPE	EPCF-308-N270-XPE (4GB CF Card)
OS: Windows® WEPOS	EPCF-308-N270-WEPOSREADY (4GB CF Card)

In-Wall Mount Solutions

AFL-4xxA series

**Customizable Slim Bezel
+ In-Wall Mount**

- 8.0"~15" Highly Customizable All-in-One System**
 The system is extremely configurable. The semi-open frame system equipped with customizable faceplate, and the flexible LCD size options match your diverse style and OEM/ODM project request.
- Easy In-Wall Mount Mechanical Design**
 In-wall mounting just three simple steps: cut-out the panel install the screw and put on the faceplate
- Fanless Intel® Atom™ Platform**
 An on-board 1.6GHz Intel® Atom™ N270 CPU ensures low power requirements. Metal cast design housing replaces the fan as it helps dissipate heat.
- Changeable Faceplate/Sticker Skin**
 Multiple faceplates/skin stickers available to match decoration styles



1. Customizable Front Bezel

Highly customizable ideal for OED/ODM project

The AFOLUX 4 Series with its metal casing and open front bezel with flexible faceplate options is easy to integrate into your mechanical housing.

Available in 3 color finishes: white, black or gray finish. (Standard model support)



A. Stylish Front Bezel Customization



B. Function Added Front Bezel Customization



- IEI Mobile Solutions
- Automation Panel Solutions
- RISC-based Solutions
- PACsmate Medical Solutions
- Optional Peripherals

2. Sleek In-Wall Mounting



■ Benefits of In-Wall Mounting:

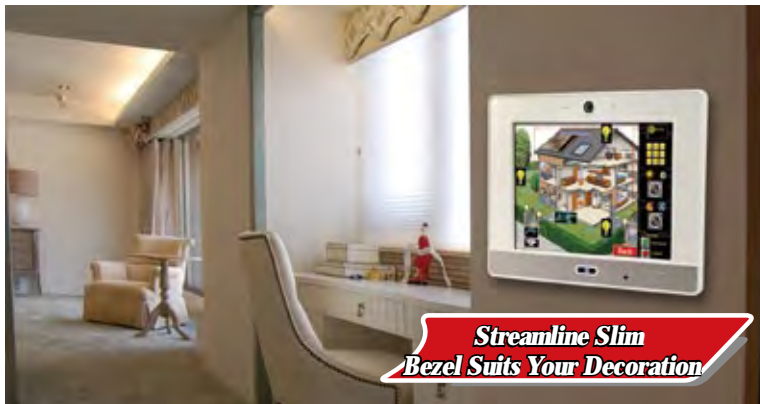
- In-wall mounting can hide power cord and wall electric outlet, and is flush with the wall.
- Never tire of your fireplace design because it can be customized to suit any decor. Change your front bezel design for a season, any holidays or a party theme.
- Frame allows for a finished look
- Space saving



■ In-Wall Cage Available

The IWC series is designed to house the AFL-4xxA 15" panel displays. It comes with knockouts for power and signal cables.

■ In-Wall Mount Residential Automation



AFL-4xxA 10 mm General PPC 22 mm



1
IEI Mobile Solutions

3. Digital Input Output ON/OFF Control

Built-in Digital Input and Output



The DIO (digital input output) ports provides a 4-channel ON/OFF control for the external devices like Relay.

Super IO		
GPI (Get Status)	↑ ↓	GPO Action (Open / Close)
Control Block		
Low Level High Level	↑ ↓	Low Level High Level

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Automation Panel Solutions

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RISC-based Solutions

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PACsmate Medical Solutions

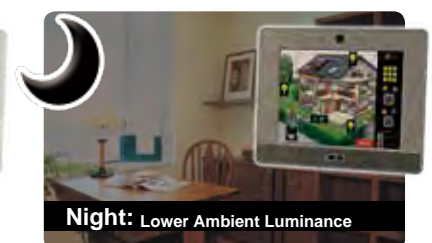
5
Optional Peripherals

4. Built-in Ambient Light Sensor

AFL-4xxx series built in the ambient light sensor automatically detects the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

Benefits:

- More comfortable viewing decreases eye strain and tiredness
- Reduces power consumption
- Extends lamp lifetime



5. Rich Multimedia Devices Built In

AFOLUX 4 Series integrates with Intel® Atom™ N270 processor down to 0.65W, but has great performance of playing multimedia files and great graphic engine.

- Built-in High Resolution 300K Pixels Webcam
- Built-in High-Performance 2 Channel Stereo Speakers, and Microphone



Built-in 300K pixel webcam with digital microphone



Two built-in 1.5W speakers

6. Communication Capabilities



■ Bluetooth (by ATO Request)

The preinstalled Bluetooth module communicates with a wide range of electronic products such as PDAs, cellular phones, printers and barcode readers.



■ Wi-Fi

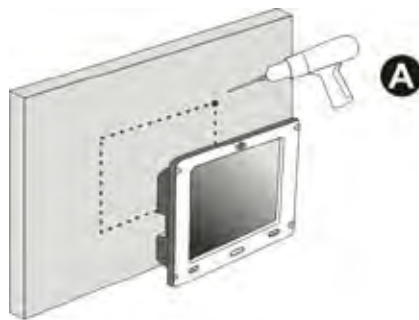
The integrated PIFA antenna on the AFOLUX ensures an uninterrupted wireless connection. PIFA type antennas can receive high-quality and uniform signals in any locations.



7. Easy In-Wall Installation in Minutes

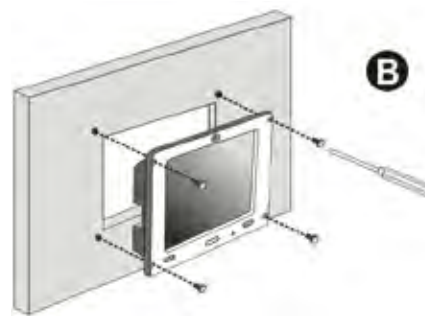
(A) Cut Out the Panel

Select the position on the panel to mount the flat panel PC. Cut out a section of the panel that corresponds to the rear panel dimensions.

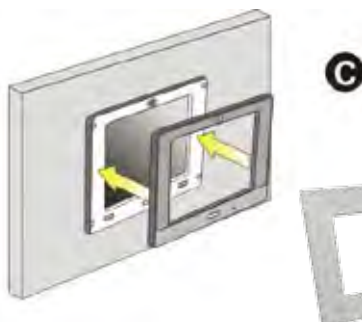


(B) Install the Screws

Tighten the screws that pass through the panel mounting holes until the screws are firmly secured to the panel.



(C) Put on the Faceplate



(D) Changeable Faceplate Sticker Skin (Customize by Order)



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

In-Wall Mounting Solutions

AFL-408A-N270

8.4" SVGA Fanless In-Wall Panel PC

AFL-408B-N270

8.0" SVGA Fanless In-Wall Panel PC

AFL-W410A-N270

Wide 10.2" SVGA Fanless In-Wall Panel PC



Features

- 8" ~ 15" TFT LCD with resistive touch screen
- Fanless system with Intel® Atom™ N270 1.6GHz CPU
- Changeable faceplate and sticker skin
- In-wall mechanism design installs in minutes
- Built-in CMOS camera with digital microphone and two 1.5W speakers for multimedia applications (optional)
- Connect peripheral devices through a built-in Bluetooth connection to reduce the amount of cables in the workspace
- VESA-mountable for flexible mounting and deployment
- Ambient light sensor detects ambient light and adjusts screen settings to optimize viewing.
- One Digital I/O (4 input/4 output)
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Suggest over 4GB storage capacity)

Specifications

Economical Version

Economical Version

Model		AFL-408A-N270	AFL-408B-N270	AFL-W410A-N270
Display	LCD Size	8.4"	8.0"	10.2"
	Max. Resolution	800 x 600	800 x 600	1024 x 600
	Brightness (cd/m ²)	450	250	400
	Contrast Ratio	600 : 1	500 : 1	400 : 1
	LCD Color	262K	262K	262K
	Pixel Pitch (mm)	0.213(H) x 0.213(V)	0.2025(H) x 0.2025(V)	0.2175(H) x 0.2175(V)
	Viewing Angle (H-V)	160° / 140°	140° / 130°	140° / 110°
	Backlight MTBF (hrs)	50000	30000	40000
Motherboard	CPU	Intel® Atom™ N270 1.6GHz CPU		
	Chipset	Intel® 945GSE + ICH7M		
	RAM	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)		
I/O Ports and Switches		1 x RJ-45 for RS-232 COM port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Gigabit LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power switch (inside front panel & rear cover) 1 x Reset button 1 x DIO (4in / 4out)	1 x RJ-45 for RS-232 COM port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Gigabit LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power switch (inside front panel & rear cover) 1 x Reset button 1 x DIO (4in / 4out)	1 x RJ-45 for RS-232 COM port 1 x RJ-45 for RS-232/422/485 COM port 1 x RJ-45 for Gigabit LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power switch (inside front panel & rear cover) 1 x Reset button 1 x DIO (4in / 4out)
		1 x Terminal block for 10~28VDC input 1 x VGA port 1 x Power jack	1 x Terminal block for 10~28VDC input 1 x VGA port 1 x Power jack	1 x Terminal block for 10~28VDC input 1 x VGA port 1 x Power jack
Driver Bay	SSD	CF Type II		
Other Function	Watchdog Timer	Software programmable supports 1~255 sec. system reset		
	Audio	AMP 1.5W + 1.5W (Internal speakers)		
	Wi-Fi	1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini interface)		
	Webcam and Digital Microphone	1 x 2megapixel camera with digital microphone (internal USB interface)	--	1 x 2megapixel camera with digital microphone (internal USB interface)
	Remote Control	1 x remote controller (LCD on/off; system power on/off; volume; brightness)		
	LED Function	1 x Power ON/OFF LED on front panel		
Physical	Construction Material	ABS + PC plastic front frame		
	LED Function	1 x Power ON/OFF LED on front panel		
	Mounting	Panel, wall VESA 75mm x 75mm / 100mm x 100mm		
	Front Panel Color	Black (black U) / White (apple white) / Gray (422C)		
Environment	Dimensions (WxHxD) (mm)	263.2 x 221.2 x 54.4	263.2 x 221.2 x 54.4	313.83 x 222.13 x 52.5
	Operation Temperature (°C)	-10°C ~50°C		
	Storage Temperature (°C)	-20°C ~60°C		
	Net Weight	0.8 Kg	0.8 Kg	1.5 Kg
	IP Level	IP63		
	EMC	CE, FCC		
Touch Screen	4-wire resistive type (touch controller IC is on board)		5-wire resistive type (touch controller IC is on board)	
Power Adapter	P/N: 63000-FSP036RAB608-RS / 36W power adapter / Input: 90VAC~264VAC, 50/60Hz / Output: 12VDC			
Power Requirement	10~28VDC	10~28VDC	10~28VDC	
Power Consumption	25W	25W	28W	

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IEI Mobile Solutions

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Automation Panel Solutions

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PACSmate Medical Solutions

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Optional Peripherals

In-Wall Mounting Solutions

AFL-412A-N270

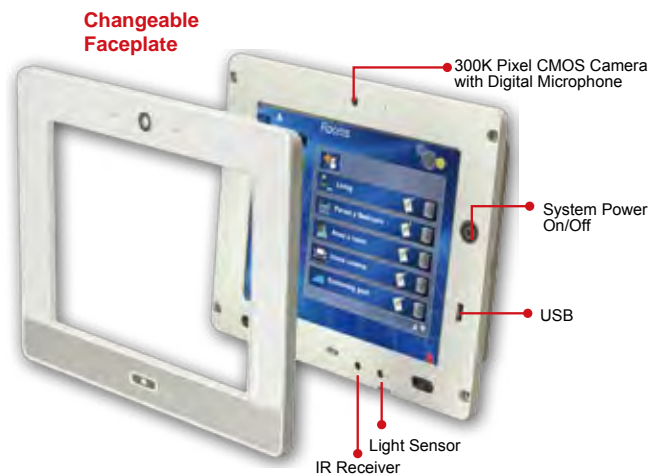
12.1" XGA Fanless In-Wall Panel PC

AFL-415A-N270

15" XGA Fanless In-Wall Panel PC

AFL-415AE-N270

15" XGA Economical Fanless In-Wall Panel PC



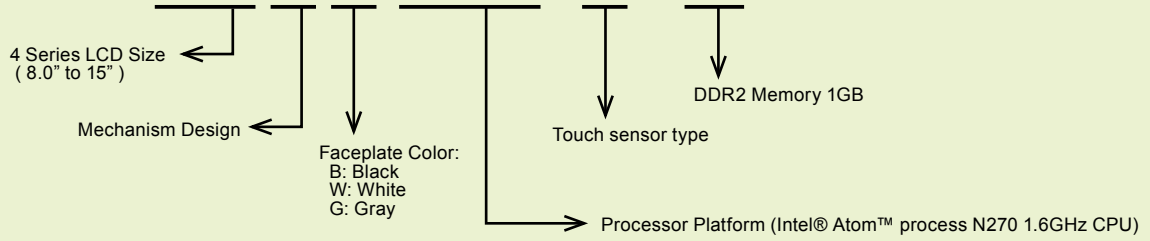
Specifications

Model		AFL-412A-N270	AFL-415AE-N270	
Display	LCD Size	12.1"	15	
	Max. Resolution	1024 x 768	1024 x 768	
	Brightness (cd/m²)	500	250	
	Contrast Ratio	700 : 1	600 : 1	
	LCD Color	262K	16.2M	
	Pixel Pitch (mm)	0.3075(H) x 0.3075(V)	0.297(H) x 0.297(V)	
	Viewing Angle (H-V)	160° / 160°	160° / 160°	
	Backlight MTBF (hrs)	50000	30000	
Motherboard	CPU	Intel® Atom™ N270 1.6GHz CPU		
	Chipset	Intel® 945GSE + ICH7M		
	RAM	Supports one 400MHz or 533MHz DDR2 SO-DIMM (Max. 2GB)		
I/O Ports and Switches	1 x RJ-45 for RS-232 COM Port 1 x RJ-45 for RS-232/422/485 COM Port 1 x RJ-45 for Gigabit LAN 5 x USB 2.0 (4 in the rear, 1 in front panel) 2 x Power switch (inside front panel & rear cover) 1 x Reset button 1 x DIO (4in / 4out) 1 x Terminal block for 10~28VDC input 1 x VGA port 1 x Power jack			
	Driver Bay	1 x 2.5 SATA HDD bay		
		CF Type II		
	Other Function	Watchdog Timer	Software programmable supports 1~255 sec. system reset	
		Audio	AMP 1.5W + 1.5W (Internal speakers)	AMP 3W + 3W (Internal speakers)
		Wi-Fi	1 x Wireless LAN 802.11 b/g/n module (internal PCIe Mini interface)	
		Webcam and Digital Microphone	1 x 2megapixel camera with digital microphone (internal USB interface)	
		Remote Control	1 x Remote controller (LCD on/off; system power on/off; volume; brightness)	
	Physical	LED Function	1 x Power ON/OFF LED on front panel	
		Construction Material	ABS + PC plastic front frame	
LED Function		1 x Power ON/OFF LED on Front Panel		
Mounting		Panel, Wall VESA 75mm x 75mm / 100mm x 100mm		
Front Panel Color		Black (black U) / White (apple white) / Gray (422C)		
Environment	Dimensions (WxHxD) (mm)	339 x 276 x 51.6	385.7 x 330.7 x 55.5	
	Operation Temperature (°C)	0°C ~40°C with 2.5 SATA HDD / -10°C ~50°C with CF Card or SATA interface 2.5 SSD HDD		
	Storage Temperature (°C)	-20°C ~60°C		
	Net Weight	1.8 Kg	3.2 Kg	
	IP Level	IP63	IP63	
	EMC	CE, FCC	CE, FCC	
Touch Screen	Resistive type 5-wire (touch controller IC is on board)			
Power Adapter	P/N: 63000-FSP050DBAB1405-RS 50W power adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP060DBAB1553-RS 60W power adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC		
Power Requirement	10~28VDC	10~28VDC		
Power Consumption	32W	49W		

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

AFL-4xxx In-Wall PPC Product Line Naming Rule

AFL- 408 A B-N270 / R / 1G - R21



Ordering Information

Model	Description
8"	AFL-408BB-N270/R/1G-R23 8.0" 250 cd/m ² , 800x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, touch screen and, 10-28VDC wide range, black color, R23
	AFL-408BW-N270/R/1G-R23 8.0" 250 cd/m ² , 800x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, touch screen and, 10-28VDC wide range, white color, R23
	AFL-408BG-N270/R/1G-R23 8.0" 250 cd/m ² , 800x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, touch screen and, 10-28VDC wide range, gray color, R23
8.4"	AFL-408AB-N270/R/1G-R23 8.4" 450 cd/m ² , 800x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, 2megapixel Camera W/Microphone, touch screen and, 10-28VDC wide range, black color, R23
	AFL-408AW-N270/R/1G-R23 8.4" 450 cd/m ² , 800x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, 2megapixel Camera W/Microphone, touch screen and, 10-28VDC wide range, white color, R23
	AFL-408AG-N270/R/1G-R23 8.4" 450 cd/m ² , 800x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, 2megapixel Camera W/Microphone, touch screen and, 10-28VDC wide range, gray color, R23
10.2"	AFL-W410AB-N270/R/1G-R31 10.2" 400 cd/m ² , 1024x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, touch screen and, 10-28VDC wide range, black color, R31
	AFL-W410AW-N270/R/1G-R31 10.2" 400 cd/m ² , 1024x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, touch screen and, 10-28VDC wide range, white color, R31
	AFL-W410AG-N270/R/1G-R31 10.2" 400 cd/m ² , 1024x600 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, touch screen and, 10-28VDC wide range, gray color, R31
12.1"	AFL-412AB-N270/R/1G-R23 12.1" 500 cd/m ² , 1024x768 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, 2megapixel Camera W/Microphone, touch screen and, 10-28VDC wide range, black color, R23
	AFL-412AW-N270/R/1G-R23 12.1" 500 cd/m ² , 1024x768 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, 2megapixel Camera W/Microphone, touch screen and, 10-28VDC wide range, white color, R23
	AFL-412AG-N270/R/1G-R23 12.1" 500 cd/m ² , 1024x768 fanless In-wall panel PC with Intel® Atom™ N270 1.6GHz CPU, 1GB DDR2 RAM, AT/ATX mode, 802.11b/g/n wireless, 2megapixel Camera W/Microphone, touch screen and, 10-28VDC wide range, gray color, R23

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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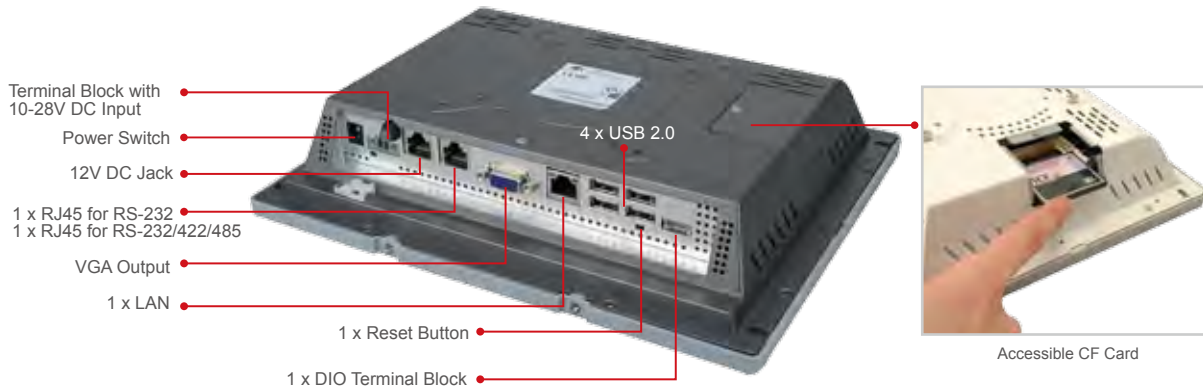
PACSmart Medical Solutions

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Optional Peripherals

ISMM Support Functions

	Voltage	Fan	Smart Fan	Temperature	DIO	WDT	Beep
AFL-408A-N270	V			V	V	V	V
AFL-408B-N270							
AFL-W410A-N270	V			V	V	V	V
AFL-412A-N270	V			V	V	V	V



Options

Model	AFL-408A-N270	AFL-408B-N270	AFL-W410A-N270	AFL-412A-N270
Wall Mounting Kit	AFLWK-12			
Arm	ARM-11-RS / ARM-31-RS			
Stand	STAND-A08 / STAND-100-RS		STAND-A12 / STAND-100-RS	
V-STAND	VSTAND-A10		VSTAND-A12	
9~30VDC to 12VDC Converter Module	IDD-930160-KIT			
OS	OS: Win CE 5.0 (128 MB CF Card)	AFLCF-408A-N270-CE-R21	AFLCF-W410-N270-CE-R21	AFLCF-412-N270-CE-R21
	OS: Win CE 6.0 (128 MB CF Card)	AFLCF-408A-N270-CE060-R21	AFLCF-W410-N270-CE060-R21	AFLCF-412-N270-CE060-R21
	OS: Win XPE (1 GB CF Card)	AFLCF-408A-N270-XPE-R21	AFLCF-W410-N270-XPE-R21	AFLCF-412-N270-XPE-R21
	OS: Linux (2 GB CF Card)	AFLCF-408A-N270-LNX-R21	AFLCF-W410-N270-LNX-R21	AFLCF-412-N270-LNX-R21
DC 12V Input UPS	AUPS-A10-R10			
DC 9~36V Input UPS	AUPS-A20-R10			
Faceplate (Black Color)	AFLFP-408A-B-R10	AFLFP-408B-B-R10	AFLFP-W410A-B-R10	AFLFP-412A-B-R10
Faceplate (White Color)	AFLFP-408A-W-R10	AFLFP-408B-W-R10	AFLFP-W410A-W-R10	AFLFP-412A-W-R10
Faceplate (Gray Color)	AFLFP-408A-G-R10	AFLFP-408B-G-R10	AFLFP-W410A-G-R10	AFLFP-412A-G-R10
In-Wall Cage (Options)	AFLIWC-408-R10	AFLIWC-408-R10	AFLIWC-W410-R10	AFLIWC-412-R10
Bluetooth V2.0+EDR	AFL-BT-KIT01-R10	N/A	N/A	AFL-BT-KIT01-R10

Note: Win CE application without digital microphone function

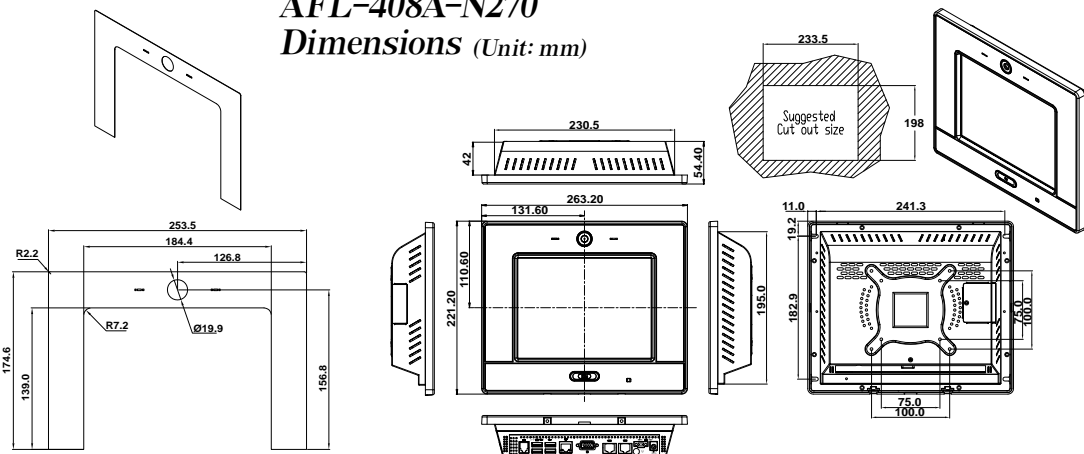
Packing List

Item	P/N	Q'ty	Specifications
Screws	44233-030081-RS	4	M3; φ8mm
	63000-FSP036RAB608-RS 63000-FSP050DBAB1405-RS 63000-FSP060DBAB1553-RS	1	90 ~ 264V 12v, 36W / 50W / 60W
Power Adapter	32000-000002-RS	1	1750mm, European Standard
User's Manual CD	7B000-000087-RS	1	
Touch Pen	43125-0002C0-RS	1	
Remote Control Unit	72000-8T00320ICP05G-RS	1	
One Key Recovery CD		1	

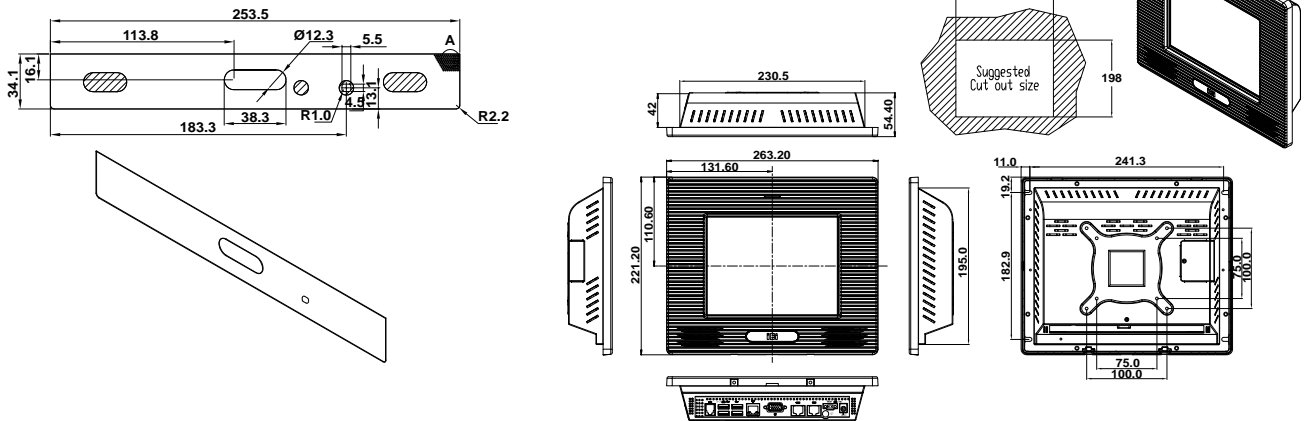
Changeable Faceplate:



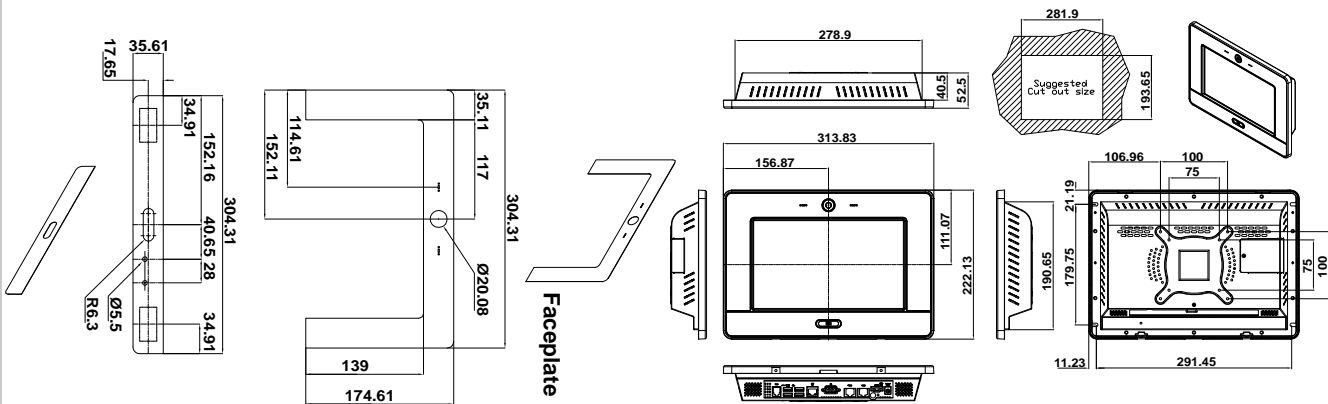
AFL-408A-N270
Dimensions (Unit: mm)



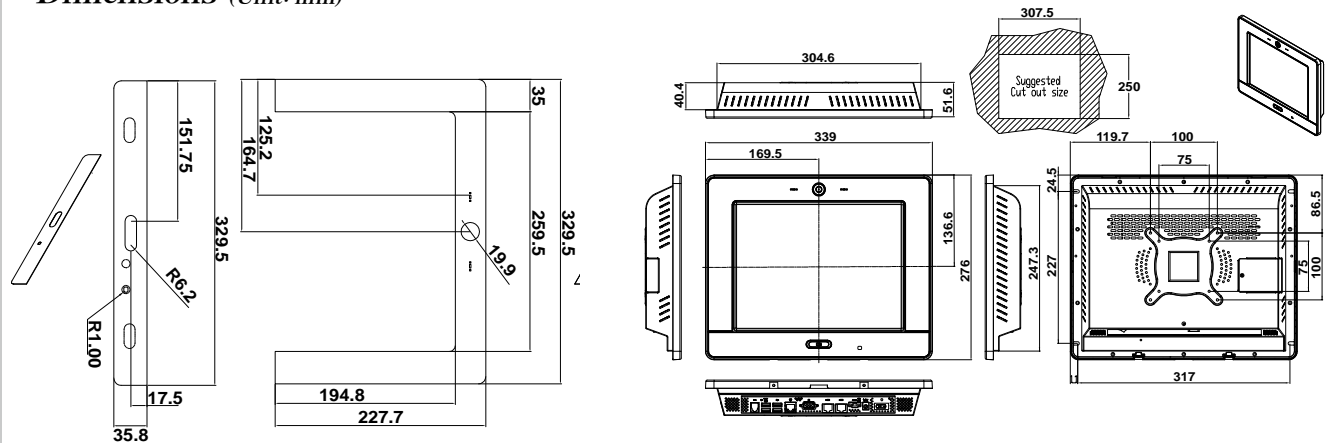
AFL-408B-N270
Dimensions (Unit: mm)



AFL-W410A-N270
Dimensions (Unit: mm)



AFL-412A-N270
Dimensions (Unit: mm)



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Optional Peripherals

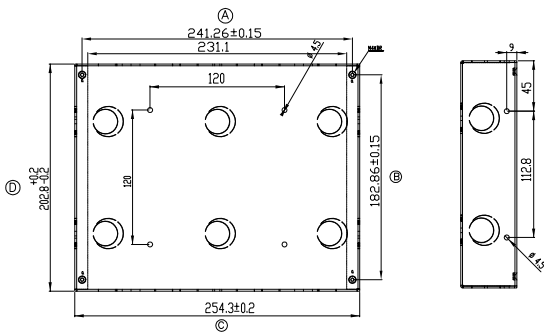
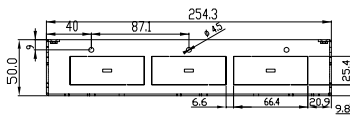
In-Wall Cage



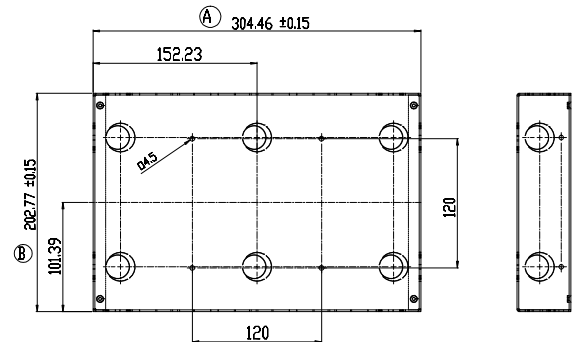
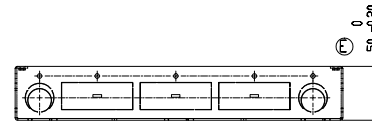
- Cable routing along frame and through knockouts
- Frame allows for a finished look
- Fits: 8.0"- 15" panel displays
- Color: White

Remove appropriate electrical conduit knockouts prior to installation of the cage.

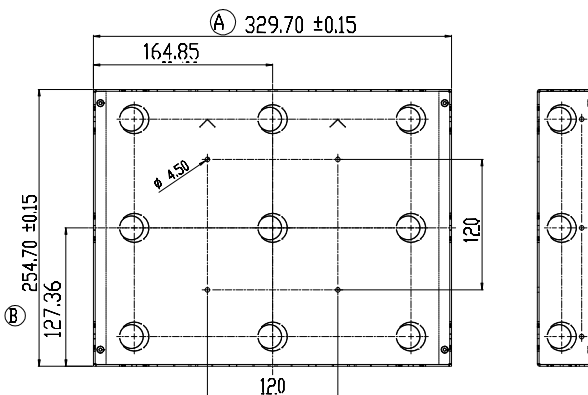
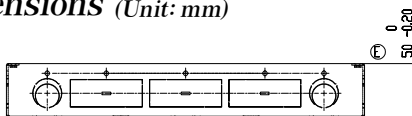
AFLIWC-408A/B-R10 Dimensions (Unit: mm)



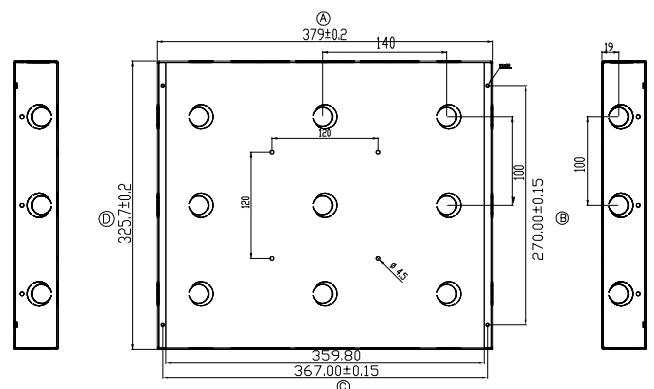
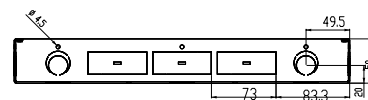
AFLIWC-W410A-R10 Dimensions (Unit: mm)



AFLIWC-412A-R10 Dimensions (Unit: mm)



AFLIWC-415A-R10 Dimensions (Unit: mm)



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Optional Peripherals

RFID Collector Solutions

ACT series

The ACT series integrated with RFID technology provides complete access control and security systems for commercial, residential, industrial, financial, education and government institutions.



Home Automation



Video/Audio Communication



Digital Signage



Identification

Reliable

- Meets MIL-STD 810F testing procedures
- Sealed against water and dust intrusion (IP64 Front Panel)
- Fanless system design decreases downtime and reduces the need for on-site support

Innovative

- Built-in RFID reader works with EM or Mifare cards and tags
- In-wall mounting design
- Intuitive touch panel for easy operation

Wireless

- 802.11 b/g WLAN

Flexible

- Built-in webcam and microphone can be used as an intercom through the LAN connection or as a biometric access control system based on face and voice recognition
- Computer architecture under Windows® operating system enables system developers to easily integrate versatile applications

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Optional Peripherals

PoE
IEEE802.3af



ACT-457A 5.7" RISC-based EM/Mifare RFID Panel PC

Model		ACT-457A
TFT LCD	Panel size	5.7"
	Resolution	640 x 480
	Brightness	400 cd/m ²
CPU Platform		RMI® Alchemy™ AU1250 500MHz CPU
RFID Reader		EM 125KHz, MIFARE 13.56MHz
In-Wall Mounting		•
Wi-Fi		IEEE 802.11 b/g
PoE (IEEE 802.3af)		•
Digital I/O		1 x DI for exit button
Relay Output		Open door relay, alarm relay
Wiegand 26		--

1. ACT Series General Features

■ Integrated RFID Technology

Since RFID technology uses radio frequency as a data transmission intermediary, it can be classified by the frequency band the RFID system adopts since different frequencies will result in different physical attributes.

ACT-457A supports LF/HF/Dual Modes!



Low Frequency (125-134KHz)



High Frequency (13.56MHz)



Ultra High Frequency (860-960MHz)

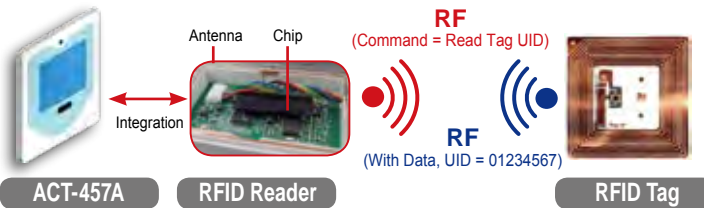


Microwave (2.45GHz)

	100KHz	1MHz	100MHz	1GHz	5GHz
	Low Frequency (125KHz)		High Frequency (13.56MHz)		UHF (860-960MHz)
		ISO14443	ISO15693	Felica (NFC)	
Data Rate	Up to 16kbps	Up to 106kbps <i>Faster!</i>	Up to 53kbps	Up to 424kbps	Up to 640kbps
Reading Distance	0-200cm	0-10cm <i>Long Distance!</i>	0-150cm	0-10cm	300-800cm
Memory	R/O	48/64 bits	64 bits	64 bits	64 bits
	R/W	2048/1024 bits	512-4096 bits <i>High Capacity!</i>	Max. 2048 bits	N/A
Interference	Liquid	Low	Mid	Mid	High
	Metal	High	High	High	High
Security	RF	Very low	Low	Low	High
		32-bit password	High (AB keys)	Low	High (AB Keys)

■ RFID Identification in Access Market

The ACT-457A RFID operating system contains RFID tags, Reader Antenna, Reader and Software (operation system, middleware and applications). When a command is generated by the application, the reader encodes the command (reads the tag UID) and transmits it in RF format. Then, tags in range of RF coverage receive the RF signal, turn it into energy and decode the command and response in RF format (return UID '01234567').

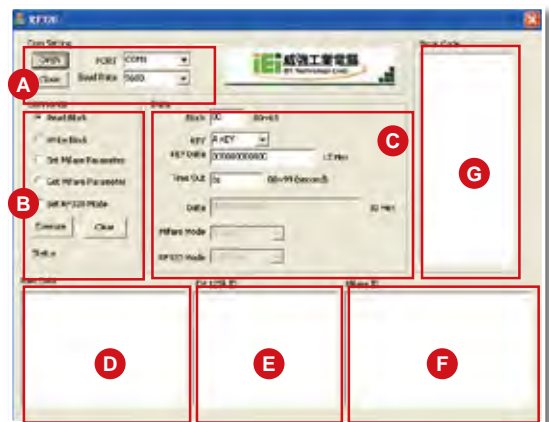


RFID in Access Market Advantages:

- High Security**
Each RFID tag contains an integrated chip with a unique permanent identification (UID) number burned-in during the manufacturing process to make counterfeiting difficult.
- High Efficiency**
Multiple tags can be read in parallel; no line of sight reading
- High Durability**
Less subject to environmental damage

■ IEI RFID Software Development Kit

- A** • **COM Port Settings and Activation Area**
Allows the user to select the serial port that communicates with the RFID reader module.
- B** • **Commands Area**
Displays various command options for user to select.
- C** • **Data Input Area**
The data input area is where the user enters block number, key, key data, and other information required by certain commands.
- D** • **Raw Data Display Area**
Shows all communication logs and responses of the executed commands.
- E** • **EM Card ID Display Area**
Displays the EM card ID when the EM card is detected.
- F** • **Mifare Card ID Display Area**
Displays the Mifare card ID when the Mifare card is detected.
- G** • **Error Code Display Area**
Shows the error message when an error occurs.



2. Windows® Environment for Easy and Fast 3rd Party Integration

Windows® CE 6.0 and Windows® XP Embedded operating systems are able to integrate with other applications to create a complete solution.

LED only for display of time and card number.



- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
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- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

3. Video/Audio Hardware Device Ready for 3rd-Party Integration

ACT-412A is unsurpassed in functionality with built-in 3W speakers and a microphone for two-way voice communication or voice messaging. Included is a 300K pixel web-camera for real-time image/video capability and facial identification. The ACT-412A offers a unique opportunity for third-party hardware integration.

Low Light Function

300K pixel camera up to VGA resolution (640 x 480)



Face Recognition

The digital camera captures the image of a person's face and compares facial contours and other facial features with those stored in a database.

Microphone



Voice Recognition

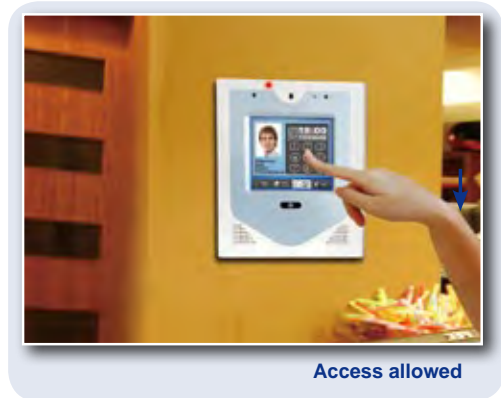
The microphone captures the voice of a person and compares the signature frequencies with those stored in a database.

3W Speakers



High quality hands-free speakerphone

Talk with visitors while they wait outside.



Access allowed

4. Tough System Design Ideal for Indoor and Outdoor Applications

The housing of the ACT terminal is hard plastic with IP64 front panel protection. With anti-shock, anti-vibration shields and the ability to withstand temperatures ranging from -10°C~50°C, the system design is secured against vandalism and protected against extreme environmental conditions.



Waterproof Testing



Vibration/Shock Testing



Dustproof

Vibration

Follow MIL-STD-810F 514.5C-1

Shock

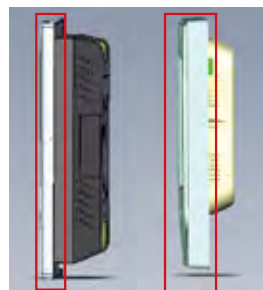
1. Operating Shock Half-Sine Wave Shock
3G: 11ms, 3 shocks per axis: Vertical / Transverse / Longitudinal.
2. Non-Operation Shock Half-Sine Wave Shock
10G: 11ms, 3 shocks per axis: Vertical / Transverse / Longitudinal.

5. In-Wall Mount

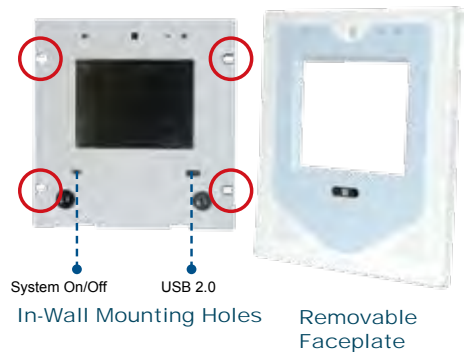
Using an in-wall mounting box allows you to achieve "breathtaking" style installations.



Match your Decoration Style!



Only 1cm thick! Before



System On/Off USB 2.0 In-Wall Mounting Holes

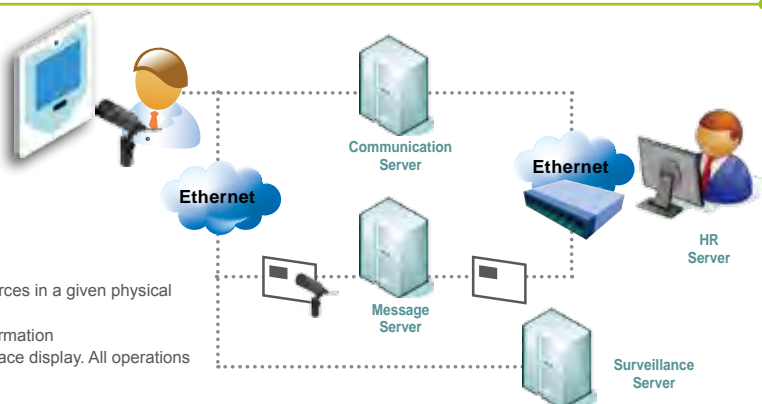
Removable Faceplate

6. Membership Management



We Offer:

- Proximity EM card/tag reading capability to control access to areas and resources in a given physical facility
- 5.7" large color TFT LCD shows the visitor information and delivers event information
- Interactive touch panel allows users to access the information with a full interface display. All operations can be done directly on the touch screen.
- Sleek frame and in-wall mounting match every location



1 IEI Mobile Solutions

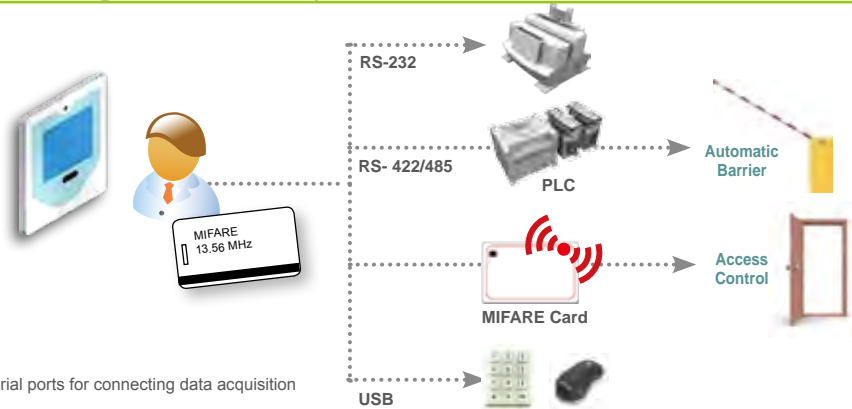
2 Automation Panel Solutions

3 RISC-based Solutions

4 PACSmate Medical Solutions

5 Optional Peripherals

7. RFID Automated Parking Control System



We Offer:

- **Serial port for Data Transmission**
We provide two independent RS-232 and RS-422/485 serial ports for connecting data acquisition equipment and many other serial devices .

8. Access Control Door System

The two-in-one EM/MIFARE compliant RFID reader installed in the ACT-08A x86 based panel PC supports sophisticated security applications.



300K pixel camera supports up to VGA resolution (640)

• **Face Recognition**

The digital camera captures the image of a person's face and compares facial contours and other facial features with those stored in a database in a few seconds.



Microphone

• **Voice Recognition**

The microphone captures the voice of a person and compares the signature frequencies with those stored in a database.

• **High quality hands-free speakerphone**

Talk with visitors while they wait outside.



We Offer

- **x86 architecture that is easy for system integrator application development**
- **Bluetooth Connectivity (optional)**
Bluetooth infrastructure eliminates the use of wires or line-of sight.



MIFARE/EM Card

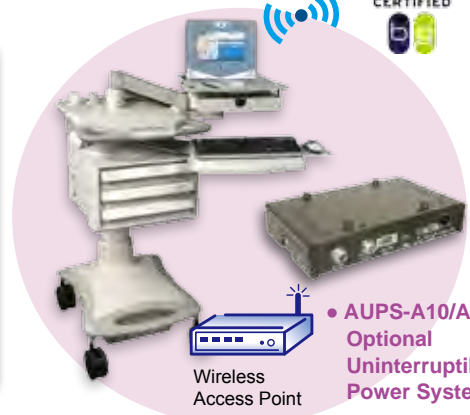


Speakers

9. Healthcare Solutions

The ACT-08A with Radio Frequency Identification (RFID) technology can be utilized in hospitals and healthcare facilities to identify and track patients, objects, and assets or speed up / eliminate manual operations in checking and processing patients.

- **Medication Tracking System**
Monitor the flow of medication through the hospital, from shipment to administration, to help prevent medical mistakes.
- **Asset Tracking**
Attaching an RFID tag to each piece of equipment to locate ACT-08A readers throughout the area of operations where the hardware is used.
- **Family Access Control to Babies in Neonatal Care**
After authorization, families have the ability to view details about their babies on the ACT-08A outside the baby care room.



Wireless Access Point

• **AUPS-A10/A20 Optional Uninterruptible Power Systems**

We Offer

- **Compact Fanless System**
- **Optional Uninterruptible Power System**
Protecting your ACT-08A from damage in medical environments is critically important. Uninterruptible power supplies reduces the risk of losing valuable data when power failures occur.



Wristband (with space to insert small paper card tag)

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

ACT-457A

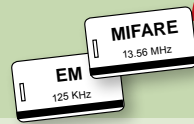
5.7" RISC-based RFID Panel PC

PoE
IEEE802.3at

CMOS Digital Camera with Microphone

Features

- 5.7" TFT touch color screen, full interface display, all operations can be done directly on the touch screen
- Integrating with RMI Alchemy™ AU1250 500MHz media processor provides hardware decoding for MPE1/2/4, DivX and WMV9
- Dual 125KHz-EM/13.56MHz-Mifare RFID reading capacity
- Built-in open door relay, alarm relay and exit button input
- Windows® CE5.0 operating system support
- IP64 front panel watertight and dustproof is the perfect solution for harsh environments
- Optional IEEE802.3at Power Over Ethernet (PoE) compliant



Low Power, High Multimedia Performance

Integrated with RMI Alchemy™ technology to enable users to play DVD quality video efficiently at full-frame rates with low power consumption. The integrated MAE (Media Acceleration Engine) supports common digital video formats including MPEG1, 2, 4, DivX, and WMV9, and delivers full D1 resolution without the need for a DSP or specialized coding.

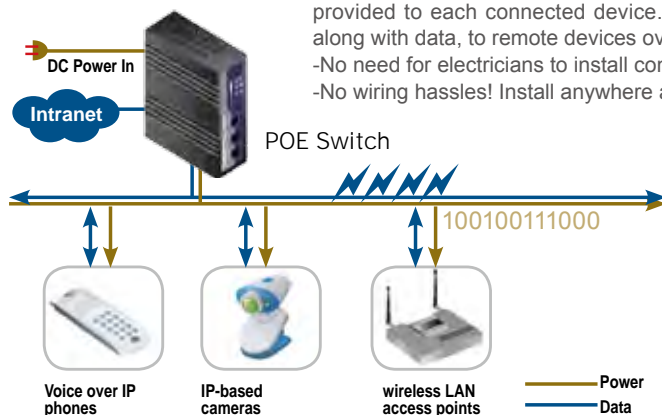
Multi Video/Audio Format Support Table			
Format	Stream Type	Audio Format	Supported Bit Rates
MPEG-1	System	MPEG	8 Mbps
	Program	MPEG	10 Mbps
MPEG-2	Transport	MPEG	8 Mbps
	Unencrypted only	WMA	2.5 Mbps
WMV9	CBR w/o filters, 720x480	WMA	2.5 Mbps
	VBR w/o filters, 720x480	WMA	2.5 Mbps
	Unencrypted only / no subtitles - V3.11	MP3/AAC/MPEG	4 Mbps
DivX	V4	MP3/AAC/MPEG	4 Mbps
	V5	MP3/AAC/MPEG	4 Mbps
	MPEG-4 MP4 ISO/EIC 14496-2	Advanced Simple Profile – level 5	AAC
MPEG-4 AVI	Advanced Simple Profile – level 5	MP3, AC-3	4 Mbps



PoE Power Reduces Cost of System Installation

The ACT-457A is IEEE 802.3at compliant. The IEEE 802.3at PoE standard ensures that 25W of DC power is provided to each connected device. PoE Technology describes a system to safely transfer electrical power, along with data, to remote devices over standard category 5e cable in an Ethernet network.

- No need for electricians to install conduit, electrical wiring, and outlets throughout the enterprise.
- No wiring hassles! Install anywhere a RJ-45 jack is present.



PoE
IEEE802.3at



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IEI Mobile Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

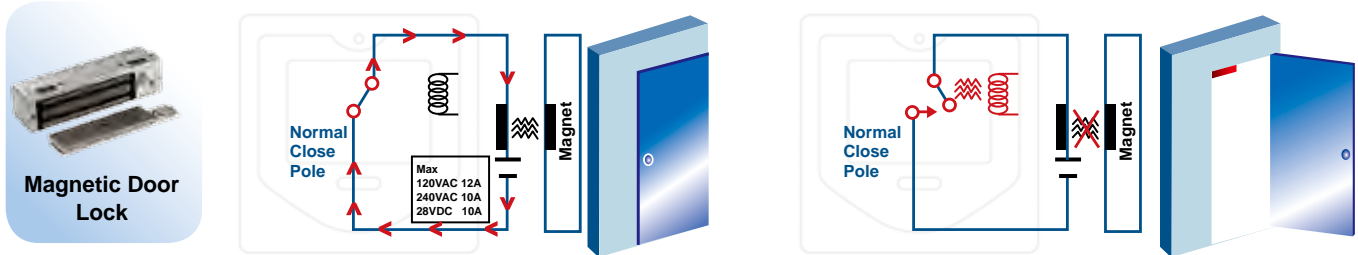
5
Optional Peripherals

How Does the Relay Switch Work in the ACT-457A?

ACT-457A has two built-in output controls. Electricity flows through one circuit while the other circuit controls the flow of electricity. When the electromagnet is energized, it exerts a force on the armature that overcomes the pull of the spring and moves the contact. The contact is then complete or the circuit is broken. When the electromagnet is de-energized, the contact returns to its original position.

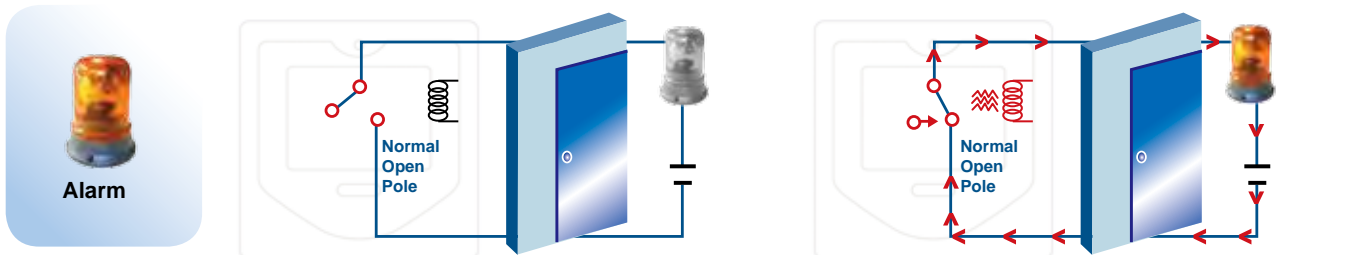
Normal Close Example:

In its normal state, the relay is typically closed. When the electromagnet is energized, it will open and break the circuit.



Normal Open Example:

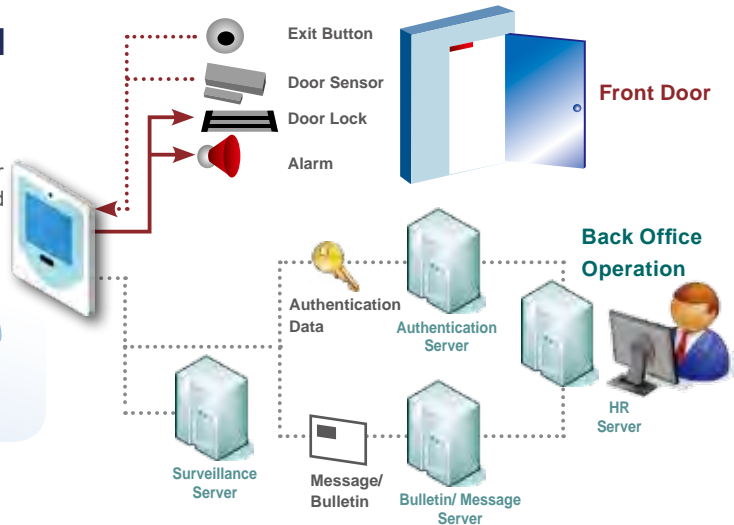
When the relay is open, there is no connection between the two wires until the relay receives a signal (outside source energizes the relay) to close. Simply put, an open relay is the same as a light switch that is turned off, and will always be off until turn on.



EM Application Access Control

When a user is identified by RFID sensor, their personal access information will be automatically stored and backed up on the surveillance server. At the same time, identification data will be sent to the back-end system for processing. Authentication server will confirm with a valid list and feedback the result via Ethernet.

- ⋯ Digital Input
- Relay Output
- ⋯ Ethernet/VPN

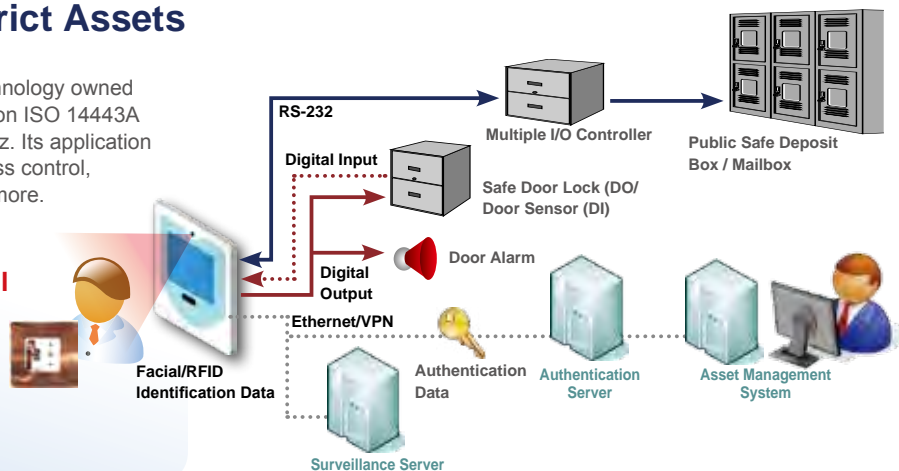


Mifare Application Restrict Assets

What is MIFARE®?
MIFARE is a contact-less smart card technology owned by Philips. MIFARE technology is based on ISO 14443A and operates at a frequency of 13.56 MHz. Its application segments range from identification, access control, payment and billing systems, and many more.

One Pass for All Situations!

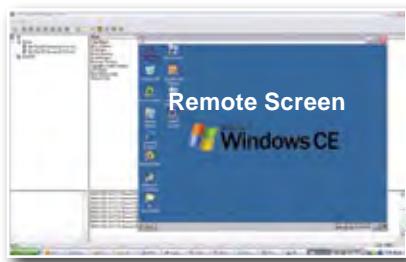
- ⋯ Digital Input
- Relay Output
- ⋯ Ethernet/VPN
- RS-232



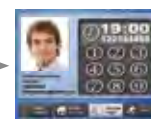
- 1 IEI Mobile Solutions
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Remote Management Tool

IEI RMT allows remote management of several ACT terminals at the same time via a network. You can quickly access distributed ACT terminals from anywhere in the world and control/resolve issues remotely!



Remote Office



Site 1



Site 2



Site n

IEI RMT Tool

Input the IP address range on the Internet, the management system will automatically scan the distributed ACT terminals in the desired range.

Web-based Configurator

Allows users to access ACT-457A and modify the settings on a web browser interface anytime, anywhere without installing any applications. It makes management of ACT-457A easy and convenient for IT administrators and reduces your system maintenance costs.



System Setting

User can recall system information and set up Ethernet and Wireless parameters using the system setting menu. The remote restart option allows users to restart the system when any abnormal circumstance occurs and a restart procedure is needed.



1

IEI Mobile Solutions

Runtime DEMO

ACT Runtime Demo is a pre-installed application which introduces the functions of the ACT-457A to new users.



300K Pixel CMOS Camera

In the video camera window, user can preview video output. The Capture and Open function enable user to capture preview image, save as bitmap file and open.



Access Control by Smart Card or Exit Button

On the home automation page, user can open the magnetic door by pressing the exit button or read a sample RFID card.



3

RISC-based Solutions

4

PACSmate Medical Solutions

5

Optional Peripherals



Member Login

User can test the RFID reading function on the member login page. When a sample card is read, the application will identify and display personnel information on the screen. User can edit the valid XML member list file with PC-based utility included on the ACT-457A.

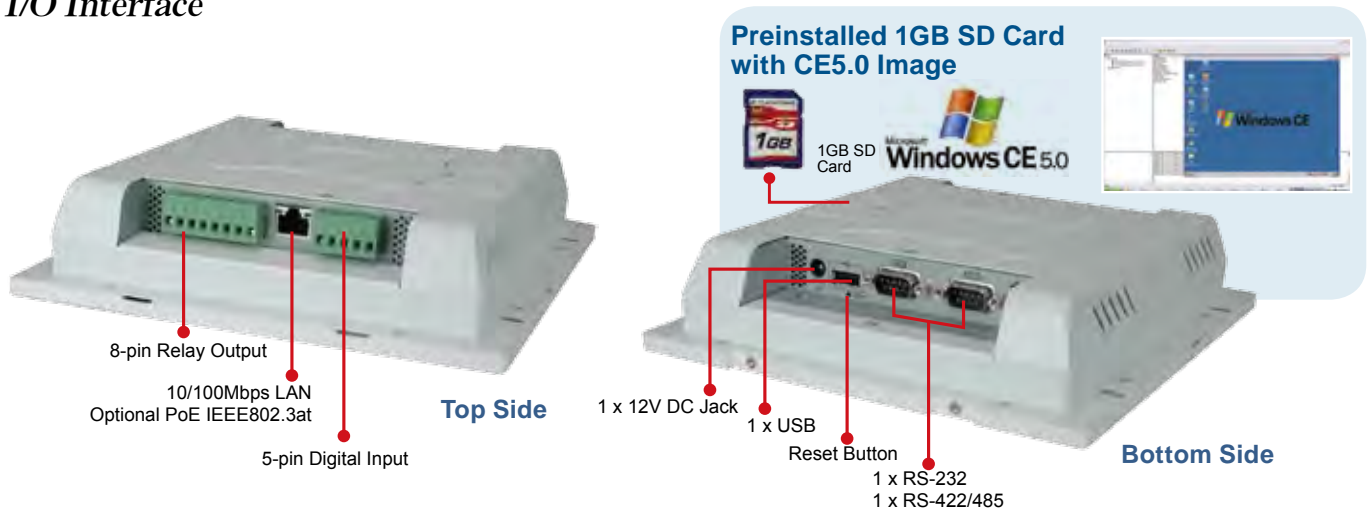


Alarm

Pressing the light button enables the on-screen lights. (Shown: the access door alarm is activated)



I/O Interface

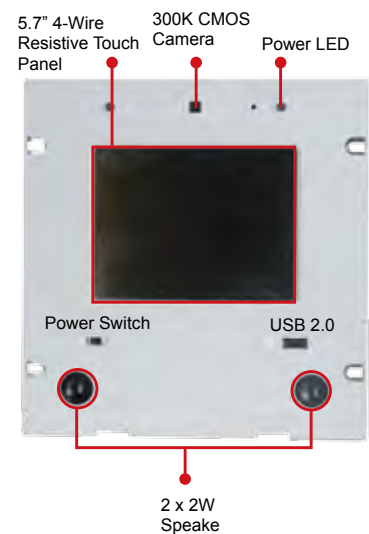
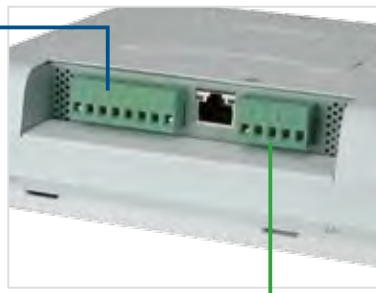


Digital Input/Relay Output Pin Definition

Relay Output

Pin	Assignment
1	+12V
2	Ground
3	Relay Output-1 (For Electronic Lock Common)
4	Relay Output-1 (For Electronic Lock Normal Close)
5	Relay Output-1 (For Electronic Lock Normal Open)
6	Relay Output-2 (For Alarm Normal Open)
7	Relay Output-2 (For Alarm Normal Close)
8	Relay Output-2 (For Alarm Common)

2 Relay Output

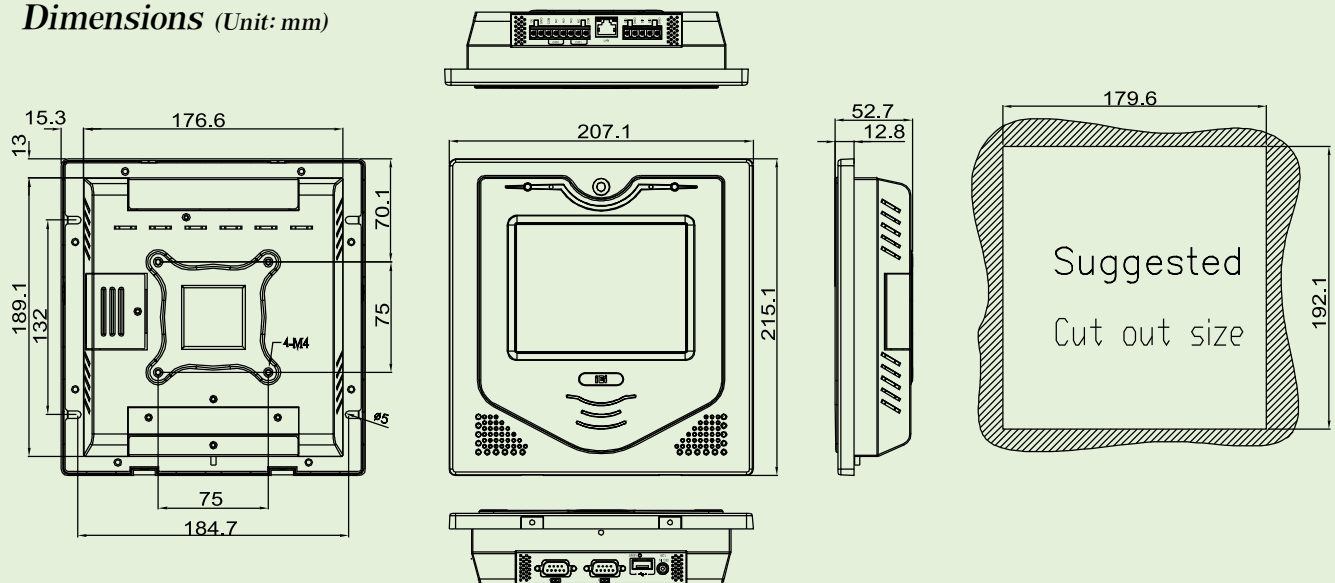


Digital Signal Input

Pin	Assignment
1	Digital Signal Input-1 (For Exit Button)
2	Ground
3	Digital Signal Input-2 (For Door Sensor)
4	Ground
5	Ground

ACT-457A

Dimensions (Unit: mm)



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IEI Mobile Solutions

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Automation Panel Solutions

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Optional Peripherals

Specifications

Model		ACT-457A-1250	
Display	LCD Size	5.7"	
	Max. Resolution	640 x 480	
	Brightness (cd/m ²)	400	
	Contrast Ratio	300 : 1	
	LCD Color	262K	
	Pixel Pitch (mm)	0.06(H) x 0.18(V)	
	Viewing Angle (H-V)	140°/100°	
	Backlight MTBF (hrs)	50000 (LED Backlight)	
Motherboard	CPU	Alchemy™ AU1250 500MHz	
	Bootloader Storage	2MB	
	RAM	256MB DDR2 SDRAM	
	OS/Program Storage	1GB SD card for WIN CE 5.0 OS and user's Program	
I/O Ports	1 x RS-232 COM port		
	1 x RS-422/485 COM port		
	1 x RJ-45 for 10/100Mbps Ethernet with PoE		
	2 x USB 2.0		
	1 x Power jack		
	1 x Reset button		
	1 x 5-pin terminal block for signal input		
	2 x Digital Input *		
	3 x GND		
	1 x 8-pin terminal block for relay output		
2 x Relay (one NC and one NO contacts for Alarm, one NC and one NO contacts for Lock)			
1 x 12V 1A max. output (for door control)			
1 x GND			
RFID Module	Working Frequency	EM 125KHz and MIFARE 13.56MHz	
	Reading Range	1~3 cm (Under 13.56MHz)/ 5 cm (Under 125KHz)	
Drive Bay	SSD	SD Card	
Other Features	Watchdog Timer	Software programmable supports 1~255 sec. System reset	
	Audio	AMP 2W + 2W	
	Extension	Webcam & Mic Function	
	LED Function	1 x Power ON/OFF LED on Front Panel	
Physical	Construction Material	ABS + PC Plastic front frame	
	Mounting	Panel, Wall, VESA 75mm x 75mm	
	Front Panel Color	Blue & White	
	Net Weight	0.7Kg	
	Dimensions (WxHxD) (mm)	215 x 207 x 52.7	
Environment	Operation Temperature (°C)	-10°C ~60°C	
	Storage Temperature (°C)	-20°C ~70°C	
	IP Level	IP64	
	EMC	CE, FCC	
Power over Ethernet	Optional IEEE 802.3at (via RJ45 10/100Mbps LAN)		
Touch Screen	Resistive Type 4-Wire		
Power Adapter	63000-FSP040DGAA1106-RS Power: 40W Input: 90VAC~264VAC, 50/60Hz Output: 12VDC		
Power Requirement	12V DC-IN		
Power Consumption	9W , Maximum 21W (include Max 12V@1A internal Power output)		

*Low level(0): 2V MAX., High level (1): +4~+50V

1

Relay Specifications

Contact Rating	12A 120VAC, 10A 240VAC, 10A 28VDC
Max. switching voltage	240VAC, 60VDC
Max. switching current	12A
Min. switching load	10mA 5VDC

2

Ordering Information

Model	Description
ACT-457A-1250/T-R/POE/R10 POE Power	5.7" 400cd/m ² VGA fanless panel PC with Alchemy™ AU1250 500MHz, touch screen, 3megapixel camera, MIFARE & EM RFID module, door control, IEEE802.3at PoE, 256MB DDR2, RoHS

3

Packing List

Item	P/N	Q'ty	Specifications
Self Drill Oval Head Screw	44233-030081-RS	4	M3*8 ;T24
Power Cord	32000-000002-RS	1	1830MM; European Power Cord
Power Adapter	63000-FSP040DGAA1106-RS (40W Power Adapter)	1	VAC: 90V~264V; 40W; 1500MM
Touch Pen	43125-0002C0-00-RS	1	
One Key Recovery CD		1	
Utility CD			

Utility CD includes:

- ACT-457A User Manual
- ACT-457A DEMO AP (w/ source code)
- ACT-457A SDK
 - IEI MIPS Windows® CE standard SDK
 - Record application development guide
 - Camera application development guide
 - DI/DO application development guide
 - RFID configuration guide
- IEI Utilities
 - ACT Remote Management Tool
 - ACT Web-based Configurator



*Preinstalled 1 GB SD card with CE5.0 image

Heavy Industrial Panel PC Series

IEI heavy industrial panel PC series are robust design which meet industrial requirements. Take innovation in mind, IEI offers latest high performance platform H61 and 37 series with N2600 to our product portfolio. To catch the wave of cloud computing and intelligent solutions, IEI products provide comprehensive network communications. With all these benefits, IEI is your solid solution for industrial computing.

- IP65 and above dust/ water protection aluminum housing
- Flexible PCI/ PCIe/ PCIe mini card expansion
- Seamless communication through LAN/ SFP/ WiFi
- Wide operating temperature



IP65 Dust/Water Protection



SFP Fiber LAN



Wide Voltage Input



Heavy Industrial Panel PC



Size	8.4"	10.4"	12.1"	15"	17"	19"
Intel® Atom™ N2600 New	PPC-3708A-N26	PPC-3710A-N26	PPC-3712A-N26	-	-	-
Intel® Atom™ D525	-	-	-	PPC-5152-D525	-	-
Intel® Atom™ N270	PPC-3708A-N270	PPC-3710A-N270	PPC-3712A-N270	-	-	-
Intel® 945GM	PPC-3708GS-945	PPC-3710GS-945	PPC-3712GS-945	-	-	-
Intel® H61 New	-	-	-	PPC-5150A(D)-H61 WIDS-515A(D)-H61	PPC-5170A(D)-H61 WIDS-517A(D)-H61	PPC-5190A(D)-H61
Intel® 945G	-	-	-	PPC-5150A/9455	PPC-5170A/9455	PPC-5190A/9455

Heavy Industrial Vertical Market Panel PC



Size	12.1"	15"
Intel® Atom™ N270	S12A(SR)	-
Intel® Atom™ D525	UPC-V312	-
Intel® GM45	UPC-12A(H)	-
Intel® QM77 New	-	UPC-V315
Intel® NM70	-	UPC-V315

- 1 IEI Mobile Solutions
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Latest High Performance Platform

Powerful Intel® QM77 Mobile Solution

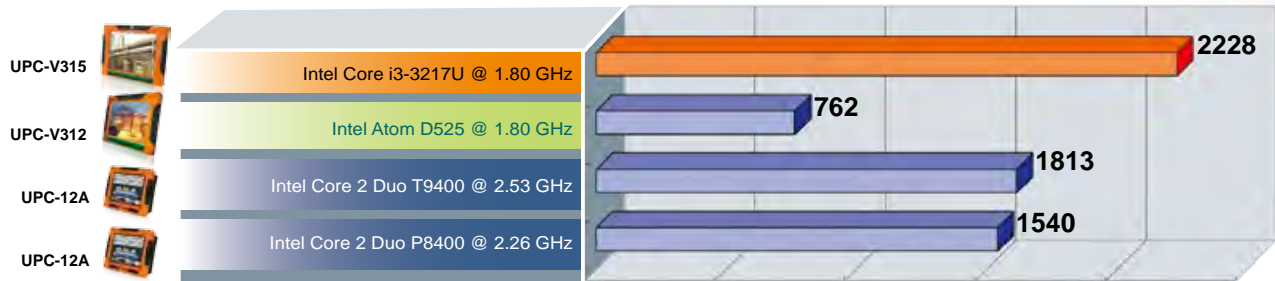
Latest Intel® QM77 mobile chipset is the most powerful solution than ever! Comparing to previous platform, the performance is higher with following new technologies:

- Better graphic engine
- Intel® Intelligent Power Technology
- Intel® vPro™ remote management
- iAMT 8.0 support



UPC-V315

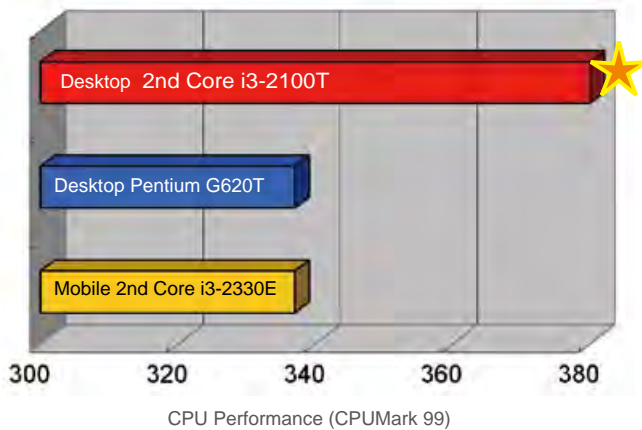
CPU Performance Passmark Comparison



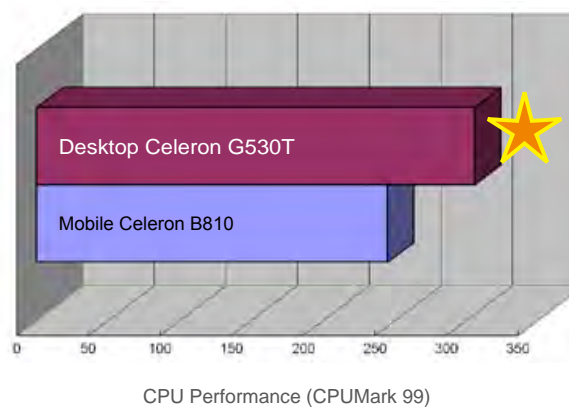
Better Performance and Cost-effective H61 High C/P Value H61 Solution

Desktop solution is no longer inferior to mobile solution! Intel H61 chipset with desktop CPU provides higher performance than mobile chipset and much cost-effective options.

Mobile 2nd Core i3 V.S. Desktop Pentium & 2nd Core i3



Mobile Celeron V.S. Desktop Celeron



CPU Type	Intel 2nd Core i3-2330E (Mobile 35W CPU)	Intel Pentium G620T (Desktop 35W CPU)	Intel 2nd Core i3-2100T (Desktop 35W CPU)
CPU Performance (CPUMark 99)	337	337	380

CPU Type	Intel Celeron B810 (Mobile 35W CPU)	Intel Celeron G530T (Desktop 35W CPU)
CPU Performance (CPUMark 99)	245	306

Strongest Atom Solution

The 3rd generation of Intel® Atom™ solution, N2600 is a new compact solution, outperforms to N270. Total TDP is lower than D525, which improves significantly a lot in thermal solution.

	Navy Pier N270	Pine Trail D525	Cedar Trail N2600
Process	45nm	45nm	32nm
Processor Frequency	N270: 1.6GHz	D525: 1.8GHz	N2600: 1.6GHz
CPU TDP	N270: 2.5W	D525: 13W	N2600: 3.5W ★
Chipset/ PCH TDP	945GSE: 5.5W ICH7M: 1.9W	ICH8M 2W	Intel NM10 1.5W ★



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmart Medical Solutions

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Optional Peripherals

Robust Product Design

IP Protection Improvement

PPC-H61 series support robust front panel for water protection and tightly front assembly against the component from any direction.

IP Code Table

The IP Code (International Protection Rating) consists of the letters IP followed by two digits.

Solids		Liquids	
First Numerical		Second Numerical	
No Protection	0	0	No Protection
Objects Greater than 50mm	1	1	Vertically Dripping Water
Objects Greater than 12mm	2	2	75o-90o Sprayed water
Objects Greater than 2.5mm	3	3	30o-90o Sprayed water
Objects Greater than 1.0mm	4	4	Water sprayed-low pressure
Dust-Protected	5	5	Water jets-low pressure
Dust-Tight	6	6	Water jets-high pressure
IP 66 Compliant!		7	Temporary immersion
		8	Indefinite Immersion



Wide Temperature Range (-20°C~60°C)

PPC-5150A-H61/ PPC-5170A-H61 and UPC-V315 supports wide operating temperature, surviving from any kind of harsh environment.



High Efficiency Transmission

SFP Fiber LAN

The small form-factor pluggable transceiver (SFP) is a compact, hot pluggable transceiver used for both telecommunication and data communications applications.

- Immunity to electromagnetic interference
- High electrical resistance
- No sparks
- Long transmit distance – up to 2KM (multi-mode)/ 120KM(single-mode)

Transmission distance

Type	Core diameter	Wavelength(nm)	Cost	Max Distance (km)
Single-Mode	8 to 10	1310 or 1550	More expensive	120 ★
Multi-Mode	50 or 62.5	850 or 1300	Medium	2
RJ45	N/A	N/A	cheaper	0.1

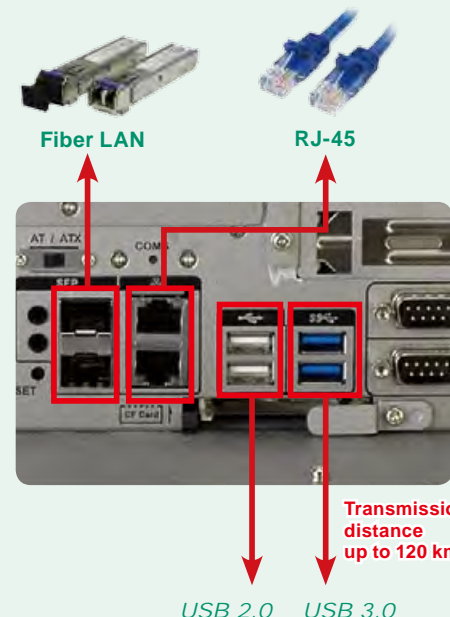
USB 3.0 – Faster Data Transmission

USB 3.0 has higher transmission speed and wider data bandwidth. Support faster transferring for the user.

USB version	USB1.0	USB2.0	USB3.0
Data Transfer Rate)	12Mbps	480Mbps	5Gbps ★
Media (Data Size)	Transfer Time		
Song / Pic (4 MB)	5.3 sec	0.1 sec	0.01 sec
HD-Movie (25GB)	9.3 hr	13.9 min	70 sec

Multiple choice

We provide two transmission for choose, either 2 x Fiber Lan or 2 x RJ45.



1

IEI Mobile Solutions

2

Automation Panel Solutions

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RISC-based Solutions

4

PACSmate Medical Solutions

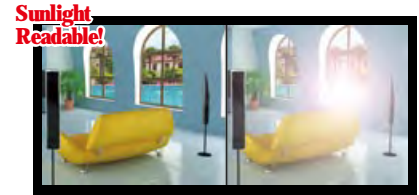
5

Optional Peripherals

High Brightness Panel With LED Backlight

LED backlight v.s. Traditional CCFL

- Can be more brighter in color display
- Lower power consumption
- Longer lifecycle



LED in large size product

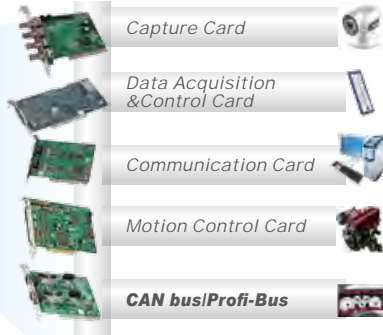
PPC-51XXA-H61 series support LED backlight, improving display capability in high quality.

Display	PPC-5150A-9455	PPC-5150A-H61	PPC-5170A-9455	PPC-5170A-H61	PPC-5170A-9455	PPC-5170A-H61
LCD size	15"	15"	17"	17"	19"	19"
Max Resolution	1024 (W) X 768 (H)	1024 (W) X 768 (H)	1280 (W) X 1024 (H)	1280 (W) X 1024 (H)	1280 (W) X 1024 (H)	1280 (W) X 1024 (H)
Brightness	350	400	300	350	300	350
Contrast Ratio	700:1	700 : 1	800:1	800 : 1	700:1	1000 : 1
LCD color	16.2M	16.2M	16.7M	16.7M	16.7M	16.7M
Pixel Pitch (mm)	0.297X 0.297	0.297 X 0.297	0.264X 0.264	0.264 X 0.264	0.294X 0.294	0.294 X 0.294
Viewing Angle(V-H)	125°/140°	140°/160°	160°/160°	170°/160°	160°/170°	160°/170°

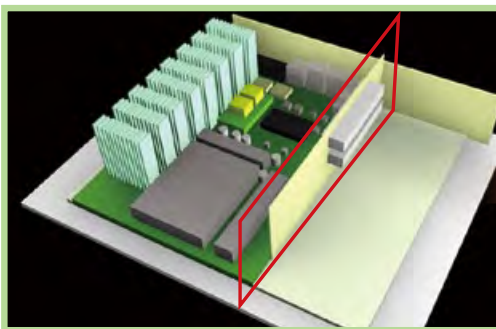
Flexible Expansion Options

A. PCI and PCIe x1 Signal Expansion Slot (For PPC-51xxA Series)

PCIe x1 and PCI Signal on Board



B. Two PCI/ One PCI+ One PCIe x1 Signal Modular Expansion Slot (For PPC-5152-D525)



1. One PCI and One PCIe x1 slot

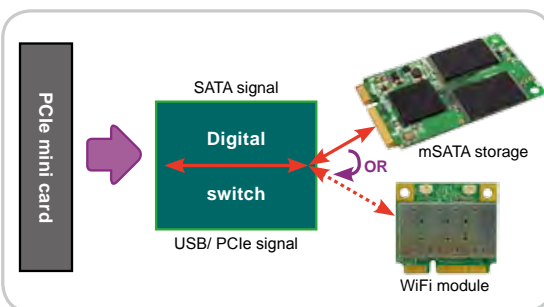


2. Two PCI slots

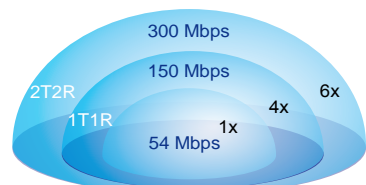


C. PCIe Mini Card (PPC-51xxA-H61/ PPC-37xxA Series)

PCIe mini interface provides either SATA signals such as mSATA storage or WIFI module for full-size or half-size devices.



IEEE 802.11 b/g/n 2T2R wireless module



Flexible expansion

This series provide 2T2R for transferring wider range and faster speed rate, which depends on how many antennas are for MIMO.

T: Transmitter
R: Receiver



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IEI Quick Mounting Technology

DIN Mount PPC

Din-Mount design is for the compact size LCD products. It allows the LCD product to be used in various environments.



Wall Mount PPC

IEI quick wall mount kit allows an IEI LCD to be removed from and mounted on the wall easily. It makes the LCD product a quick installation and easy maintenance solution.



Panel Mount PPC

IEI panel mount allows customers to mount IEI LCD products on the panel kit with IP 65 waterproof protection.



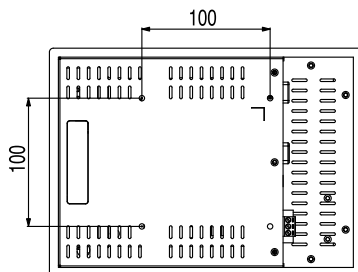
Rack Mount PPC

Rack-mountable equipment is mounted simply by bolting its front panel to the rack, or with a square-holed rack by clipping or some other variation on the theme.



VESA Mount PPC

The new IEI LCD family features an easy, quick, and solid mounting kit attached to the VESA mount adapter which is attached to the computer. IEI LCD products are ready to attach to any VESA compliant mounting solution that has a 100 mm x 100 mm attachment.



Optional Item List

LCD Size	6.5"	8.4"	10.4"	12.1"	15"	17"	19"
Panel Mount Kit	PK-65M	PK-84M	PK-104M		PK-170M		PK-190M
Wall Mount Kit	WK-065MS-R10				WK-190MS-R10		
Rack Mount Kit	RK-065MS-R10	RK-084MS-R10	RK-104MS-R10	RK-121MS-R10	RK-150MS-R10	RK-170MS-R10	RK-190MS-R10
Din Mount Kit	DK-84MS				N/A		
Stand	STAND-100-RS				STAND-210-R11		
Arm	ARM-11-RS		ARM-11-RS/ARM-31-RS		ARM-31-ARM-31-RS		

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PPC Series 8.4"~10.4" PPC Selection Guide



LCD Size		8.4"			10.4"		
Model		PPC-3708A-N26	PPC-3708A-N270	PPC-3708GS-945	PPC-3710A-N26	PPC-3710A-N270	PPC-3710GS-945
Display	LCD Size	8.4 "	8.4 "	8.4 "	10.4 "	10.4 "	10.4 "
	Max Resolution	800(W) x 600(H)	800(W) x 600(H)	800(W) x 600(H)	800(W) x 600(H)	800(W) x 600(H)	800(W) x 600(H)
	Brightness (cd/m ²)	450	450	450	400	400	400
	Contrast Ratio	600:1	600:1	600:1	700:1	700:1	700:1
	LCD Color	262K	262K	262K	262K	262K	262K
	Pixel Pitch (mm) (HxV)	0.213(H) x 0.213(V)	0.213(H) x 0.213(V)	0.213(H) x 0.213(V)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)
	Viewing Angle (V/H)	140°/ 160°	140°/ 160°	140°/ 160°	140°/ 160°	140°/ 160°	140°/ 160°
Touch	Backlight MTBF (hrs)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)
	Touch screen	Resistive Type 4-Wire with RS-232 interface	Resistive Type 4-Wire with RS-232 interface	Resistive Type 4-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface
Motherboard	Touch controller	EETI MBMER4040CPBG	EETI MBMER4040CPBG	EETI MBMER4040CPBG	EETI MBMER4050CMBG	EETI MBMER4050CMBG	EETI MBMER4050CMBG
	CPU	Intel® Atom™ N2600 dual-core processor 1.6GHz	Intel® Atom™ N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB	Intel® Atom™ N2600 dual-core processor 1.6GHz	Intel® Atom™ process N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB
	Chipset	Intel® NM10	Intel® 945GSE + ICH7M	Intel® 945GM + ICH7M	Intel® NM10	Intel® 945GSE + ICH7M	Intel® 945GM + ICH7M
	RAM	One 200-pin SO-DIMM socket, supporting DDRIII 800MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDRIII 800MHz modules for up to 2GB	1 x 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0
I/O Ports and Switches	Audio Codec	Realtek ALC662 HD audio codec	Realtek ALC655 AC'97 audio codec	Realtek ALC655 AC'97 audio codec	Realtek ALC662 HD audio codec	Realtek ALC655 AC'97 audio codec	Realtek ALC655 AC'97 audio codec
		2 x RS-232	2 x RS-232	2 x RS-232	2 x RS-232	2 x RS-232	2 x RS-232
		1 x RS-422/485	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)
		2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port
		2 x USB 3.0	2 x USB 2.0	2 x USB 2.0	2 x USB 3.0	2 x USB 2.0	2 x USB 2.0
		2 x USB 2.0	1 x VGA Port	1 x VGA Port	2 x USB 2.0	1 x VGA Port	1 x VGA Port
		1 x HDMI	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x HDMI	1 x Line-in, 1 x Line-out, 1 x Mic-in
		1 x VGA Port	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface	1 x VGA Port	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface
		1 x Line-in, Line-out, Mic-in	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack	1 x Line-in, Line-out, Mic-in	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack
1 x 12VDC input Power Jack		1 x Power Switch	1 x Power Switch	1 x 12VDC input Power Jack	1 x Power Switch	1 x Power Switch	
Drive Bay	HDD Driver Bay	1 x 2.5 SATA HDD Bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5 SATA HDD Bay	1 x 2.5" SATA HDD bay with anti-shock	
	SSD	1 x mSATA	CF Type II	CF Type II	1 x mSATA	CF Type II	
Expansion Slot		1 x PCIe mini card	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe mini card	1 x PCIe Mini card	
System Cooling		Fanless	Fanless	Active with Fan	Fanless	Fanless	
Environment	Operation Temperature	-20°C~60°C	-10°C~50°C	-10°C~50°C	-10°C ~ 50°C	-10°C~50°C	
	Storage Temperature	2.2Kg/ 4.4Kg	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

PPC Series 12.1" PPC Selection Guide



LCD Size		12.1"		
Model		PPC-3712A-N26	PPC-3712A-N270	PPC-3712GXS-945
Display	LCD Size	12.1 "	12.1 "	12.1 "
	Max Resolution	1024(W) x 768(H)	1024(W) x 768(H)	1024(W) x 768(H)
	Brightness (cd/m ²)	500	500	500
	Contrast Ratio	700:1	700:1	700:1
	LCD Color	262K	262K	262K
	Pixel Pitch (mm) (HxV)	0.3075(H) x 0.3075(V)	0.3075(H) x 0.3075(V)	0.3075(H) x 0.3075(V)
	Viewing Angle (V/H)	160°/ 160°	160°/ 160°	160°/ 160°
	Backlight MTBF (hrs)	50000 (LED backlight)	50000 (LED backlight)	50000 (LED backlight)
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface
	Touch controller	EETI MBMER4050CMBG	EETI MBMER4050CMBG	EETI MBMER4050CMBG
Motherboard	CPU	Intel® Atom™ N2600 dual-core processor 1.6GHz	Intel® Atom™ process N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB
	Chipset	Intel® NM10	Intel® 945GSE + ICH7M	Intel® 945GM + ICH7M
	RAM	One 200-pin SO-DIMM socket, supporting DDRIII 800MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0
	Audio Codec	Realtek ALC662 HD audio codec	Realtek ALC655 AC'97 audio codec	Realtek ALC655 AC'97 audio codec
I/O Ports and Switches		2 x RS-232	2 x RS-232	2 x RS-232
		1 x RS-422/485	1 x RS-232 (Alternative to RS-422/485)	1 x RS-232 (Alternative to RS-422/485)
		2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port
		2 x USB 3.0	2 x USB 2.0	2 x USB 2.0
		2 x USB 2.0	1 x VGA Port	1 x VGA Port
		1 x HDMI	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in
		1 x VGA Port	1 x PS/2 mouse and keyboard interface	1 x PS/2 mouse and keyboard interface
		1 x Line-in, Line-out, Mic-in	1 x 12VDC input Power Jack	1 x 12VDC input Power Jack
		1 x 12VDC input Power Jack	1 x Power Switch	1 x Power Switch
Drive Bay	HDD Driver Bay	1 x 2.5 SATA HDD Bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock
	SSD	1 x mSATA	CF Type II	CF Type II
	CD-ROM Driver Bay	Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay
Expansion Slot		1 x PCIe mini card	1 x PCIe Mini card	1 x PCIe Mini card
System Cooling		Fanless	Fanless	Active with Fan
Environment	Operation Temperature	-10°C ~ 50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C

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PPC Series 15" PPC Selection Guide



LCD Size		15"			
Model		PPC-5150A-H61	PPC-5150A/9455	PPC-5150A-G41	PPC-5152-D525
Display	LCD Size	15 "	15 "	15 "	15 "
	Max Resolution	1024(W) x 768(H)	1024(W) x 768(H)	1024(W) x 768(H)	1024(W) x 768(H)
	Brightness (cd/m ²)	400	350	350	400
	Contrast Ratio	700:1	700:1	700 : 1	500 : 1
	LCD Color	16.2M	16.2M	16.2M	16.2M
	Pixel Pitch (mm) (HxV)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.1095(H) x 0.1095(V)
	Viewing Angle (V/H)	125°/ 140°	125°/ 140°	125°/ 140°	160° / 140°
	Backlight MTBF (hrs)	50000	50000	50000	50000
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface
	Touch controller	DMC 9000	DMC 9000	DMC 9000	DMC 9000
Motherboard	CPU	2nd/3rd Generation Intel® Core™ Core™ i7/ i5/ i3, Pentium® and Celeron® processor	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/ Duo, Celeron with a 1333/1066/800MHz FSB support	Intel® Atom™ D525 1.8GHz dual core processor
	Chipset	Intel® H61	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7	Intel® ICH8M
	RAM	Two 204-pin DDR3 SO-DIMM slots (Max. 16G)	Two 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules (Max. 4G)	Two 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB	One 204-pin DDR3 SO-DIMM slot (Max. 4G)
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111CP GbE controller	RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0
	Audio Codec	Realtek ALC662 audio codec	Realtek ALC888 audio codec	Realtek ALC888 audio codec	Realtek ALC888 audio codec
I/O Ports and Switches		4 x RS-232 COM Port	4 x RS-232	4 x RS-232	2 x RS-232 (DB-9 connector)
		1 x RS-232/422/485 Port	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232 or RS-422/485 (DB-9 connector)
		2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RS-422/485 (RJ-45 connector)
		4 x USB 2.0, 2 x USB 3.0 on rear	4 x USB 2.0	4 x USB 2.0	2 x USB 2.0 connector
		1 x VGA Port	1 x VGA Port	1 x VGA Port	VGA port (DB-15 connector)
		1 x Audio (Line-out, MIC-in)	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	2 x Audio jacks (Line-out, MIC)
		2 x SFP Fiber LAN	2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface	AT/ATX switch
		1 x Power Switch	1 x Power Switch	1 x Power Switch	2 x USB 3.0 connector
		1 x AT / ATX Switch	AT / ATX Switch	AT / ATX Switch	2 x Combo (SFP / RJ-45) Gigabit LAN
		1 x PCI/PCIe Slot	1 x LPT	1 x LPT	4-channel video / audio capture (optional)
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	2.5" SATA HDD bay
	SSD	CF Type II, mSATA	CF Type II	CF Type II	CF Type II socket
	CD-ROM Driver Bay	Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	N/A
Expansion Slot		Either 1 x PCI slot or 1 x PCIe slot, 1 x PCIe Mini card	Either 1 x PCI or PCIe x1 expansion slot 1 x PCIe Mini card	Either 1 x PCI or PCIe x1 expansion slot 1 x PCIe Mini card	Two PCI slots or one PCI slot plus one PCIe x1 slot 1 x PCIe Mini card
System Cooling		Active with Fan	Active with Fan	Active with Fan	Fanless
Environment	Operation Temperature	-20°C ~ 60°C	-10°C~50°C	-10°C~50°C	-20°C ~ 50°C
	Storage Temperature	-30°C ~ 70°C	-20°C~60°C	-20°C~60°C	-20°C ~ 70°C

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

PPC Series 17" ~ 19" PPC Selection Guide



LCD Size		17"			19"		
Model		PPC-5170A-H61	PPC-5170A/9455	PPC-5170A-G41	PPC-5190A-H61	PPC-5190A/9455	PPC-5190A-G41
Display	LCD Size	17 "	17 "	17 "	19 "	19 "	19 "
	Max Resolution	1280(W) x 1024(H)	1280(W) x 1024(H)	1280(W) x 1024(H)	1280(W) x 1024(H)	1280(W) x 1024(H)	1280(W) x 1024(H)
	Brightness (cd/m ²)	350	300	380	350	300	450
	Contrast Ratio	800 : 1	800 : 1	1000 : 1	1000 : 1	700 : 1	1000 : 1
	LCD Color	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)	0.294(H) x 0.294(V)
	Viewing Angle (V/H)	160°/ 160°	160°/ 160°	160°/170°	160°/ 170°	160°/ 170°	160°/ 170°
	Backlight MTBF (hrs)	50000	50000	50000	50000	50000	50000
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface
	Touch controller	DMC 9000	DMC 9000	DMC 9000	DMC 9000	DMC 9000	DMC 9000
Motherboard	CPU	2nd/3rd Generation Intel® Core™ Core™ i7/ i5/ i3, Pentium® and Celeron® processor	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/ Duo, Celeron with a 1333/1066/800MHz FSB support	2nd/3rd Generation Intel® Core™ Core™ i7/ i5/ i3, Pentium® and Celeron® processor	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/ Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® H61	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7	Intel® H61	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	Two 204-pin DDR3 SO-DIMM slots (Max. 16G)	Two 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules (Max. 4G)	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB	Two 204-pin DDR3 SO-DIMM slots (Max. 16G)	Two 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules (Max. 4G)	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111CP GbE controller	Realtek RTL8111CP GbE controller	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111CP GbE controller	Realtek RTL8111CP GbE controller
	Audio Codec	Realtek ALC662 audio codec	Realtek ALC888 audio codec	Realtek ALC888 audio codec	Realtek ALC662 audio codec	Realtek ALC888 audio codec	Realtek ALC888 audio codec
I/O Ports and Switches		1 x RS-232/422/485	4 x RS-232	4 x RS-232	4 x RS-232	4 x RS-232	4 x RS-232
		2 x RJ-45 for LAN Port	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port	1 x RS-232/422/485 Port
		4 x USB 2.0, 2 x USB 3.0 on rear	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port
		1 x VGA Port	4 x USB 2.0	4 x USB 2.0	6 x USB 2.0, 2 x USB 3.0 on rear	6 x USB 2.0	6 x USB 2.0
		1 x Audio (Line-out, MIC-in)	1 x VGA Port	1 x VGA Port	1 x VGA Port	1 x VGA Port	1 x VGA Port
		2 x SFP Fiber LAN	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Audio (Line-out, MIC-in)	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in
		1 x Power Switch	2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface	2 x SFP Fiber LAN	2 x PS/2 mouse and keyboard interface	2 x PS/2 mouse and keyboard interface
		1 x AT / ATX Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch	1 x Power Switch
		1 x PCI/PCIe Slot	AT / ATX Switch	AT / ATX Switch	1 x AT / ATX Switch	AT / ATX Switch	AT / ATX Switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock
	SSD	CF Type II, mSATA	CF Type II	CF Type II	CF Type II, mSATA	CF Type II	CF Type II
	CD-ROM Driver Bay	Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay
Expansion Slot		Either 1 x PCI slot or 1 x PCIe slot	Either 1 x PCI or PCIe x 1 expansion slot	Either 1 x PCI or PCIe x 1 expansion slot (optional)	Either 1 x PCI slot or 1 x PCIe slot	Either 1 x PCI or PCIe x 1 expansion slot (optional)	Either 1 x PCI or PCIe x 1 expansion slot (optional)
		1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card
System Cooling		Active with Fan	Active with Fan	Active with Fan	Active with Fan	Active with Fan	Active with Fan
Environment	Operation Temperature	-20°C ~ 60°C	-10°C~50°C	-10°C~50°C	-10°C ~ 50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-30°C ~ 70°C	-20°C~60°C	-20°C~60°C	-20°C ~ 60°C	-20°C~60°C	-20°C~60°C

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

8.4" Industrial Panel PC

PPC-3708A-N26

Intel® Atom™ N2600 Dual-Core Processor **Fanless** **New**

PPC-3708A-N270

Intel® Atom™ N270 Processor **Fanless**

PPC-3708GS-945

Intel® Core™2 Duo Processor with Intel® 945GME Platform



Specifications

Features

1. 8.4" 450 nits high brightness TFT LCD with LED backlight
2. Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
3. One internal 2.5" SATA HDD and CF slot
4. Robust aluminum front bezel and metal casing
5. IP 65 compliant front panel
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity suggested)



1
IEI Mobile Solutions

2
Automation Panel Solutions

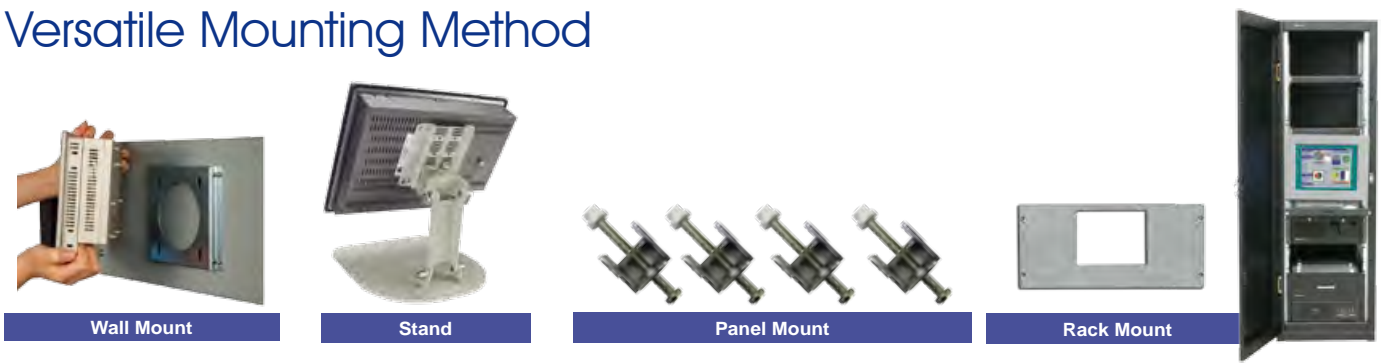
3
RISC-based Solutions

4
PACSmart Medical Solutions

5
Optional Peripherals

Model		PPC-3708A-N26	PPC-3708A-N270	PPC-3708GS-945
Display	LCD Size	8.4 "		
	Max Resolution	800(W) x 600(H)		
	Brightness (cd/m ²)	450		
	Contrast Ratio	600:1		
	LCD Color	262K		
	Pixel Pitch (mm) (HxV)	0.213(H) x 0.213(V)		
	Viewing Angle (V/H)	140°/160°		
	Backlight MTBF (hrs)	50000 (LED Backlight)		
Touch	Touch screen	Resistive Type 4-Wire with RS-232 interface		
	Touch controller	EETI MBMER4040CPBG		
Motherboard	SBC	NANO-CV-N26001	NANO-945GSE-N270	NANO-9452
	CPU	Intel® Atom™ N2600 dual-core processor 1.6GHz	Intel® Atom™ process N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB
	Chipset	Intel® NM10	Intel® 945GSE + ICH7M	Intel® 945GME + ICH7M
	RAM	One 200-pin SO-DIMM socket, supporting DDRIII 800MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0
	Audio Codec	Realtek ALC662 HD audio codec	Realtek ALC655 AC'97 audio codec	Realtek ALC655 AC'97 audio codec
IO Ports and Switches		2 x RS-232 1 x RS-422/485 2 x RJ-45 for LAN Port 2 x USB 3.0 2 x USB 2.0 1 x HDMI 1 x VGA Port 1 x Line-in, Line-out, Mic-in 1 x 12VDC input Power Jack 1 x Power Switch	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch
			1 x 2.5" SATA HDD Bay	
Drive Bay	HDD Driver Bay	1 x mSATA		
	SSD	1 x PCIe Mini card		
Expansion Slot		1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card
Connectivity	Wireless	IEEE 802.11b/g/n 2T2R module (WIFI-RT5392-SB-R10) Optional		
Physical	Construction Front Panel	Aluminum Die-casting		
	Chassis Construction	Heavy-duty Steel (SECC)		
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm		
	Front Panel Color	Silver (Pantone 8001C)		
	Dimensions (WxHxD) (mm)	244 x 175 x 86.5	244 x 178 x 80.2	244 x 178 x 80.2
	Cut Out Dimensions (WxH) (mm)	233 x 167	233 x 167	233 x 167
	Net /Gross Weight	2.2Kg/ 4.4Kg	2.2 Kg / 4.4 Kg	2.2 Kg / 4.4 Kg
System Cooling		Fanless	Fanless	Active with Fan
Environment	Operation Temperature	-10°C ~ 50°C	-10°C~50°C	-10°C~50°C
	Storage Temperature		-20°C~60°C	
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak		
	Shock	10G acceleration part to part (11ms)		
Power Supply	Power Adapter	P/N: 63040-010060-050-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP060DBAB1554-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP084DMBA1308-RS 84W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC

Versatile Mounting Method



Ordering Information

Part No.	Description	
Intel® Atom™ N2600 PPC-3708A-N26/R/2G-R10	8.4" 450 cd/m ² SVGA Panel PC with Intel® Atom™ N2600 1.6GHz processor, 2GB DDR3 RAM, and touch screen, 9~28VDC input, RoHS	
Intel® Atom™ N270 PPC-3708A-N270/R/1G-R21	8.4" 450 cd/m ² SVGA Panel PC with Intel® Atom™ N270 1.6GHz/ 512KB L2 cache processor, 1GB DDR2 RAM, touch screen, 12VDC input. R30, RoHS	
Intel® 945GME	PPC-3708GS-945-C4/R/1G-R30	8.4" 450 cd/m ² SVGA TFT Panel PC with NANO-9452, C-M 1.86GHz, Silver color, T/S, 1GB DDR2 RAM, R30, RoHS
	PPC-3708GS-945-T5/R/1G-R30	8.4" 450 cd/m ² SVGA TFT Panel PC with NANO-9452, Intel® Core™ Duo 1.66GHz T5500, Silver color, T/S, 1GB DDR2 RAM, R30, RoHS

Packing List

Item	Part No.	Description
Fan Module	19FRDL5010B5-000001-RS	+5V, 50*50*10MM, FOR PPC-2708GS-LX800 (Please install the fan under -10°C~50°C with HDD operating environment)
Screw Kit	19600-000205-RS	
Power Cord	63040-010060-040-RS	EUROPEAN Standard , 1830MM, PLUG(16A 250V), CONNECTOR (10A 250V)
Power Adapter	63040-010060-050-RS	84W, 90VAC~264VAC for PPC-3708GS-945
	63000-FSP060DBAB1554-RS	60W, 90VAC~264VAC , DIN 4 PIN for PPC-3708A-N270
PS/2 Cable	32006-000300-100-RS	1 x MINI DIN 6PIN MALE; 2 x MINI DIN 6PIN FEMALE
Panel Mounting Kit	19Z00-000026-RS	
Wall Mounting Kit	41014-057602-00-RS	ULTRA SET PLATE
	41020-016102-00-RS	WALL MOUNT BRACKET
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Screen Driver CD / Touch Pen		
User Manual & Driver CD		

IQ Mounting Options

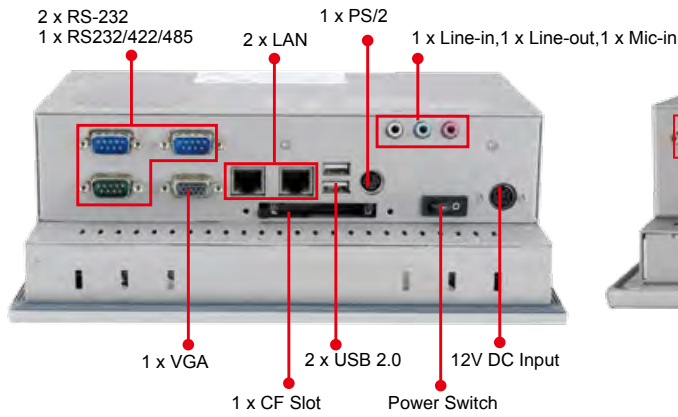
Item	Part No.
Rack Mount Kit	RK-084MS-R10
ARM	ARM-11-RS
STAND	STAND-100-RS

Options

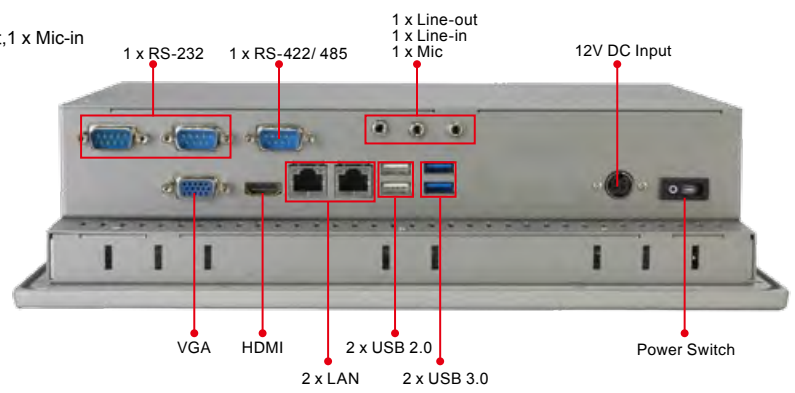
Item	Part No.	Description
RS-422/485 Cable	32200-075202-RS	(A) D-SUB 9PIN MALE (B) DU PONT 2*7P P=2.0 FEMALE
HDD IDE Cable	32221-000200-100-RS	100MM, IDE 44-pin
Wi-Fi module	PPC-WL-KIT02-R10	Wi-Fi module with RF cable and antenna, 2T2R, 802.11 b/g/n for PPC-37xxA-N26 series

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

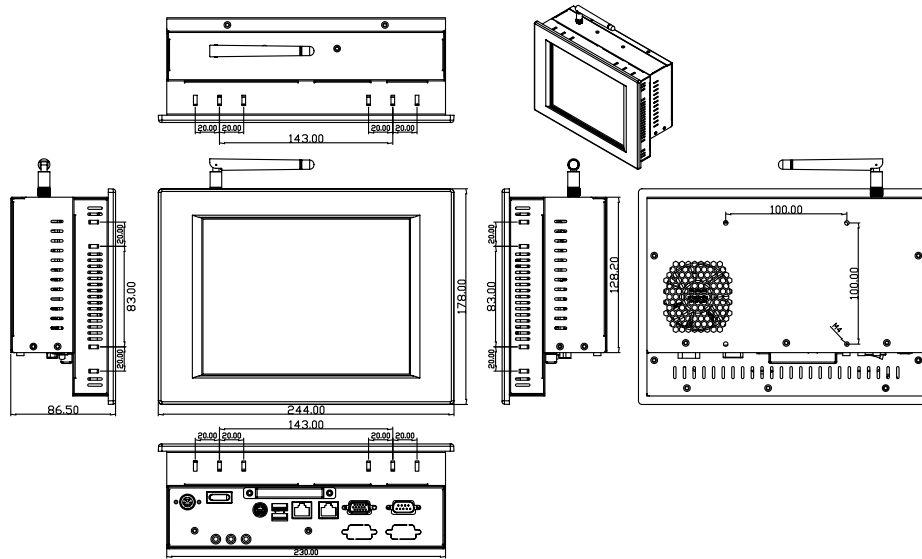
PPC-3708A / PPC-3708GS
Fully Integrated I/O



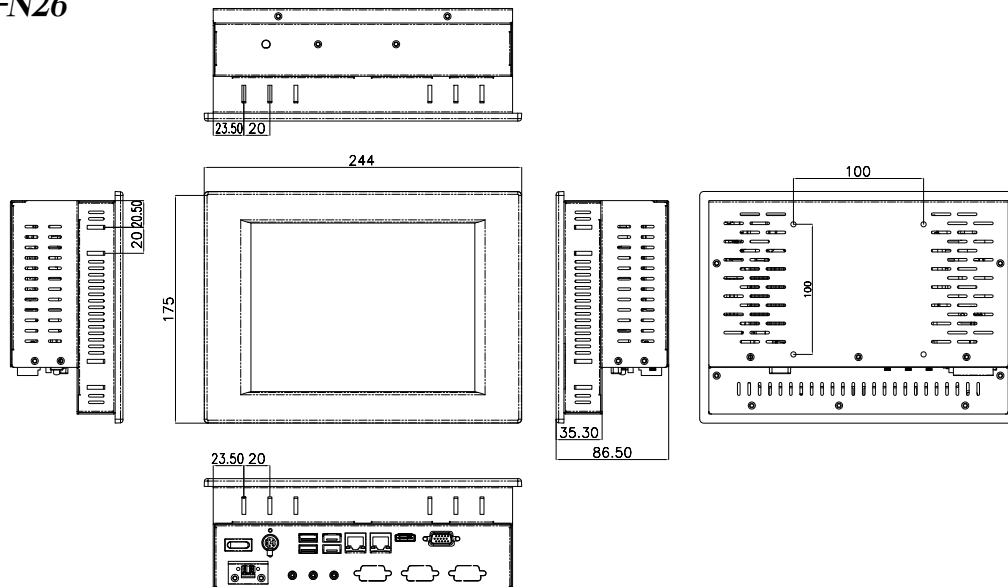
PPC-3708A-N26
Fully Integrated I/O



PPC-3708A / PPC-3708GS
Dimensions
(Unit: mm)



PPC-3708A-N26
Dimensions
(Unit: mm)



1

IEI Mobile Solutions

2

Automation Panel Solutions

3

RISC-based Solutions

4

PACSmate Medical Solutions

5

Optional Peripherals

10.4" Industrial Panel PC

PPC-3710A-N26

Intel® Atom™ N2600 Dual-Core Processor **Fanless New**

PPC-3710A-N270

Intel® Atom™ N270 Processor **Fanless**

PPC-3710GS-945

Intel® Core™2 Duo Processor with Intel® 945GM Platform



Features

- 10.4" 400 nits high brightness TFT LCD with LED backlight
- Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
- One internal 2.5" SATA HDD and CF slot
- Robust aluminum front bezel and metal casing compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



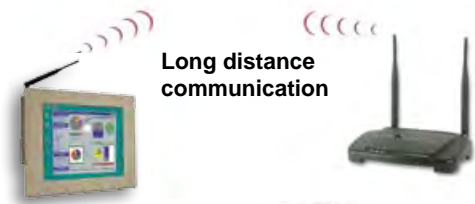
Specifications

Model		PPC-3710A-N26	PPC-3710A-N270	PPC-3710GS-945	
Display	LCD Size	10.4 "			
	Max Resolution	800(W) x 600(H)			
	Brightness (cd/m ²)	400			
	Contrast Ratio	700:1			
	LCD Color	262K			
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)			
	Viewing Angle (V/H)	140°/160°			
	Backlight MTBF (hrs)	50000 (LED Backlight)			
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface			
	Touch controller	EETI MBMER4050CMBG			
Motherboard	SBC	NANO-CV-N26001	NANO-945GSE-N270	NANO-9452	
	CPU	Intel® Atom™ N2600 dual-core processor 1.6GHz	Intel® Atom™ N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB	
	Chipset	Intel® NM10	Intel® 945GSE + ICH7M	Intel® 945GME + ICH7M	
	RAM	One 200-pin SO-DIMM socket, supporting DDRIII 800MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB	
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0			
	Audio Codec	Realtek ALC662 HD audio codec	Realtek ALC655 AC'97 audio codec	Realtek ALC655 AC'97 audio codec	
I/O Ports and Switches	2 x RS-232 1 x RS-422/485 2 x RJ-45 for LAN Port 2 x USB 3.0 2 x USB 2.0 1 x HDMI 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch				
	Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD Bay		
		SSD	1 x mSATA	CF Type II	
	Expansion Slot	1 x PCIe Mini card		1 x PCIe Mini card	1 x PCIe Mini card
		Construction Front Panel			
	Physical	Aluminum Die-casting			
		Chassis Construction			
Heavy-duty Steel (SECC)					
Mounting					
Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm					
Front Panel Color					
Silver (Pantone 8001C)					
System Cooling	Dimensions (WxHxD) (mm)		311 x 242 x 77.8	311.5 x 242 x 77.8	
	Cut Out Dimensions (WxH) (mm)		291 x 221	291 x 221	
	Net /Gross Weight		3.4Kg / 5.8Kg	3.4 Kg / 5.8 Kg	
	System Cooling		Fanless	Fanless	
	Active with Fan		Active with Fan		
Environment	Operation Temperature		-10°C~50°C		
	Storage Temperature		-20°C~60°C		
	Vibration		5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak		
	Shock		10G acceleration part to part (11ms)		
Power Supply	Power Adapter		P/N: 63040-010060-050-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP084DMBA1308-RS 84W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

802.11 b/g/n Wireless LAN Module

The PPC 37 series is equipped with a high speed wireless module that enables larger data transmission in real time. The Wireless LAN facilitates applications that require data transmission over large distances, such as in a large warehouse.



Long distance communication

Fanless System

The PPC-3710A are designed with a low power consumption platform featuring an Intel® ATOM™ N270 and N2600 platform. The fanless system generates less heat while maintaining above-average performance. A fanless design eliminates the possibility of fan failure and extends the operation life of the device.



Ordering Information

Part No.	Description
Intel® Atom™ N2600 PPC-3710A-N26/R/2G-R10	10.4" 400 cd/m ² SVGA Panel PC with Intel® Atom™ N2600 1.6GHz processor, 2GB DDR3 RAM, and touch screen, 9~28VDC input, RoHS
Intel® Atom™ N270 PPC-3710A-N270/R/1G-R21	10.4" 400 cd/m ² SVGA TFT Fanless Panel PC, Intel® Atom™ N270 1.6GHz/ 512KB, 1GB DDR2, Res T/S, Silver Color, R30, RoHS
Intel® 945GME PPC-3710GS-945-C4/R/1G-R30 PPC-3710GS-945-T5/R/1G-R30	10.4" 400 cd/m ² SVGA TFT Panel PC with NANO-9452, C-M 1.86GHz, Silver color, T/S, 1GB DDR2 RAM, R30, RoHS
	10.4" 400 cd/m ² SVGA TFT Panel PC with NANO-9452, Intel® Core™ Duo 1.66GHz T5500, Silver color, T/S, 1GB DDR2 RAM, R30, RoHS

Packing List

Item	Part No.	Description
Screw Kit	19600-000205-RS	
Power Cord	32702-000200-100-RS	EUROPEAN Standard , 1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Power Adapter	63040-010060-050-RS	60W, 90VAC~264VAC for PPC-3710A-N270, PPC-3710-N26
	63000-FSP084DMBA1308-RS	84W, 90VAC~264VAC for PPC-3710GS-945 Socket Type
PS/2 Cable	32006-000300-100-RS	1 x MINI DIN 6PIN MALE; 2 x MINI DIN 6PIN FEMALE
Panel Mounting Kit	19Z00-000026-RS	
Wall Mounting Kit	41014-057602-00-RS	ULTRA SET PLATE
	41020-016102-00-RS	WALL MOUNT BRACKET
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Screen Driver CD / Touch Pen		
User Manual & Driver CD		

1
IEI Mobile Solutions

2
Automation Panel Solutions

3
RISC-based Solutions

4
PACSmate Medical Solutions

5
Optional Peripherals

IQ Mounting Options

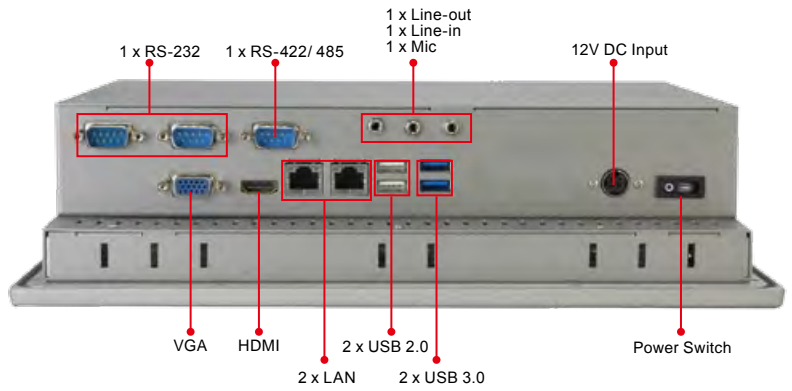
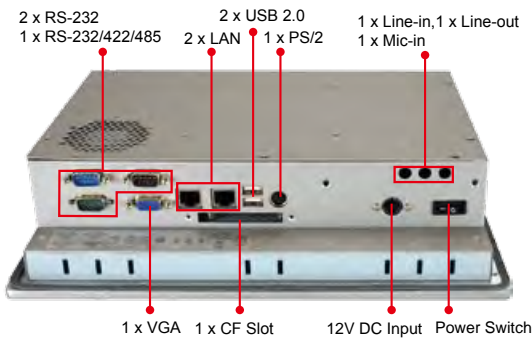
Item	Part No.
Rack Mount Kit	RK-104MS-R10
ARM	ARM-11-RS
STAND	STAND-100-RS

Options

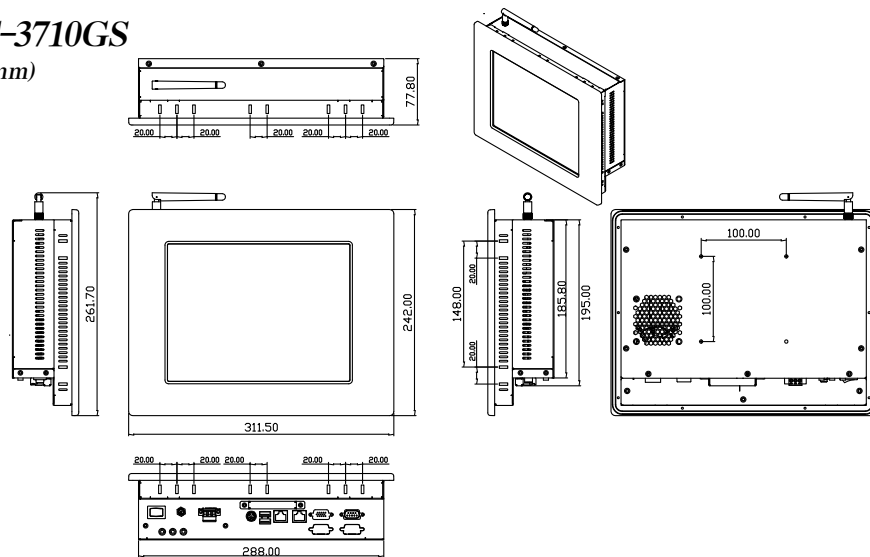
Item	Part No.	Description
RS-422/485 Cable	32200-075202-RS	(A) D-SUB 9PIN MALE (B) DU PONT 2*7P P=2.0 FEMALE
Wi-Fi module	PPC-WL-KIT02-R10	Wi-Fi module with RF cable and antenna, 2T2R, 802.11 b/g/n for PPC-37xxA-N26 series

PPC-3710A / PPC-3710GS
Fully Integrated I/O

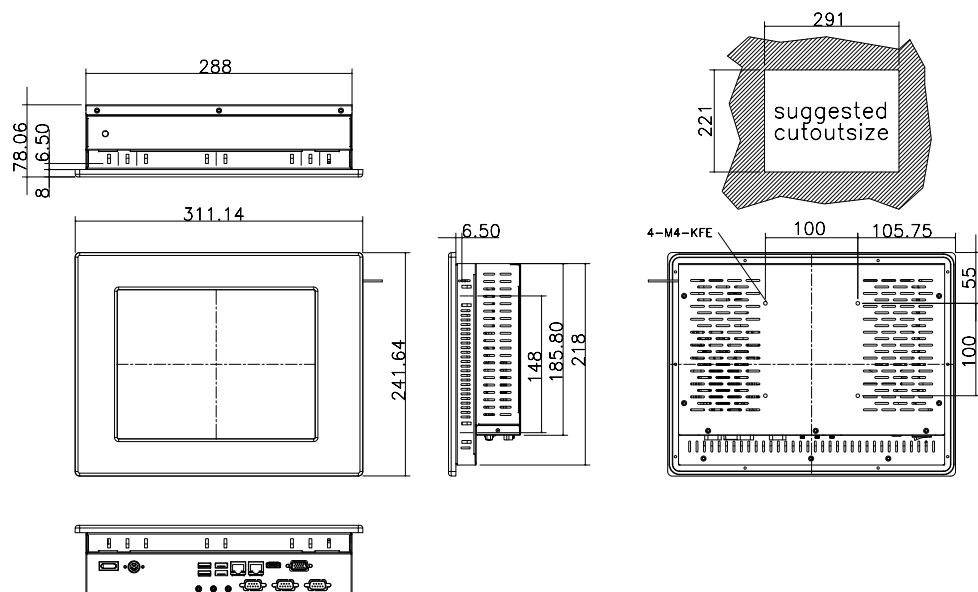
PPC-3708A-N26
Fully Integrated I/O



PPC-3710A / PPC-3710GS
Dimensions (Unit: mm)



PPC-3710A-N26
Dimensions (Unit: mm)



1

IEI Mobile Solutions

2

Automation Panel Solutions

3

RISC-based Solutions

4

PACsmate Medical Solutions

5

Optional Peripherals

12.1" Industrial Panel PC

PPC-3712A-N26

Intel® Atom™ N2600 Dual-Core Processor **Fanless** **New**

PPC-3712A-N270

Intel® Atom™ N270 Processor **Fanless**

PPC-3712GXS-945

Intel® Core™2 Duo Processor with Intel® 945GM Platform



Specifications

Features

1. 12.1" 500 nits high brightness TFT LCD with LED backlight
2. Dual Gigabit Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
3. Optional 802.11 b/g/n wireless kit
4. One slim type CD-ROM drive bay
5. One internal 2.5" SATA HDD and CF slot
6. Robust aluminum front bezel and metal casing
7. IP 65 compliant front panel



Model		PPC-3712A-N26	PPC-3712A-N270	PPC-3712GXS-945	
Display	LCD Size	12.1"			
	Max Resolution	1024(W) x 768(H)			
	Brightness (cd/m ²)	500			
	Contrast Ratio	700:1			
	LCD Color	262K			
	Pixel Pitch (mm) (HxV)	0.3075(H) x 0.3075(V)			
	Viewing Angle (V/H)	160°/160°			
	Backlight MTBF (hrs)	50000 (LED Backlight)			
Touch	Resistive Type 5-Wire with RS-232 interface				
	Touch controller	EETI MBMER4050CMBG			
Motherboard	SBC	NANO-CV-N26001	NANO-945GSE-N270	NANO-9452	
	CPU	Intel® Atom™ N2600 dual-core processor 1.6GHz	Intel® Atom™ N270 1.6GHz CPU	Socket M Intel® Core™2 Duo, Core Duo, Core Solo with 667MHz FSB Intel® Celeron® M 533MHz FSB	
	Chipset	Intel® NM10	Intel® 945GSE + ICH7M	Intel® 945GME + ICH7M	
	RAM	One 200-pin SO-DIMM socket, supporting DDRIII 800MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 533MHz modules for up to 2GB	One 200-pin SO-DIMM socket, supporting DDR2 400/533/667MHz modules for up to 2GB	
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0			
	Audio codec	Realtek ALC662 HD audio codec	Realtek ALC655 AC'97 audio codec	Realtek ALC655 AC'97 audio codec	
I/O Ports and Switches		2 x RS-232 1 x RS-422/485 2 x RJ-45 for LAN Port 2 x USB 3.0 2 x USB 2.0 1 x HDMI 1 x VGA Port 1 x Line-in, Line-out, Mic-in 1 x 12VDC input Power Jack 1 x Power Switch	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch	2 x RS-232 1 x RS-232 (Alternative to RS-422/485) 2 x RJ-45 for LAN Port 2 x USB 2.0 1 x VGA Port 1 x Line-in, 1 x Line-out, 1 x Mic-in 1 x PS/2 mouse and keyboard interface 1 x 12VDC input Power Jack 1 x Power Switch	
	Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD Bay		
		SSD	1 x mSATA	CF Type II	
	Expansion Slot	CD-ROM Driver Bay	Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay	SATA Slim Type CD-ROM Bay
			1 x PCIe mini card	1 x PCIe Mini card	1 x PCIe Mini card
	Physical	Construction Front Panel	Aluminum Die-casting		
		Chassis Construction	Heavy-duty Steel (SECC)		
Mounting		Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm			
Front Panel Color		Silver (Pantone 8001C)			
Dimensions (WxHxD) (mm)		340 x 260 x 74.8	340 x 277 x 73.4	340 x 277 x 73.4	
Cut Out Dimensions (WxH) (mm)		313 x 233	313 x 233	313 x 233	
Net/Gross Weight	6 Kg / 8 Kg	6 Kg / 8 Kg	6 Kg / 8 Kg		
System Cooling	Fanless	Fanless	Active with Fan		
Environment	Operation Temperature	-10°C~50°C			
	Storage Temperature	-20°C~60°C			
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak			
	Shock	10G acceleration part to part (11ms)			
Touch Screen	Resistive Type 5-Wire with RS-232 interface				
Power Supply	Power Adapter	P/N:63040-010060-050-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63040-010060-050-RS 60W Power Adapter Input: 90VAC~264VAC, 50/60Hz Output: 12VDC	P/N: 63000-FSP084DMBA1308-RS 84W Power Adapter Input: 90VAC~264VAC,50/60Hz Output: 12VDC	

1

IEI Mobile Solutions

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Automation Panel Solutions

3

RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

Ordering Information

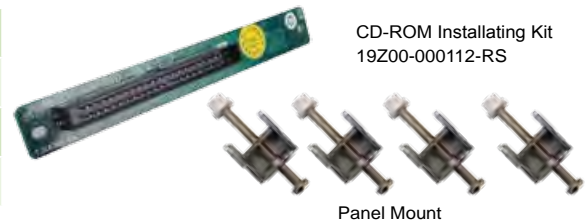
Part No.		Description
Intel® Atom™ N2600	PPC-3712A-N26/R/2G-R10	12.1" 500 cd/m ² XGA Panel PC with Intel® Atom™ N2600 1.6GHz processor, 2GB DDR3 RAM, and touch screen, 9~28VDC input, RoHS
Intel® Atom™ N270	PPC-3712A-N270/R/1G-R21	12.1" 500 cd/m ² XGA fanless panel PC, Intel® Atom™ N270 1.6GHz/ 512KB, 1GB DDR2, Res T/S, Silver Color, R30, RoHS
Intel® 945GME	PPC-3712GXS-945-C4/R/1G-R30	12.1" 500 cd/m ² XGA TFT panel PC with NANO-9452, C-M 1.86GHz, Silver color, T/S, 1GB DDR2 RAM, R30, RoHS
	PPC-3712GXS-945-T5/R/1G-R30	12.1" 500 cd/m ² XGA TFT panel PC with NANO-9452, Intel® Core Duo 1.66GHz T5500, Silver color, T/S, 1GB DDR2 RAM, R30, RoHS

Packing List

Item	Part No.	Description
Screw Kit	19600-000207-RS	
SATA CD-ROM Cable	32801-006300-100-RS	SATA 7+6P FEMALE 180°; SATA 7P FEMALE 90°+LOCK; DU PONT 2*4P P=2.54 FEMALE
Power Cord	32702-000200-100-RS	EUROPEAN Standard, 1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Power Adapter	63000-FSP060DBAB1554-RS	60W, 90VAC~264VAC for PPC-3712A
	63000-FSP084DMBA1308-RS	84W, 90VAC~264VAC for PPC-3712G
PS/2 Cable	32006-000300-100-RS	1 x MINI DIN 6PIN MALE; 2 x MINI DIN 6PIN FEMALE
Panel Mounting Kit	19Z00-000024-RS	
Wall Mounting Kit	41014-057602-00-RS	ULTRA SET PLATE
	41020-016102-00-RS	WALL MOUNT BRACKET
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Screen Driver CD / Touch Pen		
User Manual & Driver CD		

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-121MS-R10
ARM	ARM-11-RS
STAND	STAND-100-RS



Options

Item	Part No.	Description
RS-422/485 Cable	32200-075202-RS	(A) D-SUB 9PIN MALE (B) DU PONT 2*7P P=2.0 FEMALE
IDE CD-ROM Installing Kit	19Z00-000112-RS	50-pin CD ROM connector to 44-pin IDE connector transfer board
HDD IDE Cable	32200-000037-RS	250MM, IDE 44-pin
Wi-Fi module	PPC-WL-KIT02-R10	Wi-Fi module with RF cable and antenna, 2T2R, 802.11 b/g/n for PPC-37xxA-N26 series

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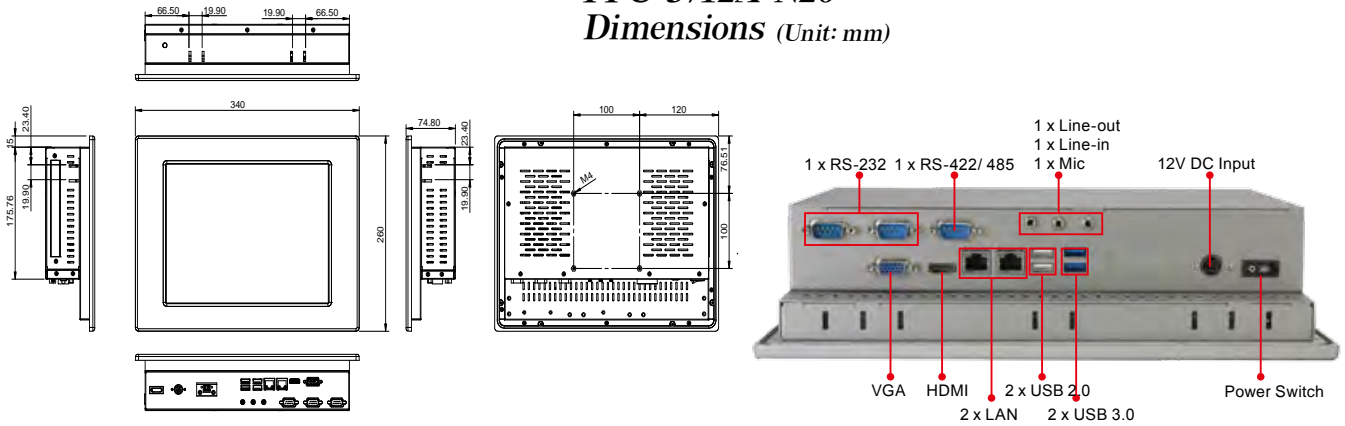
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PACSmate Medical Solutions

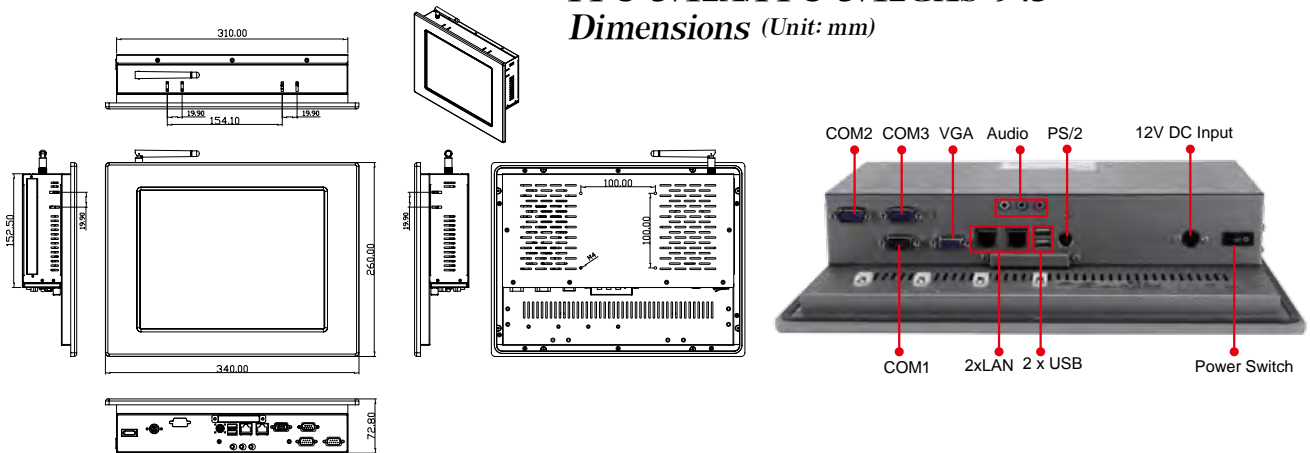
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Optional Peripherals

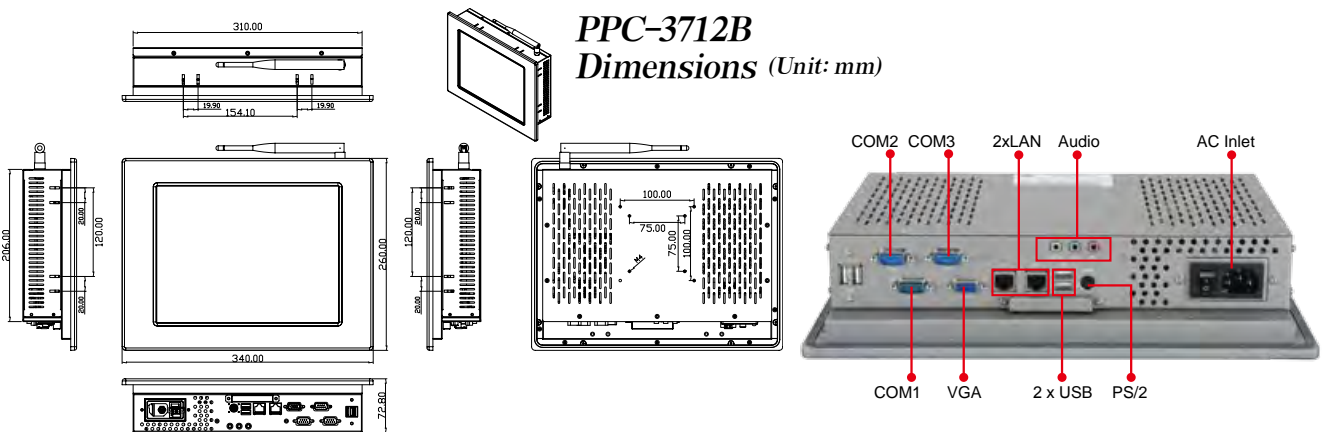
PPC-3712A-N26
Dimensions (Unit: mm)



PPC-3712A/PPC-3712GXS-945
Dimensions (Unit: mm)



PPC-3712B
Dimensions (Unit: mm)



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Optional Peripherals

PPC-5152-D525

15" Flat-bezel Industrial Panel PC

**Combo Gigabit LAN
(SFP Fiber/RJ-45)**

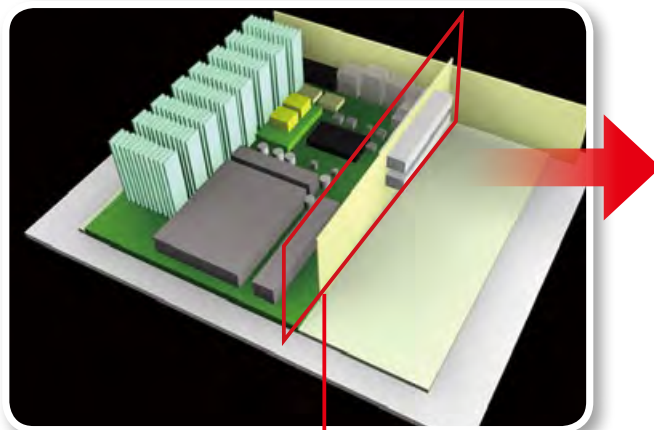
Features:

- Robust aluminum with IP 64 compliant front bezel design
- 5-wire resistive touch
- Intel® Atom™ D525 1.8GHz dual-core with fan-less design
- 15" 400 nits LED backlight panel with 1024 x 768 resolution
- Two USB 3.0, two USB 2.0 and five COM ports available
- Flexible expansion interface (two PCI slots or one PCI slot + one PCIe slot)
- Optional 4-channel video/audio capture card and Wi-Fi (802.11 b/g/n) available
- Built-in 1.3M pixels webcam with autofocus and auto enhancement and auto white balance
- Dual combo (10/100/1000 baseT(X) or 1000 baseSFP slot) gigabit LAN ports



Flexible Expansion Interface

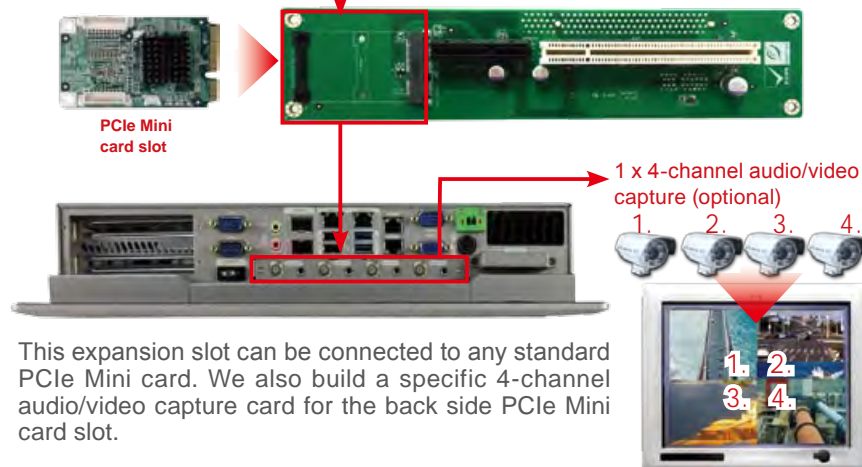
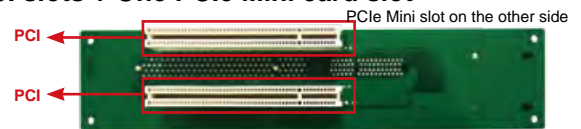
Compared to the PPC-5150, the PS2 power supply unit has been removed in order to maximize expansion ability for customers who need rich I/O connect feasibility for their using scenarios. By out a PS2, this system is able to provide three more extended connections for customers.



1. One PCI and One PCIe x1 + One PCIe Mini card slot.

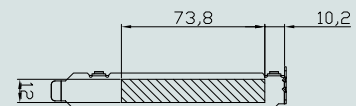


2. Two PCI slots + One PCIe Mini card slot



This expansion slot can be connected to any standard PCIe Mini card. We also build a specific 4-channel audio/video capture card for the back side PCIe Mini card slot.

- The two types of backplanes support standard PCI/PCIe cards with maximum dimensions (WxHxD): 200mm x 100mm x 20 mm
- System default power is 90W, the max. total power of the backplane to support expansion cards is 35W, so the power consumption of selected expansion cards can't exceed 35W, otherwise, the system may be unstable. The length of IO on PCI/PCIe cards should not longer than 73.8mm



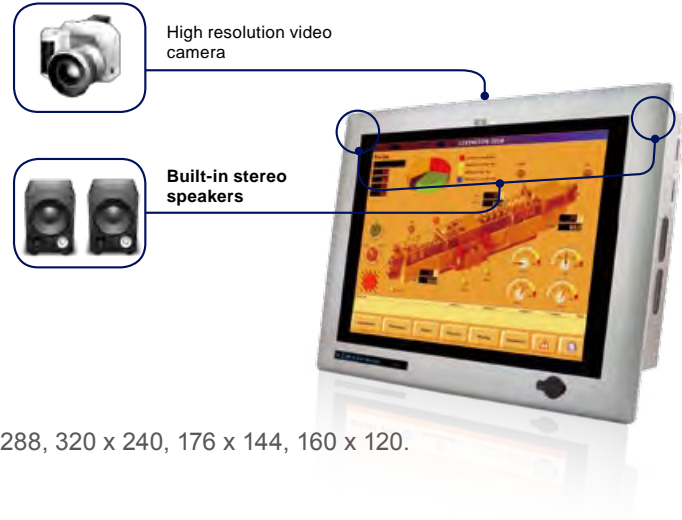
Voltage	Current
+5V	5A
+12V	2.4A
-12V	0.1A
+3.3V	8A
Max. power supported by the backplane: < 35W	

- 1 IEI Mobile Solutions
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Rich I/O Interface with User-Friendly Design

A. 1.3M Webcam and 3W Speakers

- SXGA resolution image sensor
- Frame rate: 1280x1024@ 7.5fps max. 640x480@ 24~30fps
- Auto white balance
- Auto exposure
- Auto compensation
- Focus range from 25 cm to infinity
- Flip control option
- High speed USB 2.0 interface
- Storage format of image: AVI
- Storage format of photograph: BMP, JPEG
- Video resolution: 1280 x 1024, 800 x 600, 640 x 480, 352 x 288, 320 x 240, 176 x 144, 160 x 120.



B. Super Speed USB 3.0

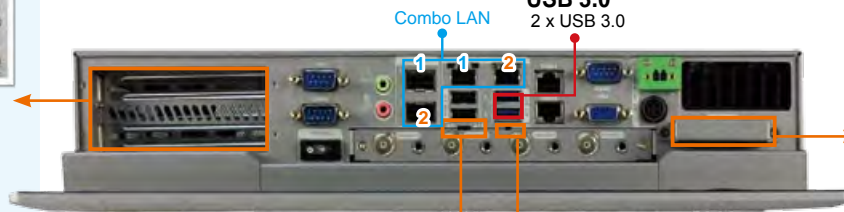
The SuperSpeed USB 3.0 technology supports data transfer rates up to 10 times faster than USB 2.0 with the optimized power efficiency.



USB 3.0
2 x USB 3.0



C. Expansion area



F. User-accessible CF

The PPC has a CF slot on the I/O side that makes it easy to install and replace the CF card.

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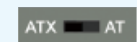
RISC-based Solutions

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Optional Peripherals



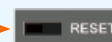
D. Selectable AT/ATX mode switch

AT power mode allows multiple panel PCs automatically start when the central power unit is connected. Applications:

- ATM
- Factory automation platform
- Self-service Kiosk

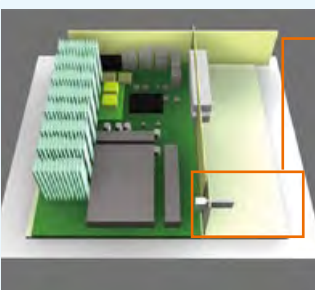
ATX power mode allows the panel PCs to be turned on/off remotely via network. Applications:

- Security surveillance
- Advertising terminal



E. Reset button

The reset button forces the system to be reset when the system hangs up.



G. Reserved internal USB

The PPC has a internal USB port reserved for an encryption card for software developers to provide intelligent software protection. The purpose of using software protection is to prevent intellectual properties from being illicitly used.



H. Front-accessible waterproof USB

The PPC provides a convenient front-accessible USB port protected with a waterproof cover for easy data update.

I. Dual Combo (SFP/RJ-45) Gigabit LAN

The PPC-5152 provides dual combo (SFP / RJ-45) gigabit LAN. For each pair of combo LAN, only one LAN port works at a time, and the SFP Fiber port works prior to the RJ-45 port. When a LAN port is working, the corresponding LED indicator lights up.



Flat-Bezel Touch Screen with IP 64 Protection

- Consumer outlook
- Industrial protection
- Flat design is easy to clean



Indicators

Power Switch

1. Press and hold 3 sec to power on
2. Press and hold 6 sec to power off



CPU Temperature Alert LED

The LED turns red to alert users that the CPU temperature is too high. Users at this time can lower the environment temperature or close some running programs to cool down the CPU.

Auto Dimming

Auto dimming provides more comfortable viewing, less power consumption and extends lamp life.

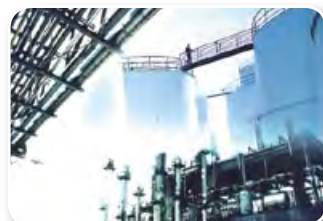


IR Remote Controller

Easy-to-use remote control for adjusting screen brightness and volume.



Applications



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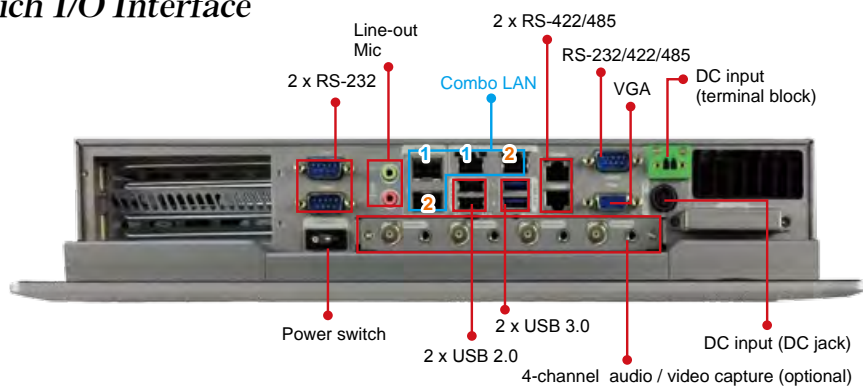
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Optional Peripherals

Rich I/O Interface



Specifications

Model Name		PPC-5152-D525-R10
Display	LCD Size	15 "
	Max Resolution	1024(W) x 768(H)
	Brightness (cd/m ²)	400
	Contrast Ratio	500:1
	LCD Color	16.2M
	Pixel Pitch (mm) (HxV)	0.1095(H) x 0.1095(V)
	Viewing Angle (V/H)	160° / 140°
	Backlight MTBF (hrs)	50000
	Touch screen	Resistive Type 5-Wire with RS-232 interface
	Touch controller	DMC 9000
Motherboard	SBC	PPCMB-5152A-D525
	CPU	Intel® Atom™ D525 1.8GHz dual core processor
	Chipset	Intel® ICH8M
	RAM	One 204-pin DDR3 SO-DIMM slot (Max.4GB)
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0
	Audio Codec	Realtek ALC888 audio codec
I/O ports and switches		2 x RS-232 (DB-9 connector)
		1 x RS-232 or RS-422/485 (DB-9 connector)
		2 x RS-422/485 (RJ-45 connector)
		2 x USB 2.0 connector
		VGA port (DB-15 connector)
		2 x Audio jacks (line-out, Mic)
		2 x USB 3.0 connector
		AT/ATX switch
		2 x Combo (SFP / RJ-45) Gigabit LAN
		4-channel video / audio capture (optional)
Drive Bay	HDD Drive Bay	2.5" SATA HDD bay
	SSD	CF Type II socket
	CD-ROM Drive Bay	N/A
Physical	Construction Front Panel	Aluminum
	Chassis Construction	Heavy duty steel (SECC)
	Mounting	Panel, Wall, Rack, Stand and Arm (VESA 100 mm x 100 mm)
	Front Panel Color	Silver, Paint Tone PMS 8401C
	Dimensions (WxHxD) (mm)	422 x 331 x 80
	Cut Out Dimensions (WxH) (mm)	390 x 290
	Net / Gross Weight	6.5 kg/ 8.8 kg
Expansion Slot	Two PCI slots or one PCI slot plus one PCIe x1 slot	
System Cooling	Burglar-proof internal USB 2.0 port	
Environment	Operating Temperature	Fanless
	Storage Temperature	-20°C ~ 50°C
	Vibration	-20°C ~ 70°C
	Shock	MIL-STD-810F 514.5C-2 (with CF card or SSD)
	IP level	Half-sine wave shock 3G; 11ms; 3 shocks per axis
	Safety & EMC	Front Panel IP 64
Power	Power Adapter	CE / FCC
		90W power adapter
	Power Requirement	Input: 100VAC~240VAC, 50/60Hz
		Output: 19V DC
	Consumption	9~36V DC Jack 9~36V Terminal Block 50W without add-on card

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Optional Peripherals

Ordering Information

	Part No.	Description
Converter card (HPE-2S1)	PPC-5152-D525/R/1G/2P-R11	15" 400 cd/m ² XGA Fanless Panel PC with two PCI expansion slots, Intel® Atom™ D525 1.8GHz CPU, 1GB DDR3 RAM, 2M camera, microphone, touch screen, R11
Converter card (HPE-2S2)	PPC-5152-D525/R/1G/1P1E-R11	15" 400 cd/m ² XGA Fanless Panel PC with one PCI and one PCIe x1 expansion slot, Intel® Atom™ D525 1.8GHz CPU, 1GB DDR3 RAM, 2M camera, microphone, touch screen, R11

Options

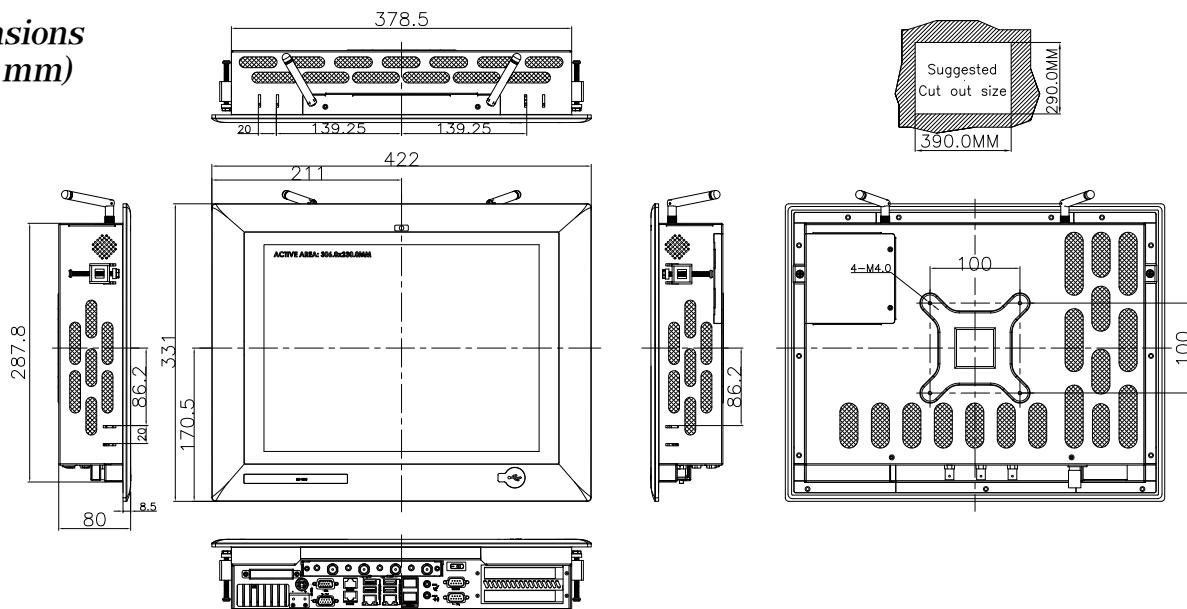
Item	P/N	Description
Panel Mounting Kit	PK-170M	
Wall Mounting Kit	WK-190MS-R10	
Rack Mounting Kit	RK-150MS2-R10	
ARM	ARM-11-RS/ARM-31-RS	
Stand	STAND-A19/STAND-B19/STAND-210-R11	
Wi-Fi Module Kit	PPC-WL-KIT01-R10	Wi-Fi module with RF cable and antennas, 2T2R, 802.11 b/g/n.
Capture Card Kit	PPC-CP-KIT01-R10	4-channel video/audio capture card with input panel and cable, PCIe Mini interface, NTSC/PAL
Gigabit Ethernet SFP Module	SFP1G-SX/-I	1Gbps SFP optical transceiver, multi-mode / 550m, 850nm (0 ~ 70°C) / industrial grade (-20 ~ 85°C)
	SFP1G-MLX/-I	1Gbps SFP optical transceiver, multi-mode / 2Km, 1310nm (0 ~ 70°C) / industrial grade (-40 ~ 85°C)
	SFP1G-LX10/-I	1Gbps SFP optical transceiver, single-mode / 10Km, 1310nm (0 ~ 70°C) / industrial grade (-40 ~ 85°C)
	SFP1G-XD70/-I	1Gbps SFP optical transceiver, single-mode / 50Km, 1550nm (0°C ~ 70°C) / industrial grade (-40°C ~ 85°C)
Fiber Cord	FPC-LCLC-MM3M	Optical connector LC/LC, multi-mode, diameter 62.5/125 μm, length 3m.
	FPC-LCLC-SS3M	Optical connector LC/LC, single-mode, diameter 9/125 μm, length 3m.
OS: Win CE 6.0 (128MB CF Card)	PPCCF-5152-D525-CE060-128M-R10	
OS: Win XPE (2GB CF Card)	PPCCF-5152-D525-XPE-2G-R10	
OS: Win XPE (4GB CF Card)	PPCCF-5152-D525-XPE-4G-R10	
OS: Linux (2GB CF Card)	PPCCF-5152-D525-LNX-2G-R10*	
OS: Win 7 Embedded (4GB CF Card)	PPCCF-5152-D525-WES7E-4G-R10	

(*it doesn't include video/audio capture card's driver)

Packing List

Item	P/N	Q'ty	Description
Utility CD	7B000-000732-RS	1	Drivers and user manual
One Key Recovery CD		1	
VESA Mounting Screw	44033-040062-RS	4	M4*6 for securing stand bracket
Chassis Screw	44013-030041-RS	4	M3*4 chassis screw for backup
Capture Card Screw	44003-030062-RS	4	M3*5 capture card screw for backup
VESA Fastener	19Z00-000024-RS	6	
HDD Screw	44043-030051-RS	4	
Pluggable DC-in Terminal Block	33101-000897-RS	1	
RJ-45 to DB9 COM port Cable	32005-000700-100-RS	2	
Touch pen	43125-0002C0-00-RS	1	
IR Remote Controller	7Z000-SLPCB005-RS	1	
Power Adapter	63040-010090-020-RS	1	FSP090-D2BA1;90~264VAC input;90W;19VDC output
Power Cord	32702-000401-100-RS	1	1500 mm, European Standard
Power Transfer Cord	32702-000300-100-RS	1	

Dimensions (Unit: mm)



15" Industrial Panel PC

PPC-5150A-H61

Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® Processor



PPC-5150A/9455

Intel® Core™ 2 Duo Processor with Intel® 945G Platform

PPC-5150A-G41

Intel® Core™ 2 Extreme Processor with Intel® G41 Platform



- Intel® H61 Express Chipset with 2nd/3rd generation Intel® Core™, Pentium® and Celeron® processor
- High brightness TFT-LCD panel with LED backlight
- Multiple storage options: 2.5" SATA HDD, CF slot, and mSATA
- Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
- Optional PCIe Mini 802.11b/g/n wireless module
- Optional PCI / PCIe by 1 expansion slot
- Optional Slim type CD-ROM drive bay
- Robust aluminum front bezel and metal casing
- IP 66 compliant front panel for PPC-5150A-H61
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



Specifications

Model	PPC-5150A-H61	PPC-5150A/9455	PPC-5150A-G41	
Display	LCD Size	15"		
	Max Resolution	1024(W) x 768(H)		
	Brightness (cd/m ²)	400	350	350
	Contrast Ratio	700 : 1		
	LCD Color	16.2M		
	Pixel Pitch (mm) (HxV)	0.297(H) x 0.297(V)		
	Viewing Angle (V/H)	140°/160°	125°/ 140°	125°/ 140°
	Backlight MTBF (hrs)	50000		
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface		
	Touch controller	DMC 9000	DMC 9000	DMC 9000
Motherboard	SBC	POS-H61	POS-9455	POS-G41
	CPU	2nd/3rd Generation Intel® Core™ Core™ i7/ i5/ i3, Pentium® and Celeron® processor	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® H61	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	Two 204-pin DDR3 SO-DIMM slots (Max. 16G)	Two 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules (Max. 4G)	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111CP GbE controller	Realtek RTL8111CP GbE controller
	Audio Codec	Realtek ALC662 audio codec	Realtek ALC888 audio codec	Realtek ALC888 audio codec
I/O Ports and Switches	4 x RS-232 COM Port	1 x Audio (Line-out, MIC-in)	4 x RS-232	2 x PS/2 mouse and keyboard interface
	1 x RS-232/422/485 Port	2 x SFP Fiber LAN	1 x RS-232/422/485	1 x RS-232/422/485
	2 x RJ-45 for LAN Port	1 x Power Switch	2 x RJ-45 for LAN Port	2 x RJ-45 for LAN Port
	4 x USB 2.0, 2 x USB 3.0 on rear	1 x AT / ATX Switch	4 x USB 2.0	4 x USB 2.0
	1 x VGA Port	1 x PCI/PCIe Slot	1 x VGA Port	1 x Power Switch
Drive Bay	HDD Driver Bay	1 x 2.5" SATA/IDE HDD bay with anti-shock		
	SSD	CF Type II, mSATA (optional)	CF Type II	CF Type II
	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay		
	Expansion Slot	Either 1 x PCI slot or 1 x PCIe slot, 1 x PCIe Mini card	Either 1 x PCI or PCIe x1 expansion slot (PCI riser card built-in, optional PCIe x1 riser card) 1 x PCIe Mini card	Either 1 x PCI or PCIe x1 expansion slot (PCI riser card built-in, optional PCIe x1 riser card) 1 x PCIe Mini card
Physical	Construction Front Panel	Aluminum	Aluminum die-casting	Aluminum die-casting
	Chassis Construction	Heavy-duty Steel	Heavy-duty steel (SECC)	Heavy-duty steel
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm		Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm
	Front Panel Color	Silver (Pantone 8001C)		
	Dimensions (WxHxD) (mm)	410 x 309 x 110.5		
	Cut Out Dimensions (WxH) (mm)	387 x 286		
Environment	Net Gross Weight	7 Kg / 11 Kg		
	Operation Temperature	-20°C ~ 60°C	-10°C~50°C	-10°C~50°C
	Storage Temperature	-30°C ~ 70°C	-20°C~60°C	-20°C~60°C
	System Cooling	Active with Fan		
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak		
	Shock	10G acceleration part to part (11ms)		
Power Supply	IP Rating	Front IP66 Compliant	Front IP65 Compliant	Front IP65 Compliant
	AC Input	AC Input ATX power supply - P/N: 63000-ACEA622A166-RS - 220W power supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3V@14A, 5V@16A, 12V@10A, -12V@0.8A	P/N: 63000-ACEA618APPC-RS -180W Power Supply - Input: 90VAC~264VAC,50/60Hz - Output(max.): 3.3A@14A, 5V@16A,12V@14A, 12V@0.5A	P/N: ACE-A622A-RS-R11 - 220W power supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A
	DC Input	DC Input ATX power supply - P/N: ACE-4520C-RS - 200W power supply - Input: 24 VDC(18~36 VDC) - Output(max.): 3.3V@12A, 5V@12A, 12V@15.4A, -12V@0.5A	P/N: ACE-4520C-RS,200W power supply - Input: 24 VDC(18~36 VDC) - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A	P/N: ACE-4520C-RS,200W power supply - Input: 24 VDC(18~36 VDC) - Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A

1 IEI Mobile Solutions

2 Automation Panel Solutions

3 RISC-based Solutions

4 PACSmart Medical Solutions

5 Optional Peripherals

Ordering Information

Part No.	Description	
Intel® H61 Platform	PPC-5150A-H61-P/R-R10	15" 400 cd/m ² XGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5150AD-H61-P/R-R10	15" 400 cd/m ² XGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
	PPC-5150A-H61-i3/R-R10	15" 400 cd/m ² XGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5150AD-H61-i3/R-R10	15" 400 cd/m ² XGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
	PPC-5150A-H61-i5/R-R10	15" 400 cd/m ² XGA Panel PC with POS-H61, Core i5 Dual Core 2xxxTCPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5150AD-H61-i5/R-R10	15" 400 cd/m ² XGA Panel PC with POS-H61, Core i5 Dual Core 2xxxTCPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
Intel® 945G Platform	PPC-5150A-R11/9455-E2160/A618A/T-R/1GB	15" 350 cd/m ² XGA Panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-A618AP, touch screen, RoHS
	PPC-5150A-R11/9455-E2160/4520C/T-R/1GB	15" 350 cd/m ² XGA Panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-4520C, touch screen, RoHS
Intel® G41 Platform	PPC-5150A-G41-E15/R/1G-R10	15" 350 cd/m ² XGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen
	PPC-5150A-G41-Q94/R/1G-R10	15" 350cd/m ² XGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
	PPC-5150AD-G41-E15/R/1G-R10	15" 350 cd/m ² XGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
Riser Card	PCIR-01H-R10	1-Slot PCI riser card
	PCIER-101H-R10	1-Slot PCIe x 1 riser card

Packing List

Item	Part No.	Description
SATA CD-ROM Cable	32803-000300-100-RS	SLIMLINE SATA 7+6 P TO SATA 7P /4P POWER, L=200/150mm.
Power Cord	32000-000002-RS	EUROPEAN Standard, 1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Panel Mount Kit	19Z00-000024-RS	
Wall Mount Kit	41020-016102-00-RS	
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Pen		
User's Manual CD-ROM		

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-150MS-R10 (for PPC-5150A series)
ARM	ARM-31-RS
STAND	STAND-210-R11

Options

Part Number	Description
19Z00-000112-RS	IDE CD-ROM Installation Kit (W/O IDE cable)
41019-0393C0-00-RS	IDE HDD Bracket
32200-000037-RS	25cm HDD IDE Cable
PPC-WL-KIT02-R10	Wi-Fi module with RF cable and antenna, 2T2R, 802.11 b/g/n for PPC-5150A-H61, PPC-5170A-H61
73400-AD7760H01-RS	Slim type SATA DVD-ROM

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IEI Mobile Solutions

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Automation Panel Solutions

3

RISC-based Solutions

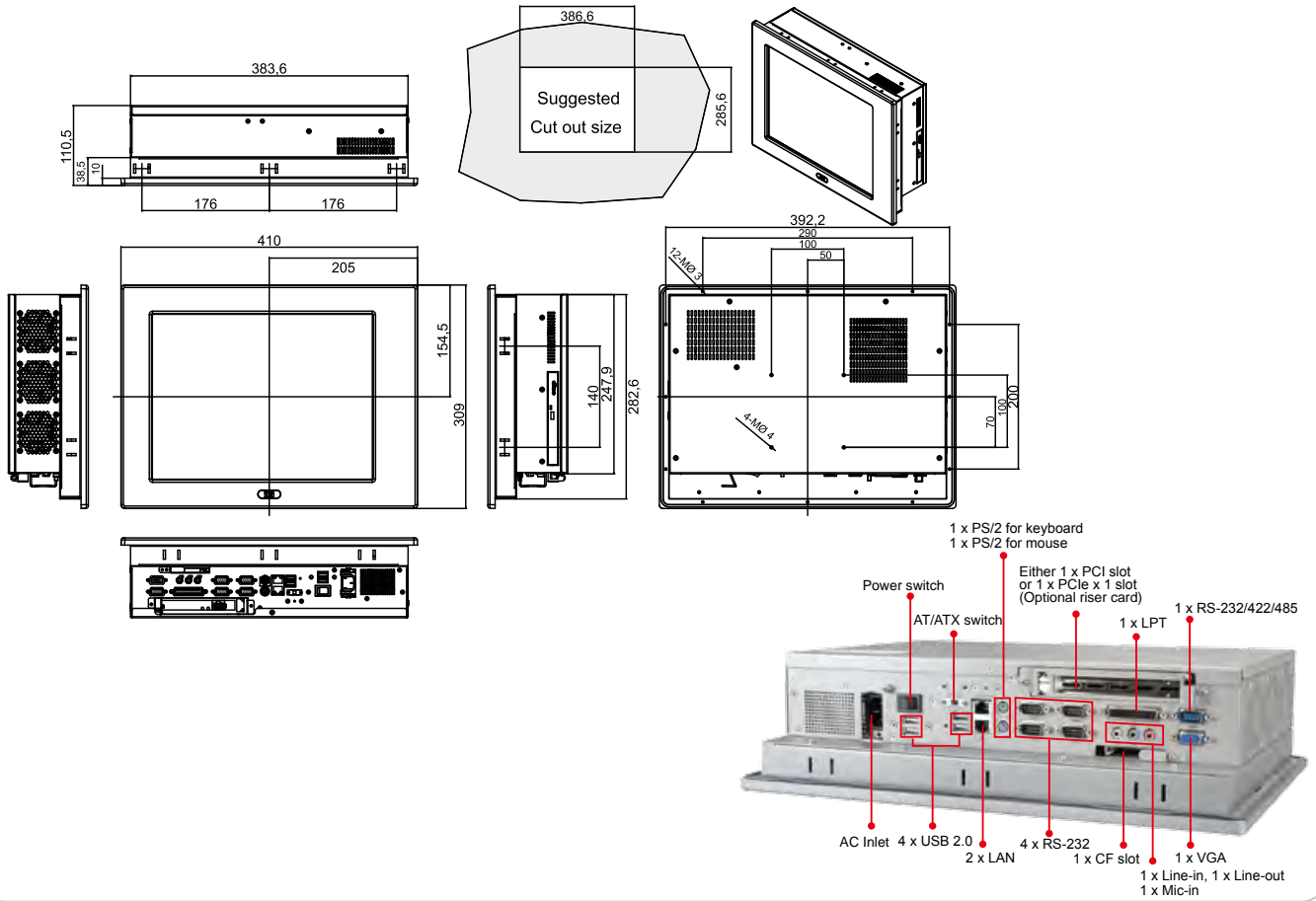
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PACSmate Medical Solutions

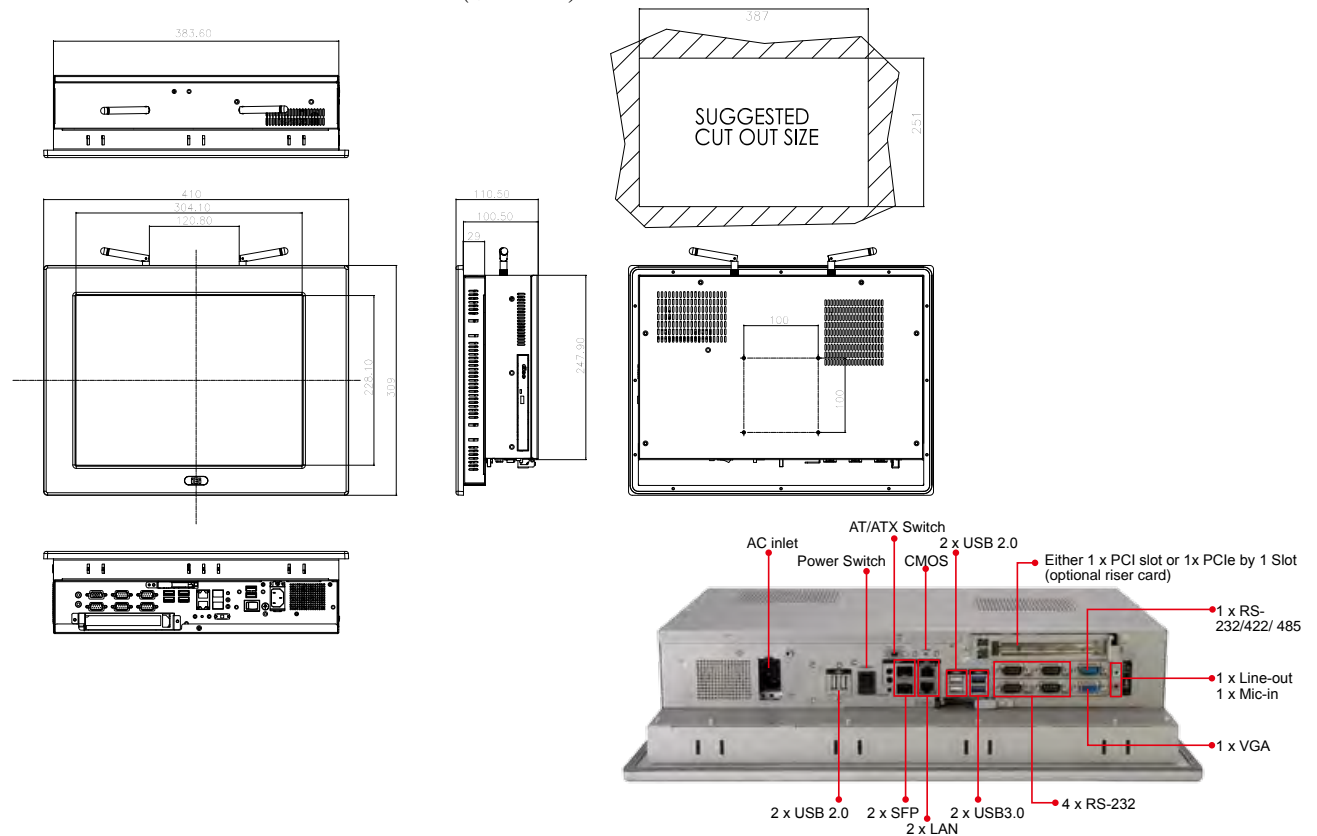
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Optional Peripherals

PPC-5150A Dimensions (Unit: mm)



PPC-5150A-H61 Dimensions (Unit: mm)



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmart Medical Solutions

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Optional Peripherals

17" Industrial Panel PC

PPC-5170A-H61

Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® Processor



PPC-5170A/9455

Intel® Core™2 Duo Processor with Intel® 945G Platform

PPC-5170A-G41

Intel® Core™ 2 Extreme Processor with Intel® G41 Platform



- Intel® H61 Express Chipset with 2nd/3rd generation Intel® Core™, Pentium® and Celeron® processor
- High brightness TFT-LCD panel with LED backlight
- Multiple storage options: 2.5" SATA HDD, CF slot, and mSATA
- Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
- Optional PCIe Mini 802.11b/g/n wireless module
- Optional PCI / PCIe by 1 expansion slot
- Optional Slim type CD-ROM drive bay
- Robust aluminum front bezel and metal casing
- IP 66 compliant front panel for PPC-5170A-H61
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



Specifications

Model	PPC-5170A-H61		PPC-5170A/9455		PPC-5170A-G41		
Display	LCD Size	17"					
	Max Resolution	1280(W) x 1024(H)		1280(W) x 1024(H)			
	Brightness (cd/m²)	350	300		380		
	Contrast Ratio	800 : 1		1000 : 1			
	LCD Color	16.7M					
	Pixel Pitch (mm) (HxV)	0.264(H) x 0.264(V)					
	Viewing Angle (V/H)	170°/ 160°	160°/ 160°		160°/170°		
Backlight MTBF (hrs)	50000						
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface		Resistive Type 5-Wire with RS-232 interface		Resistive Type 5-Wire with RS-232 interface	
	Touch controller	DMC 9000		DMC 9000		DMC 9000	
Motherboard	SBC	POS-H61		POS-9455		POS-G41	
	CPU	2nd/3rd Generation Intel® Core™ Core™ i7/ i5/ i3, Pentium® and Celeron® processor		LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz		LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support	
	Chipset	Intel® H61		Intel® 945G + ICH7R		Intel® G41 + Intel® ICH7	
	RAM	Two 204-pin DDR3 SO-DIMM slots (Max. 16G)		Two 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules (Max. 4G)		2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB	
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0		Realtek RTL8111CP GbE controller		Realtek RTL8111CP GbE controller	
Audio Codec	Realtek ALC662 audio codec		Realtek ALC888 audio codec		Realtek ALC888 audio codec		
I/O Ports and Switches	4 x RS-232 COM Port	1 x Audio (Line-out, MIC-in)	4 x RS-232	2 x PS/2 mouse and keyboard interface	4 x RS-232	2 x PS/2 mouse and keyboard interface	
	1 x RS-232/422/485 Port	2 x SFP Fiber LAN	1 x RS-232/422/485 Port	1 x Power Switch	1 x RS-232/422/485 Port	1 x Power Switch	
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shock					
	SSD	CF Type II, mSATA		CF Type II		CF Type II	
Expansion Slot	CD-ROM Driver Bay	SATA Slim Type CD-ROM Bay					
	Expansion Slot	Either 1 x PCI slot or 1 x PCIe slot		Either 1 x PCI or PCIe x1 expansion slot (PCI riser card built-in, optional PCIe x1 riser card)		Either 1 x PCI or PCIe x1 expansion slot	
		1 x PCIe Mini card		1 x PCIe Mini card		1 x PCIe Mini card	
Physical	Construction Front Panel	Aluminum		Aluminum Die-casting		Aluminum Die-casting	
	Chassis Construction	Heavy-duty Steel		Heavy-duty steel (SECC)		Heavy-duty steel (SECC)	
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm					
	Front Panel Color	Silver (Pantone 8001C)					
	Dimensions (WxHxD) (mm)	452 x 356 x 115		452 x 356 x 115		452 x 356 x 115	
	Cut Out Dimensions (WxH) (mm)	426 x 331		425 x 331		424.5 x 330.5	
	Net /Gross Weight	8 Kg / 12 Kg					
Environment	IP Rating	Front IP66 Compliant		Front IP 65 Compliant		Front IP 65 Compliant	
	Operation Temperature	-20°C ~ 60°C		-10°C~50°C		-10°C~50°C	
	Storage Temperature	-30°C ~ 70°C		-20°C~60°C		-20°C~60°C	
	System Cooling	Active with Fan					
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak					
Power Supply	AC Input	AC Input ATX power supply - P/N: 63000-ACEA622A166-RS - 220W power supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3V@14A, 5V@16A, 12V@10A, -12V@0.8A		P/N: 63000-ACEA618APPC-RS -180W Power Supply - Input: 90VAC~264VAC,50/60Hz - Output (max.): 3.3A@14A, 5V@16A, 12V@14A, -12V@0.5A		P/N: ACE-A622A-RS-R11 -220W power supply -Input: 90VAC~264VAC, 50/60Hz -Output (max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A	
		DC Input ATX power supply - P/N: ACE-4520C-RS - 200W power supply - Input: 24 VDC(18~36 VDC) - Output(max.): 3.3V@12A, 5V@12A, 12V@15.4A, -12V@0.5A		P/N: ACE-4520C-RS -200W power supply -Input: 24 VDC(18~36 VDC) -Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A		P/N: ACE-4520C-RS -200W power supply -Input: 24 VDC(18~36 VDC) -Output(max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A	
	DC Input						

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Ordering Information

Part No.	Description	
Intel® H61 Platform	PPC-5170A-H61-P/R-R10	17" 350 cd/m ² SXGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5170AD-H61-P/R-R10	17" 350 cd/m ² SXGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
	PPC-5170A-H61-i3/R-R10	17" 350 cd/m ² SXGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5170AD-H61-i3/R-R10	17" 350 cd/m ² SXGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
	PPC-5170A-H61-i5/R-R10	17" 350 cd/m ² SXGA Panel PC with POS-H61, Core i5 Dual Core 2xxxTCPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5170AD-H61-i5/R-R10	17" 350 cd/m ² SXGA Panel PC with POS-H61, Core i5 Dual Core 2xxxTCPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
Intel® 945G Platform	PPC-5170A-R11/9455-E2160/A622A/T-R/1GB	17" 300 cd/m ² SXGA panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5170A-R11/9455-E2160/4520C/T-R/1GB	17" 300 cd/m ² SXGA panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-4520C, touch screen, RoHS
Intel® G41 Platform	PPC-5170A-G41-E15/R/1G-R10	17" 380 cd/m ² SXGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
	PPC-5170A-G41-Q94/R/1G-R10	17" 380 cd/m ² SXGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
	PPC-5170AD-G41-E15/R/1G-R10	17" 380 cd/m ² SXGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
	PPC-5170AD-G41-Q94/R/1G-R10	17" 380 cd/m ² SXGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
Riser Card	PCIR-01H-R10	1-Slot PCI riser card
	PCIER-101H-R10	1-Slot PCIe x 1 riser card

Packing List

Item	Part No.	Description
SATA CD-ROM Cable	32803-000300-100-RS	SLIMLINE SATA 7+6 P TO SATA 7P /4P POWER , L=200/150mm.
Power Cord	32000-000002-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR (10A 250V)
Panel Mount Kit	19Z00-000024-RS	
Wall Mount Kit	41020-016102-00-RS	
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Pen		
User's Manual CD-ROM		

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-170MS-R10 (for PPC-5170A series)
ARM	ARM-31-RS
STAND	STAND-210-R11

Options

Part Number	Description
19Z00-000112-RS	IDE CD-ROM Installation Kit (W/O IDE cable)
41019-0393C0-00-RS	IDE HDD Bracket
32200-000037-RS	25cm HDD IDE Cable
PPC-WL-KIT02-R10	Wi-Fi module with RF cable and antenna, 2T2R, 802.11 b/g/n for PPC-5150A-H61, PPC-5170A-H61
73400-AD7760H01-RS	Slim type SATA DVD-ROM

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

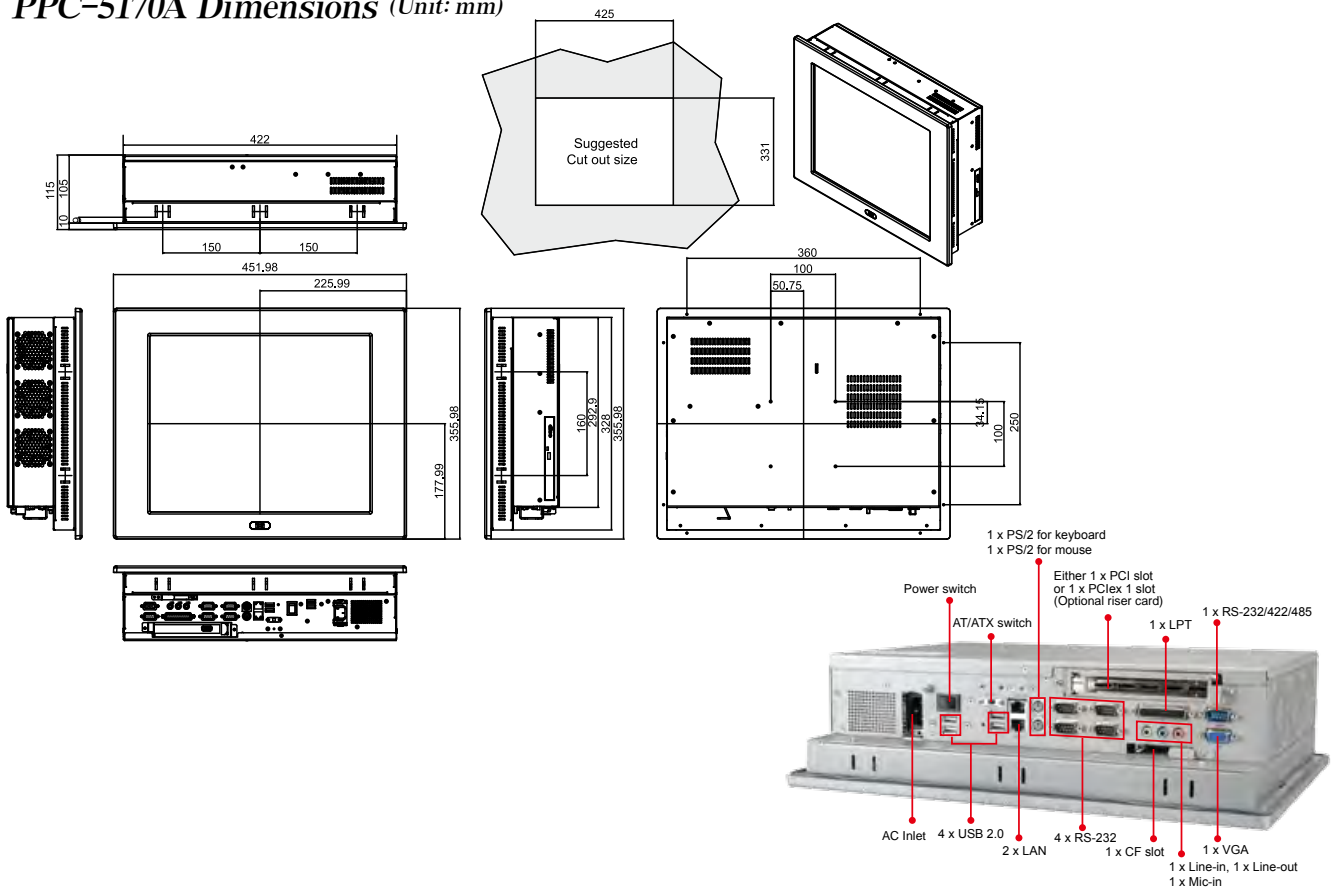
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PACSmate Medical Solutions

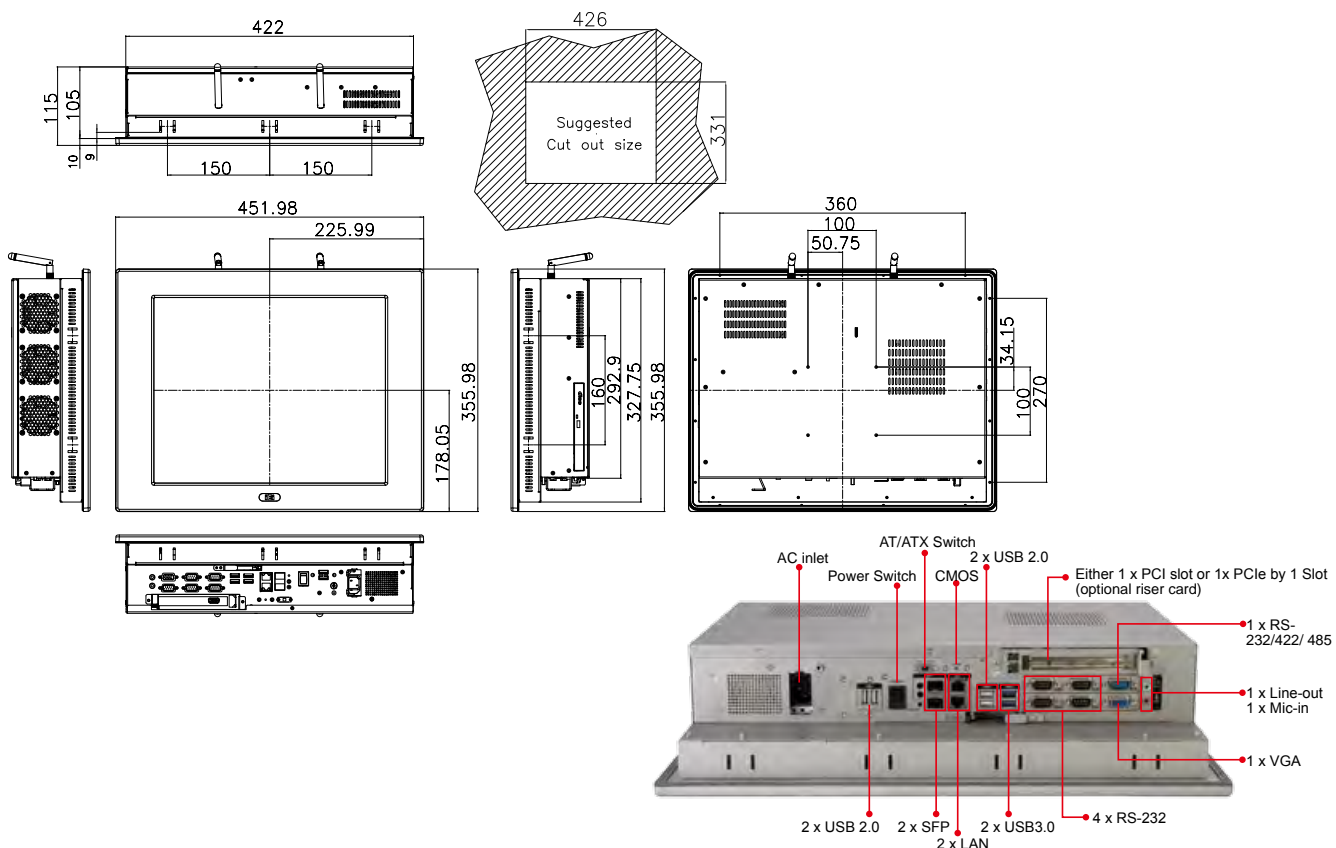
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Optional Peripherals

PPC-5170A Dimensions (Unit: mm)



PPC-5170A-H61 Dimensions (Unit: mm)



- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

19" Industrial Panel PC

PPC-5190A-H61

Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® Processor



PPC-5190A/9455

Intel® Core™2 Duo Processor with Intel® 945G Platform

PPC-5150A-G41

Intel® Core™ 2 Extreme Processor with Intel® G41 Platform



- Intel® H61 Express Chipset with 2nd/3rd generation Intel® Core™, Pentium® and Celeron® processor
- High brightness TFT-LCD panel with LED backlight
- Multiple storage options: 2.5" SATA HDD, CF slot, and mSATA
- Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
- Optional PCIe Mini 802.11b/g/n wireless module
- Optional PCI / PCIe by 1 expansion slot
- Optional Slim type CD-ROM drive bay
- Robust aluminum front bezel and metal casing
- IP 66 compliant front panel for PPC-5190A-H61
- IEL One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



Specifications

Model	PPC-5190A-H61	PPC-5190A/9455	PPC-5190A-G41	
Display	LCD Size	19"		
	Max Resolution	1280(W) x 1024(H)		
	Brightness (cd/m ²)	350	300	380
	Contrast Ratio	1000 : 1	700 : 1	1000 : 1
	LCD Color	16.7M		
	Pixel Pitch (mm) (HxV)	0.294(H) x 0.294(V)		
	Viewing Angle (V/H)	160°/ 170°		
Backlight MTBF (hrs)	50,000			
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface		
	Touch controller	DMC 9000	DMC 9000	DMC 9000
Motherboard	SBC	POS-H61	POS-9455	POS-G41
	CPU	2nd/3rd Generation Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® processor	LGA 775 Socket with Intel® Core™2 Duo, Celeron® D with 533/800/1066 MHz	LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
	Chipset	Intel® H61	Intel® 945G + ICH7R	Intel® G41 + Intel® ICH7
	RAM	Two 204-pin DDR3 SO-DIMM slots (Max. 16G)	Two 240-pin DIMM socket, supporting DDR2 400/533/667MHz modules (Max. 4G)	2 x 240-pin DIMM socket, supporting DDR3 800/1066MHz modules for up to 4GB
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	Realtek RTL8111CP GbE controller	Realtek RTL8111CP GbE controller
	Audio Codec	Realtek ALC662 audio codec	Realtek ALC888 audio codec700 : 1	Realtek ALC888 audio codec
I/O Ports and Switches	4 x RS-232 COM Port	1 x Audio (Line-out, MIC-in)	4 x RS-232	2 x PS/2 mouse and keyboard interface
	1 x RS-232/422/485 Port	2 x SFP Fiber LAN	1 x RS-232/422/485 Port	2 x PS/2 mouse and keyboard interface
Drive Bay	2 x RJ-45 for LAN Port	1 x Power Switch	2 x RJ-45 for LAN Port	1 x Power Switch
	6 x USB 2.0, 2 x USB 3.0 on rear	1 x AT / ATX Switch	6 x USB 2.0	1 x AT / ATX Switch
	1 x VGA Port	1 x PCI/PCIE Slot	1 x VGA Port	1 x LPT
	1 x RS-232	1 x Line-out, 1 x Line-in, 1 x Mic-in	2 x PS/2 mouse and keyboard interface	1 x LPT
	1 x RS-232/422/485 Port	1 x PS/2 mouse and keyboard interface	1 x RS-232/422/485 Port	1 x PS/2 mouse and keyboard interface
	2 x RJ-45 for LAN Port	1 x Power Switch	2 x RJ-45 for LAN Port	1 x Power Switch
Expansion Slot	Either 1 x PCI slot or 1 x PCIe slot	Either 1 x PCI or PCIe x1 expansion slot (optional)	Either 1 x PCI or PCIe x1 expansion slot	Either 1 x PCI or PCIe x1 expansion slot
	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card	1 x PCIe Mini card
Physical	Construction Front Panel	Aluminum		
	Chassis Construction	Heavy-duty Steel		
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm		
	Front Panel Color	Silver (Pantone 8001C)		
	Dimensions (WxHxD) (mm)	482 x 399 x 115	483 x 399 x 115.2	483 x 399 x 115.2
Environment	Cut Out Dimensions (WxH) (mm)	450 x 363	450 x 363	450 x 363
	Net / Gross Weight	12.6 Kg / 18.2 Kg	12.6 Kg / 18.2 Kg	12.6 Kg / 18.2 Kg
Power Supply	Operation Temperature	-10°C ~ 50°C	-10°C ~ 50°C	-10°C~50°C
	Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C	-20°C~60°C
	System Cooling	Active with Fan		
	Vibration	5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak		
	Shock	10G acceleration part to part (11ms)		
AC Input	IP Rating	Front IP66 Compliant	Front IP 65 Compliant	Front IP 65 Compliant
	AC Input	AC Input ATX power supply - P/N: 63000-ACEA622A166-RS - 220W power supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3V@14A, 5V@16A, 12V@10A, -12V@0.8A	P/N: 63000-ACEA622APPC-RS- 220W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A	P/N: ACE-A622A-RS-R11 - 220W Power Supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3A@14A, 5V@16A, 12V@10A, -12V@0.8A
DC Input	DC Input	DC Input ATX power supply - P/N: ACE-4520C-RS - 200W power supply - Input: 24 VDC(18~36 VDC) - Output(max.): 3.3V@12A, 5V@12A, 12V@15.4A, -12V@0.5A	P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output (max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A	P/N: ACE-4520C-RS - 200W Power Supply - Input: 24VDC, 50/60Hz - Output (max.): 3.3A@12A, 5V@12A, 12V@15.4A, -12V@0.5A

1 IEL Mobile Solutions

2 Automation Panel Solutions

3 RISC-based Solutions

4 PACSmart Medical Solutions

5 Optional Peripherals

Ordering Information

Part No.	Description	
Intel® H61 Platform	PPC-5190A-H61-P/R-R10	19" 350 cd/m ² SXGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5190AD-H61-P/R-R10	19" 350 cd/m ² SXGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
	PPC-5190A-H61-i3/R-R10	19" 350 cd/m ² SXGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5190AD-H61-i3/R-R10	19" 350 cd/m ² SXGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
	PPC-5190A-H61-i5/R-R10	19" 350 cd/m ² SXGA Panel PC with POS-H61, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5190AD-H61-i5/R-R10	19" 350 cd/m ² SXGA Panel PC with POS-H61, Core i5 Dual Core 2xxxT CPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, Silver color, PSU ACE-4520C, touch screen, RoHS
Intel® 945G Platform	PPC-5190A-R11/9455-E2160/A622A/T-R/1GB	19" 450 cd/m ² SXGA panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-A622A, touch screen, RoHS
	PPC-5190A-R11/9455-E2160/4520C/T-R/1GB	19" 450 cd/m ² SXGA panel PC with POS-9455 R11 version, Pentium® Dual-Core E2160 1.8GHz CPU, 1GB DDR2 RAM, Silver color, PSU ACE-4520C, touch screen, RoHS
Intel® G41 Platform	PPC-5190A-G41-E15/R/1G-R10	19" 450 cd/m ² SXGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
	PPC-5190A-G41-Q94/R/1G-R10	19" 450 cd/m ² SXGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-A622A, touch screen, w/o riser card
	PPC-5190AD-G41-E15/R/1G-R10	19" 450 cd/m ² SXGA Panel PC with POS-G41, Celeron Dual Core E1500 2.2GHz CPU, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
	PPC-5190AD-G41-Q94/R/1G-R10	19" 450 cd/m ² SXGA Panel PC with POS-G41, Quad Core Q9400 2.66GHz, 1GB DDR3 RAM, silver color, PSU ACE-4520C, touch screen, w/o riser card
Riser Card	PCIR-01H-R10	1-Slot PCI riser card
	PCIER-101H-R10	1-Slot PCIe x 1 riser card

PCIER-101H-R10



PCIe x4 slot with PCIe x1 signal riser card

PCIR-01H-R10



One Slot PCI riser card

Packing List

Item	Part No.	Description
User's Manual CD-ROM		
SATA CD-ROM Cable	32803-000300-100-RS	SLIMLINE SATA 7+6 P TO SATA 7P /4P POWER ,L=200/150mm.
Power Cord	32000-000002-RS	EUROPEAN Standard ,1830MM, PLUG(16A 250V), CONNECTOR(10A 250V)
Panel Mount Kit	19Z00-000024-RS	
Wall Mount Kit	41020-016102-00-RS	
IEI One Key Recovery CD	IEI-7B000-000478-RS	
Touch Pen		

IQ Mounting Options

Item	Part No.
Rack Mount Kit	RK-190MS-R10
ARM	ARM-31-RS
STAND	STAND-210-R11

Options

Part Number	Description
19Z00-000112-RS	IDE CD-ROM Installation Kit (W/O IDE cable)
41019-0393C0-00-RS	IDE HDD Bracket
32200-000037-RS	25cm HDD IDE Cable
PPC-WL-KIT03-R10	Wi-Fi module with RF cable and antenna, 2T2R, 802.11 b/g/n for PPC-5190A-H61
73400-AD7760H01-RS	Slim type SATA DVD-ROM

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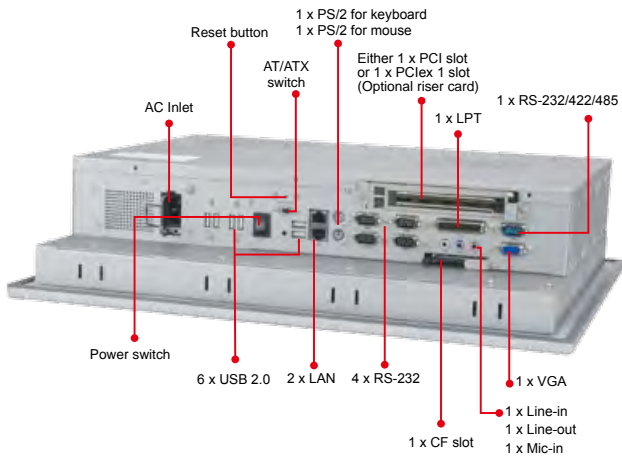
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PACSmate Medical Solutions

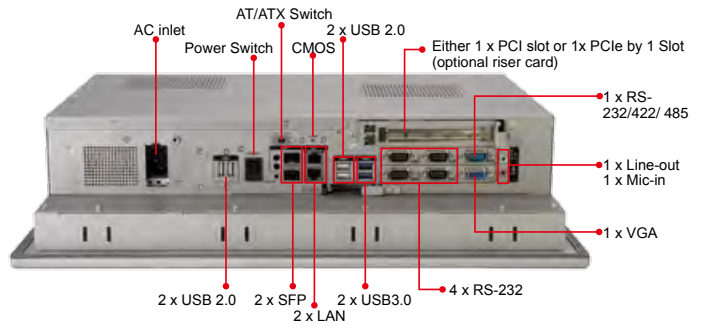
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Optional Peripherals

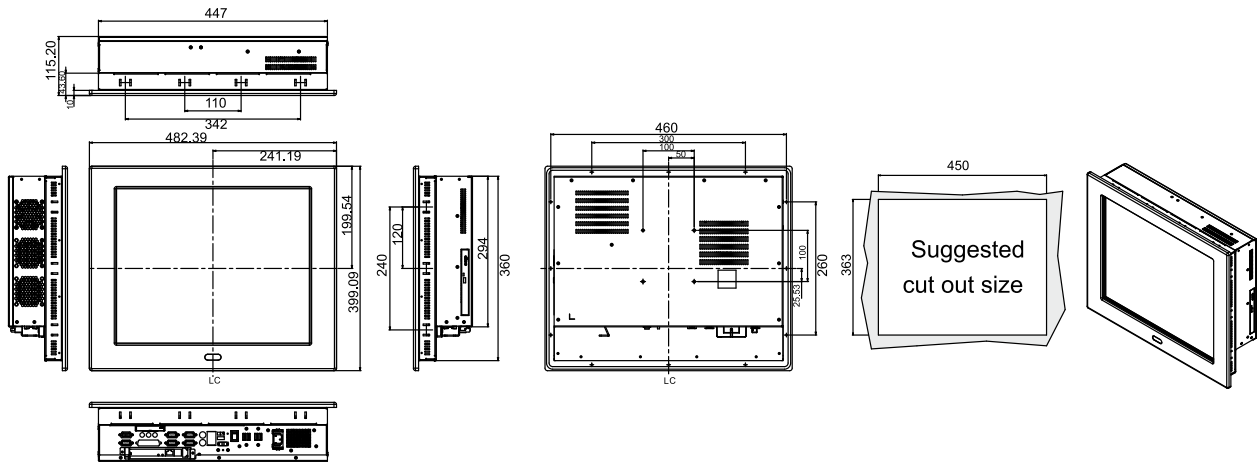
PPC-5190A
Fully Integrated I/O



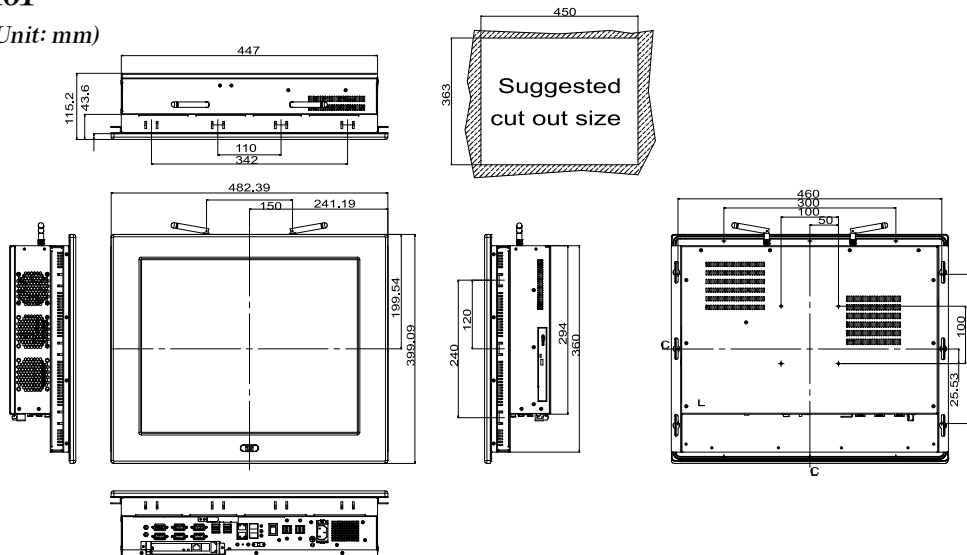
PPC-5190A-H61
Fully Integrated I/O



PPC-5190A
Dimensions (Unit: mm)



PPC-5190A-H61
Dimensions (Unit: mm)



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Optional Peripherals

WIDS Series Selection Guide



LCD Size		15"	17"
Model		WIDS-515A-H61	WIDS-517A-H61
Display	LCD Size	15 "	17 "
	Max Resolution	1024(W) x 768(H)	1280(W) x 1024(H)
	Brightness (cd/m ²)	400	350
	Contrast Ratio	700:1	800 : 1
	LCD Color	16.2M	16.7M
	Pixel Pitch (mm) (HxV)	0.297(H) x 0.297(V)	0.264(H) x 0.264(V)
	Viewing Angle (V/H)	140°/ 160°	170°/ 160°
	Backlight MTBF (hrs)	50000	50000
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface
	Touch controller	DMC 9000	DMC 9000
Motherboard	CPU	2nd/3rd Generation Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® processor	2nd/3rd Generation Intel® Core™ Core™ i7/ i5/ i3, Pentium® and Celeron® processor
	Chipset	Intel® H61	Intel® H61
	RAM	Support 2 x 204-pin DDR3 SO-DIMM slot (max. 16G)	Support 2 x 204-pin DDR3 SO-DIMM slot (max. 16G)
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	IRealtek RTL8111E PCIe GbE controller supporting ASF 2.0
	Audio Codec	Realtek ALC662 HD audio codec	Realtek ALC662 audio codec
I/O Ports and Switches		4 x RS-232 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 2 x SFP Fiber LAN 4 x USB 2.0, 2 x USB3.0 on rear 1 x VGA Port 1 x Audio (Line-out, MIC-in) 1 x Power Switch 1 x AT / ATX Switch 1 x PCI/ PCIe expansion slot	4 x RS-232 1 x RS-232/422/485 Port 2 x RJ-45 for LAN Port 4 x USB 2.0, 2 x USB3.0 on rear 1 x VGA Port 1 x Audio (Line-out, MIC-in) 1 x Power Switch 1 x AT / ATX Switch 1 x PCI/ PCIe expansion slot
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shook	1 x 2.5" SATA HDD bay with anti-shook
	SSD	CF Type II, mSATA (optional)	CF Type II, mSATA (optional)
	CD-ROM Driver Bay	Slim Type CD-ROM Bay	Slim Type CD-ROM Bay
Expansion Slot		Either 1 x PCI slot or 1 x PCIe slot 1 x PCIe Mini card	Either 1 x PCI slot or 1 x PCIe slot 1 x PCIe Mini card
System Cooling			Active with Fan
Environment	Operation Temperature	-20°C ~ 60°C	-20°C ~ 60°C
	Storage Temperature	-30°C ~ 70°C	-30°C ~ 70°C

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Optional Peripherals

WIDS Industrial Panel PC

WIDS-515A-H61

15" IP65 Heavy Industrial Panel PC with Wi-Fi



WIDS-517A-H61

17" IP65 Heavy Industrial Panel PC with Wi-Fi



- Intel® H61 Express Chipset with 2nd/3rd Generation Intel® Core™, Pentium® and Celeron® processor
- Built-in mini PCIe 802.11b/g/n wireless module for panel mount installation
- High brightness TFT-LCD panel with LED backlight
- Multiple storage options: 2.5" SATA HDD, CF slot, and mSATA
- Dual Ethernet provides continuous network service and allows sharing among different workgroups in two different subnets
- Optional PCI / PCIe by 1 expansion slot
- Optional Slim type CD-ROM drive bay
- IP 65 compliant front panel
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery (Over 4GB storage capacity)



Specifications

Model		WIDS-515A	WIDS-517A
Display	LCD Size	15"	17"
	Max Resolution	1024(W) x 768(H)	1280(W) x 1024(H)
	Brightness (cd/m ²)	400	350
	Contrast Ratio	700:1	800:1
	LCD Color	16.2M	16.7M
	Pixel Pitch (mm)	0.297 x 0.297	0.264 x 0.264
	Viewing Angle (V-H)	140°/160°	170°/160°
Touch	Backlight MTBF (hrs)	50,000	50,000
	Touch screen	Resistive Type 5-Wire with RS-232 interface	
Motherboard	Touch controller	DMC 9000	DMC 9000
	SBC Model	POS-H61	POS-H61
	CPU	2nd/3rd Generation Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® processor	2nd/3rd Generation Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® processor
	Chipset	Intel® H61	Intel® H61
	RAM	Support 2 x 204-pin DDR3 SO-DIMM slot (max. 16G)	Support 2 x 204-pin DDR3 SO-DIMM slot (max. 16G)
	Ethernet	Realtek RTL8111E PCIe GbE controller supporting ASF 2.0	IRRealtek RTL8111E PCIe GbE controller supporting ASF 2.0
	Audio Codec	Realtek ALC662 HD audio codec	
I/O Ports and Switches	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shook	1 x 2.5" SATA HDD bay with anti-shook
	SSD	CF Type II, mSATA (optional)	CF Type II, mSATA (optional)
	CD-ROM Driver Bay	Slim Type CD-ROM Bay	Slim Type CD-ROM Bay
	Wireless	IEEE 802.11b/g/n 2T2R mode WLAN via internal PCIe Mini card interface	IEEE 802.11b/g/n 2T2R mode WLAN via internal PCIe Mini card interface
	Extension Slot	Either 1 x PCI slot or 1 x PCIe slot 1 x PCIe mini card	Either 1 x PCI slot or 1 x PCIe slot 1 x PCIe mini card
	Construction Front Panel	Aluminum	Aluminum
	Construction Chassis	Heavy-duty Steel	Heavy-duty Steel
Physical	Mounting Front Panel Color	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm Silver (Pantone 8001C)	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm Silver (Pantone 8001C)
	Dimension (WxHxD) (mm)	410 x 329 x 123	452 x 376 x 123
	Net Gross Weight	7 Kg / 11 Kg	8 Kg / 12 Kg
	Operation Temperature (°C) (Ambient with air flow)	-20°C ~ 60°C	-20°C ~ 60°C
	Environment Storage Temperature (°C)	-30°C ~ 70°C	-30°C ~ 70°C
	Humidity	10% to 95% (non-condensing)	10% to 95% (non-condensing)
	Vibration	5-17Hz, 0.1" double amplitude displacement 17-640Hz, 1.5G acceleration peak to peak	5-17Hz, 0.1" double amplitude displacement 17-640Hz, 1.5G acceleration peak to peak
Shock	10G acceleration part to part (11ms)		
Power Supply	ATX AC-Input	AC Input ATX power supply - P/N: 63000-ACEA622A166-RS - 220W power supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3V@14A, 5V@16A, 12V@10A, -12V@0.8A	AC Input ATX power supply - P/N: 63000-ACEA622A166-RS - 220W power supply - Input: 90VAC~264VAC, 50/60Hz - Output(max.): 3.3V@14A, 5V@16A, 12V@10A, -12V@0.8A
	DC Input	DC Input ATX power supply - P/N: ACE-4520C-RS - 200W power supply - Input: 24 VDC(18-36 VDC) - Output(max.): 3.3V@12A, 5V@12A, 12V@15.4A, -12V@0.5A	DC Input ATX power supply - P/N: ACE-4520C-RS - 200W power supply - Input: 24 VDC(18-36 VDC) - Output(max.): 3.3V@12A, 5V@12A, 12V@15.4A, -12V@0.5A

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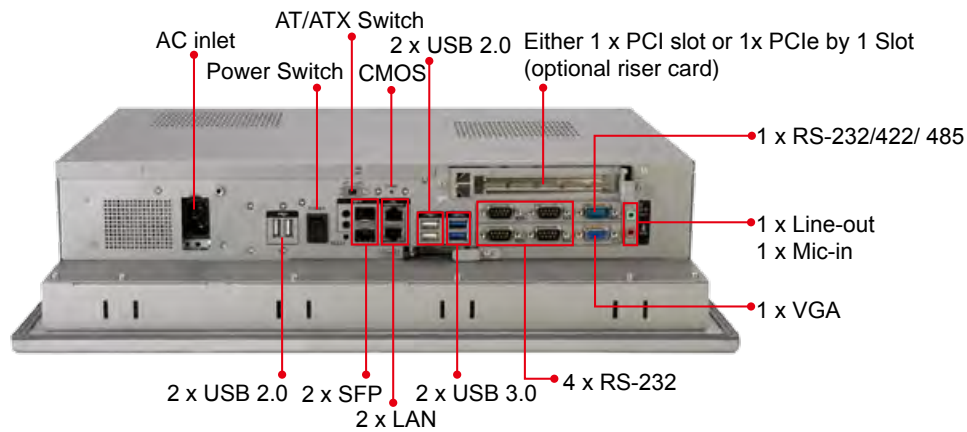
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Optional Peripherals

IO Interface



Ordering Information

Part No.	Description
15"	WIDS-515A-H61-P/R-R10 15" 400 cd/m2 XGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS
	WIDS-515AD-H61-P/R-R10 15" 400 cd/m2 XGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
	WIDS-515A-H61-i3/R-R10 15" 400 cd/m2 XGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS
	WIDS-515AD-H61-i3/R-R10 15" 400 cd/m2 XGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
	WIDS-515A-H61-i5/R-R10 15" 400 cd/m2 XGA Panel PC with POS-H61, Core i5 Dual Core 2xxxTCPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS
	WIDS-515AD-H61-i5/R-R10 15" 400 cd/m2 XGA Panel PC with POS-H61, CCore i5 Dual Core 2xxxTCPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
17"	WIDS-517A-H61-P/R-R10 17" 350 cd/m2 SXGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS
	WIDS-517AD-H61-P/R-R10 17" 350 cd/m2 SXGA Panel PC with POS-H61, Pentium Dual Core G6xxT (Above 2.2GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
	WIDS-517A-H61-i3/R-R10 17" 350 cd/m2 SXGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS
	WIDS-517AD-H61-i3/R-R10 17" 350 cd/m2 SXGA Panel PC with POS-H61, Core i3 Dual Core 2xxxT CPU (Above 2.5GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
	WIDS-517A-H61-i5/R-R10 17" 350 cd/m2 SXGA Panel PC with POS-H61, Core i5 Dual Core 2xxxTCPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-A622A, touch screen, RoHS
	WIDS-517AD-H61-i5/R-R10 17" 350 cd/m2 SXGA Panel PC with POS-H61, Core i5 Dual Core 2xxxTCPU (Above 2.7GHz), TDP 35W, 2GB DDR3 RAM*2, 802.11 b/g/n wireless module, Silver color, PSU ACE-4520C, touch screen, RoHS
Riser Card	PCIR-01H-R10 1-Slot PCI riser card
	PCIER-101H-R10 1-Slot PCIe x1 riser card

Packing List

Item	Part No.	Description
SATA CD-ROM Cable	32803-000300-100-RS	SATA 7+6 P TO SATA 7P /4P POWER
Power Cord	32702-000200-100-RS	EUROPEAN Standard , 1830MM
Panel Mount Kit	19Z00-000024-RS	
Wall Mount Kit	41020-016102-00-RS	WALL MOUNT BRACKET
	41014-057602-00-RS	ULTRA SET PLATE
Touch Pen	43125-0002C0-00-RS	
User's Manual CD-ROM	IEI-7B000-000543-RS	For WIDS-51xA-G41
IEI One Key Recovery CD	IEI-7B000-000478-RS	

IQ Mounting Options

Item	WIDS-515A	WIDS-517A
Panel Mount Kit		PK-170M
Wall Mount Kit		WK-190MS-R10
Rack Mount Kits	WIDSRK-150MS-R10	WIDSRK-170MS-R10
Stand		STAND-210-R11
ARM		ARM-31-RS

Options

Part Number	Description
73400-AD7760H01-RS	Slim type SATA DVD-ROM

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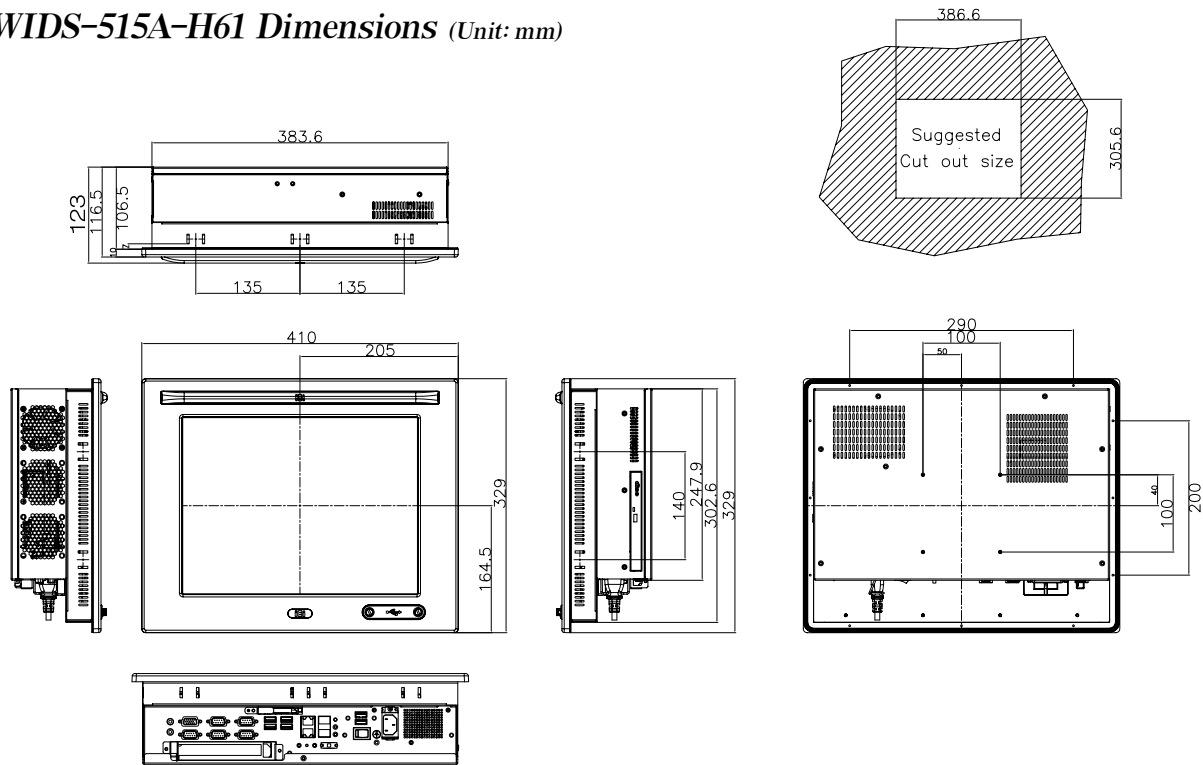
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Automation Panel Solutions

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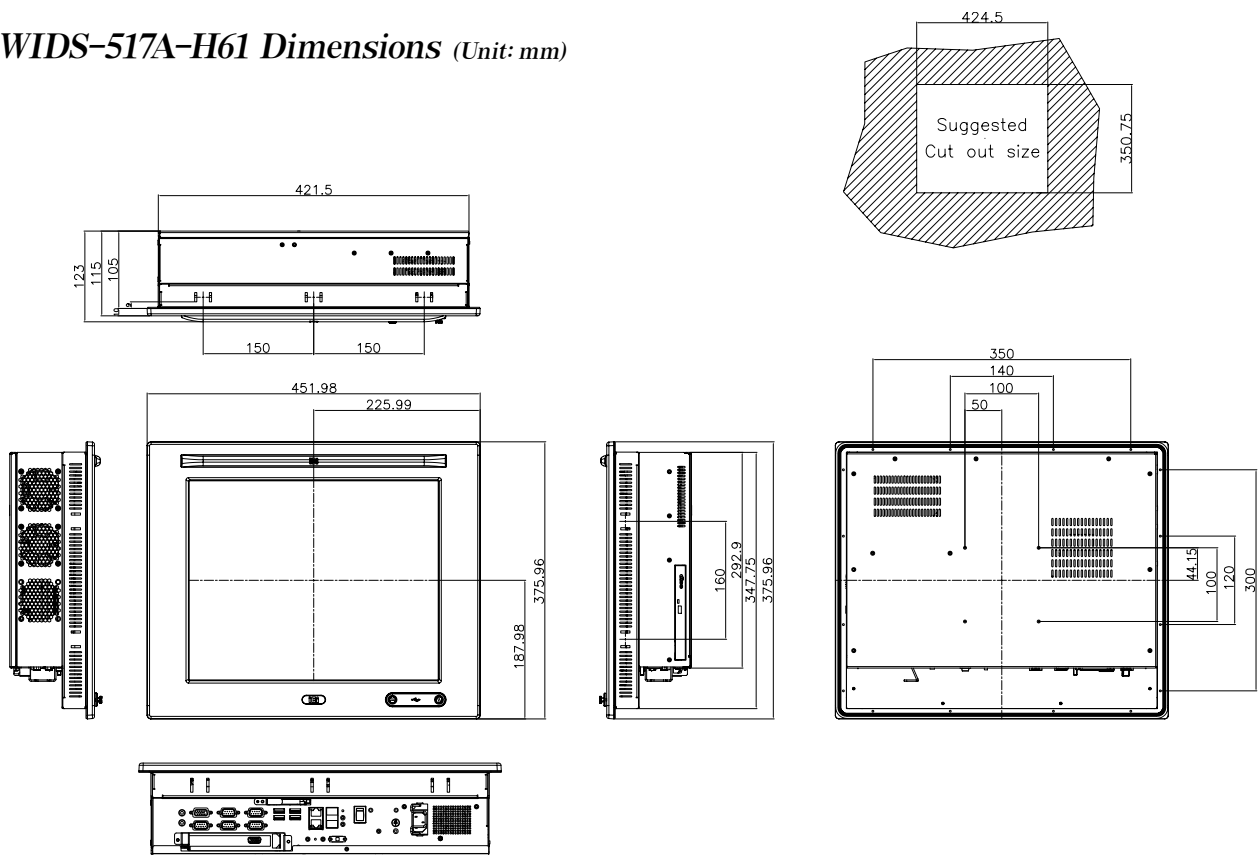
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WIDS-515A-H61 Dimensions (Unit: mm)



WIDS-517A-H61 Dimensions (Unit: mm)



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Optional Peripherals

Industrial Vertical Market PPC Selection Guide



Model		S12A(SR)-N270	UPC-V312-D525	UPC-V315-NM70	UPC-V315-QM77	UPC-12AH/GM45
Display	LCD Size	12.1"	12.1"	15 "	15 "	12.1"
	Max Resolution	1024 x 768	1024 x 768	1024(W) x 768(H)	1024(W) x 768(H)	1024 x 768
	Brightness (cd/m ²)	400 (1000)	600	400	400	450 (1000)
	Contrast Ratio	500 : 1 (700 : 1)	700 : 1	700:1	700:1	700 : 1
	LCD Color	262K	16.2M	16.2M	16.2M	262K
	Pixel Pitch (mm) (HxV)	0.240 (H) x 0.240 (V)	0.240 (H) x 0.240 (V)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.240 (H) x 0.240 (V)
	Viewing Angle (V/H)	120°/100° (120°/130°)	150° / 130°	125°/ 140°	125°/ 140°	160°/160° (120°/130°)
	Backlight MTBF (hrs)	60000 (50000)	50000	50000	50000	50000
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface
	Touch controller	PENMOUNT 6000	DMC 9000	DMC 9000	DMC 9000	DMC 9000
Motherboard	CPU	Intel® Atom™ N270 1.6GHz CPU	Intel® Atom™ D525 1.8GHz dual core processor	Intel® Celeron® Processor 847	Intel® Core™ i3-3217UE Processor	Intel® Celeron M 575 2.0GHz CPU / Intel® Core 2 Duo P8400 2.26 GHz CPU / Intel® Core 2 Duo T9400 2.53GHz CPU
	Chipset	Intel® 945GSE + ICH7M	Intel® ICH8M	Mobile Intel® NM70 Express Chipset	Mobile Intel® QM77 Express Chipset	Intel® GM45+ICH9M
	RAM	Supports one 400/533MHz DDR2 SO-DIMM (2GB Max.)	On-board 1G DDR3 SO-DIMM (System Max. 1GB)	Built in 1*2GB DDRIII memory (System Max. 8GB; on board Max. 4GB socket Max. 4GB)	Built in 1*2GB DDRIII memory (System Max. 8GB; on board Max. 4GB socket Max. 4GB)	Supports two 667/800 MHz DDR2 SO-DIMM (4GB Max.)
	Ethernet	Realtek RTL8111CP PCIe GbE controller	Realtek RTL8111CP PCIe GbE controller	INTELWG82579LM GbE PHY	INTELWG82579LM GbE PHY	Realtek RTL8111CP PCIe GbE controller
	Audio Codec	Realtek ALC892 audio codec	Realtek ALC888 audio codec	Realtek ALC892 HD audio codec	Realtek ALC892 HD audio codec	Realtek ALC888 audio codec
I/O Ports and Switches		1 x 5-pin M12 connector for power adapter 1 x 8-pin M12 connector for two USB 1 x 5-pin M12 connector for CAN bus and Audio line out 1 x 8-pin M12 connector for UART RS-232/422/485 1 x 8-pin M12 connector for UART RS-232 1 x 8-pin M12 connector for GbE LAN	RS-422/485 (4-pin box header) RS-232 (DB-9 connector) CAN-bus (3-pin terminal block) GbE LAN (RJ-45 connector) 4 x USB connector Audio jack (Line out, Mic) VGA port (DB-15 connector) DC-IN 1 (terminal block) / DC-IN 2 (DC Jack) Reset button AT/ATX switch	3 x RS-232 (RJ-45) 1 x RS-422/485 (RJ-45) 1 x CAN-BUS 1 x VGA 1 x HDMI port 2 x GbE LAN 2 x USB2.0 1 x Reset button 1 x Audio jack (Line out, MIC) 1 x DC Jack (9~36V DC) 1 x Terminal block (9~36V DC) 1 x AT / ATX mode switch	3 x RS-232 (RJ-45) 1 x RS-422/485 (RJ-45) 1 x CAN-BUS 1 x VGA 1 x HDMI port 2 x GbE LAN 2 x USB2.0 2 x USB3.0 1 x Reset button 1 x Audio jack (Line out, MIC) 1 x DC Jack (9~36V DC) 1 x Terminal block (9~36V DC) 1 x AT / ATX mode switch	3 x RS-232 COM Port 1 x RS-232/422/485 COM Port 2 x RJ-45 for Giga LAN 6 x USB 2.0 (2 waterproof USBs in front Panel) 1 x VGA Port 1 x Power Switch 1 x Audio Jack (Lin-out, Mic-in) 1 x Audio Jack 1 x Reset Button 1 x 9~28VDC Power Jack 1 x 9~28VDC Power Input Terminal Block 1 x Networking UPS Management Port by RJ-45 Ethernet 1 x UPS Remote Power Switch (2 pin terminal block)
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD Bay with anti-shock	N/A	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD bay with anti-shock	1 x 2.5" SATA HDD Bay with anti-shock
	SSD	CF Type II	CF Type II socket	mSATA	mSATA	CF Type II
	CD-ROM Driver Bay	-	-	-	-	-
Expansion Slot		Built-in 802.11b/g/n Wireless LAN Module (internal Mini PCIe interface)	Mini PCIe slot for Wi-Fi	-	1 x PCIe Mini Card	Built-in 802.11b/g/n Wireless LAN Module (internal Mini PCIe interface)
		-	-	-	-	Either 1 x PCI or PCIe1 expansion slot
System Cooling		Fanless	Fanless	Fanless	Fanless	Active with Fan
Battery	Capacity	-	-	-	-	14.8V, 3800 mAh
	UPS run-time	-	-	-	-	30~40 mins
Environment	Operation Temperature	-10°C ~50°C	-20°C~60°C	-20°C ~60°C	-20°C ~60°C	-10°C ~50°C
	Storage Temperature	-20°C~60°C	-40°C~85°C	-30°C ~75°C	-30°C ~75°C	-20°C~60°C
IP Rating		IP 67	6-side IP 65	Full IP 65	Full IP 65	Front IP 65

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

S12A

12.1" Full IP 67 Panel PC

Full IP 67
Up to 1 meter of submersion

Features:

- 12.1" 1000 nits super high brightness LED available
- IP 67 (NEMA 6) fully-enclosed aluminum die cast enclosure and IP 67 waterproof lockable I/O
- Fanless system integrated with Intel® Atom™ N270 1.6G processor for ultra low voltage
- Supports one 2.0 GB (max.) 400/533 MHz DDR2 SO-DIMM
- Built-in internal Wi-Fi antenna supports 802.11 b/g/n high standard
- CAN-Bus interface for automotive applications
- Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing.
(Advanced Deep Dimming to Black for sunlight readable model)
- Standard VESA 75/100 compliance

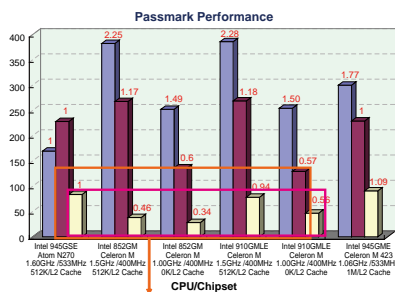


COMPUTEX TAIPEI 2009
BEST CHOICE



Rugged Panel PC with Fanless Intel® Atom™ Processor

The fanless intelligent display computer, S12A, uses a 45 nm Intel® Atom™ processor with up to 1.6 GHz frequency and can be used in harsh and safety-critical applications in transport, avionics, engineering or industrial automation. Better graphic performance is excellent for kiosk, self-service terminal, and digital signage applications.



Out Door Control System



National Park Guiding System



Zoo Guide

Evaluating 3D mark performance with different generation CPU and chipset combination, Intel® Atom™ processor is the best solution for low power consumption and better graphic performance choice.

Sunlight Readable

Super High Brightness

S12ASR (Sunlight Readable Model) has greatly improved luminance through edge lighting to achieve super high brightness (up to 1000 cd/m²).

Low Reflection through AR (Anti-Reflection) Technology

Outdoor applications in daylight or other bright environments require technology that can suppress surface reflection. S12ASR sunlight readable model offers special AR (anti-reflection) surface treatment to prevent reflection, which ensures excellent visibility in daylight conditions.



Reduced Reflection of Light

Super High Brightness: 1000 nits
High Contrast: 700:1
Wide Viewing Angle: 60/60 (R/L) 45/75 (U/D)

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IP 67 Fully-Enclosed Design

The S12A is front sealed and tested in the certified house chamber under UL's Witnessed Test Data Program (TDP). IEI follows IP 67 standard testing procedures. This full IP 67 touch monitor provides full IP 67 protection including connectors, cables and screen.

[IP 67] Dust-Tight

First Digit The first digit indicates the level of protection that the enclosure provides against access to hazardous parts

Level		Effective Against
6		No ingress of dust; complete protection against contact

[IP 67] Temporary immersion under water 1m

Second Digit Protection of the equipment inside the enclosure against harmful ingress of water

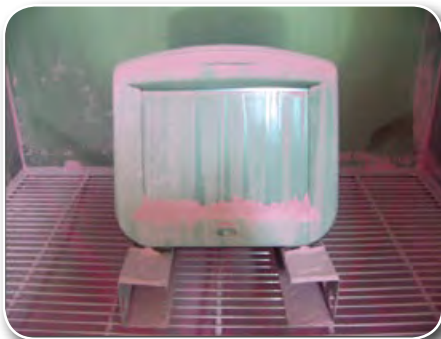
Level		Effective Against
7		Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1m of submersion)

Sealing enclosure with all sides of IP 67 !



■ IP6X Test

• Test for protection against dust



■ IPX7 Test



• Test for protection against water

Protected against the effects of temporary immersion between 15 cm and 1m. Duration of test is 30 minutes



• Air Flow Test

Air pressure measurement is used as the IP 67 test method, the air flow tester is capable of detecting leaks in product and evaluates the pass/fail status of the watertight system.

Uninterrupted Wireless Connection

The S12A series features high speed Wi-Fi IEEE 802.n protocol which builds on previous 802 standards by adding multiple-input multiple-output (MIMO) and 40 MHz operation to the physical (PHY) layer. MIMO uses multiple transmitter and receiver antennas to improve system performance.



27 times faster data transfer rate compared to 802.11b

Protocol	Freq. (GHz)	Thru. (Mbit/s)	Data (Mbit/s)	Range indoor (m)	Range outdoor (m)
802.11a	5 GHz	23	54 Mbit/s	~35	~120
b	2.4 GHz	4.3	11 Mbit/s	~38	~140
g	2.4 GHz	19	54 Mbit/s	~38	~140
n	5 GHz and/or 2.4 GHz	74	300 Mbit/s (2 streams)	~70	~250

802.11b/g Wi-Fi, which gives you up to broadband-speed browsing and connectivity, compared to traditional wired LAN.

The benefits here:

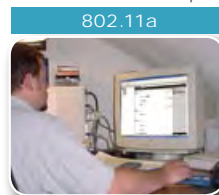
- Simple configuration
- Without hinders worker movement
- Without lessens man-hour productivity
- Without additional purchase of proprietary cables for specific devices
- Without the barrier to space

802.11b/g/n ready with invisible antenna

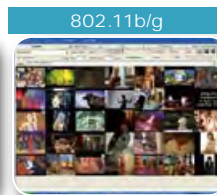


Benefit

- * Half the size of Mini-PCI
- * Higher bandwidth interface
- * Rigid mechanical spec.



Access to email, instant image and the Internet



Streaming music Streaming video



VoIP /Gaming /NAS

- 1 IEI Mobile Solutions
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- 5 Optional Peripherals

Ambient Light Sensor

The S12A built-in ambient light sensor automatically detects the amount of light in the viewing environment and auto-adjusts the brightness of the screen.

Benefits:

- Provides comfortable viewing and prevents eye strain
- Power saving
- Extended lamp life



Day Mode:
Adjust to maximum 1000 nits
Sunlight Readable automatically

Panel brightness auto-adjustment depends on the ambient light amount to save the system power

Night Mode:
Adjust to acceptable brightness automatically in a insufficient light ambient

CAN-Bus Automotive Applications

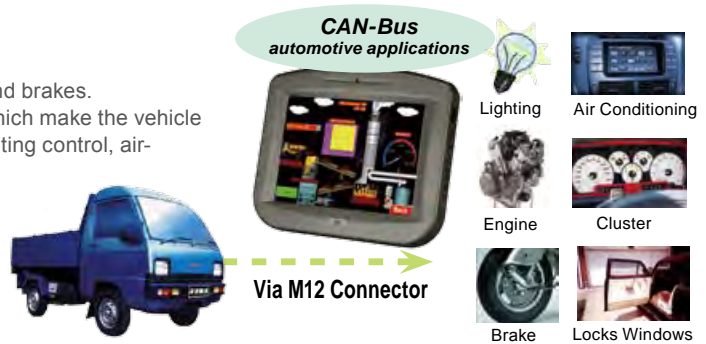
The S12A is equipped with automotive applied CAN-Bus interface. The Control Area Network (CAN) is a serial bus system, originally developed by Bosch for use in automobiles, and now is increasingly being used for control in industrial and automotive applications

Controller Area Network

- 1Mb/s data rate
- High reliability bus
- CAN is an open standard with many variants
- Capable of providing real-time communication.

■ CAN in cars and truck engine

- Networking controllers for engine timing, transmission, chassis and brakes.
- Networking components of chassis electronics and electronics which make the vehicle more comfortable. Examples of such multiplex applications are lighting control, air-conditioning, central locking and seat and mirror adjustment.



Other Application Fields:



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IEI Mobile Solutions

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Automation Panel Solutions

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Optional Peripherals

Reliable Die-Cast Aluminum Chassis

These ruggedized LCD products are designed for high reliability, shock and vibration tolerance, survival of high temperature, and corrosive environments. External materials like dust/water can be very destructive to any type of equipment over time.

■ Fanless and Completely Sealed Strong Housing

Sealed housing strictly prevents water invasion while the rugged die-cast aluminum enclosure eliminates the need for a fan as a heat dissipation device.

Fanless and Strong!



Operating Temperature: With on-board Intel® Atom™ Processor N270 1.6GHz
-10°C~50°C

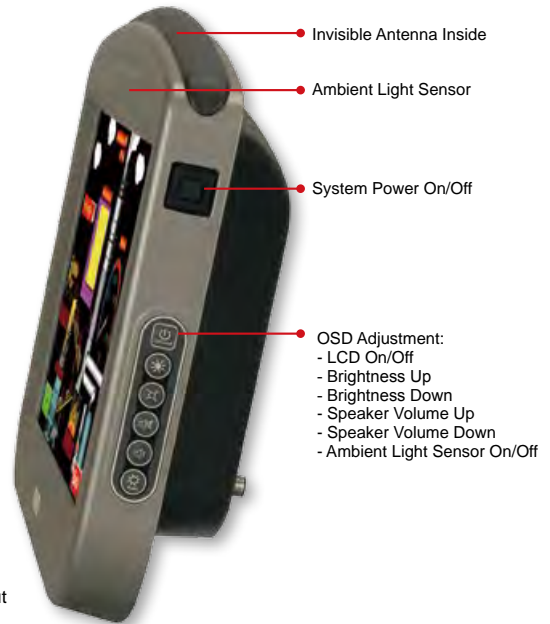
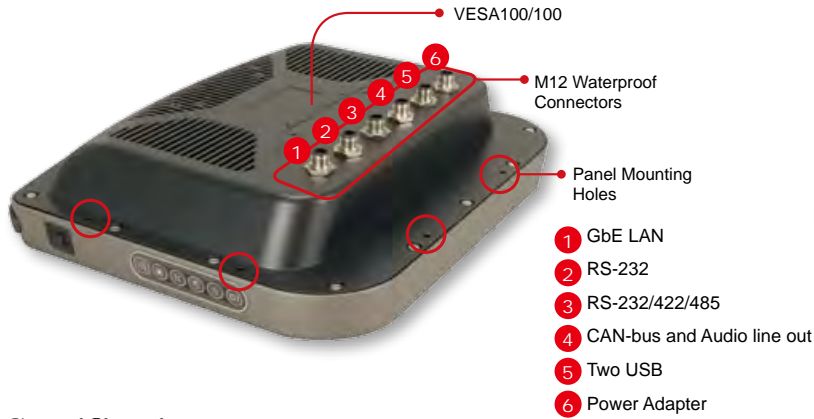
■ Rigorous Shock/Vibration Test

Compliant with MIL-STD-810F shock and vibration protection, as well as offering IP 67 water and dust proof front panel protection.



HDD install with anti-shock buffer rubber enhances protection performance.

Fully Integrated I/O



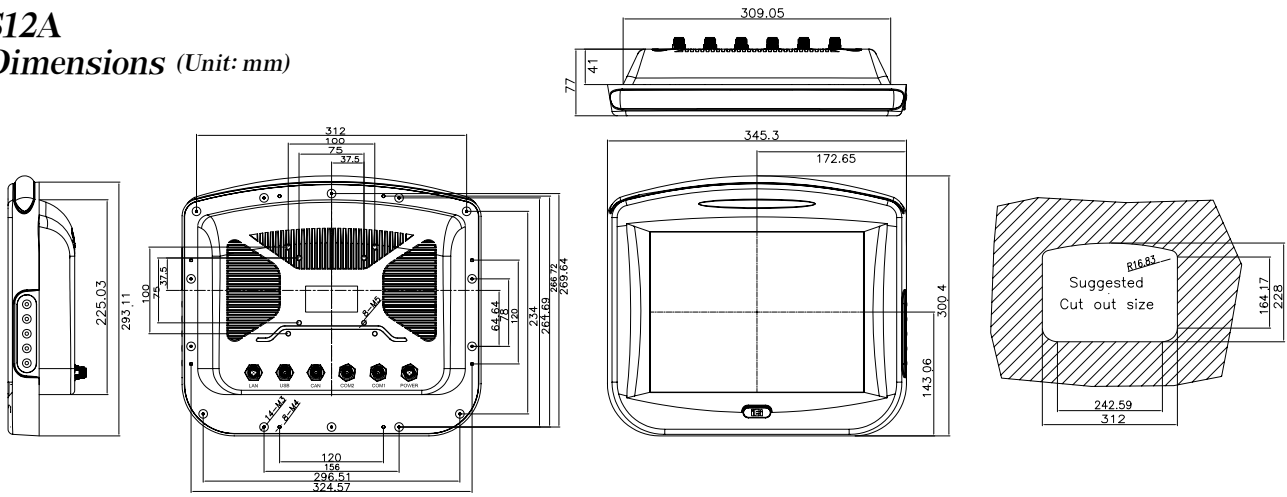
Specifications



Model		S12A-N270	S12ASR-N270
Display	LCD Size	12.1"	
	Max Resolution	1024 x 768	
	Brightness (cd/m ²)	500	1000
	Contrast Ratio	700:1	600:1
	LCD Color	16.2M	262K
	Pixel Pitch (mm)	0.3075 (H) x 0.3075 (V)	0.240 (H) x 0.240 (V)
	Viewing Angle (H-V)	160°/160°	130°/120°
	Backlight MTBF (hrs)	50000	60000
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface	
	Touch controller	PENMOUNT 6000	
Motherboard	CPU	Intel® Atom™ N270 1.6GHz CPU	
	Chipset	Intel® 945GSE + ICH7M	Intel® 945GSE + ICH7M
	RAM	One 400/533MHz DDR2 SO-DIMM (Max. 2GB)	
	Ethernet	Realtek RTL8111CP PCIe GbE controller	
	Audio Codec	Realtek ALC892 audio codec	
I/O Ports and Switches		1 x 5-pin M12 connector for Power Adapter	
		1 x 8-pin M12 connector for two USB	
		1 x 5-pin M12 connector for CAN-bus and Audio line out	
		1 x 8-pin M12 connector for UART RS-232/422/485	
		1 x 8-pin M12 connector for UART RS-232	
		1 x 8-pin M12 connector for GbE LAN	
Driver Bay	HDD Driver Bay	1 x 2.5" SATA HDD Bay	
	SSD	CF Type II	
Expansion Slot		1 x Wireless LAN Module (802.11 b/g/n) (internal PCIe Mini card interface)	
Physical	Construction Front Panel	Aluminum	
	Chassis Construction	Heavy-duty steel	
	Mounting	Panel, Rack, Stand and Arm VESA 100mm x 100mm	
	Front Panel Color	Silver (Pantone 8403C)	
	Dimensions (WxHxD) (mm)	345.3 x 300.4 x 77	
	Net/Gross Weight	4.2 Kg / 5.3 Kg	
Environment	Operation Temperature (°C)	-10°C ~50°C	-10°C ~50°C
	Storage Temperature (°C)	-20°C ~70°C	-20°C ~70°C
	Vibration	5~17Hz, 0.1" double amplitude displacement 17~640Hz, 1.5G acceleration peak to peak	
	Shock	10G acceleration part to part (11ms)	
Optional Power Supply		P/N: 63000-CLG60121C-RS - Input: 90VAC~264VAC, 50/60Hz - M12 waterproof connector 5P	- 60W Power Adapter - Output: 12VDC
Power Requirement		9~28VDC	
Front Panel Protection		IP 67 Compliant	
Power Consumption		33W	51W
Certificate		Meets CE, FCC, DNV	

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S12A Dimensions (Unit: mm)



Ordering Information

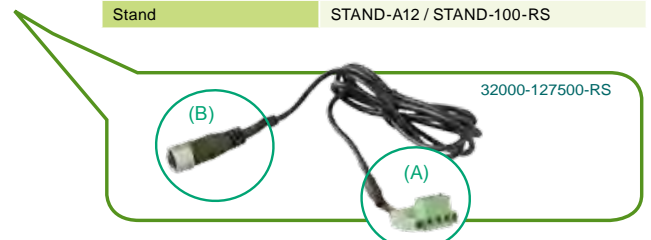
Part No.	Description
S12A/R/1/16-X-R30	12.1" 500 cd/m ² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 160GB SATA HDD with Windows XP Embedded operating system, R30
S12A/R/1/4-L-R30	12.1" 500 cd/m ² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 4GB compact flash with LINUX operating system, R30
S12A/R/1/16-L-R30	12.1" 500 cd/m ² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 160GB SATA HDD with LINUX operating system, R30
S12A/R/1/1-C6-R30	12.1" 500 cd/m ² IP67 panel PC with Intel® Atom™ N270, CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 1GB compact flash with Windows CE 6.0 operating system, R30
S12A/R/1/4-X-R30	12.1" 500 cd/m ² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 4GB compact flash with Windows XP Embedded operating system, R30
S12ASR/R/1/1-C6-R21	12.1" 1000 cd/m ² IP67 panel PC with Intel® Atom™ N270, CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 1GB compact flash with Windows CE 6.0 operating system, R21
S12ASR/R/1/4-X-R21	12.1" 1000 cd/m ² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 4GB compact flash with Windows XP Embedded operating system, R21
S12ASR/R/1/16-X-R21	12.1" 1000 cd/m ² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 160GB SATA HDD with Windows XP Embedded operating system, R21
S12ASR/R/1/4-L-R21	12.1" 1000 cd/m ² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 4GB compact flash with LINUX operating system, R21
S12ASR/R/1/16-L-R21	12.1" 1000 cd/m ² IP67 panel PC with Intel® Atom™ N270 CPU 1.6GHz, 802.11 b/g/n wireless module, touch screen, 1GB DDR2 553 MHz, M12 connectors and 160GB SATA HDD with LINUX operating system, R21

Packing List

Item	Part No.	Description
Panel mount screws pack	44013-030041-RS	
Power cable	32000-127500-RS	2000mm;16AWG; (A) terminal block connector; (B) M12 Waterproof connector
Utilities CD	7B000-000087-RS	
Touch Pen	XTR104-0002-RS	
One Key Recovery CD		

Options

Item	Part No.
Rack mounting kit	SAILORRK-12
ARM	ARM-11-RS / ARM-31-RS
Stand	STAND-A12 / STAND-100-RS



Optional cables and adapter

Item	Part No.
USB cable	CB-M12USB02-R10
RJ-45 LAN cable	CB-M12RJ45-R10
DB-9 COM port cable	CB-M12COM-R20
DB-9 CAN bus and AUDIO line-out cable	CB-M12ACAN-R20
AUDIO line-out cable	CB-M12AUDIO-R10
Water-proof power adapter	63000-CLG6012IC-RS



USB cable
(CB-M12USB02-R10)



RJ45 LAN cable
(CB-M12RJ45-R10)



DB-9 COM port cable
(CB-M12COM-R10)



DB-9 CAN bus and
AUDIO line-out cable
(CB-M12ACAN-R10)



AUDIO line-out cable
(CB-M12AUDIO-R10)



Water-proof Power Adapter
(63000-CLG6012IC-RS)

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

UPC-V315-QM77 NM70

15" Fully IP65 Aluminum Panel PC

- Intel Ivy Bridge mobile chipset (QM77/ NM70)
- 15" 400 nits 1024 x 768 LCD with LED backlight
- Full IP 65 compliant die-casting aluminum chassis
- PCIe mini card expansion
- Dual-DC input, 9V ~ 36V and 10.5V ~ 36V, switch automatically
- ACC power support
- Dual-band 2.4/5GHz Wi-Fi 802.11 a/b/g/n 3T3R MIMO design
- Reserved space for 3.75G / HSUPA USB dongle
- Optional GPS receiver
- Optional EM or Mifare RFID reader
- Optional Bluetooth module
- Built-in 2M pixels webcam with AF, AE and AWB capabilities
- CAN-bus interface with isolation
- F1 ~ F10 function keys with customization options

New



Various Connections Options

UPC-V315 provides different kinds of communication interfaces, such as LAN/ WLAN/ 3G/ GPS/ Bluetooth/ RFID, maximize flexibility of system integration and ensure seamless workflow.



Connection Feasibility



Dual-Band 2.4/5GHZ Wi-Fi

Dual-band 2.4G/5G 802.11 a/b/g/n 3T3R MIMO design with up to 450 Mbps speed



3.75G HSUPA (optional)

Compared to Wi-Fi wireless network, 3.75G HSUPA has higher mobility with long-range mobile communication and no hotspot limitation. It is also able to connect to the Internet in real time.



Bluetooth V2.1+EDR (optional)

Connect peripheral devices with Bluetooth, such as earphone, scanner, etc.



GPS (optional)

Travel navigation, real-time locating and path tracking

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACsmate Medical Solutions

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Optional Peripherals

Robust Mechanical Design

UPC-V315 is fully IP65 protected with aluminum chassis and water proof rubber gaskets. UPC-V315 also supports wide operating temperature from -20°C to 60°C.

-20°C  60°C



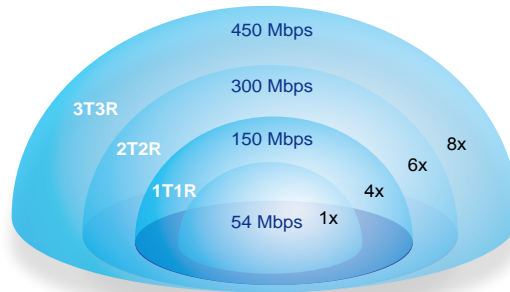
PCIe Mini Card Expansion

A. 3T3R WiFi Module

UPC-V315 supports IEEE 802.11a/b/g/n 3T3R WiFi module, enhancing the transmit speed and coverage.

T:Transmitter: the number T is absolutely relative with speed, 1T up to 150Mbps, 2T up to 300Mbps, 3T up to 450Mbps.

R:Receive: the number R is relative with receiving dead angle and distance. The higher R is, the wider the receiving range.



B. Solid State Disk mSATA

mSATA is compact, rugged, and much faster than traditional HDD, which is suitable for harsh environment.



C. 4 Channel Capture Card

UPC-V315-QM77 supports 4 channel video capture solution via PCIe mini card, which can easily integrate IP camera for surveillance and real-time video streaming.

QM77 Only



IVCME-C604



Forklift Management



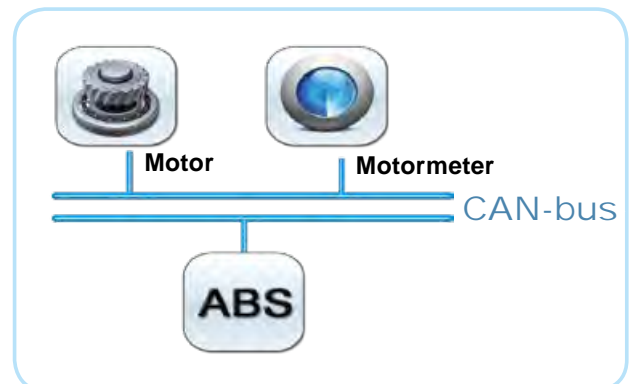
Slaughter House Factory



Flower Market Management

CAN-bus Interface with Isolation

The Control Area Network (CAN) is a serial bus system. The UPC-V312 on-board CAN controllers provide bus arbitration and error detection with an automatic transmission repeat function. This drastically reduces the chance of data loss, ensures system reliability, and is suitable for networking intelligent I/O devices such as sensors or actuator of machines or plants



1. Isolated protection voltage 2500V/min DC protection
2. Typical transient immunity 50 kV/ms ESD protection

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

Specifications

Model		UPC-V315-NM70	UPC-V315-QM77
Display	LCD Size	15 "	15 "
	Max Resolution	1024(W) x 768(H)	1024(W) x 768(H)
	Brightness (cd/m ²)	400	400
	Contrast Ratio	700:1	700:1
	LCD Color	16.2M	16.2M
	Pixel Pitch (mm)(HxV)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)
	Viewing Angle (V/H)	125°/ 140°	125°/ 140°
	Backlight MTBF (hrs)	50000	50000
Touch	Touch Screen	Resistive Type 5-Wire with RS-232 interface	Resistive Type 5-Wire with RS-232 interface
	Touch Controller	DMC 9000	DMC 9000
Motherboard	CPU	Intel® Celeron® Processor 847	Intel® Core™ i3-3217UE Processor
	Chipset	Mobile Intel® QM77 Express Chipset	Mobile Intel® QM77 Express Chipset
	RAM	Built in 1*2GB DDRIII memory (System Max. 8GB; on board Max. 4GB socket Max. 4GB)	Built in 1*2GB DDRIII memory (System Max. 8GB; on board Max. 4GB socket Max. 4GB)
	Ethernet	INTELWG82579LM GbE PHY	INTELWG82579LM GbE PHY
	Audio Codec	Realtek ALC892 HD audio codec	Realtek ALC892 HD audio codec
I/O Ports and Switches		3 x RS-232 (RJ-45) 1 x RS-422/485 (RJ-45) 1 x CAN-BUS 1 x VGA 1 x HDMI port 2 x GbE LAN 2 x USB2.0 2 x USB3.0 1 x Reset button 1 x Audio jack (Line out ,MIC) 1 x DC Jack (9~36V DC) 1 x Terminal block (9~36V DC) 1 x AT / ATX mode switch	3 x RS-232 (RJ-45) 1 x RS-422/485 (RJ-45) 1 x CAN-BUS 1 x VGA 1 x HDMI port 2 x GbE LAN 2 x USB2.0 2 x USB3.0 1 x Reset button 1 x Audio jack (Line out ,MIC) 1 x DC Jack (9~36V DC) 1 x Terminal block (9~36V DC) 1 x AT / ATX mode switch
System	Audio	AMP 3W + 3W (Internal Speaker)	AMP 3W + 3W (Internal Speaker)
	Camera	2M Mega Pixels	2M Mega Pixels
Connectivity	Wireless	IEEE 802.11a/b/g/n 3T3R module (WIFI-RT5393-DB-R10)	IEEE 802.11a/b/g/n 3T3R module (WIFI-RT5393-DB-R10)
	Bluetooth	Bluetooth V2.0+EDR with USB interface (optional)	Bluetooth V2.0+EDR with USB interface (optional)
	3G	Reserved USB connector (Optional)	Reserved USB connector (Optional)
	GPS	N/A	FV-W9U (Optional, internal USB header)
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shook	1 x 2.5" SATA HDD bay with anti-shook
	SSD	mSATA	mSATA
	CD-ROM Driver Bay	N/A	N/A
Expansion Slot		N/A	1 x PCIe Mini Card
System Cooling		Fanless	Fanless
Physical	Construction Material	Aluminium alloy	Aluminium alloy
	Mounting	VESA 100mm x100mm or 75mm x 75mm with M8 screws	VESA 100mm x100mm or 75mm x 75mm with M8 screws
	Front Panel Color	Orange (Paintone 15C)	Orange (Paintone 15C)
	Dimension (WxHxD) (mm)	427.19 x 330.63 x 77.06	427.19 x 330.63 x 77.06
	Net Weight	7.97KG	7.97KG
Environment	Operation Temperature	-20°C ~60°C	-20°C ~60°C
	Storage Temperature	-30°C ~75°C	-30°C ~75°C
	Operating Humidity	5% ~90%, non-condensing	5% ~90%, non-condensing
	Shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis	Half-sine wave shock 3G; 11ms; 3 shocks per axis
	Vibration	MIL-STD-810F 514.5C-1 (with CF card or SSD)	MIL-STD-810F 514.5C-1 (with CF card or SSD)
	IP Rating	Full IP 65	Full IP 65
Power	Adapter	90 W; 63040-010090-020-RS	90 W; 63040-010090-020-RS
	Requirement	9~36V DC	9~36V DC

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IEI Mobile Solutions

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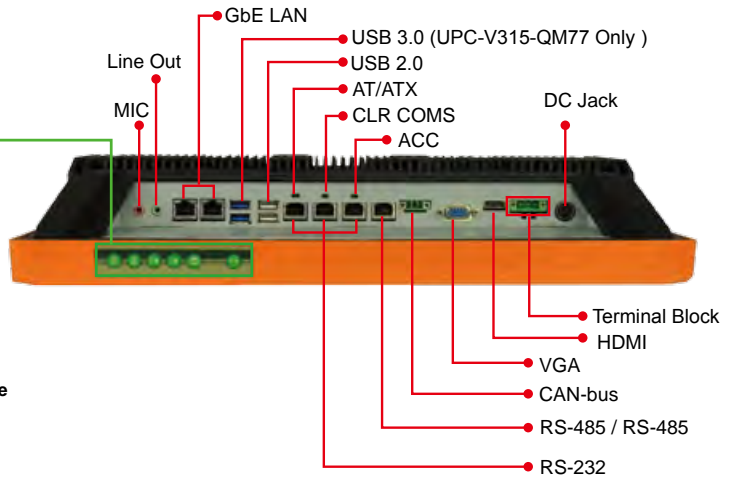
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Optional Peripherals

IO and Human Machine Interface



- Fn**
- Backlight On/Off** **Fn** + **RFID enable / disable**
- Audio -** **Fn** + **Audio mute**
- Audio +** **Fn** + **Camera enable / disable**
- Brightness -** **Fn** + **Right side USB enable / disable**
- Brightness +** **Fn** + **Power on / off**



Ordering Information

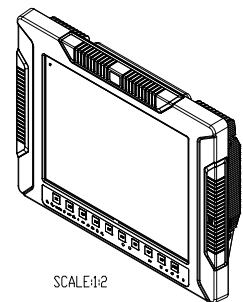
P/N	Description
UPC-V315-QM77/R/2G-R10	15" 400cd/m ² XGA fanless full IP65 panel PC with Mobile Intel® QM77 Express Chipset and Intel® Core™ i3-3217UE Processor, 802.11a/b/g/n wireless module, resistive touch screen, 2M camera,microphone,2GB DDR3 RAM, R10
UPC-V315-QM77/R-EM/2G-R10	15" 400cd/m ² XGA fanless full IP65 panel PC with Mobile Intel® QM77 Express Chipset and Intel® Core™ i3-3217UE Processor, 802.11a/b/g/n wireless module, resistive touch screen, 2M camera,microphone,2GB DDR3 RAM, EM card reader, R10
UPC-V315-QM77/R-MF/2G-R10	15" 400cd/m ² XGA fanless full IP65 panel PC with Mobile Intel® QM77 Express Chipset and Intel® Core™ i3-3217UE Processor, 802.11a/b/g/n wireless module, resistive touch screen, 2M camera,microphone,2GB DDR3 RAM, Mifare card reader, R10
UPC-V315-NM70/R/2G-R10	15" 400cd/m ² XGA fanless full IP65 panel PC with Mobile Intel® NM70 Express Chipset and Intel® Celeron® Processor 847, 802.11a/b/g/n wireless module, resistive touch screen, 2M camera,microphone,2GB DDR3 RAM, R10
UPC-V315-NM70/R-EM/2G-R10	15" 400cd/m ² XGA fanless full IP65 panel PC with Mobile Intel® QM77 Express Chipset and Intel® Celeron® Processor 847, 802.11a/b/g/n wireless module, resistive touch screen, 2M camera,microphone,2GB DDR3 RAM, EM card reader, R10
UPC-V315-NM70/R-MF/2G-R10	15" 400cd/m ² XGA fanless full IP65 panel PC with Mobile Intel® QM77 Express Chipset and Intel® Celeron® Processor 847, 802.11a/b/g/n wireless module, resistive touch screen, 2M camera,microphone,2GB DDR3 RAM, Mifare card reader, R10

Packing List

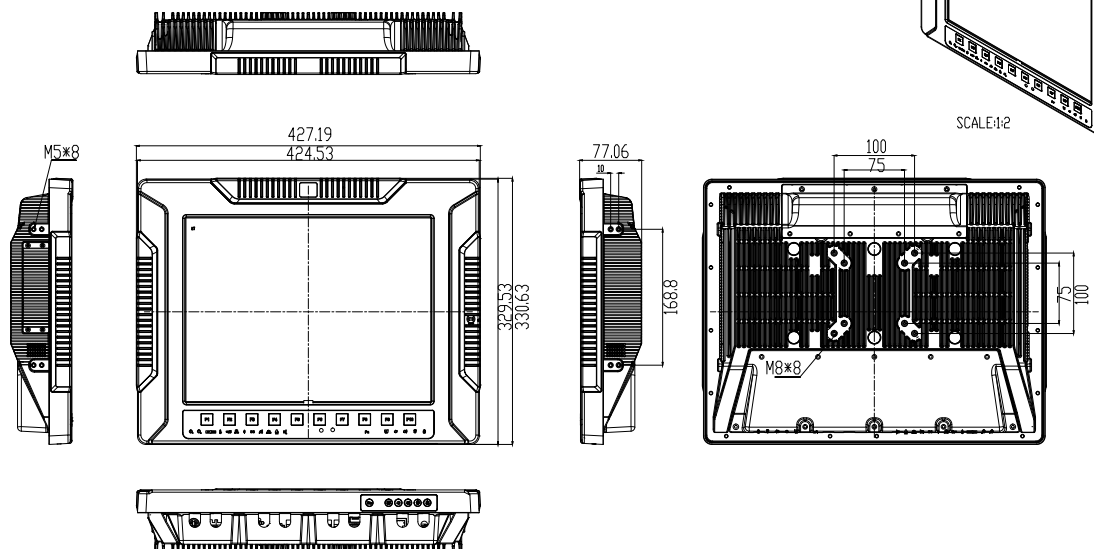
Item	P/N	Q'ty
Utility CD		1
One Key Recovery CD		1
IR Remote Controller	7Z000-SLPCB005-RS	1
RJ-45 to DB-9 COM Port Cable	32005-000200-200-RS	4
M8 Screw	44325-080081-RS	8
M4 Screw	44005-040082-RS	8
Mounting Bracket		2
Screw Driver	45019-001004-00	1
Power Adapter	63040-010065-010-RS	1
Power Cord (European Standard)	32702-000401-100-RS	1
Power Transfer Cord	32702-000300-100-RS	1
M8 to M4 Screw	44300-040061-RS	8

Options

Item	P/N
ARM	ARM-31-RS
Wall Mounting Kit	AFLWK-19/AFLWK-19B
Stand	STAND-C19/STAND-100/STAND-210
GPS Module Kit	UPC-GPS-KIT01-R10
Bluetooth Module Kit	UPC-BT-KIT01-R10



Dimensions (Unit: mm)



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACsmate Medical Solutions

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Optional Peripherals

UPC-V312-D525 12.1" Aluminum Rugged Panel PC

- Fully IP 65 compliant with fanless Intel® Atom™ D525 1.8GHz dual-core processor
- 12.1" 600 nits 1024 x 768 LCD with LED backlight
- TWIN-DC input, 9V ~ 36V and 10.5V ~ 36V, switch automatically
- Dual-band 2.4/5GHz Wi-Fi 802.11 a/b/g/n 3T3R MIMO design
- Reserved space for 3.75G / HSUPA USB module
- Optional GPS receiver
- Optional EM or Mifare RFID reader
- Optional Bluetooth module
- Built-in 1.3M pixels webcam with AF, AE and AWB capabilities
- CAN-bus interface with isolation
- Robust die-casting aluminum chassis



Specifications

Model Name		UPC-V312-D525-R10
Display	LCD Size	12.1"
	Max Resolution	1024(W) x 768(H)
	Brightness (cd/m ²)	600
	Contrast Ratio	700:1
	LCD Color	16.2M
	Pixel Pitch (mm) (HxV)	0.24(H) x 0.24(V)
	Viewing Angle (V/H)	150° / 130°
Touch	Backlight MTBF (hrs)	50000
	Touch screen	Resistive Type 5-Wire with RS-232 interface
Motherboard	Touch controller	DMC 9000
	SBC	UPC-12AT-D525-R10
	CPU	Intel® Atom™ D525 1.8GHz dual-core processor
	Chipset	Intel® ICH8M
	RAM	On-board 1G DDR3 SO-DIMM (System Max. 1GB)
I/O Ports and Switches	Ethernet	Realtek RTL8111CP PCIe GbE controller
	Audio Codec	Realtek ALC888 audio codec
Driver Bay	RS-422/485 (4-pin box header)	
	RS-232 (DB-9 connector)	
	CAN-bus (3-pin terminal block)	
	GbE LAN (RJ-45 connector)	
	4 x USB connector	
	Audio jack (Line-out, Mic)	
	VGA port (DB-15 connector)	
Physical	DC-IN 1 (terminal block) / DC-IN 2 (DC Jack)	
	Reset button	
	AT/ATX switch	
Expansion Slot	HDD Drive Bay	N/A
	SSD	CF Type II socket
System Cooling	CD-ROM Drive Bay	N/A
	Construction Front Panel	Aluminum Die-Casting
	Chassis Construction	Extruded Aluminum Alloy
	Mounting	VESA 100mm x 100mm and 75mm x 75mm with M8 screws
	Front Panel Color	Orange (Pantone 151C)
	Dimensions (WxHxD) (mm)	338.5 x 276.25 x 62.86
	Cut Out Dimensions (WxH) (mm)	338.5 x 276.25
Environment	Net / Gross Weight	4.5 kg/ 6.8 kg
	Operating Temperature	-20°C~60°C
Power	Storage Temperature	-40°C~85°C
	Vibration	MIL-STD-810F 514.5C-2 (with CF card or SSD)
	Shock	Half-sine wave shock 3G; 11ms; 3 shocks per axis
	IP Level	Full IP 65
	Safety & EMC	CE / FCC
Power	Adapter	65W power adapter
	Requirement	Input: 90VAC~264VAC, 50/60Hz, Output: 19V DC Power 1: 9 (+/-0.3)~36V Power 2: 10.5 (+/-0.3)~36V
	Consumption	52W

- 1 IEI Mobile Solutions
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- 3 RISC-based Solutions
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- 5 Optional Peripherals

Ordering Information

Part No.	Description
UPC-V312-D525/R-EM/2G-R11	12.1" 600cd/m ² XGA fanless full IP 65 panel PC with Intel® Atom™ D525 dual core 1.8GHz,802.11a/b/g/n wireless module, resistive touch screen,2M camera, microphone,2GB DDR3 RAM, EM card reader, R11
UPC-V312-D525/R-MF/2G-R11	12.1" 600cd/m ² XGA fanless full IP 65 panel PC with Intel® Atom™ D525 dual core 1.8GHz,802.11a/b/g/n wireless module, resistive touch screen,2M camera, microphone,2GB DDR3 RAM, Mifare card reader, R11
UPC-V312-D525/R/2G-R11	12.1" 600cd/m ² XGA fanless full IP 65 panel PC with Intel® Atom™ D525 dual core 1.8GHz,802.11a/b/g/n wireless module, resistive touch screen,2M camera, microphone,2GB DDR3 RAM, R11

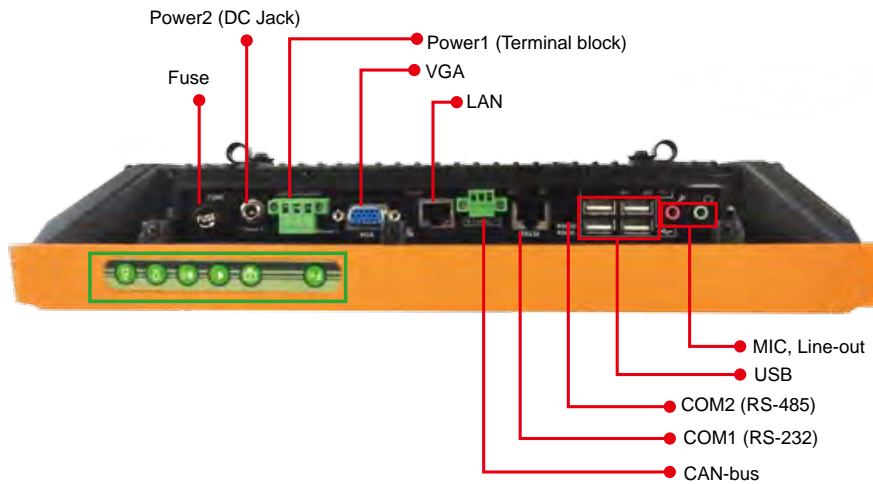
Options

Item	P/N
ARM	ARM-11-RS/ARM-31-RS
Wall Mounting Kit	AFLWK-19/ AFLWK-19B/ AFLWK-12
Stand	STAND-A19/STAND-B19/STAND-210-R11
GPS Module Kit	UPC-GPS-KIT01-R10
Bluetooth Module Kit	UPC-BT-KIT01-R10
OS: Win CE 6.0 (128MB CF Card)	UPCCF-V312-D525-CE060-128M-R10
OS: Win XPE (2GB CF Card)	UPCCF-V312-D525-XPE-2G-R10
OS: Win XPE (4GB CF Card)	UPCCF-V312-D525-XPE-4G-R10
OS: Linux (2GB CF Card)	UPCCF-V312-D525-LNX-2G-R10
OS: Win 7 Embedded (4GB CF Card)	UPCCF-V312-D525-WES7E-4G-R10

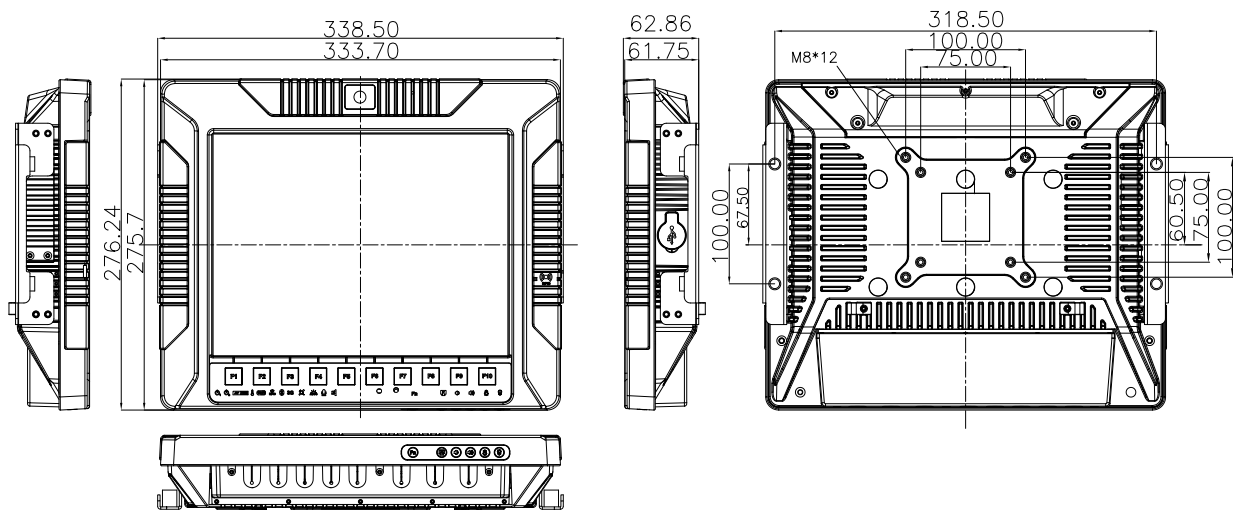
Packing List

Item	P/N	Q'ty
Utility CD	7B000-000741-RS	1
One Key Recovery CD		1
IR Remote Controller	7Z000-SLPCB005-RS	1
RJ-45 to DB-9 COM Port Cable	32005-000200-200-RS	1
M8 Screw	44325-080081-RS	8
M4 Screw	44005-040082-RS	8
Mounting Bracket	41003-0382C2-00-RS	2
Screw Driver	45019-001004-00	1
Power Adapter	63040-010065-010-RS	1
Power Cord (European Standard)	32702-000401-100-RS	1
RS-422 Cable	32205-002400-100-RS	1
Power Transfer Cord	32702-000300-100-RS	1
M8 to M4 Screw	44300-040061-RS	8

I/O Interface



UPC-V312 Dimensions (Unit: mm)



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Optional Peripherals

UPC-12A 12.1" Aluminum UPS Panel PC with Smart Battery Backup



- 12.1" all-in-one PPC with touch technology
- 1000 nits sunlight readable panel available
- Powerful all-in-one panel PC
 - Intel® GM45 chipset and 45nm mobile Core™2 Duo processor support
- Battery backup power protects your productivity from the constant threat of power outages and loss data
- Ambient light sensor detects ambient light for automated screen adjustments to optimize viewing. (0%~100% brightness control for sunlight readable version)
- 802.11 b/g/n Wi-Fi support
- PCI expansion slot for adding more capacity (optional PCI express expansion interface)
- Standard VESA 75/100 mounting
- Robust die-cast aluminum chassis
- IP 65 compliant aluminum compliant front panel



Smart Battery

Wireless 802.11 b/g/n

Sunlight Readable

Touch Screen

PCI/PCIe Expansion

One Key Recovery

IEI symantec

Specifications

Model		12.1" Regular Brightness	12.1" Sunlight Readable
		UPC-12A/GM45	UPC-12AH/GM45
Display	LCD Size	12.1"	12.1"
	Max Resolution	1024 x 768	1024 x 768
	Brightness (cd/m ²)	450	1000
	Contrast Ratio	700:1	500:1
	LCD Color	262k	262k
	Pixel Pitch (mm)	0.240(H) x 0.240(V)	0.240(H) x 0.240(V)
	Viewing Angle (H-V)	150° / 150°	120° / 120°
	Backlight MTBF	50000hrs	50000hrs
Touch	Touch screen	Resistive Type 5-Wire with RS-232 interface	
	Touch controller	DMC 9000	
Motherboard	CPU	Intel® Core™2 Duo P8400 2.26GHz Intel® Celeron® M 575 2.0GHz Intel® Core™2 Duo T9400 2.53GHz	Intel® Core™2 Duo P8400 2.26GHz Intel® Celeron® M 575 2.0GHz Intel® Core™2 Duo T9400 2.53GHz
	Chipset	Intel® GM45 Chipset + ICH9M	
	RAM	two DDR2 SO-DIMM Up to 4GB	
	Ethernet	Realtek RTL8111CP PCIe GbE controller	
	Audio Codec	Realtek ALC888 audio codec	
I/O		3 x RS-232 COM 1 x RS-232/422/485 COM 2 x RJ-45 Giga LAN 6 x USB 2.0 (2 waterproof USBs in front of the panel) 1 x VGA 1 x Power Switch 2 x Audio Jack (Line-out, Mic-in) 1 x Reset Button	1 x COM Clear Button 1 x 9-28VDC Power Jack 1 x Power Mode Switch (Battery or DC input) 1 x 9-28VDC Power Input Terminal Block 1 x Networking UPS Management Port by RJ-45 Ethernet 1 x Remote COM port by RJ-45 connector 1 x AT Mode UPS Switch (2 pin terminal block)
	Expansion	1 x PCI, 1 x PCIe x1 (Optional), 1 x PCIe Mini (Wireless LAN Module)	
LED Indicator	Power LED / HDD Status / Charging / Discharging / Light Sensor		
Membrane Keypad	LCD On/Off; Brightness Up/Down; Volume Up/Down; Auto Dimming On/Off; Battery Low Beeper (under 10% batter capacity beeper on/off)		
Drive Bay	SSD	CF Type II	
	HDD	1 x 2.5" SATA HDD bay	
Battery	Capacity	14.8V, 3800 mAh	
	UPS run-time	40 mins	40 mins
		50 mins	30 mins
		40 mins	40 mins
Physical	Construction Material	Aluminum Die-casting	
	Mounting	VESA 100 mm x100 mm	
	Front Panel Color	Orange (Pantone 151C)	
	Dimensions (WxHxD) (mm)	335 x 280 x 119	
	Operation Temperature (°C)	-10°C~55°C	
	Storage Temperature (°C)	-20°C~70°C	
Environment	Net/Gross Weight	5.8 Kg / 6.9 Kg	
	IP Level	IP 65 Compliant front panel	
	Safety & EMC	CE, FCC	
	Touch Screen	Resistive Type 5-Wire (Touch controller IC is on board)	
Power Requirement	9-28VDC		
Power Consumption		63W	73W
		60W	70W
		65W	74W

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Optional Peripherals

Ordering Information

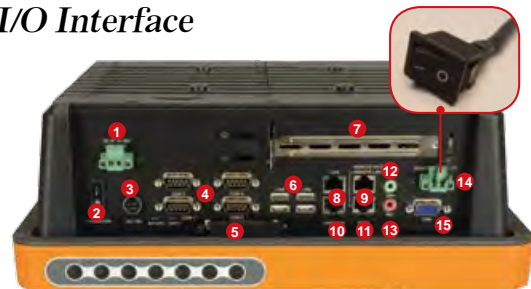
Part No.	Description
450 nits	UPC-12A/GM45-CM5R/1G-R21 12.1" 450cd/m ² XGA panel PC with Intel® Celeron® M 575 2GHz CPU , 100W UPS with 14.8V, 3800mAh, 1GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
	UPC-12A/GM45-P84R/2G-R21 12.1" 450cd/m ² XGA panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 100W UPS with 14.8V, 3800mAh, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
	UPC-12A/GM45-T94R/2G-R21 12.1" 450cd/m ² XGA panel PC with Intel® Core™2 Duo T9400 2.53GHz CPU, 100W UPS with 14.8V, 3800mAh, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
1000 nits	UPC-12AH/GM45-CM5R/1G-R12 12.1" 1000 cd/m ² XGA panel PC with Intel® Celeron® M 575 2GHz CPU , 100W UPS with 14.8V, 3800mAh, 1GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
	UPC-12AH/GM45-P84R/2G-R12 12.1" 1000 cd/m ² XGA panel PC with Intel® Core™2 Duo P8400 2.26GHz CPU, 100W UPS with 14.8V, 3800mAh, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless
	UPC-12AH/GM45-T94R/2G-R12 12.1" 1000 cd/m ² XGA panel PC with Intel® Core™2 Duo T7500 2.2GHz CPU, 100W UPS with 14.8V, 3800mAh, 2GB DDR2 RAM and touch screen, 802.11 b/g/n wireless

Packing List

Item	Part No.	Q'ty	Specifications
Screws Pack	44003-050501-RS	4	M5; 5mm
RJ45 to DB9 COM port cable	32000-089201-RS	1	
Power Adpater	63040-010096-010-RS	1	90~264V AC; 12V DC; 96W
Power Cord	32000-000002-RS	1	1750mm; European Standard
Utilities CD	7B000-000087-RS	1	
Touch Pen	XTR104-0002-RS	1	-
Wi-Fi 802.11 b/g/n PCIe Mini card	7F900-Q802XKN-RS		
Smart battery pack	BAT-LI-4S2P3800A		Lithium ion Battery 4S2P, 3800mAh, FOR UPC Series
One Key Recovery CD		1	

Note: Connect DC input continuously. Battery will be drained after 14 hours.

I/O Interface



- 1 9~28VDC Input
- 8 2 x RJ-45 Giga LAN
- 2 Power Switch
- 9 Remote RS-232, Remote LAN
- 3 DC 12V Power Jack
- 10 Clear CMOS
- 4 3 x RS-232 COM, 1 x RS-232/422/485 COM
- 11 Reset
- 5 User-accessible CF
- 12 Line-out
- 6 4 x USB2.0
- 13 Mic-in
- 7 1 x PCI Expansion Slot
(Optional PCIe x1 expansion)
- 14 AT Mode UPS Switch
- 15 VGA Output

Options

Model	UPC-12A-910	UPC-12A-GM45	UPC-12AH-GM45
Panel mounting kit		UPCPK-12	
Wall mounting kit		AFLWK-19	
Rack mounting kit		UPCRK-12	
ARM		ARM-11-RS / ARM-31-RS	
Stand		STAND-A19 / STAND-B19 / STAND-210-R11	
OS: Win CE 6.0	UPCCF-12-910-CE060-R20	N/A	N/A
OS: Win XPE	UPCCF-12-910-XPE-R20	UPCCF-12-GM45-XPE-R20	UPCCF-12-GM45-XPE-R20
Battery Pack		BAT-LI-4S2P3800A (14.8V, 3800mAh)	
PCIe x 1 Riser Card		034D335-00-100-RS	

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IEI Mobile Solutions

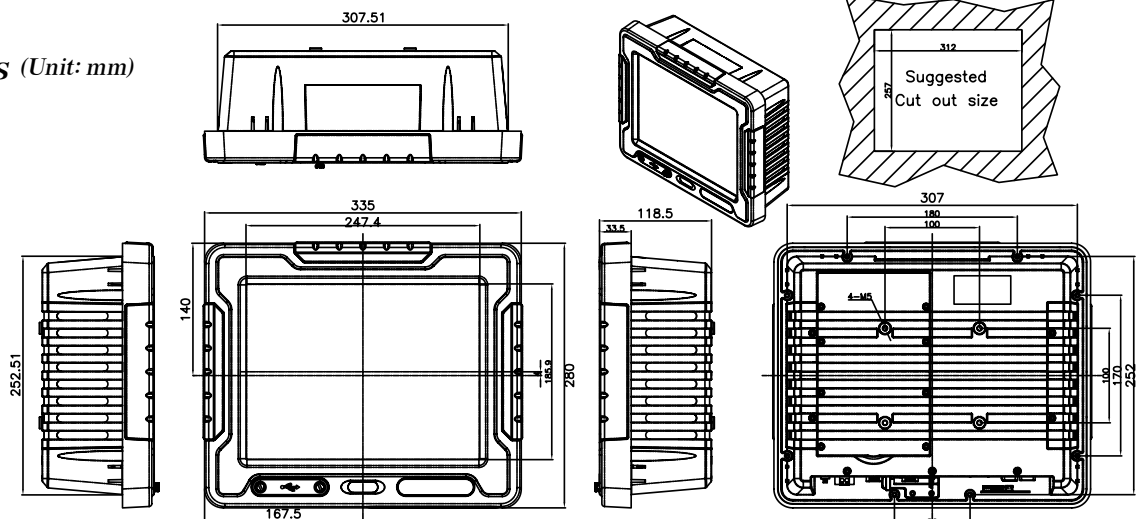
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Optional Peripherals

UPC-12A Dimensions (Unit: mm)



Display Workstation Solutions

IEI industrial workstations are PCs with built-in touch screens. The workstations use either a micro-ATX motherboard or a backplane with a CPU card.



>> Industrial Workstation Series

Features

- Excellent expansion capability for full/half size CPU cards
- Compact die-cast aluminum front panel and integrated LCD back frame
- Front panel, membrane keys, mouse pad and drive-bay enclosure meet IP 64 / IP 65 standard for tough environment



>> Rack mount Workstation Series

Backplane



Full Size/Half Size SBC



Product Line	WS-series		RPC-series	
	IP 64 Waterproof Workstation with Membrane Keypads		Easy Rackmount Workstation with OSD Functions	
LCD Size		Model / Mechanism		
6.5"	640 x 480		EC-1040G (4U 14-slot full-size)	
8.4"	800 x 600		RPC-6010G (4U 14-slot full-size)	
10.4"	800 x 600	WS-612GS (6U 7-slot)		
12.1"	1024 x 768	WS-843GS (7U 10-slot)		RPC-6022G (5U 14-slot)
15"	1024 x 768	WS-855GS (8U 10-slot/m-ATX MB)		
17"	1280 x 1024	WS-875GS (9U 10-slot/m-ATX MB)		

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Optional Peripherals

Industrial Workstation Series

10.4" ~ 17" IP 64 Waterproof Workstation: Robust, Shock Resistant



Features

1. Die-cast aluminum front panel with integrated LCD screen
2. New robust chassis and retention kit structure for shock and vibration
3. Front panel, membrane keys, mouse pad and drive-bay enclosure meet IP 64 standard for tough environment
4. Full function membrane keys and submerged OSD controller
5. Advanced thermal and air-flow design
6. Analog VGA interface supports all CPU boards

Features

IP 64 waterproof front panel, membrane keys, mouse pad & drive-bay

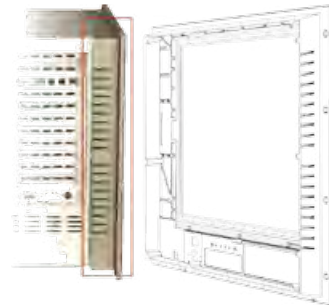
The industrial workstation's front cover is IP 64 compliant. The front cover is completely protected against the entry of dust and water sprayed from any direction.



Water Proof key lock and drive bay cover

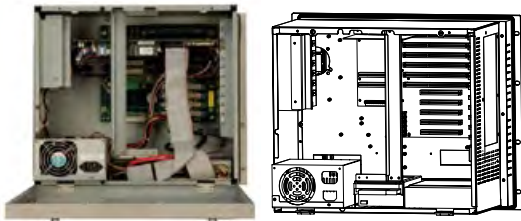
Compact die-cast aluminum front panel and integrated LCD back frame

Rack or wall mount systems always apply the whole system weight on the front bezel and LCD container. One piece design has higher strength and lighter weight because of aluminum die casting.



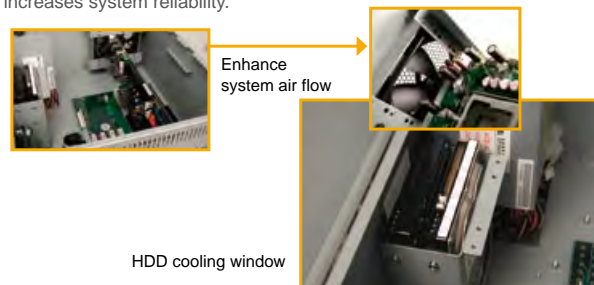
New robust chassis and retention kit structure to against shock and vibration

The whole chassis and retention kit are designed to be sturdy and rugged. The whole chassis has less joints and connections to increase resistance to shock and vibration.



Enhanced thermal management

Built-in fans and hard drive cooling ensure that temperatures stay within operating range at all times. This extends product life and increases system reliability.

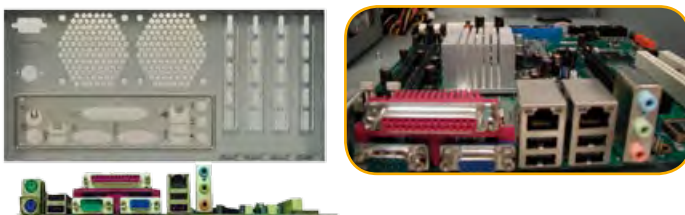


Enhance system air flow

HDD cooling window

CPU card and Micro-ATX support

The WS-855GS, WS-875GS and WS-895GS can support MicroATX motherboards. MicroATX motherboards are widely used and offer a larger range of options to suit the needs of the system.



Optional RS-232 interface touch screen

The WS series provides an RS-232 port reserved for touch screen. IEI Workstation provides T-R model with high strength Fiber Glass Touch Screen applications.



Optional RS-232 port

Complete drive support

The industrial workstations support 3.5" and 5.25" drives, and a floppy drive.



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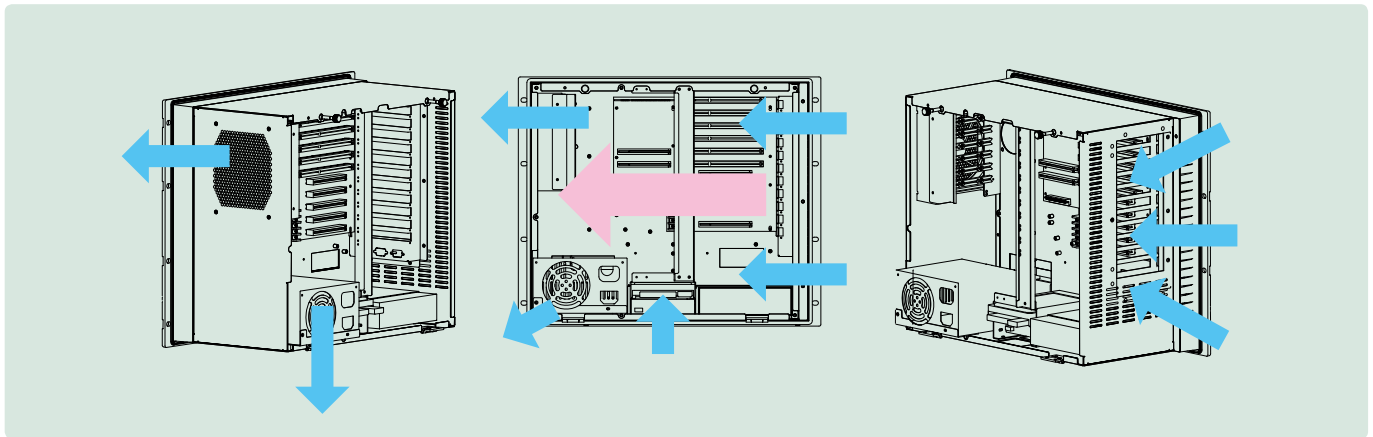
PACSmate Medical Solutions

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Optional Peripherals

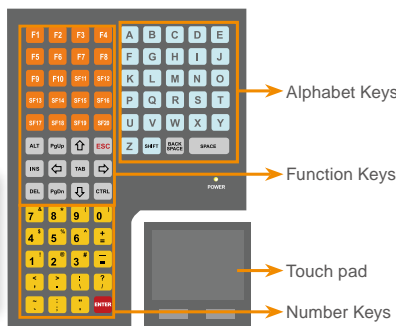
Advanced thermal and air-flow design

Thermal issues are an important issue for modern industrial PCs. The industrial workstation is designed so air flows through the computer, fresh, cool air in the one side, and warm air out the other.

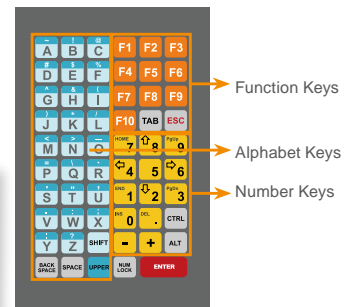


Full function Membrane keys & submerged OSD controller

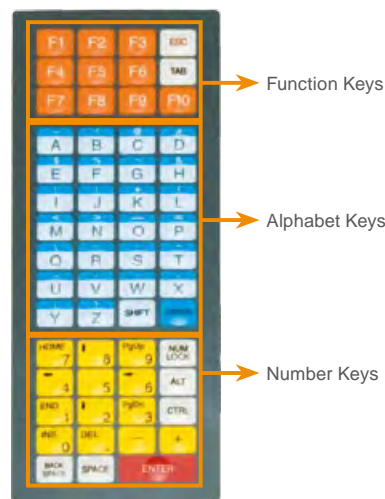
• WS-612GS



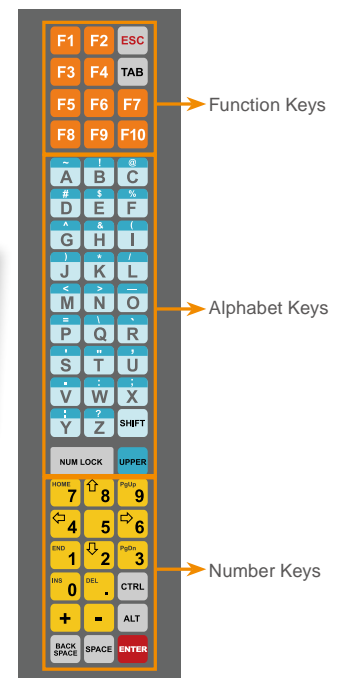
• WS-843GS



• WS-855GS



• WS-875GS



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Optional Peripherals

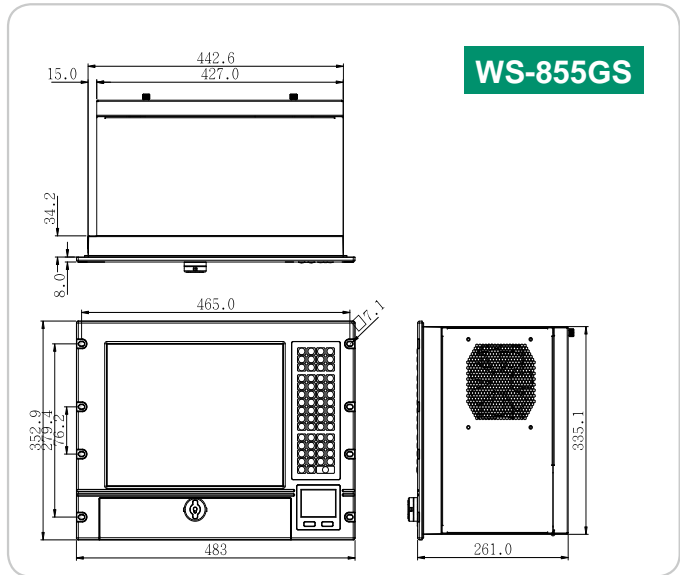
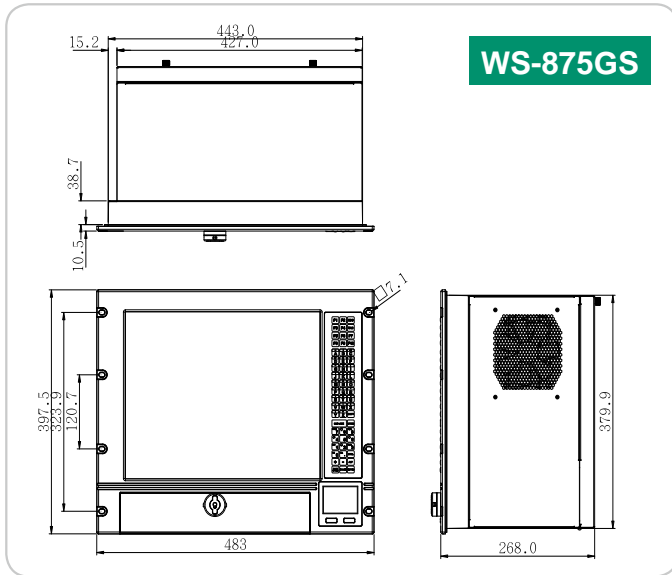
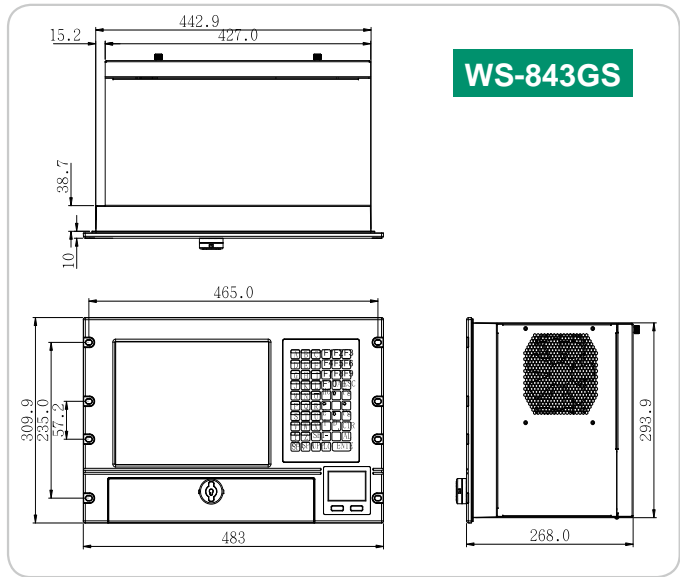
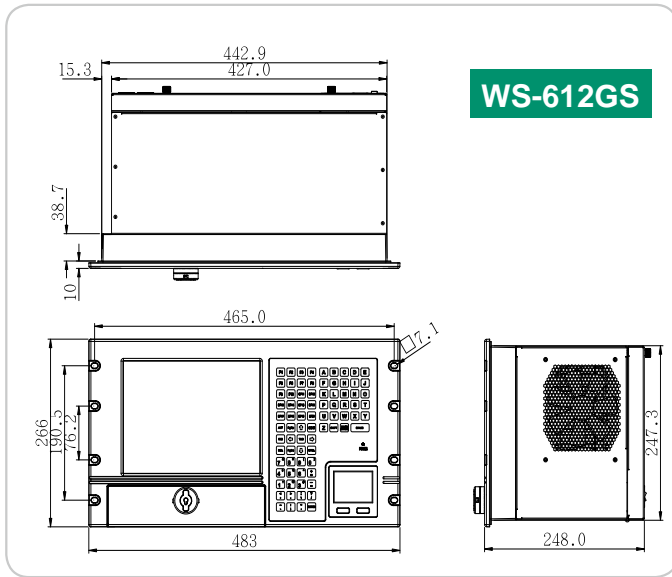
Industrial Workstation Selection Guide



Model	WS-612GS	WS-843GS	WS-855GS	WS-875GS
LCD Size	10.4"	12.1"	15"	17"
Resolution	800 x 600	1024 x 768	1024 x 768	1280 x 1024
Brightness (cd/m ²)	400	500	350	300
Contrast	700:1	700:1	400:1	500:1
LCD color	262K	262K	262K	16.2M
Backlight Hours	50000 (LED Backlight)	50000 (LED Backlight)	50000	50000
Input Interface	Analog VGA (DB-15)			
Slot	7 slots	10 slots	10 slots / MB	10 slots / MB
Form Factor	Full / half size SBC		Full / half size SBC / m-ATX motherboard	
Mounting	19" rack mount			
Rack Height	6U	7U	8U	9U
Front Frame	Aluminum			
IP Level	IP 64			
Keypad	63 Keys	59 Keys	59 Keys	59 Keys
Function Key	20 Keys	10 Keys	10 Keys	10 Keys
Touch Pad	Yes			
Front Panel USB	4	2	2	2
HDD Drive Bay	1 x 3.5" HDD	1 x 3.5" HDD	1 x 3.5" HDD	1 x 3.5" HDD
CD-ROM Drive Bay	N/A	1 x 5.25" CD-ROM	1 x 5.25" CD-ROM	1 x 5.25" CD-ROM
FDD Bay	1 x 3.5" FDD	1 x 3.5" FDD	1 x 3.5" FDD	1 x 3.5" FDD
System Fan	12cm ball bearing 99.6 CFM fan			
Touch Screen	5-wire resistive touch screen			
Vibration	5 ~ 17 Hz, 0.1" double amplitude displacement / 17~640 Hz, 1.5G acceleration peak to peak			
Shock	10G acceleration peak to peak (11ms)			
Relative Humidity	5 ~ 95%, non-condensing			
Operating Temperature	0°C ~ 50°C			
Color	Silver (Pantone PMS-8001)			
Dimensions (W x H x D) (mm)	483 x 266 x 248	483 x 310 x 268	483 x 353 x 261	483 x 398 x 268
Weight (NW / GW)	9.2 / 14.4 kg	10.7 / 17.2 kg	12 / 18.2 kg	14.2 / 20.6 kg
Recommended Backplane	PCI-7S, IP-7S, BP-7S, PCIAGP-6S, HPE-7S1, PE-6S/7S, PE-7S2	PCI-10S/10S2, PX-10S, PE-10S, IP-10S, IPX-9S, BP-10S, HPE-7S1/8S, PE-6S / 7S / 7S2 / 8S / 9S /10S		
Recommended microATX MB	N/A		IMB-9454, IMB-G41A	
Power Supply	ACE-916A(AP)-RS (AT), ACE-A618A-RS-R11, ACE-4520C-RS, ACE-A225A-R10, ACE-815C(T)-RS, ACE-615A-RS-R11	AT: ACE-925A(AP/AP-U/M)-RS, ACE-932A-RS, ACE-935AL-RS, ACE-T140A-RS, ATX: ACE-4860AP-RS, ACE-828A(A/M/V)-RS, ACE-A130B-R10, ACE-A140A-R10, ACE-A140A-S-R10, ACE-A160A-R10		

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- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Dimensions (Unit: mm)



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Optional Peripherals

Ordering Information

Part NO	Description
WS-612GS / A225A / R-R20	6U 10.4" 400cd/m ² SVGA LCD 8-slot industrial workstation, aluminum front, silver color, W/ACE-A225A, W/10.4" touch screen, RoHS
WS-843GS / A130B / R-R20	7U 12.1" 500cd/m ² XGA LCD 10-slot industrial workstation, aluminum front, silver color, W/ACE-A130A/12.1" touch screen, RoHS
WS-855GS / A130B / R-R20	8U 15" 350cd/m ² XGA LCD 10-slot industrial workstation with ACE-A130B-R10 300W ATX with PFC power supply and 15" resistive touch screen, RoHS
WS-855GSATX / A130B / R-R20	8U m-ATX 15" 350cd/m ² XGA LCD workstation with ACE-A130B-R10 300W ATX with PFC power supply and 15" resistive touch screen, M-ATX version
WS-875GS / A130B / R-R20	9U 17" 300cd/m ² SXGA TFT LCD workstation with ACE-A130B-R10 300W ATX with PFC power supply and 17" resistive touch screen
WS-875GSATX / A130B / R-R20	9U 17" 300cd/m ² SXGA LCD workstation with ACE-A130B-R10 300W ATX with PFC power supply and 17" resistive touch screen, M-ATX version

Packing List

Part Number	Description	Amount	Remark
32000-000002-RS	AC Power Cable	1	Standard Packing, for Europe, 32000-000004-RS for South Africa 32000-000022-RS for Australia, 32000-000025-RS for America 32000-000026-RS for Switzerland
32000-101200-RS	VGA Cable	1	A)D-SUB 15P MALE 90°(B)D-SUB 15PIN MALE
32100-034801-RS	PS_ON Cable for ATX signal	1	
41015-0003C0-00-RS	Press Stick Kit (Long)	4	
41015-0004C0-00-RS	Press Stick Kit (Short)	3	
47001-000101-RS	Press Stick Rubber	7	
	User Manual	1	
32000-075000-RS	KeyPad / MousePad PS/2 Cable	1	For SBC Models
32000-078400-RS	KeyPad / MousePad PS/2 Cable	1	For m-ATX (Motherboards) Models
32000-101100-RS	RS-232 Cable / Touch Pen / Driver CD-ROM for Touch Screen	1	(A)D-SUB 9P MALE 90°(B)D-SUB 9PIN FEMALE

EC-1040G

4U 14-slot Rackmount LCD Workstation



Features

1. 6.5" TFT LCD with OSD control panel
2. Multi-function thermal alarm system
3. Optional KM-088G (keyboard and touch pad module)
4. Flexible driver combination
5. PICMG 1.3 backplane and redundant power supply support
6. Advanced air-flow design

Backplane & Power Supply Options

Backplane Model No.	SBC Type	PCI	ISA	PCIe			PSU Connector
				X1	X4	X16	
PCI-13SD-RS-R40	PICMG 1.0	3+4	3+3	0	0	0	AT/ATX
PCI-14S2-RS-R40	PICMG 1.0	4	8	0	0	0	AT/ATX
PCI-14S3-RS-R40	PICMG 1.0	4	9	0	0	0	AT/ATX
PX-14S3-RS-R41	PICMG 1.0	12	2	0	0	0	AT/ATX
PC-14S5-RS-R41	PICMG 1.0	7	6	0	0	0	AT/ATX
BP-14S-RS-R40	ISA	0	14	0	0	0	AT
PXAGP-13S3-RS-R30	PIAGP	11	0	0	0	0	AT/ATX
PE-13SD-R40	PICMG 1.3	2/2	0	0/4	1/0	1/1	ATX
PXE-13S-R42	PICMG 1.3	8	0	3	0	1	ATX



Type	Model No.	Watt
AT	ACE-935AL-RS	300W
	ACE-T140A-RS	400W
ATX	ACE-A130B-R10	300W
	ACE-A140A-R10	400W
	ACE-A140A-S-R10	400W
Redundant Power Support	ACE-R4130AP-RS	300W



Specifications

Construction	Heavy Duty Metal	Color	Black
SBC Form Factor	EC-1040GB – Full size slot CPU card EC-1040GBATX – ATX or Micro ATX	Weight (Net / Gross)	15.3kg / 28.8kg
Drive Bays	3 x 5.25" + 1 x 3.5"	Dimensions	480mm x 431mm x 176mm
Cooling Fans	2 x 8 cm	Touch Screen	Optional 4-wire resistive type with RS-232 interface
I/O openings	2 x COM, 1xPS/2	LCD Spec	
Expansion Slots	14 slots for EC-1040G 7 slots for EC-1040GATX	Size	6.5"
Indicators	1. Temperature 2. LAN 3. Fan	Resolution	640 x 480 (VGA)
Buttons	1. Power switch 2. System reset	Brightness	800 cd/m ²
Operating Shock	10G acceleration peak to peak (11ms)	Contrast	600:1
Operating Vibration	5-17Hz 0.1" double amplitude displacement 17-640 Hz 1.5G acceleration peak to peak	Viewing Angle	160° / 140°
Operating Temp.	0 ~ 50°C	Backlight MTBF	50000 (LED Backlight) hrs
Operating Humidity	5 ~ 95% @ 60° C, non-condensing	LCD Color	262k

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IEI Mobile Solutions

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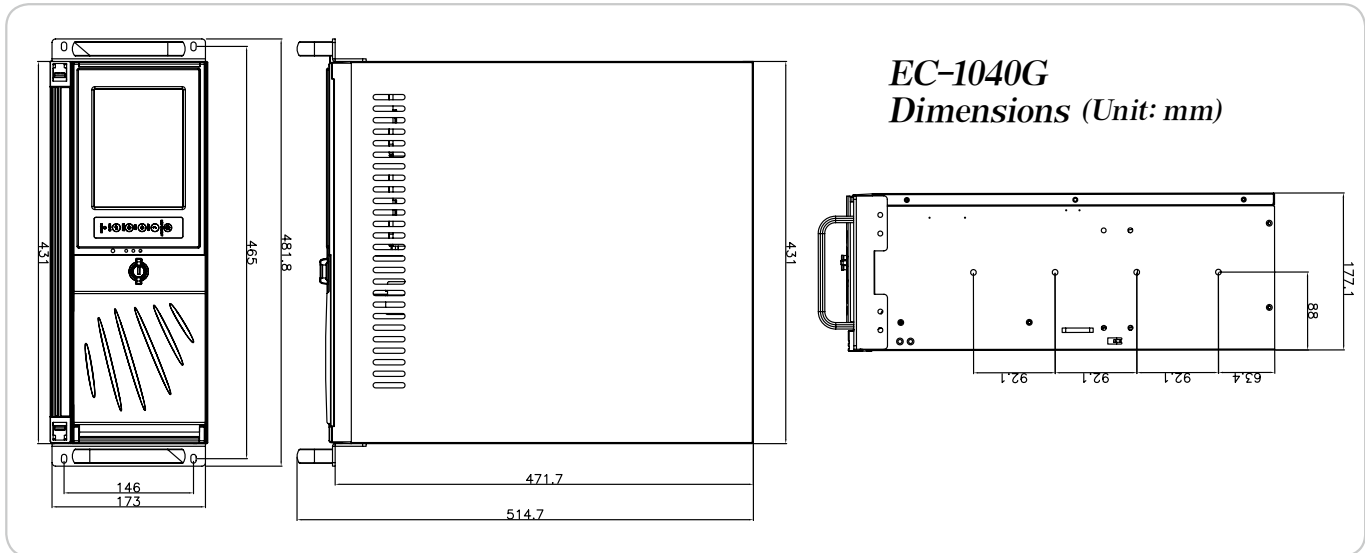
RISC-based Solutions

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PACsmate Medical Solutions

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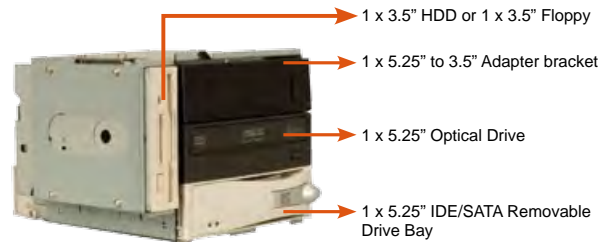
Optional Peripherals



Flexible driver combination



IEI EC-1040G provides a versatile drive combination for all kinds of uses. User can easily integrate every media drive size for their needs.



Rear view of EC-1040G

EC-1040GBX



- Works with backplane
- 14 expansion slots

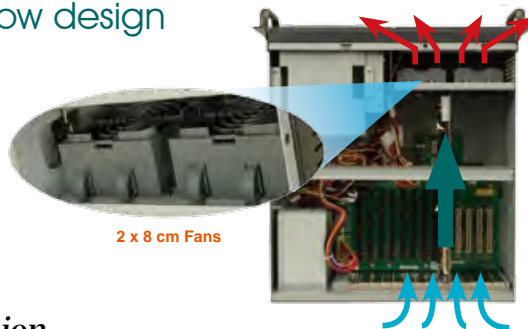
EC-1040GBATX



- Works with ATX motherboard
- 7 expansion slots

Advanced air-flow design

Thermal condition is the most important issue of new generation IPCs. IEI's "Single way" design provides you higher system performance capability and more flexibility for the environment.



Optional KM-088G

The KM-088G is an 88 -key touch pad module. The standard version is with English keyboard and optional Japanese, German, French, Italian, Chinese, or Russian version keyboard is available. It also supports media drive for their needs.



88 Keys with 7 Languages

Touch Pad

Ordering Information

Part No.	Description
EC-1040GB / A130B-R30	4U Rack mount LCD chassis with 6.5" 800 cd/m ² VGA TFT LCD, ACE-A130B-R10, RoHS
EC-1040GB / A130B / R-R30	4U Rack mount LCD chassis with 6.5" 800 cd/m ² VGA TFT LCD, ACE-A130B-R10 and touch screen, RoHS
EC-1040GBATX / A130B-R30	4U Rack mount LCD chassis for ATX MB with 6.5" 800 cd/m ² VGA TFT LCD, ACE-A130B-R10, RoHS
EC-1040GBATX / A130B / R-R30	4U Rack mount LCD chassis for ATX MB with 6.5" 800 cd/m ² VGA TFT LCD, ACE-A130B-R10 and touch screen, RoHS

Optional

KM-088G-[L]-R20 [L] : Language code
 EN: English, JP: Japanese, DE, German, FR: French, IT: Italian, RU: Russian, CH: Chinese

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Optional Peripherals

RPC-6010G

8.4" TFT LCD 4U 14-slot Rack Mount Workstation



Features

1. 8.4" TFT LCD with OSD and membrane keypads
2. Flexible driver combination
3. Lockable front door
4. Two USB ports on the front panel
5. PICMG 1.3 backplane and redundant power supply support
6. Advanced air-flow design

Backplane & Power Supply Options

Backplane Model No.	SBC Type	PCI	ISA	PCIe			PSU Connector
				X1	X4	X16	
PCI-13SD-RS-R40	PICMG 1.0	3+4	3+3	0	0	0	AT/ATX
PCI-14S2-RS-R40	PICMG 1.0	4	8	0	0	0	AT/ATX
PCI-14S3-RS-R40	PICMG 1.0	4	9	0	0	0	AT/ATX
PX-14S3-RS-R41	PICMG 1.0	12	2	0	0	0	AT/ATX
PC-14S5-RS-R41	PICMG 1.0	7	6	0	0	0	AT/ATX
BP-14S-RS-R40	ISA	0	14	0	0	0	AT
PXAGP-13S3-RS-R30	PIAGP	11	0	0	0	0	AT/ATX
PE-13SD-R40	PICMG 1.3	2/2	0	0/4	1/0	1/1	ATX
PXE-13S-R42	PICMG 1.3	8	0	3	0	1	ATX



Power Supply Options		
Type	Model No.	Watt
AT	ACE-935AL-RS	300W
	ACE-T140A-RS	400W
ATX	ACE-A130B-R10	300W
	ACE-A140A-R10	400W
	ACE-A140A-S-R10	400W
ATX Redundant	ACE-R4130AP-RS	300W

Specifications

Construction	Heavy Duty Metal	Color	White
SBC Form Factor	RPC-6010G – Full size slot CPU card RPC-6010GBATX – ATX or micro ATX	Weight (Net / Gross)	15kg / 18kg
Drive Bays	3 x 5.25" + 1 x front-accessible 3.5" + 1 x HDD	Dimensions	528mm x 431mm x 176mm
Cooling Fans	1 x 12 cm	Touch Screen	4-wire resistive type
I/O openings	2 x USB, 2 x COM, 1 x PS/2	LCD Spec.	
Expansion Slots	14 slots for RPC-6022G 7 slots for RPC-6022GATX	Size	8.4"
Indicators	Power LED	Resolution	800 x 600 (SVGA)
Buttons	Power switch System reset	Brightness	450 cd/m ²
Operating Shock	10G acceleration peak to peak (11ms)	Contrast	600:1
Operating Vibration	5–17Hz 0.1" double amplitude displacement 17–640 Hz 1.5G acceleration peak to peak	Viewing Angle	160° / 140°
Operating Temp.	0 ~ 50°C	Backlight MTBF	50000 (LED Backlight) hrs
Operating Humidity	5 ~ 95% @ 60° C, non-condensing	LCD Color	262k

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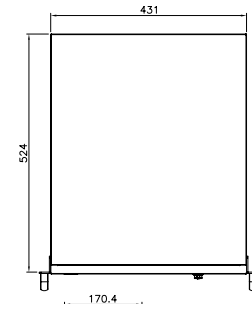
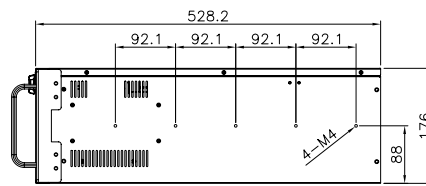
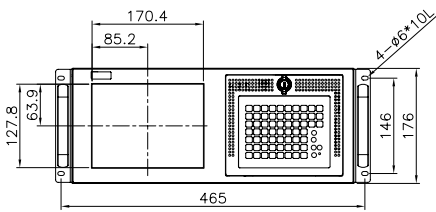
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Optional Peripherals

RPC-6010G Dimensions (Unit: mm)



■ Rear view of RPC-6010G



RPC-6010G

Works with backplane
14 expansion slots



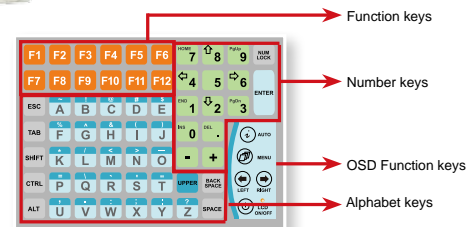
RPC-6010GATX

Works with ATX motherboard
7 expansion slots

■ Fully functional OSD and membrane keypads



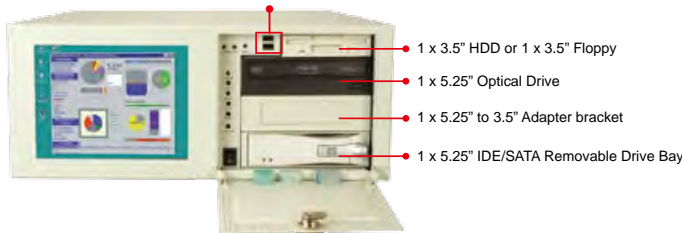
IEI RPC series has a complete set of membrane keypads and OSD functions accessed via water proof keys on the front panel. The front panel membrane keypads access simplifies system configuration.



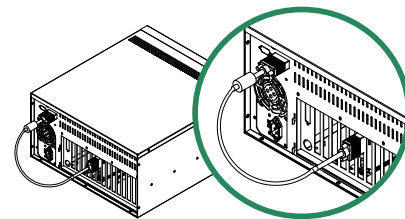
■ Flexible driver combination

IEI RPC series provides versatile drive combination for all kinds of uses. Users can easily integrate any size media drive for their needs.

Peripheral devices with USB interface are popular and widely used nowadays. For the convenience of connection, RPC series has two USB ports on the front bezel offering excellent accessibility.



■ Analog VGA interface supports all CPU boards



■ Advanced air-flow design

Thermal condition is the most important issue of new generation IPCs. IEI's "Single way" design provides you higher system performance for the environment.



Ordering Information

ACE-A131B (ATX)	
RPC-6010GW/A130B/R-R20	4U Rack mount chassis, with with 8.4" 450cd/m ² SVGA LCD w/ACE-A130B-R10 and Touch Screen, RoHS
RPC-6010GWATX/A130B/R-R20	4U Rack mount chassis for ATX motherboard, with 8.4" 450cd/m ² SVGA LCD w/ACE-A130B-R10, w/8.4" Touch Screen, RoHS
ACE-R4130AP (Redundant)	
RPC-6010GWR/R4130AP/R-R20	4U Rack mount chassis, with 8.4" 450cd/m ² SVGA LCD ,ACE-R4130AP-R10 and Touch Screen, RoHS
RPC-6010GWAR/R4130AP/R-R20	4U Rack mount chassis for ATX mother board, with with 8.4" 450cd/m ² SVGA LCD, ACE-R4130AP-R10 and Touch Screen, RoHS

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Optional Peripherals

RPC-6022G

12.1" TFT LCD 5U 14-slot Rack Mount Workstation



Features

1. 12.1" TFT LCD with fully functional OSD and membrane keypads
2. Flexible driver combination
3. Lockable front door
4. Two USB ports on the front panel
5. PICMG 1.3 backplane and redundant power supply support
6. Advanced air-flow design

Backplane & Power Supply Options

Backplane Model No.	SBC Type	PCI	ISA	PCIe			PSU Connector
				X1	X4	X16	
PCI-13SD-RS-R40	PICMG 1.0	3+4	3+3	0	0	0	AT/ATX
PCI-14S2-RS-R40	PICMG 1.0	4	8	0	0	0	AT/ATX
PCI-14S3-RS-R40	PICMG 1.0	4	9	0	0	0	AT/ATX
PX-14S3-RS-R41	PICMG 1.0	12	2	0	0	0	AT/ATX
PC-14S5-RS-R41	PICMG 1.0	7	6	0	0	0	AT/ATX
BP-14S-RS-R40	ISA	0	14	0	0	0	AT
PXAGP-13S3-RS-R30	PIAGP	11	0	0	0	0	AT/ATX
PE-13SD-R40	PICMG 1.3	2/2	0	0/4	1/0	1/1	ATX
PXE-13S-R42	PICMG 1.3	8	0	3	0	1	ATX

Power Supply Options		
Type	Model No.	Watt
AT	ACE-935AL-RS	300W
	ACE-T140A-RS	400W
ATX	ACE-A130B-R10	300W
	ACE-A140A-R10	400W
	ACE-A140A-S-R10	400W
ATX Redundant	ACE-R4130AP-RS	300W



Specifications

Construction	Heavy Duty Metal	Color	White
SBC Form Factor	RPC-6022G – Full size slot CPU card RPC-6022GBATX – ATX or Micro ATX	Weight (Net / Gross)	15kg / 18kg
Drive Bays	1 x 5.25" + 1 x front-accessible 3.5" + 1 x HDD	Dimensions	470mm x 431mm x 220mm
Cooling Fans	2 x 12 cm	Touch Screen	5-wire resistive type
I/O openings	2 x USB, 2 x COM, 1 x PS/2	LCD Spec.	
Expansion Slots	14 slots for RPC-6022G 7 slots for RPC-6022GATX	Size	12.1"
Indicators	Power LED	Resolution	1024 x 768 (XGA)
Buttons	Power switch System reset	Brightness	500 cd/m ²
Operating Shock	10G acceleration peak to peak (11ms)	Contrast	700:1
Operating Vibration	5~17Hz 0.1" double amplitude displacement 17~640 Hz 1.5G acceleration peak to peak	Viewing Angle	160° / 160°
Operating Temp.	0 ~ 50°C	Backlight MTBF	50000 (LED Backlight) hrs
Operating Humidity	5 ~ 95% @ 60° C, non-condensing	LCD Color	262k

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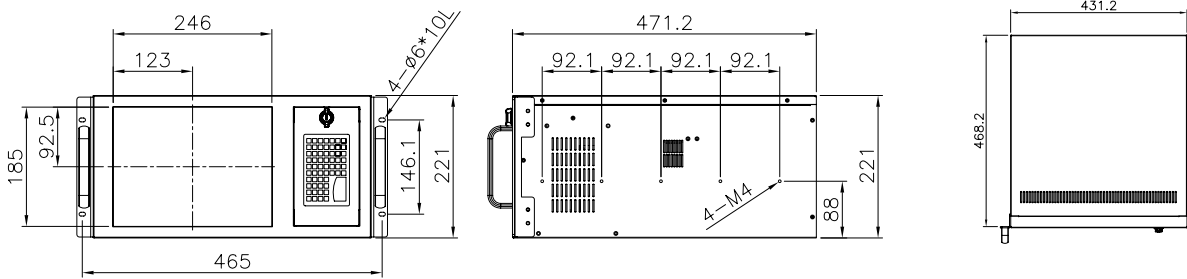
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Optional Peripherals

RPC-6022G Dimensions (Unit: mm)



■ RPC-6022G Rear view



RPC-6022G

Works with backplane 14 expansion slots



RPC-6022GATX

Works with ATX motherboard 7 expansion slots

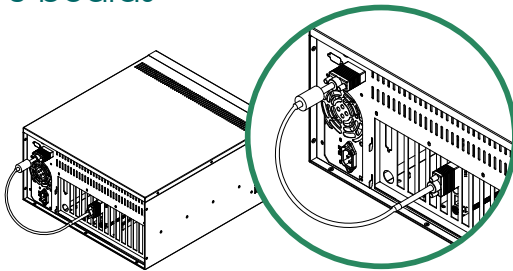
■ Fully functional OSD and membrane keypads

IEI RPC series has a complete set of membrane keypads and OSD functions accessed via water proof keys on the front panel. The front panel membrane keypads access simplifies system configuration.



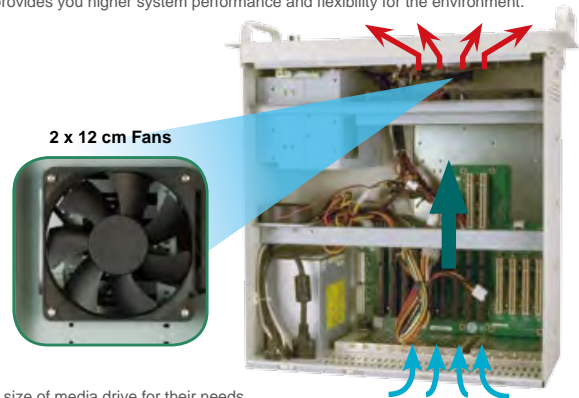
- Function keys
- Alphabet keys
- Number keys
- OSD Function keys

■ Analog VGA interface supports all CPU boards



■ Advanced air-flow design

Thermal condition is the most important issue of new generation IPCs. IEI's "Single way" design provides you higher system performance and flexibility for the environment.



■ Flexible driver combination

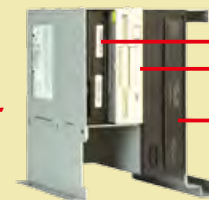
IEI RPC series provides versatile drive combination for all kinds of usage. Users can easily integrate every size of media drive for their needs.



or



or



Ordering Information

ACE-A131B (ATX)

RPC-6022GXW/A130B/R-R10

5U Rack mount chassis, with 12.1" 500cd/m² XGA LCD w/ACEA130B-R10,RoHS and Touch Screen, RoHS

RPC-6022GXWA/A130B/R-R10

5U Rack mount chassis for ATX mother board, with 12.1" 500cd/m² XGA LCD w/ACE-A130B--R10, w/12.1" Touch Screen, RoHS

ACE-R4130AP (Redundant)

RPC-6022GXWR/R4130AP/R-R10

5U Rack mount chassis, with 12.1" 500cd/m² XGA LCD ,ACE-R4130AP Redundant Power Supply and Touch Screen, RoHS

RPC-6022GXWAR/R4130AP/R-R10

5U Rack mount chassis for ATX mother board, with 12.1" 500cd/m² XGA LCD, ACE-R4130AP-RS and Touch Screen, RoHS

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Optional Peripherals

Display Monitor Solutions

Durable waterproof displays are essential in today's commercial and industrial applications. IEI's versatile lines of IP 64/65 compliant shock and vibration resistant industrial displays are designed specifically to endure the rigorous demands of modern commerce and industrial environments. These displays are easily integrated into automation applications, ATM machines and human machine interfaces.

Industrial Display Monitor



DM Series

The DM series displays are flexible, durable systems that are easily integrated into a wide variety of general-purpose industrial applications.

Sunlight Readable Display Monitor



800 nits/
1000 nits

SRM Series

The SRM series is designed to operate in high ambient lighting conditions and is especially designed for outdoor use under direct or indirect sunlight.

Multiple Input Display Monitor



5 Video
Inputs

AFOLUX Monitor Series

The AFL-xxM series has multiple video inputs through common video connectors which can connect to a wide range of devices and most electronic appliances.

Product Line	DM Series		TDM Series	SRM Series	LCD-KIT Series		AFOLUX Monitor Series	
LCD Size	6.5" ~ 19"		12.1" / 15"	12.1" / 15"	6.5" ~ 19"		7" ~ 19"	
Input Signal Interface	6.5" ~ 10.4" Model	12.1" ~ 19" Model	Analog VGA + DVI-D	Analog VGA + DVI-D	6.5" ~ 10.4" Model	12.1" ~ 19" Model	7" ~ 12.1" Model	15" ~ 19" Model
	Analog VGA	Analog VGA + DVI-D			Analog VGA	Analog VGA+DVI-D	Composite YPbPr S-Video VGA	BNC Connector YPbPr S-Video VGA DVI
Brightness	300-800 nits		450 nits	800-1000 nits WIN!!	300-800 nits		300-500 nits	
Operation Temperature	-10~50°C		-30~70°C WIN!!	-10~60°C	-10~50°C		0~50°C	
Auto Dimming Function	--		--	Yes	--		Yes (For 15" ~ 19" Model)	
OSD Function	Yes		Yes	Yes	Yes		Yes (For 15" ~ 19" Model)	
Remote Control	--		--	--	--		Yes (For 7" ~ 12.1" Model)	
IEI samrt OSD Support	Yes		Yes	Yes	Yes		Yes	
Front Panel Protection	IP 65		IP 65	IP 65	--		IP 64	

Wide Temperature Display Monitor



TDM Series -30°C~70°C

The TDM series offers an extended operational temperature range of -30°C ~ +70°C allowing it to tolerate temperature extremes in harsh operating environment.

Open Frame Display Monitor



LCD-KIT Series

The LCD-KIT series design concepts are ready for versatile applications that are easily integrated into any mechanic structure.

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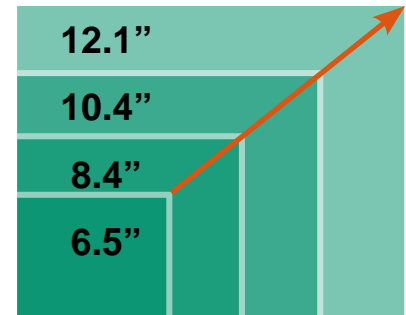
Optional Peripherals

Heavy Industrial Display Monitor Main Features

Feature 1

Upgrade 6.5"~12.1" Display Monitor with LED Backlight Technology

- Inverter-free design increases system reliability and lowers total product cost as well as maintenance cost
- Better for the environment, mercury and lead free
- LCD provides 50000hrs service life
- 15%~30% less power consumption compared to CCFL



Feature 2

Increase Power Adapter Efficiency (Meet Energy Related Products ErP)

The display monitor R20 series comes with a power adapter which complies with the ErP 2009/125/EC directive, meaning the power consumption of the whole system in either standby or off mode is under 1W.



Feature 3

Dual Touch Screen Control Interface: RS-232 & USB

Display monitor series provides both RS-232 and USB ports for touch screen connection.

- Lockable RS-232 connector ensures secure attachment
- Standard Type A USB 2.0 interface with 480 Mbit/s maximum transfer rate provides faster data transmission than a traditional RS-232 interface (Except 8.4" DM series)



New

Feature 4

M Model Supports 9~36V DC Power Input for Mobile Application

Display Monitor series M models support wide 9~36V DC power input. Factory and mobile environments, such as vehicles, usually use 12V or 24V DC power source. The wide 9~36V power input range by terminal block and 12V power input by power jack solutions adapt to a wide variety of appliance requirements. (Manufacture by order)



Feature 5

IP 65 Waterproof Aluminum Front Panel

IP 65 is the highest dust, water and oil proof standard in ground usage. It absolutely prevents any micro-particles from getting into the system front panel and allows the system to function in harsh environments.



Feature 6

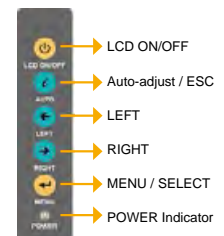
OSD Function Keypad on the Front Panel

IEI's display monitors have OSD function keys on the front panel. Users can easily configure monitor functions using the waterproof OSD function keys.

• OSD lock secures your settings

Press left and right buttons eight seconds, the OSD functions will be locked. Press eight seconds again, the OSD functions will be unlocked.

With OSD Disable Function



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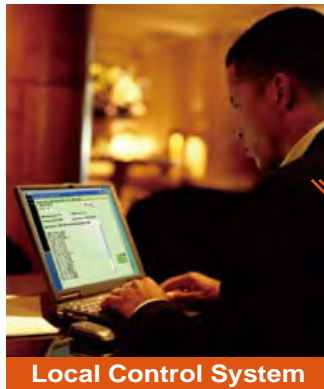
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Optional Peripherals

IEI SmartOSD Software OSD for IEI LCD Monitors

IEI SmartOSD is a proprietary On-Screen-Display (OSD) software solution that enables easy, remote monitor setting adjustments in Windows environment. IEI SmartOSD delivers excellent performance and provides more flexibility than typical OSD hardware solutions when adjusting a monitor. SmartOSD also allows monitor settings such as brightness, contrast, screen position, size, and color gain to be read and changed over normal video cable (VGA/DVI).



Directly controls IEI display device through standard video cables !

VESA DDC / CI Protocol



DVI~10m



VGA~30m



IEI Display Monitor Only!



SmartOSD Features

- 100% compatible with Windows environment -Windows 95/NT 4.0/98/2000/2003/XP/Vista
- Normal video cable (VGA/DVI) connection only
- Overcome operation obstacles

Distance, location and multiple display units no longer present obstacles when controlling the monitors with the SmartOSD.



Multiple Control Displays



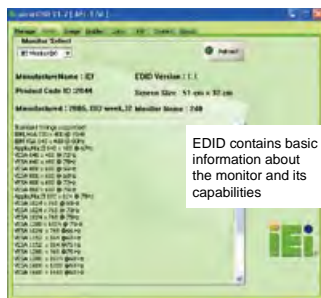
Unreachable Location

100% Compatible with VESA DDC / CI Protocol

IEI LCD monitors are implemented with the VESA DDC/CI protocol and standard VESA Monitor Control Command Set (MCCS). Compliance software for designing displays compatible with VESA's DDC/CI and MCCS standards are easily modified and applied in other application programs.

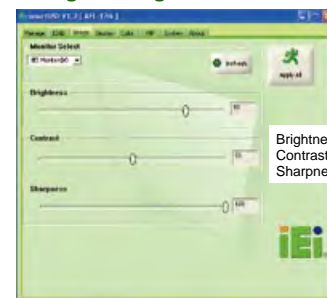
■ Various Remote Management Functions

1. EDID



EDID contains basic information about the monitor and its capabilities

2. Image Setting



Brightness Contrast Sharpness

3. Display Setting



Phase Clock

4. Color Setting



User Red Gain
User Green Gain
User Blue Gain
Color Temperature
Gamma

5. Picture in Picture Setting



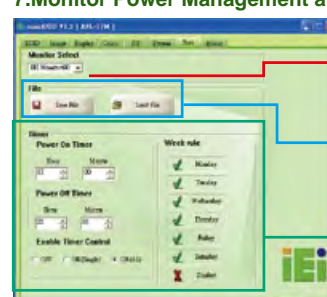
PIP On/Off
PIP Input Source
PIP Size

6. System Setting



Monitor Power Control
Auto Brightness
Main Source Input
Volume
Misc (Factory Reset/OSD Lock/OSD Unlock)
Mute

7. Monitor Power Management and File Saving



Monitor Select
Selects the monitor unit for which the system parameters will be adjusted

Settings Saving
Saves the referred settings of all the OSD functions as .dat files and load the settings

Power Management
Sets the monitor power on/off by time and week

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DM Series

6.5"~19" IP 65 Industrial Monitors, Robust, Shock Resistant with OSD Function



Features

1. Aluminum front panel meets IP 65 standard for tough working environment
2. Combination USB & RS-232 Touch Interfaces
3. Robust chassis and retention kit structure for shocking and vibration requirement
4. Over 300cd/m² high brightness and 50000hrs MTFB long lifetime panel
5. Analog VGA and DVI-D interface supports most of general system boards
6. M models support 9~36V DC power input for mobile application



Specifications

Model	DM-65GHS	DM-84GHS	DM-104GHS	DM-121GXS	DM-150GS	DM-170GS	DM-190GS
LCD Size	6.5"	8.4"	10.4"	12.1"	15"	17"	19"
Input Interface	Analog VGA	Analog VGA	Analog VGA	Analog VGA + DVI-D	Analog VGA + DVI-D	Analog VGA + DVI-D	Analog VGA + DVI-D
Max Resolution	640 x 480	800 x 600	800 x 600	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024
Brightness (cd/m ²)	800 Sunlight Readable	450	400	500	350	300	450
Contrast Ratio	600 : 1	600 : 1	700 : 1	700 : 1	500 : 1	800 : 1	1000 : 1
Display Color	262K	262K	262K	262K	16.2M	16.7M	16.7M
Pixel Pitch (mm)	0.207	0.213	0.264	0.3075	0.297	0.264	0.294
Viewing Angle (H/V)	160° / 140°	160° / 140°	160° / 140°	160° / 160°	120° / 100°	160° / 160°	170° / 160°
Touch Screen	Resistive type 4-wire / RS-232 & USB interface (touch controller IC is on board)		Resistive type 5-wire / RS-232 & USB interface (touch controller IC is on board)				
Front Frame	Aluminum						
Chassis	Heavy-duty						
Input Voltage	12VDC	12VDC or 9-36VDC					
OSD Function	OSD Keypad						
Smart OSD	Yes						
Mounting	Wall/Arm/Din Panel/Rack	Wall / Panel / Rack / Arm / Stand / VESA 100mm x 100mm					
Color	Silver						
Dimensions (W x H x D mm)	183 x 143 x 41	244 x 178 x 49	312 x 242 x 53	340 x 260 x 58	410 x 309 x 64.4	452 x 356 x 65.2	482 x 399 x 73
Operating Temperature	-10°C~50°C				0°C~50°C		
Front Panel Protection	IP 65						
Net Weight	1 kg	1.8 kgs	3 kgs	3.8 kgs	6 kgs	8.6 kgs	10 kgs
Power Adapter	36W, 63000-FSP036RAB610-RS				60W, 63040-010060-040-RS		

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Optional Peripherals

Mounting Kits

	DM-65GS	DM-84GS	DM-104GS	DM-121GS	DM-150GS	DM-170GS	DM-190GS
Panel Mount Kit	PK-65M	PK-84M	PK-104M	PK-170M		PK-190M	
Wall Mount Kit	WK-065MS-R10		WK-190MS-R10				
Rack Mount Kit	RK-065MS-R10	RK-084MS-R10	RK-104MS-R10	RK-121MS-R10	RK-150MS-R10	RK-170MS-R10	RK-190MS-R10
Din Mount Kit	DK-84MS		N/A				
LCD Monitor Arm	ARM-11				ARM-31		
LCD Monitor Stand	STAND-100-RS				STAND-210-R11		

Packing List

Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length:1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x 60W AC power adapter (Non M model ONLY)	63040-010060-040-RS	For DM-150GS-R20 / 170GS-R20 / 190GS-R20 series Operating Temperature : 0°C~ +40°C
1 x 36W AC power adapter (Non M model ONLY)	63000-FSP036RAB610-RS	For DM-65GHS-R20 / 84GHS-R20 / 104GHS-R20 / 121GXS-R20 series Operating Temperature : 0°C~ +40°C
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB Cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length: 1800 mm Length: 1500 mm
1 x Touch pen	43125-0002C0-00-RS	

Ordering Information

Part No.		Description
6.5"	DM-65GHS/R-R20	6.5" 800cd/m ² High luminance VGA LCD monitor with VGA, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R20, RoHS
8.4"	DM-84GHS/R-R20	8.4" 450cd/m ² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 Touch screen, R20, RoHS
	DM-84GHMS/R-R21	8.4" 450cd/m ² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 Touch screen, 9~36V DC input, R21, RoHS
	DM-84GHS-USB/R-R20	8.4" 450cd/m ² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/USB Touch screen, R20, RoHS
	DM-84GHMS-USB/R-R21	8.4" 450cd/m ² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/USB Touch screen, 9~36V DC input, R21, RoHS
10.4"	DM-104GHS/R-R20	10.4" 400cd/m ² High luminance SVGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R20, RoHS
	DM-104GHMS/R-R21	10.4" 400cd/m ² High luminance SVGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, 9~36V DC input, R21, RoHS
12.1"	DM-121GXS/R-R20	12.1" 500cd/m ² XGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, R20, RoHS
	DM-121GXMS/R-R21	12.1" 500cd/m ² XGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, 9~36V DC input, R21, RoHS
15"	DM-150GS/R-R20	15" 350cd/m ² XGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R20, RoHS
	DM-150GMS/R-R21	15" 350cd/m ² XGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, 9 ~36V DC input, R21, RoHS
17"	DM-170GS/R-R20	17" 300cd/m ² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R20, RoHS
	DM-170GMS/R-R21	17" 300cd/m ² SXGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, 9~36V DC input, R21, RoHS
19"	DM-190GS/R-R21	19" 450cd/m ² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R21, RoHS
	DM-190GMS/R-R22	19" 450cd/m ² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen,9~36V DC input, R22, RoHS

Note: The smartOSD function is only supported by revision 11 models and above

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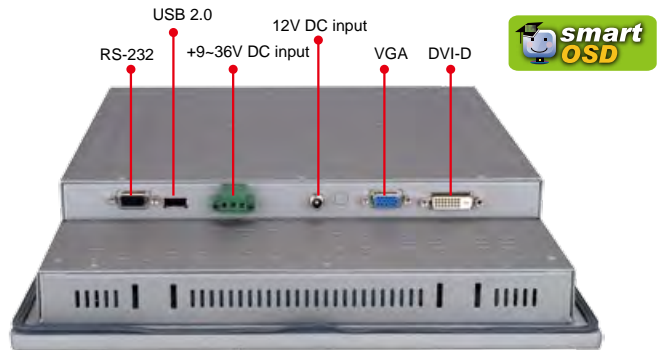
3
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Optional Peripherals

TDM-121/150GMS

12.1"/15" Wide Range Temperature TFT LCD Monitor



Features

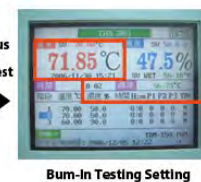
1. Wide operating temperature: -30°C~+70°C
2. 12.1" XGA high resolution
3. Superior image
4. M models support 9~36V DC power input for mobile application
5. DVI-D and analog VGA input interface for comprehensive usage
6. IP 65 compliant

Specifications

Model	TDM-121GMS	TDM-150GS
LCD Size	12.1"	15"
Input Interface	Analog VGA + DVI-D	Analog VGA + DVI-D
Max. Resolution	1024 x 768	1024 x 768
Brightness (cd/m ²)	500	450
Contrast Ratio	700 : 1	700 : 1
Display Color	262K	16.2M
Pixel Pitch (mm)	0.3075	0.297
Viewing Angle (H/V)	160/160	160/160
Touch Screen	Resistive Type 8-Wire	
Front Frame	Aluminum	Aluminum
Chassis	Heavy-duty	Heavy-duty
Input Voltage	9-36VDC	9-36VDC
OSD Function	Yes	Yes
Smart OSD	Yes	Yes
Mounting	Wall / Panel / Rack / Arm Stand / VESA 100mm x 100mm	
Color	Sliver	
Dimensions (W x H x D mm)	340 x 260 x 58	410 x 309 x 55.1
Operating Temperature	-30°C~70°C	
Front Panel Protection	IP 65	
Net Weight	3.3 kgs	6 kgs

IEI Strict Design Quality Verification

Typical monitors can only be used in environments that have temperatures in the range of 0°C to 50°C. Extended IEI environmental testing is performed to ensure the TDM series continues to function properly over its entire service life in a wide temperature range of -30°C to +70°C. After being tested in the -30°C to +70°C temperature range, the TDM series was found to maintain its original luminance.



To assure the TDM can function properly in harsh working environment, the internal temperature of test chamber was set in the range -30°C to +70°C



Nine thermocouples record all the temperature variations during the burn-in test and the TDM monitor functions during the test.

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Optional Peripherals

■ 12.1" XGA Resolution: 1024 x 768

The TDM-121GMS supports higher resolutions and smaller pixel pitches (0.24mm versus 0.24mm) to deliver great computer displays.



TDM-121GMS



■ High Brightness: 450 cd/m²

With a luminance of 450 cd/m², the TDM series offers an improvement over the 250 to 300cd/m² luminance typically available with other 12.1-inch TFT LCD modules. The high-brightness feature ensures the screen content is highly visible in all lighting conditions



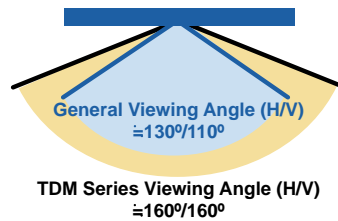
Normal Brightness



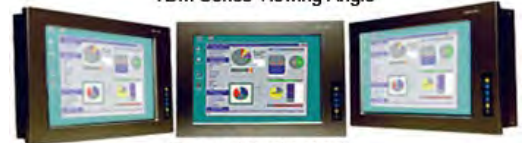
High Brightness

■ Wide Viewing Angle: 160°

Typical small-size monitors only support 130°/110° (H/V) viewing angle, but IEI TDM series can support viewing angle up to 160°/160° (H/V). Viewing angle maintains screen brightness by reducing the possibility of color change when you view the monitor from the side.



TDM Series Viewing Angle



General Viewing Angle

Mounting Kits

	TDM-121GMS	TDM-150GMS
Panel Mount Kit	PK-170M	PK-170M
Wall Mount Kit	WK-190MS-R10	WK-190MS-R10
Stand	STAND-100-RS	STAND-200-R11
Arm	ARM-11-RS	ARM-31-RS
Rack Mount Kit	RK-121MS-R10	RK-150MS-R10

Options Power

Description	Part Number	Remark
1 x 36W AC power adapter	63000-FSP036RAB610-RS	Operating temperature : 0°C~ +40°C

Packing List

Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length:1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB Cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length:1800mm Length:1500mm
1 x Touch Pen	43125-0002C0-00-RS	

Ordering Information

Part No.	Description
TDM-121GMS/R-R21	12.1" 500cd/m ² XGA LCD monitor, Aluminum front panel, W/12.1" touch screen, 9~36V input DC input, -30°C ~ +70°C operating temperature, R21, RoHS
TDM-150GMS/R-R21	15" 450cd/m ² XGA LCD Monitor, Aluminum front panel, W/15" touch screen, 9~36V input DC input, -30°C ~ +70°C operating temperature, R21, RoHS

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Optional Peripherals

SRM-121/150

12.1"/15" Sunlight Readable TFT LCD Monitor

Fanless

SRM Series



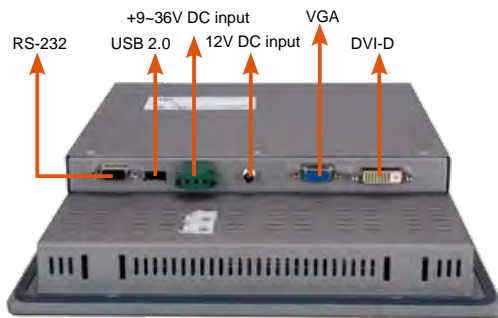
With Auto-Dimming Function

Open Frame

SRM-KIT Series



Extendable OSD Cable with Auto-Dimming Function



Features

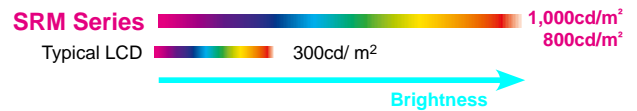
1. 800 and 1000nits super high brightness
2. Superior fanless design
3. 12.1" anti-reflection technology reduces light reflection and high transmission rate to prevent light loss or distortion
4. Adjustable auto-dimming function
5. Wide operating temperature: -10°C~+60°C
6. OSD lock secures your settings
7. IEI patent software OSD support

Specifications

Model	SRM-121XA	SRM-150GS
	SRM-KIT121XA	SRM-KIT150G
LCD Size	12.1"	15"
Input Interface	Analog VGA + DVI-D	
Max Resolution	1024 x 768 (XGA)	1024 x 768 (XGA)
Brightness (cd/m ²)	1000	800
Contrast Ratio	600:1	800:1
Display Color	262k	262k
Pixel Pitch (mm)	0.240	0.297
Viewing Angle (H/V)	160°/140°	160°/140°
Touch Screen	Resistive Type 5-Wire	
Front Frame	Aluminum	
Chassis	Heavy-duty	
Input Voltage	9-36VDC	
OSD function	Yes	
Smart-OSD	Yes	
Mounting	Wall / Panel / Rack / Arm / Stand / VESA 100mm x 100mm	
Color	Sliver	
Dimensions (W x H x D mm)	340 x 260 x 58	410 x 309 x 55.1
	316 x 224.4 x 47.9	364.1 x 262.5 x 46
Operating Temperature	-10°C ~ +60°C	
Front Panel Protection	IP 65	
	N/A	
Net Weight	3.3 kgs	6 kgs

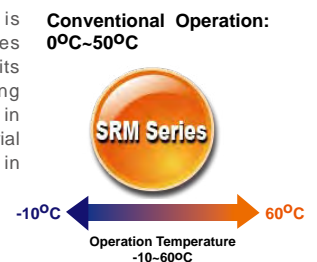
Super High Brightness

Typical high brightness monitors usually have more than six CCFLs, but IEI SRM monitors have super high brightness with only four CCFLs. IEI SRM panels are still readable in bright sunlight with fewer backlights and thereby don't power consumption or produce extra heat.



Wide Temperature Range

Extended IEI environment testing is performed to ensure the SRM series continues to function properly over its entire service life in a wide working temperature range of -10°C to +60°C in order to accommodate diverse industrial applications such as outdoor kiosks in winter and summer.



Superior Fanless Design and Low Power Consumption

SRM models are fanless and therefore use less power and are more silent than conventional high brightness monitors that use several high-speed cooling fans. SRM models use between 25W and 30W of power compared to the 40W to 50W used by conventional high-brightness monitors.

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Optional Peripherals

Innovative Auto-Dimming Function

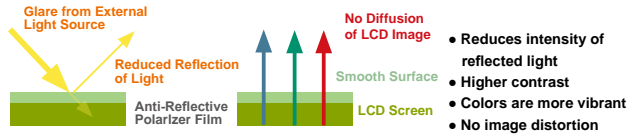
IEI SRM series with auto-dimming function can adjust brightness according to ambient light so that users can do their job properly under different lamp house averages, and outdoor environments. This function not only prevents unnecessary brightness that strains eyes, it also saves energy. The SRM series auto-dimming default settings can be easily customized with the OSD menu to suit any environment.



Anti-Reflection Technology

Outdoor applications in daylight or other bright environments require technology that can suppress surface reflection. The SRM has a special AR (anti-reflection) surface treatment to prevent reflection, ensuring excellent visibility in daylight conditions.

How does the Anti-Reflection Surface work?



Mounting Kits

	SRM-150GS
Panel Mount Kit	PK-170M
Wall Mount Kit	WK-190MS-R10
Rack Mount Kit	RK-150MS-R10
LCD Monitor Arm	ARM-31
LCD Monitor Stand	STAND-210-R11

Ordering Information

• 12.1" XGA SRM Series

Model	Description
SRM-121XA/R-R30	12.1" 1000cd/m ² sun readable XGA LCD monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/12.1" RS-232 and USB Touch Screen, R30, RoHS
SRM-121XMA/R-R30	12.1" 1000cd/m ² sun readable XGA LCD monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/9-36V DC input, w/12.1" RS-232 and USB Touch Screen, R30, RoHS

• 15" XGA SRM Series

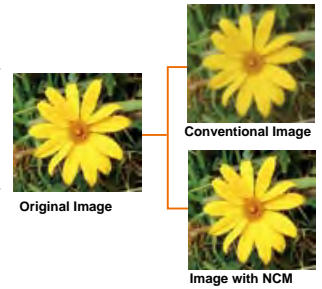
Model	Description
SRM-150GS/R-R30	15" 800cd/m ² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/15" RS-232 and USB Touch Screen, R30, RoHS
SRM-150GMS/R-R30	15" 800cd/m ² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/9-36V DC input, w/15" RS-232 and USB Touch Screen, R30, RoHS

• 12.1"/15" SRM-KIT Series

Model	Description
SRM-KIT121XA-R30	12.1" 1000 cd/m ² Sun Rdadable XGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
SRM-KIT150G-R30	15" 800 cd/m ² Sun Rdadable XGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
SRM-KIT121XMA-R30	12.1" 1000 cd/m ² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, w/9-36V DC input, R30, RoHS
SRM-KIT150GM-R30	15" 800 cd/m ² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, w/9-36V DC input, R30, RoHS

Natural Color Matrix (NCM) Technology

POS terminals and kiosks often display advertisements and colorful images, the colors of which must remain vivid and faithful to the original. The IEI SRM monitor with NCM optimization technology prevents this difference by separating color data and luminance components while controlling individual display colors for optimized performance.



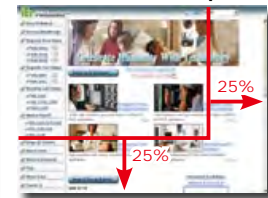
12.1" XGA High Resolution

The SRM-121XA series supports higher resolutions and smaller pixel pitches (0.24mm versus 0.24mm) to deliver great displays. Higher resolution on a high-density display allows more viewable content so that the user does not have to scroll as much to view the entire screen.

12.1" SVGA Screen Capture



12.1" XGA Screen Capture



XGA Higher Resolution

- Presents vivid and fine display quality
- Increases viewable content

Packing List

Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length: 1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x DVI cable	32000-086600-RS	Length:1800mm
1 x 36W AC power adapter	63000-FSP036RAB610-RS	Operating Temperature : 0°C~ +40°C (for 12V DC Input Model Only)
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length:1800mm Length:1500mm
1 x Touch pen	43125-0002C0-00-RS	

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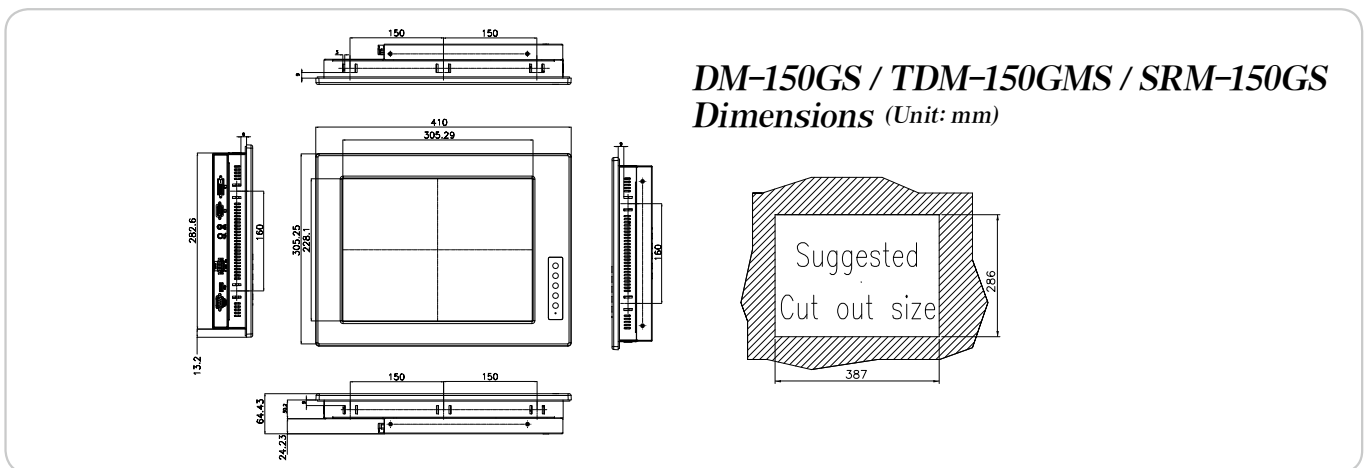
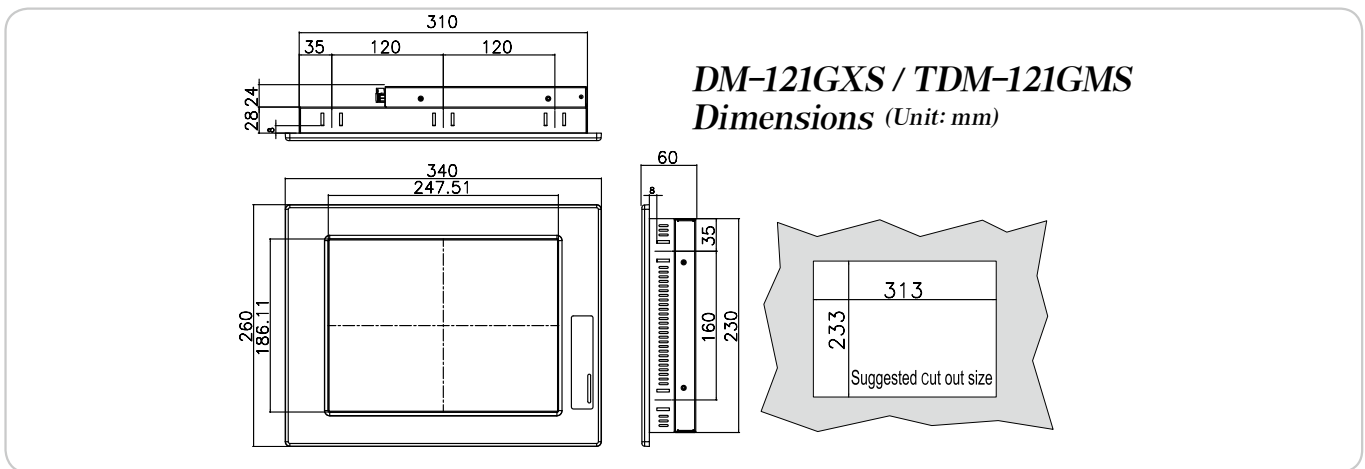
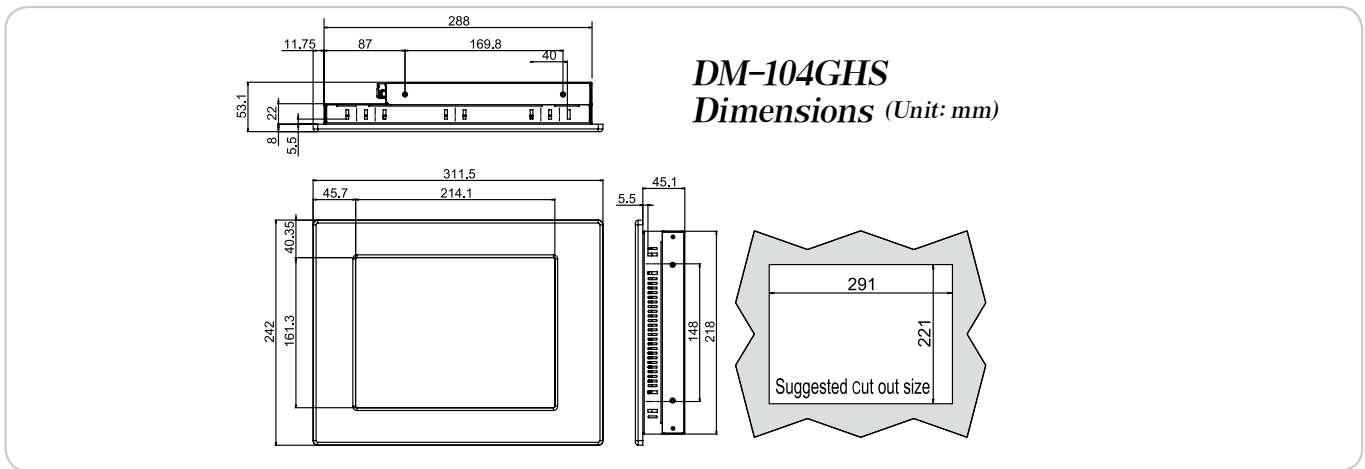
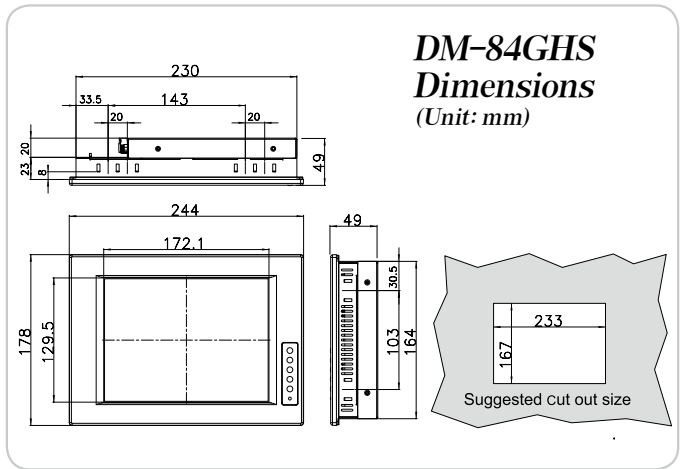
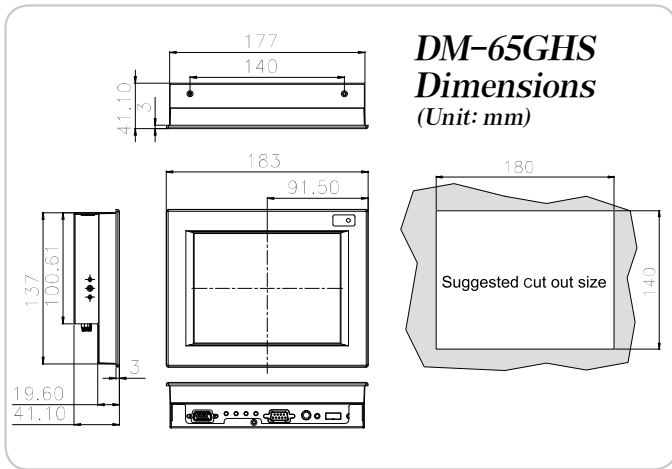
RISC-based Solutions

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Optional Peripherals



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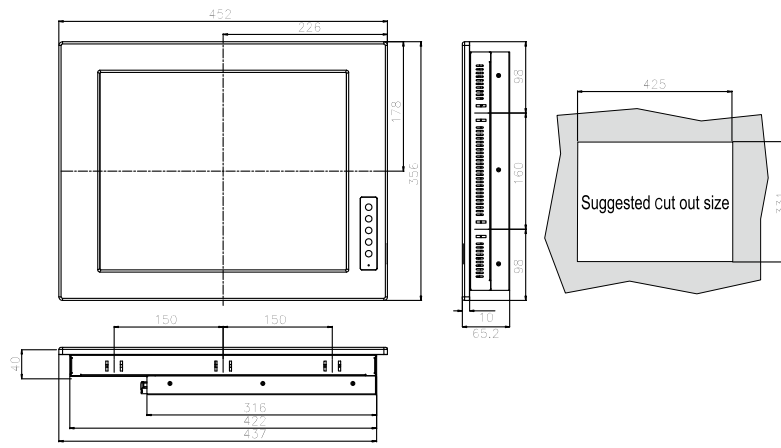
RISC-based Solutions

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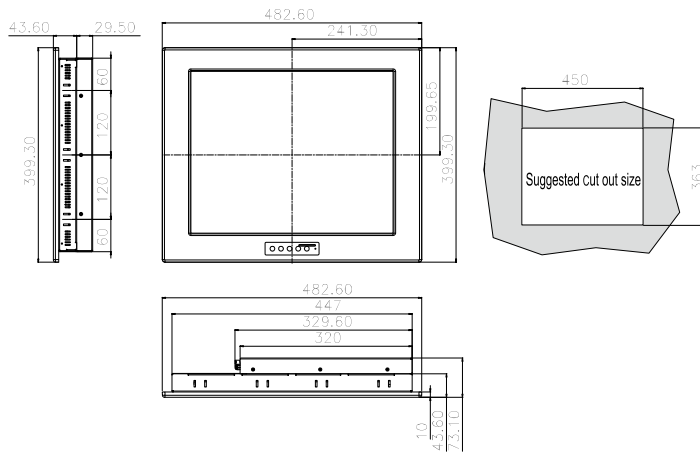
PACsmate Medical Solutions

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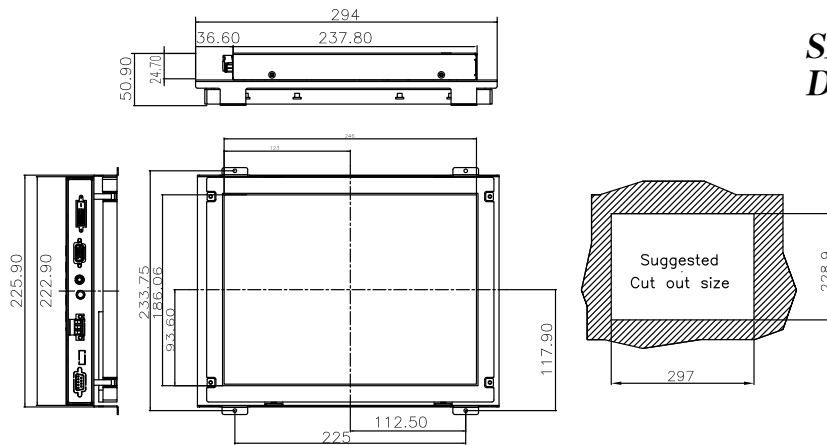
Optional Peripherals



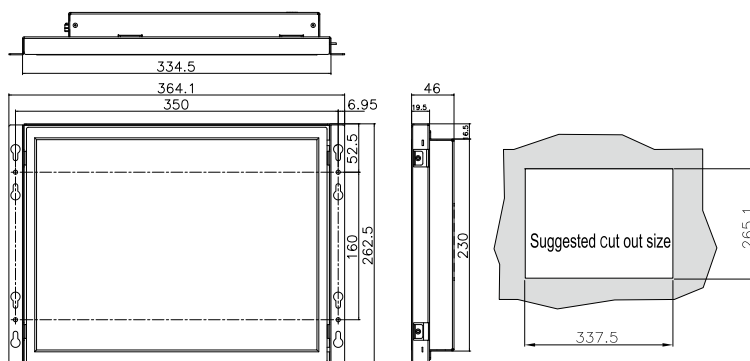
DM-170G
Dimensions (Unit: mm)



DM-190G
Dimensions (Unit: mm)



SRM-KIT121G
Dimensions (Unit: mm)



SRM-KIT150G
Dimensions (Unit: mm)

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Optional Peripherals

LCD Kit Series

6.5" ~ 17" Open Frame LCD Monitor with OSD Function



Sunlight Readable Available

Features

1. 6.5"~17" modular architecture for efficient integration
2. Over 300cd/m² high brightness and 50000hrs MTFB long lifetime panel
3. Analog VGA or digital DVI interfaces support most of general systems
4. Sunlight readable option
5. Support software OSD for remote control applications



Specifications

1000 nits **800 nits**

Model	LCD-KIT65GH	LCD-KIT84GH	LCD-KIT104GH	LCD-KIT121GX	LCD-KIT150G	LCD-KIT170G	SRM-KIT121XA	SRM-KIT150G
LCD Size	6.5"	8.4"	10.4"	12.1"	15"	17"	12.1"	15"
Input Interface	Analog VGA			Analog VGA + DVI-D				
Max. Resolution	640 x 480	800 x 600	800 x 600	1024 x 768	1024 x 768	1280 x 1024	1024 x 768	1024 x 768
Brightness (cd/m ²)	800	450	400	500	350	300	1000	800
Contrast Ratio	600 : 1	600 : 1	700 : 1	700 : 1	500 : 1	800 : 1	700:1	600:1
Display Color	262K	262K	262K	262K	16.2M	16.7M	262k	262k
Pixel Pitch (mm)	0.207	0.213	0.264	0.3075	0.297	0.264	0.240	0.297
Viewing Angle (H/V)	160/140	160/140	160/140	160/160	120/100	160/160	120°/120°	150°/110°
Chassis	Heavy-duty							
Input Voltage	12VDC	12VDC or 9-36VDC						
OSD function	Yes							
Smart-OSD	Yes							
Mounting	Panel							
Dimensions (W x H x D mm)	203 x 121 x 34	234 x 147 x 35.3	242.2 x 209 x 33.6	294 x 240.7 x 42	364.1 x 262.5 x 41.9	390.4 x 300 x 46.9	316 x 224.4 x 47.9	364.1 x 262.5 x 46
Operating Temperature	-10°C~50°C						-10°C~60°C	
Net Weight	1 kg	1.8 kgs	3 kgs	3.8 kgs	6 kgs	8.6 kgs	3.3 kgs	6 kgs
Power Adapter	36W, 63000-FSP036RAB610-RS				50W, 63000-FSP050DBAB1411-RS		36W, 63000-FSP036RAB610-RS	

Note: The smartOSD function is supported by revision 11 models and above

Ordering Information

Part No.	Description	
6.5" LCD-KIT65GH-R20	6.5" 800cd/m ² High luminance VGA TFT LCD kit, VGA input, R20, RoHS	
8.4"	LCD-KIT84GH-R20	8.4" 450cd/m ² High luminance SVGA TFT LCD kit, VGA input, R20, RoHS
	LCD-KIT84GHM-R21	8.4" 450cd/m ² High luminance SVGA TFT LCD kit, VGA input, 9~36V DC input, R21, RoHS
10.4"	LCD-KIT104GH-R20	10.4" 400cd/m ² High luminance SVGA TFT LCD kit, VGA input, R20, RoHS
	LCD-KIT104GHM-R21	10.4" 400cd/m ² High luminance SVGA TFT LCD kit, VGA input, 9~36V DC input, R21, RoHS
12.1"	LCD-KIT121GX-R20	12.1" 500cd/m ² XGA TFT LCD kit, VGA and DVI-D input, R20, RoHS
	LCD-KIT121GXM-R21	12.1" 500cd/m ² XGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R21, RoHS
	SRM-KIT121XA-R20	12.1" 1000 cd/m ² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, R20, RoHS
	SRM-KIT121XMA-R21	12.1" 1000 cd/m ² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, w/9-36V DC input, R21, RoHS
15"	LCD-KIT150G-R20	15" 350cd/m ² XGA TFT LCD kit, VGA and DVI-D input, R20, RoHS
	LCD-KIT150GM-R21	15" 350cd/m ² XGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R21, RoHS
	SRM-KIT150G-R20	15" 800 cd/m ² Sun Rdadable XGA TFT LCD kit, VGA and DVI-D input, R20, RoHS
	SRM-KIT150GM-R21	15" 800 cd/m ² Sun Readable XGA TFT LCD kit, VGA and DVI-D input, w/9-36V DC input, R21, RoHS
17"	LCD-KIT170GS-R20	17" 300cd/m ² SXGA TFT LCD kit, VGA and DVI-D input, R20, RoHS
	LCD-KIT170GM-R21	17" 300cd/m ² SXGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R21, RoHS

Note: The smartOSD function is supported by revision 11 models and above

1
IEI Mobile Solutions

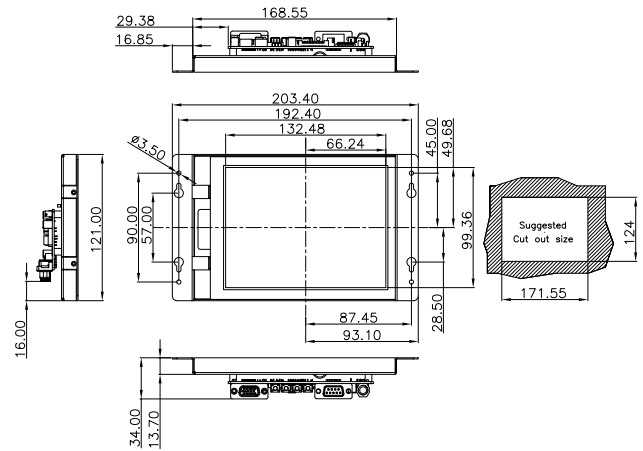
2
Automation Panel Solutions

3
RISC-based Solutions

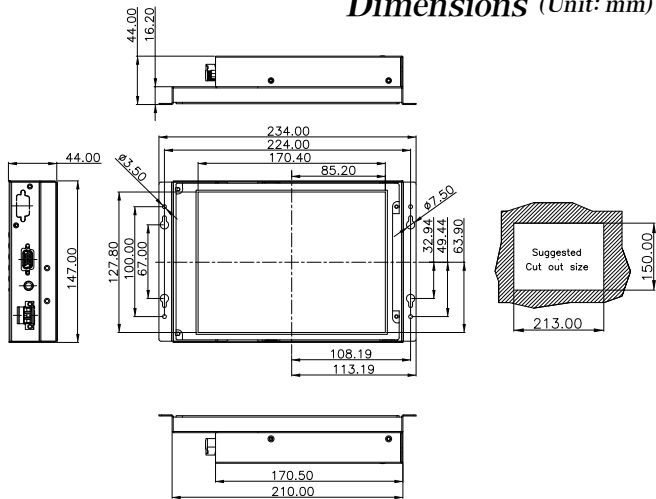
4
PACSmart Medical Solutions

5
Optional Peripherals

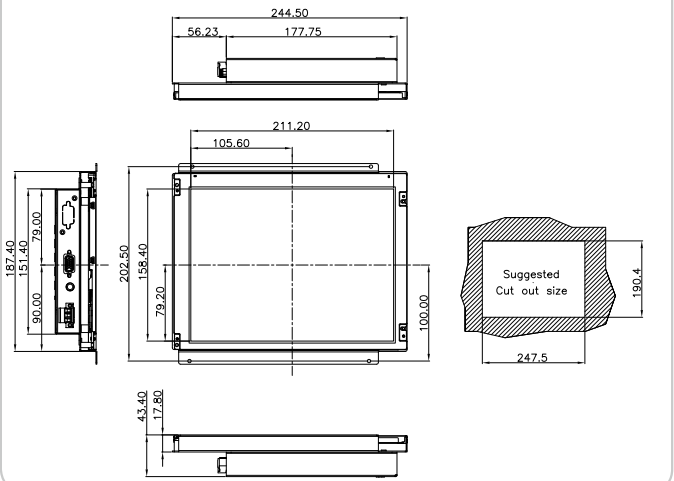
LCD-KIT65GH
Dimensions (Unit: mm)



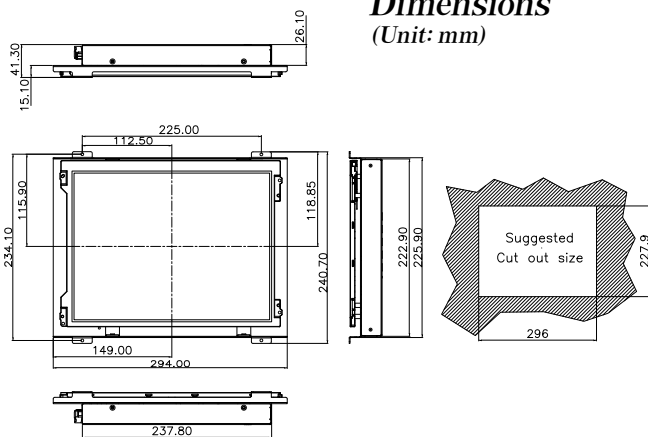
LCD-KIT84GH
Dimensions (Unit: mm)



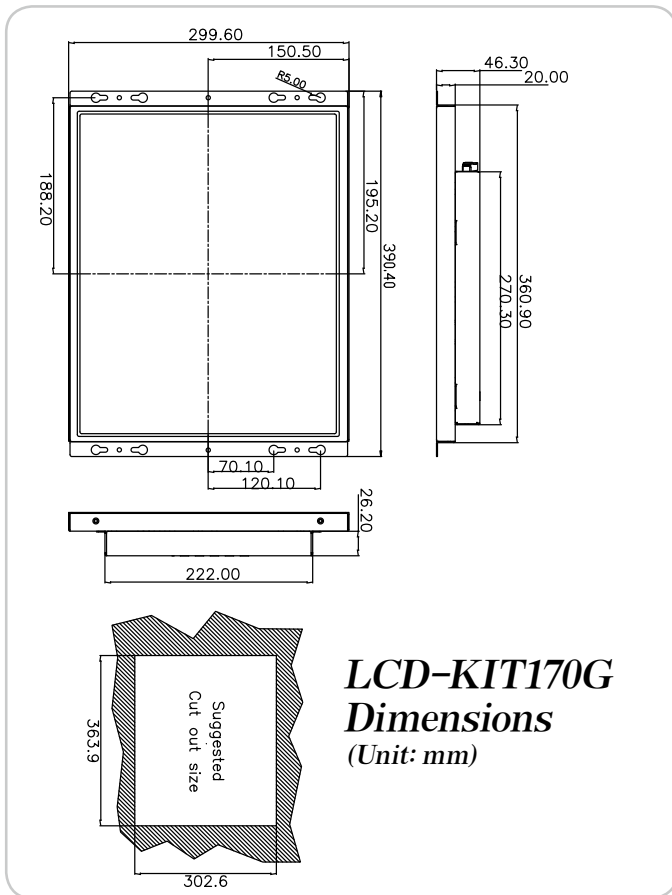
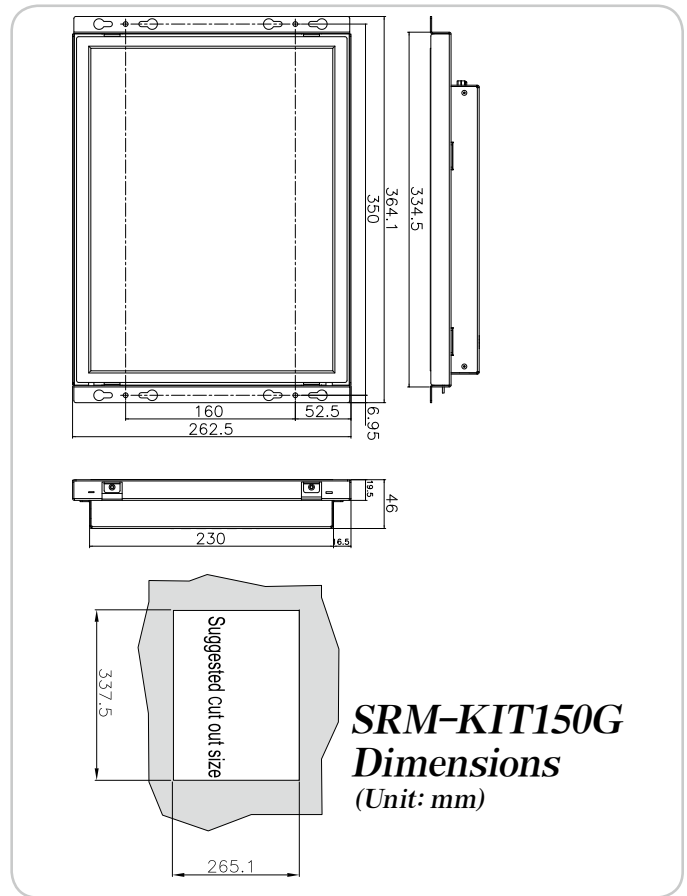
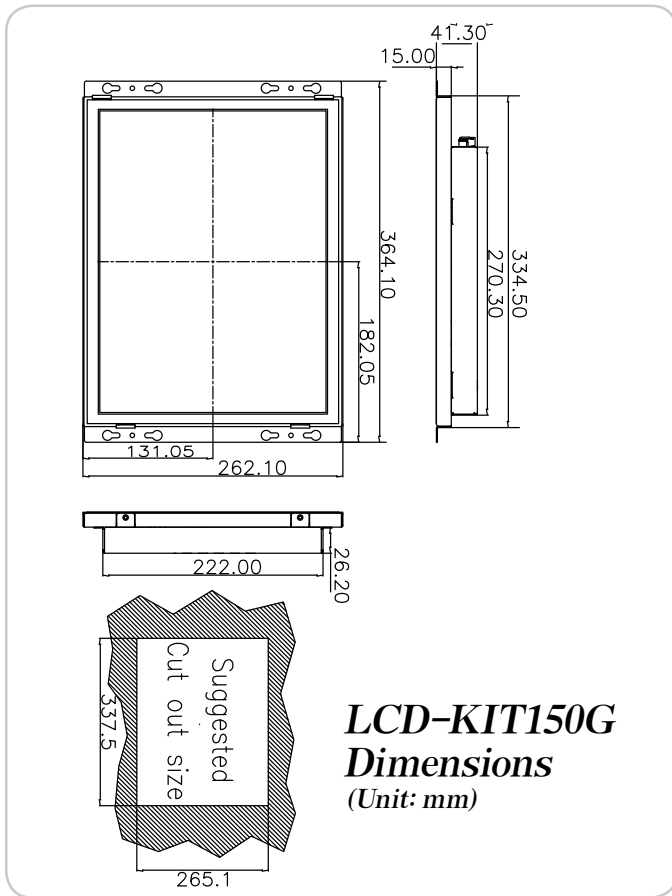
LCD-KIT104GH
Dimensions (Unit: mm)



LCD-KIT121G
Dimensions (Unit: mm)



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- 4 PACsmate Medical Solutions
- 5 Optional Peripherals



- 1**
IEI Mobile Solutions
- 2**
Automation Panel Solutions
- 3**
RISC-based Solutions
- 4**
PACSmate Medical Solutions
- 5**
Optional Peripherals

Touch Screen Series

6.5" ~ 17" Resistive LCD Touch Screen Kit



Features

1. Optical clarity: Total transmission 78 % or more
2. Input through a special stylus or finger 100g or less
3. High reliability and durability in the field

Packing List

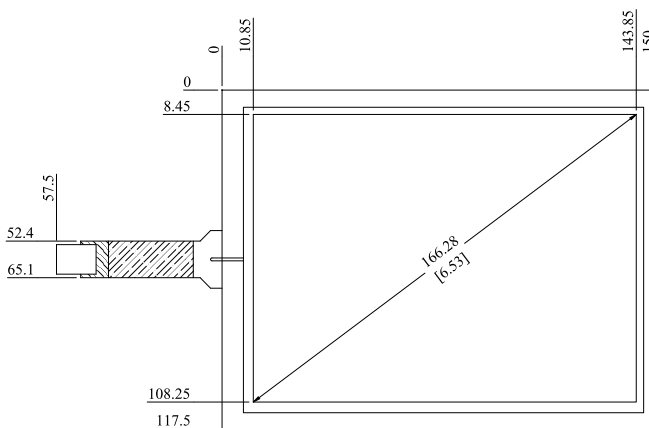
- 1 x Touch screen
- 1 x Controller board
- 1 x Touch cable
- 1 x Touch driver on CD-ROM
- 1 x RS-232 / USB cable



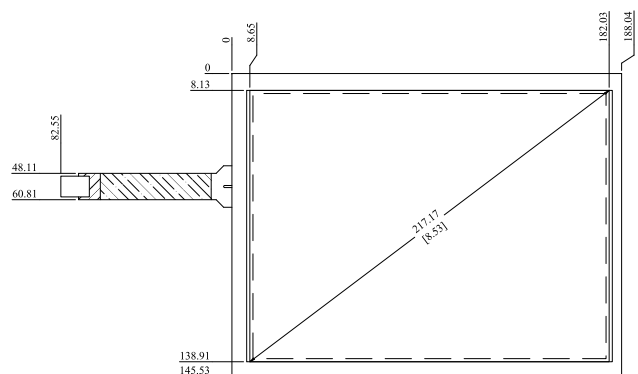
Ordering Information

Touch Screen Kit		IEI Products	Sensor
RS-232	USB		
T-R065G	T-R065G-USB	DM-65GS, LCD-KIT65G	4-Wire
T-R084G	T-R084G-USB	DM-84GS, ISDM-84G, LCD-KIT84G	4-Wire
T-R104G	T-R104G-USB	DM-104GS, ISDM-104G, LCD-KIT104G	5-Wire
T-R121G	T-R121G-USB	DM-121GS, ISDM-121G, LCD-KIT121G	5-Wire
T-R150G	T-R150G-USB	DM-150GS, ISDM-150G, LCD-KIT150G	5-Wire
T-R170G	T-R170G-USB	DM-170GS, ISDM-170G, LCD-KIT170G	5-Wire

T-R065G Dimensions (Unit: mm)



T-R084G Dimensions (Unit: mm)



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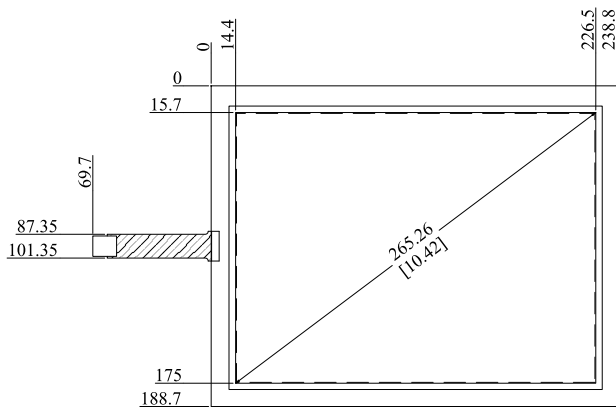
PACsmate Medical Solutions

5

Optional Peripherals

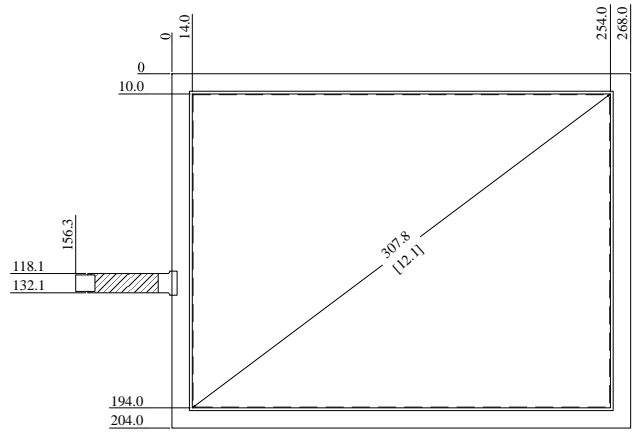
T-R104G

Dimensions (Unit: mm)



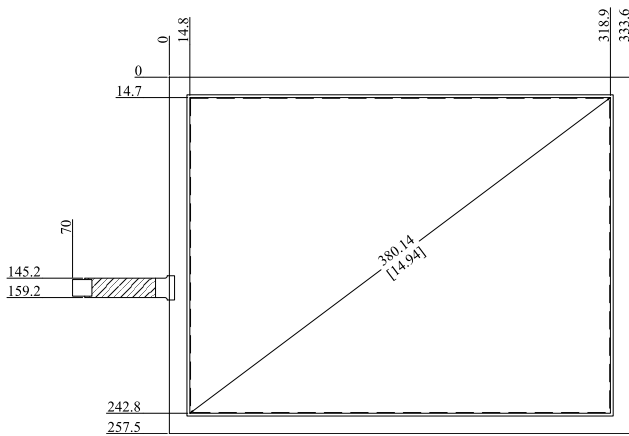
T-R121G

Dimensions (Unit: mm)



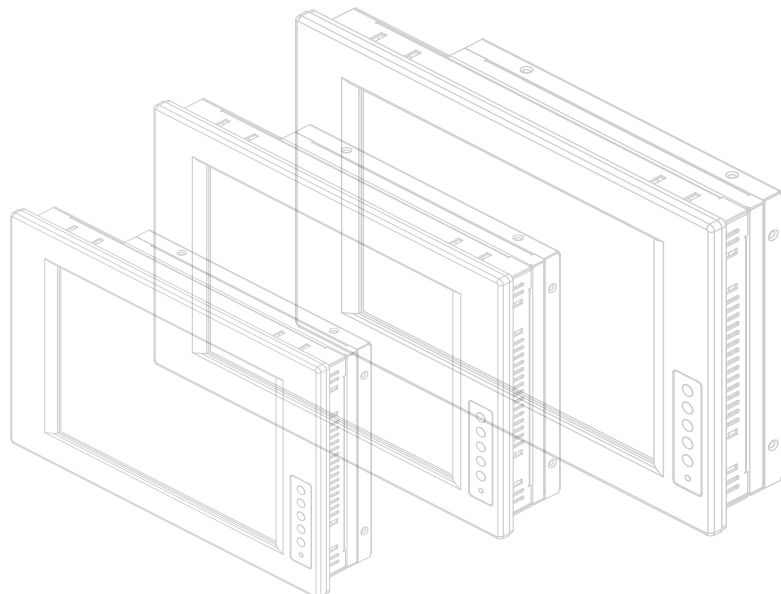
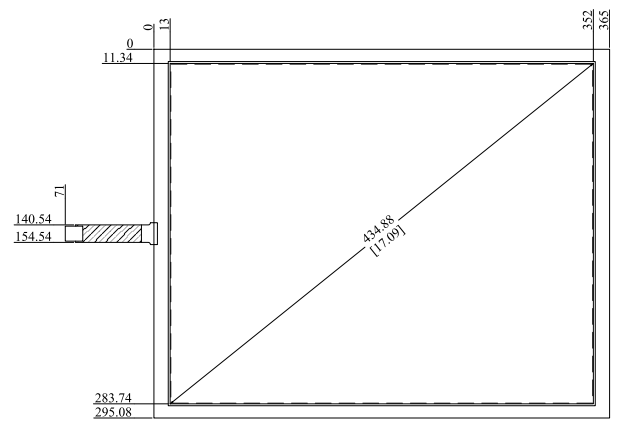
T-R150G

Dimensions (Unit: mm)



T-R170G

Dimensions (Unit: mm)



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Optional Peripherals

AFOLUX Multimedia Monitors

7"~19" AFOLUX Touch Monitors

- 7"~19" LCD monitor with resistive touch panel
- Multiple video input interface: VGA/S-Video/Component/Composite/DVI
- PIP function
- Ambient light sensor
- Built-in two speakers
- IP 64 front panel protection



■ Stylish Design

The clean and refreshingly simple look of the AFOLUX monitor provides an aesthetic interface for public area applications (e.g. ATMs) and industrial solutions (e.g. operator terminal).



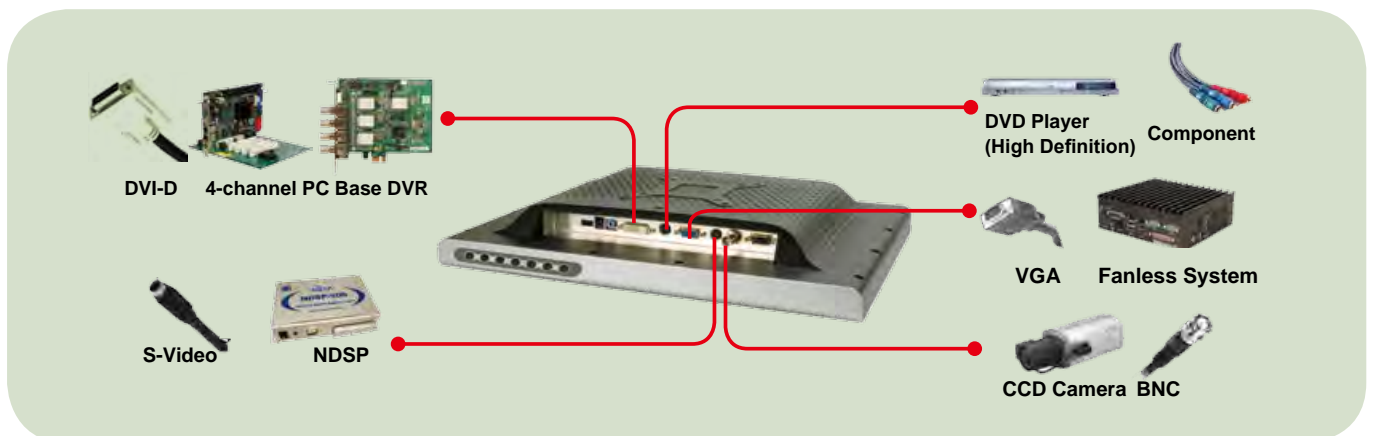
■ Light Weight Construction

Light weight construction ensures the AFOLUX can be mounted on a rack, panel and VESA stand.



■ Five Video Inputs

The AFL-15M/17M/19M have multiple video inputs through common video connectors including VGA, DVI-D, S-Video, component and BNC video input interfaces. The 5-in-1 system connects to a wide range of devices and most electronic appliances. (The AFL-07M/08M/10M/12M are 4-in-1 systems with VGA, S-Video, component and composite)



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- 5 Optional Peripherals

■ PIP Function

PIP enables a second video/image to be viewed in a small on-screen window. Images from other sources including DVR and DVD devices can also be viewed in the PIP window.

The small on-screen window can be easily resized and moved to a specified onscreen location. Alternatively, "picture-outside-picture" (POP) can be implemented by dividing the screen into two equally sized portions with two different outputs being displayed on either screen.

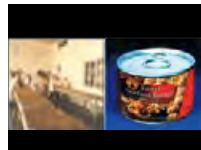
PIP Settings :

- Three sizes including small, medium and large
- Four positions including upper left, lower left, upper right and lower right.
- Independent PIP window color controls (brightness, contrast, hue and saturation)
- A blend function makes the PIP transparent

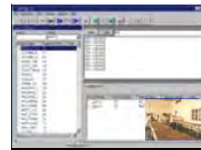
Main screen and sub screen can't display BNC/S-Video or VGA/YPbPr inputs at the same time



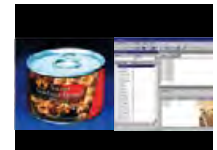
Picture In Picture (Video on Video)



Side by Side (Video & Video)



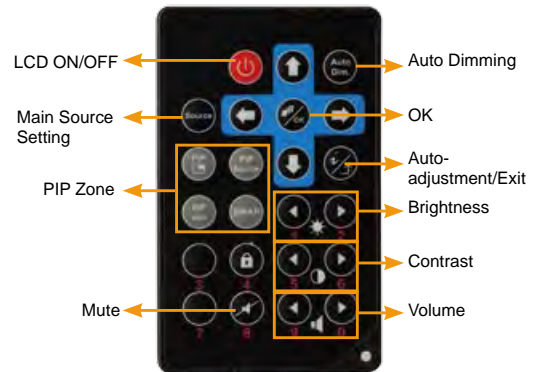
Picture In Picture (Video on Graphics)



Side by Side (Video & Graphics)

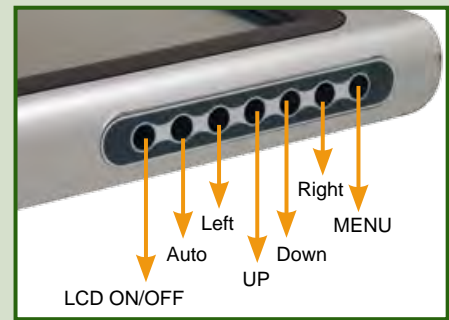
■ Remote Control for OSD Function

Hot-keys on the remote control include PIP zone, main source setting, auto-dimming, brightness, contrast and volume. Remote control hot-keys ensure easy configuration.



■ Full OSD Function

Integrated OSD functions under the front panel for convenient monitor configuration. Image, display, PIP, color and system configurations can all be set with the hidden OSD.



OSD Keypad is designed for AFL-15M/17M/19M

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4 PACSmate Medical Solutions

5 Optional Peripherals

■ Ambient Light Sensor

The AFOLUX 15M, 17M and 19M models come with an ambient lightsensor (ALS) to ensure your monitor performs optimally in all lighting conditions.

The ALS can be turned on or off according to the user's preference and the operational environment. Some of the ALS benefits include:

- Reduced cost of operation by reducing the power usage
- Extended backlight life
- Provides comfortable viewing



- Higher Ambient Illuminance - Lower Ambient Illuminance

ALS is placed on the front side, where there is an opening for light

■ Applications



Interactive digital signage



Digital menu boards in numerous restaurants



Video gaming machines in bars and casinos

Specifications



Model	AFL-07M	AFL-08MH	AFL-10M	AFL-12M	AFL-15M	AFL-15ME	AFL-17M	AFL-19M
LCD Size	7"	8.4"	10.4"	12.1"	15"	15"	17"	19"
Input Interface	1. Composite (NTSC/PAL) 2. YPbPr 3. S-Video 4. VGA				1. BNC Connector (NTSC/PAL) 2. YPbPr 3. S-Video 4. VGA 5. DVI			
Max. Resolution	800 x 480 (WVGA)	800 x 600 (SVGA)	800 x 600 (SVGA)	1024 x 768 (XGA)	1024 x 768 (XGA)	1024 x 768 (XGA)	1280 x 1024 (SXGA)	1280 x 1024 (SXGA)
Brightness (cd/m ²)	500	450	400	500	350	250	380	450
Contrast Ratio	400:1	600:1	700:1	700:1	700:1	700:1	1000:1	1000:1
Display Color	262K	262K	262K	262K	262K	16.2M	16.7M	16.7M
Pixel Pitch (mm)	0.1905	0.213	0.264	0.24	0.297	0.297	0.264	0.294
Viewing Angle (H/V)	140° / 130°	160° / 140°	160° / 140°	160° / 140°	140° / 125°	170° / 160°	170° / 160°	170° / 160°
Touch Screen	Resistive type 4-wire (touch controller IC is on board)			Resistive type 5-wire (touch controller IC is on board)				
Front Frame	ABS and PC Plastic front frame							
Chassis	Aluminum chassis							
Input Voltage	12VDC							
OSD Function	Remote control for OSD functions				1. OSD Keypad below the front panel 2. Remote control for OSD functions			
Smart-OSD	YES							
Mounting	Panel / Wall mounting (VESA 75 x 75mm)		Panel / Wall mounting (VESA 75 x 75mm / 100 x 100mm)		Wall mounting (VESA 100 x 100mm)			
Color	Gray 7539U				Silver (877U) & Gray (ABSA2037)			
Dimensions (W x H x D mm)	226 x 140 x 40	234 x 184 x 41	276 x 227 x 51	304 x 246 x 50	393 x 308 x 61		428 x 350 x 65	470 x 382 x 67
Operating Temperature	0°C~+50°C							
Front Panel Protection	IP 64 Compliant							
Net Weight	0.88 Kg	1.14 Kg	1.33 Kg	2.12 Kg	3.2 Kg		5.0 Kg	5.6 Kg
Power Adapter	36W, 63000-FSP036RAB610-RS				60W, 63000-FSP060DBAB1553-RS			

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IEI Mobile Solutions

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Automation Panel Solutions

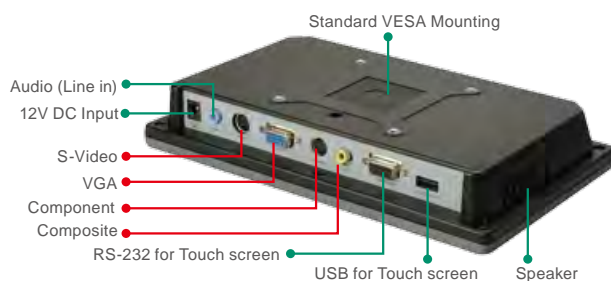
3
RISC-based Solutions

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PACSmate Medical Solutions

5
Optional Peripherals

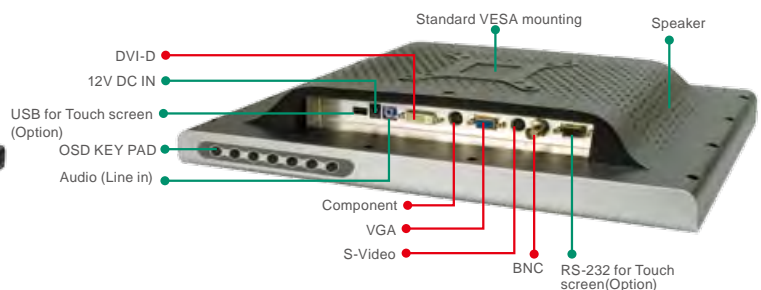
7"~12.1" AFOLUX Monitor

4-in-1 Multiple Video Input System

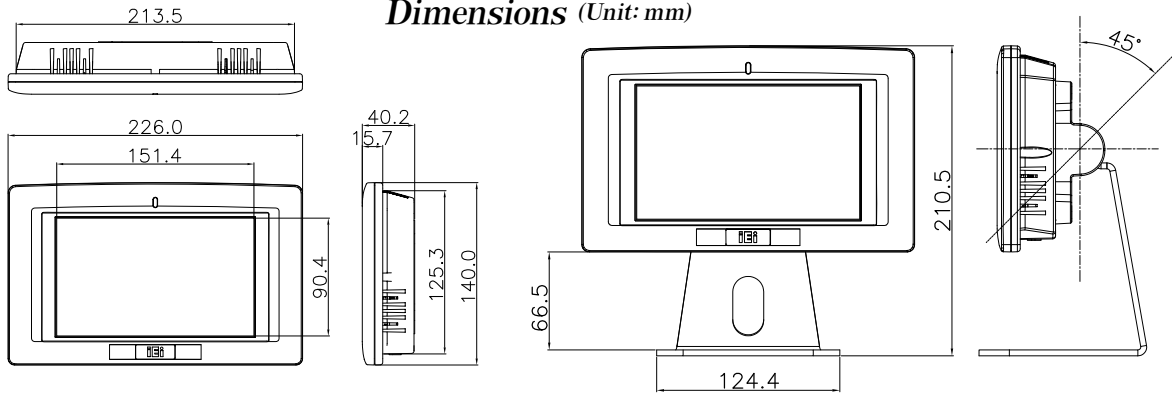


15"~19" AFOLUX Monitor

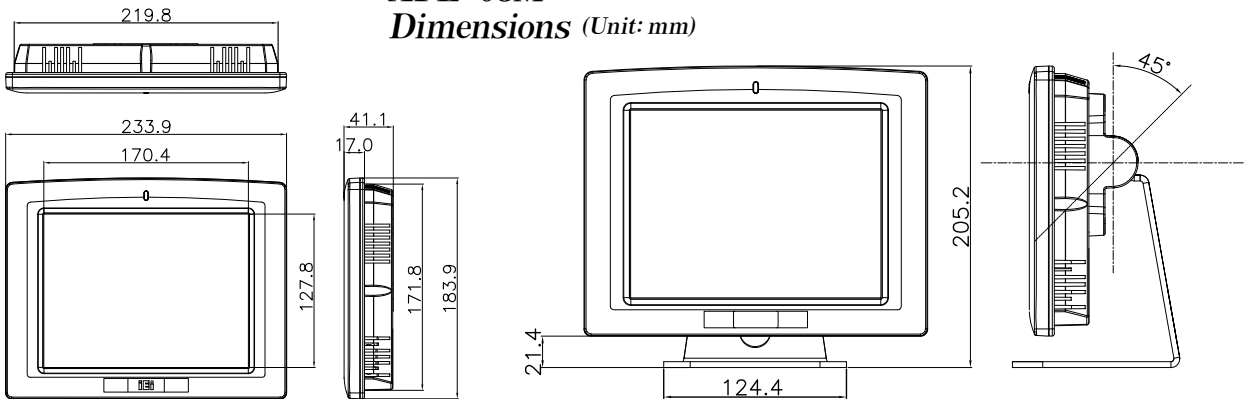
5-in-1 Multiple Video Input System (DVI-D Added)



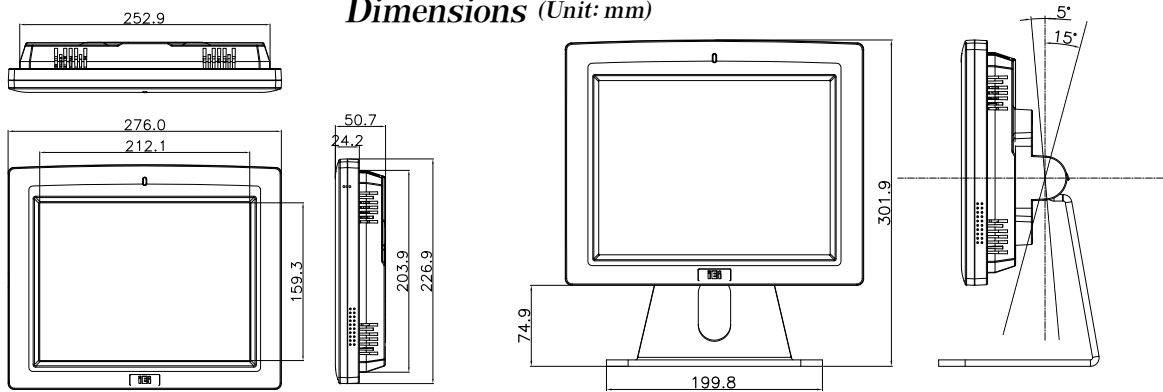
AFL-07M
Dimensions (Unit: mm)



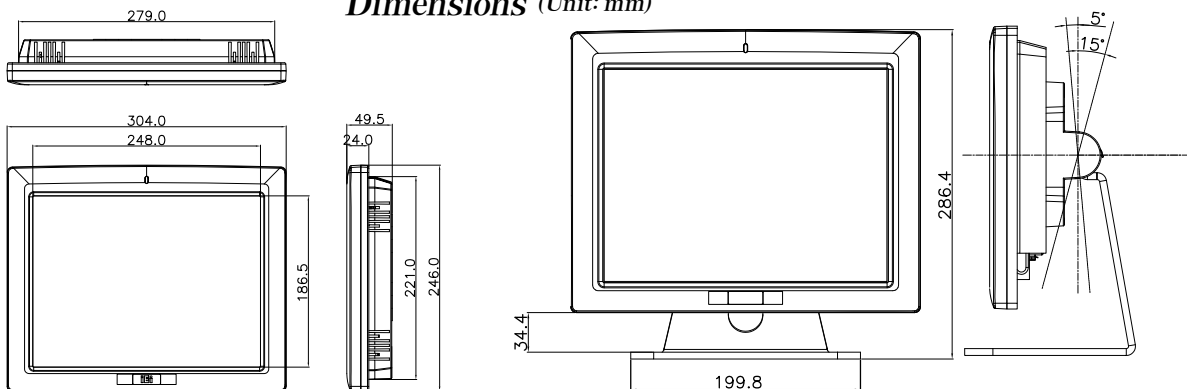
AFL-08M
Dimensions (Unit: mm)



AFL-10M
Dimensions (Unit: mm)



AFL-12M
Dimensions (Unit: mm)



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

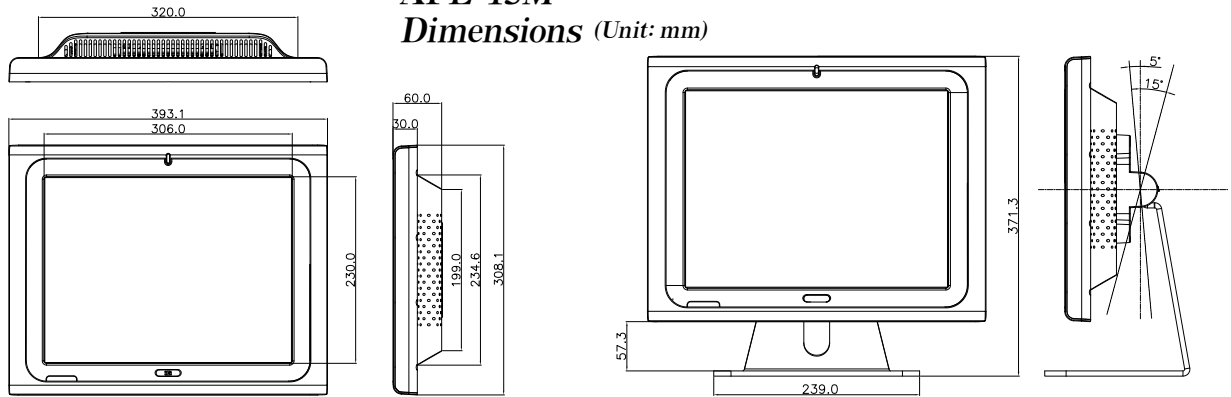
4

PACSmate Medical Solutions

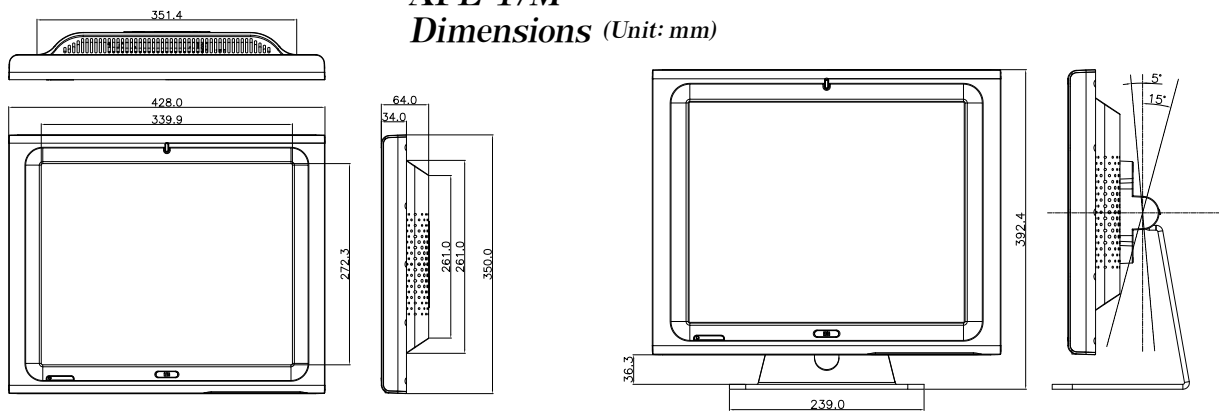
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Optional Peripherals

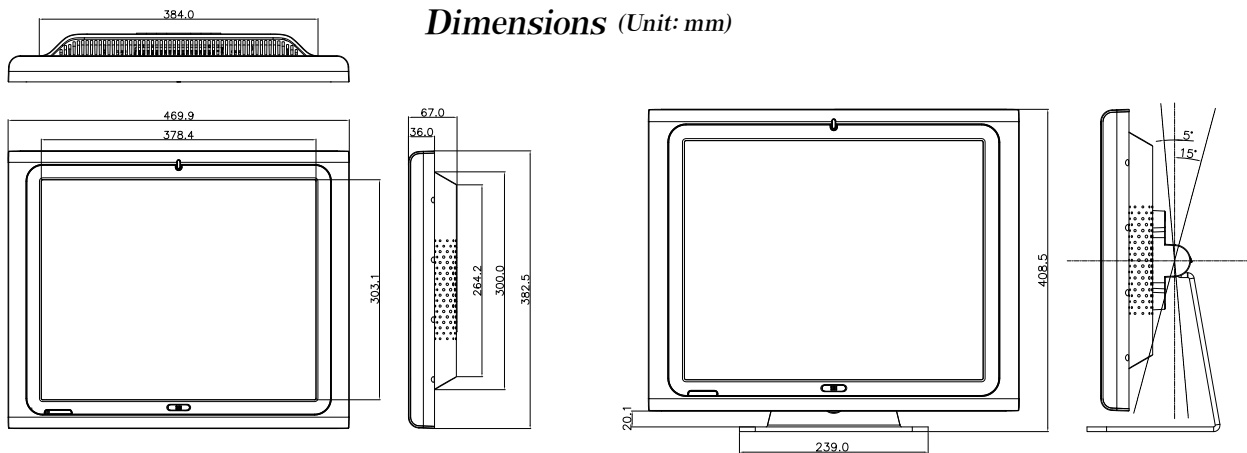
AFL-15M
Dimensions (Unit: mm)



AFL-17M
Dimensions (Unit: mm)



AFL-19M
Dimensions (Unit: mm)



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IEI Mobile Solutions

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Optional Peripherals

Options

Model	AFL-07M	AFL-08MH	AFL-10M	AFL-12M	AFL-15M	AFL-17M	AFL-19M
Panel Mounting Kits	AFLPK-08		AFLPK-12		AFLPK-15	AFLPK-17	AFLPK-19
Wall Mounting Kits	AFLWK-12				AFLWK-19		
Rack Mounting Kits	AFLRK-07	AFLRK-08	AFLRK-10	AFLRK-12	AFLRK-15-R11	AFLRK-17-R11	N/A
LCD Monitor Stand	STAND-A08/STAND-100-RS		STAND-A12/STAND-100-RS		STAND-A19/STAND-B19/STAND-210-R11		
VSTAND	VSTAND-A07	VSTAND-A10		VSTAND-A12	N/A		
DC to DC Converter Module	IDD-930160-KIT						

Ordering Information

Part NO	Description
AFL-07M/R-R20	7" 500cd/m ² WVGA LCD monitor, plastic front panel, gray color, with 7" RS-232 and USB touch screen R20, RoHS
AFL-08MH/R-R20	8.4" 450cd/m ² SVGA LCD monitor, plastic front panel, gray color, with 8.4" RS-232 and USB touch screen R20, RoHS
AFL-10M/R-R20	10.4" 400cd/m ² SVGA LCD monitor, plastic front panel, gray color, With 10.4" RS-232 and USB touch screen R20, RoHS
AFL-12M/R-R20	12.1" 600cd/m ² XGA LCD monitor, plastic front panel, gray color, With 12.1" RS-232 and USB touch screen R20, RoHS
AFL-15M/R-R20	15" 350cd/m ² XGA LCD monitor, plastic front panel, gray color, with 15" RS-232 touch screen R20, RoHS
AFL-15ME/R-R20	15" 250cd/m ² XGA LCD monitor, plastic front panel, gray color, with 15" RS-232 touch screen R20, RoHS
AFL-15M-USB/R-R20	15" 350cd/m ² XGA LCD monitor, plastic front panel, gray color, with 15" USB touch screen R20, RoHS
AFL-15ME-USB/R-R20	15" 250cd/m ² XGA LCD monitor, plastic front panel, gray color, with 15" USB touch screen R20, RoHS
AFL-17M/R-R20	17" 380cd/m ² SXGA LCD monitor, plastic front panel, gray color, With 17" RS-232 touch screen R20, RoHS
AFL-17M-USB/R-R20	17" 380cd/m ² SXGA LCD monitor, plastic front panel, gray color, With 17" USB touch screen R20, RoHS
AFL-19M/R-R20	19" 450cd/m ² SXGA LCD monitor, plastic front panel, gray color, With 19" RS-232 touch screen R20, RoHS
AFL-19M-USB/R-R20	19" 450cd/m ² SXGA LCD monitor, plastic front panel, gray color, With 19" USB touch screen R20, RoHS

Packing List

Description	Part No.	Remark
1 x AC power Cable	32000-089900-RS	Length: 1800 mm (EU or US, Which type of cord is shipped depends on the country)
1 x VGA Cable	32000-036200-RS	Length: 1800 mm
1 x DVI Cable	32000-086600-RS	Length: 1800 mm
1 x Audio Cable	32007-001600-100-RS	Length: 1800 mm
1 x Component Cable	32010-000300-100-RS	Length: 150 mm
1 x Component Extend Cable	32000-132800-RS	Length: 1800 mm
1 x 36W AC Power Adapter	63000-FSP036RAB610-RS	For AFL-07M / 08M / 10M / 12M-R20 series Operating Temperature : 0°C ~ +40°C
1 x 60W AC Power Adapter	63000-FSP060DBAB1553-RS	For AFL-15M / 17M / 19M-R20 series Operating Temperature : 0°C ~ +40°C
1 x User Manual		
1 x Remote Control	7Z000-8T00322ICP01G-RS	
1 x Touch Pen	43125-0002C0-00-RS	
1 x Touch screen RS-232 Cable / USB Cable / Driver CDROM	RS-232 cable: 32005-001100-100-RS USB cable: 32001-006100-100-RS	Length: 1800 mm Length: 1500 mm RS-232 cable is for R models USB cable is for USB models



Remote Control



Touch Pen



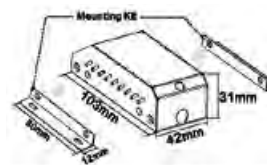
Component Extension Cable



Component Cable

Optional 60W DC/DC Converter Module Spec. (P/N:IDD-930160-KIT)

Input Voltage	9~30VDC
Input Current	Max. 8A at 6VDC
Output	12V @ 5A
Max. Total Output	60W
Performance Characteristics	Noise & ±Ripple: <320mV, Line Regulation: <120mV, Load Regulation: <120mV
Transient Toggle Rate	250 Hz (50% duty ratio)
Transient Current Step	From 0 % to 50 % and 50 % to 100 % of max current
Efficiency	typ. 95% (Vin=12V, 80% of full load)
Dimensions	42 mm x 103 mm x 31 mm
Mounting Kit	12 mm x 80 mm
Cable Length	180 cm
Operating Temperature	-40 °C ~ 85 °C



IDD-930160-KIT



60 W DC/DC converter module can be easily mounted in the vehicle equipment to supply DC power source.

IDD-930160-KIT(Optional)

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IEI Mobile Solutions

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RISC-based Solutions

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Optional Peripherals

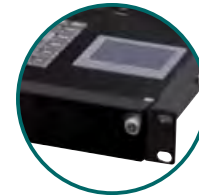
LKM-926G/9268G

15" LCD Monitor/ Keyboard/ Mouse/ Speaker/ KVMA switch 5-in-1 1U Height Drawer



No special cables and connecting up to eight computers !

No special cables required to connect up to 8 computers!
Five functions: LCD monitor, keyboard, mouse, speaker and KVMA switch



LKM-9268G
Two self-click prevents the keyboard from sliding and shaking

Features

1. Outstanding LCD Module : Channel change control, auto scan control, programmable station name
2. KVMA Switch : 8-port KVMA switch can be manually or automatically set via LCD module
3. Standard support of English version keyboard. Optional Japanese, German, French, Italian version keyboard support
4. Embedded speaker can support alarm warning notice or audio application
5. Hot Pluggable - Add or remove computers without having to power down the switch

Specifications

		LKM-926G	LKM-9268G	
System Connections		1	8	
LCD Specifications	LCD Size	15"		
	Resolution	1024 x 768		
	Luminance (cd/m ²)	350 cd/m ²		
	Display Color	262k		
	Viewing Angle (CR=10)	400:1		
	Contrast Ratio	120° / 100°		
LCD MTBF (hrs)		50000		
Connectors	KVMA Port	Keyboard	1 x PS/2 (Purple)	8 x PS/2 (Purple)
		Video	1 x HDB-15 Male (Blue)	8 x HDB-15 Male (Blue)
		Mouse	1 x PS/2 (Green)	8 x PS/2 (Green)
		Speaker	1 x ø 3.5 Stereo Plug (Red)	8 x ø 3.5 Stereo Plug (Red)
		LCM Adjustment	No	Yes
Computer Port Selection		No	Auto-scan/ Pushbutton	
Switch	LCD Power	1 x Pushbutton		
	Speaker	1 x Pushbutton		
	LCM Adjustment	No	3 x Pushbutton	
Color		Black (PANTONE Black C) or White (PANTONE 413C)		
Environment	Operating Temp.	0~50°C		
	Humidity	5-95%, non-condensing		
	Shock	10G acceleration peak to peak (11ms)		
	Vibration	5-17Hz, 0.1" double amplitude displacement. 17-640Hz, 1.5G acceleration peak to peak.		
Physical Properties	Housing	Metal		
	Dimensions (L x W x H mm)	482 x 323.25 x 520		

Packing List

Part Number	Description	Amount
41020-009501-00-RS	Rack mount bracket (Long)	2
41020-009001-01-RS	Rack mount bracket (Short)	2
LKM-CB18A-RS	1.8M cable Set	1
32000-000002-RS	18.3 cm round cable power cord	1
19600-000082-RS	Screw set	1
63SPU45E201-000-RS	AD/DC power supply (For AC input model)	1
63000-ACEN023T-RS	48 VDC/DC power supply (For 48VDC input model)	1
63000-ACEN023C-RS	24 VDC/DC power supply (For 24VDC input model)	1

LKM-926G/9268G Dimensions (Unit: mm)

Outstanding LCD Module
* Display station number
* Auto scan or user manually selected setting

Ordering Information

LKM-926G [C] - [L]-R20	Single Input 15" LCD / Keyboard / Mouse / Speaker 1U drawer includes 1.1M length cable set.AC Input, R20
LKM-926G [C] T - [L]-R20	Single Input 15" LCD / Keyboard / Mouse / Speaker 1U drawer includes 1.1M length cable set. 48VDC input, R20
LKM-926G [C] - [C] - [L]-R20	Single Input 15" LCD / Keyboard / Mouse / Speaker 1U drawer includes 1.1M length cable set. 24VDC input, R20
LKM-9268G [C] - [L]-R20	8 input 15" LCD / Keyboard / Mouse / Speaker 1U drawer, AC input, R20
LKM-9268G [C] T - [L]-R20	8 input 15" LCD / Keyboard / Mouse / Speaker 1U drawer, 48VDC input, R20
LKM-9268G [C] - [C] - [L]-R20	8 input 15" LCD / Keyboard / Mouse / Speaker 1U drawer, 24VDC input, R20

[C] Color Code B: Black W: White

[L] Language Code EN: English, JP: Japanese, DE: German, FR: French, IT: Italian, TW: Traditional Chinese, SP: Spanish, RU: Russian

Options

LKM-CB18A-RS	1.8 M cable set; includes VGA, Keyboard, Mouse and Audio cable
LKM-CB30A-RS	3.0 M cable set; includes VGA, Keyboard, Mouse and Audio cable
LKM-CB50A-RS	5.0 M cable set; includes VGA, Keyboard, Mouse and Audio cable

LKM-927G/9278G

17" LCD Monitor / Keyboard / Mouse / Speaker / KVMA Switch 5-in-1 1U Height Drawer



LKM-9278GW



LKM-9278GB

No special cables required for connecting up to eight computers!



Convenient OSD Control Buttons



Two internal Speakers with audio on/off switch



Touch pad and two control buttons



Two self-clinch prevents the keyboard from sliding and shaking



Auto-scanning, selecting and editing computer ports by LCD module control buttons

5-in-1 1U height drawer! LCD monitor, keyboard, mouse, speaker and KVMA switch

The LKM-927G and LKM-9278G LCD KVMA control units allow secure access to one or multiple computers from a single KVMA (keyboard, video, mouse and audio) console in a system rack.

A single LKM-927G or LKM-9278G can control up to 8 computers. The LKM-927G and LKM-9278G both feature 17" LCD monitor and keyboard with built-in touchpad in a 1U rack. The five-in-one space-saving design has either one (LKM-927G) or eight (LKM-9278G) ports to be conveniently installed in 1U system rack.

Specifications

		LKM-927G	LKM-9278G
System Connections		1	8
LCD Specifications	LCD Size	17"	
	Resolution	1280x1024	
	Luminance (cd/m ²)	380	
	Display Color	16.7M	
	Viewing Angle (CR=10)	170° / 160°	
	Contrast Ratio	1000:1	
LCD MTBF		50000 hrs	
Connectors	Keyboard	1 x PS/2 (Purple)	8 x PS/2 (Purple)
	KVMA Video	1 x HDB-15 Male (Blue)	8 x HDB-15 Male (Blue)
	Mouse	1 x PS/2 (Green)	8 x PS/2 (Green)
	Speaker	1 x ø 3.5 Stereo Plug (Red)	8 x ø 3.5 Stereo Plug (Red)
	LCM Adjustment	No	Yes
Computer Port Selection		No	Auto-scan / Pushbutton
Switch	LCD Power	1 x Pushbutton	
	Speaker	1 x Pushbutton	
	LCM Adjustment	No	3 x Pushbutton
Color		Black (PANTONE Black C) or White (PANTONE 413C)	
Environment	Operating Temp.	0~50 °C	
	Humidity	5%~85%RH	
	Shock	10G acceleration peak to peak (11ms)	
	Vibration	5-17Hz, 0.1" double amplitude displacement.17-640Hz, 1.5G acceleration peak to peak.	
Physical Properties	Housing	Metal	
	Weight	17kg	
	Dimensions (L x W x H)	57.2 x 48.2 x 4.4 cm (17"/1U)	

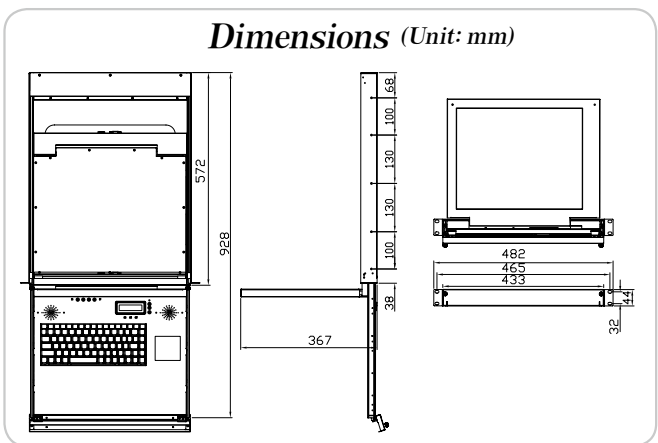
Packing List

Part Number	Description	Amount
41020-009501-00-RS	Rack mount bracket (Long)	2
41020-009001-01-RS	Rack mount bracket (Short)	2
LKM-CB18A-RS	1.8M cable set	1
32000-000002-RS	18.3 cm round cable power cord	1
19600-000082-RS	Screw set	1
63SPU45E201-000-RS	AD/DC power supply (For AC input model)	1
63000-ACEN023T-RS	48 VDC/DC power supply (For 48VDC input model)	1
63000-ACEN023C-RS	24 VDC/DC power supply (For 24VDC input model)	1

Features

1. Integrated KVMA console (88-key keyboard and touchpad) with 17" LCD monitor in a 1U rack maximizes space in your control center.
2. Supports up to 1280x1024 resolution
3. Wide viewing angles: 160° wide viewing angle for easy viewing
4. Hot-pluggable capabilities enables the addition or removal of computers without having to power down the switch
5. Multiple languages supported: English, Japanese, German, French, Italian, Traditional Chinese, Spanish, and Russian version keyboard supported.
6. Auto-scan mode: Automatically scan the port with an interval of 10 seconds so that users can monitor their activity automatically. (For LKM-9278G)
7. Editable station name: Allow users to name each computer station on the LCD module to easily manage every station. (For LKM-9278G)
8. Optional DC power input: 48 VDC or 24 VDC power input options for more mobile and server room applications

Dimensions (Unit: mm)



Ordering Information

LKM-927G [C] - [L] -R20	Single input 17" LCD Monitor / Keyboard / Mouse / Speaker 1U Drawer with individual monitor and keyboard module, AC input, R20
LKM-927G [C] T - [L] -R20	Single input 17" LCD Monitor / Keyboard / Mouse / Speaker 1U Drawer with individual monitor and keyboard module, 48VDC input, R20
LKM-927G [C] C - [L] -R20	Single input 17" LCD Monitor / Keyboard / Mouse / Speaker 1U Drawer with individual monitor and keyboard module, 24VDC input, R20
LKM-9278G [C] - [L] -R20	8 inputs 17" LCD Monitor / Keyboard / Mouse / Speaker 1U drawer with individual monitor and keyboard module, AC input, R20
LKM-9278G [C] T - [L] -R20	8 inputs 17" LCD Monitor / Keyboard / Mouse / Speaker 1U drawer with individual monitor and keyboard module, 48VDC input, R20
LKM-9278G [C] C - [L] -R20	8 inputs 17" LCD Monitor / Keyboard / Mouse / Speaker 1U drawer with individual monitor and keyboard module, 24VDC input, R20

Note:

[C] Color Code B: Black W: White

T: 48VDC power input model

C: 24VDC power input model

[L] Language Code EN: English, JP: Japanese, DE: German, FR: French,

IT: Italian, TW: Traditional Chinese, SP: Spanish, RU: Russian

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Optional Peripherals

IOVU Series PPC

IOVU (Input and Output Viewer) series enables the great embedded flexibility for RISC-based panel PC. Built with a XScale or Alchemy CPU, LCD display, touch screen, I/O peripherals, and pre-installed Windows® CE 5.0 or embedded Linux, the IOVU series provides the most cost-effective and stable solution for a diverse range of embedded RISC-based panel PC applications. The supported software includes thin client technology, remote management tool, embedded OS SDK (software development kit) and BSP (board support package).



▶▶ Equipped with RISC CPU and Windows® CE embedded OS, the IOVU series panel PCs are with high-performance computing power, fanless design, low-power consumption, wide operating temperature, and wide-input-voltage range.

▶▶ The IOVU is designed for high durability in harsh environments, due to its rugged, compact, low power consumption, and embedded system hardware design without failure-prone hard disk and fan. Each IOVU equips with an IP 65 or IP 64 compliant front panel to protect against accidental contacts of foreign bodies and against water.

▶▶ Each IOVU is driven by an powerful RISC CPU with built-in WDT (Watchdog Timer) functions, has a touch screen TFT display, and comes with a series of integrated external peripheral connectors including Ethernet ports, serial ports, USB ports, audio ports, SD Card slot, and optional wireless communication modules supporting Wi-Fi 802.11 b/g, Bluetooth, GPS, or GSM/GPRS.



Applications and Mounting Options

The IOVU series (IOVU-430M excluded) utilizes the 75x75 VESA mount standard, allowing for a wide range of mounting options in various industry applications.

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Optional Peripherals

Wall Mount



Panel Mount



Gaming



Vehicle PC



Industrial Automation



Home/Building Automation



75 x 75 VESA Mount



Arm Mount



Multimedia / Digital Signage

IOVU Intelligent Panel PC



Introduction

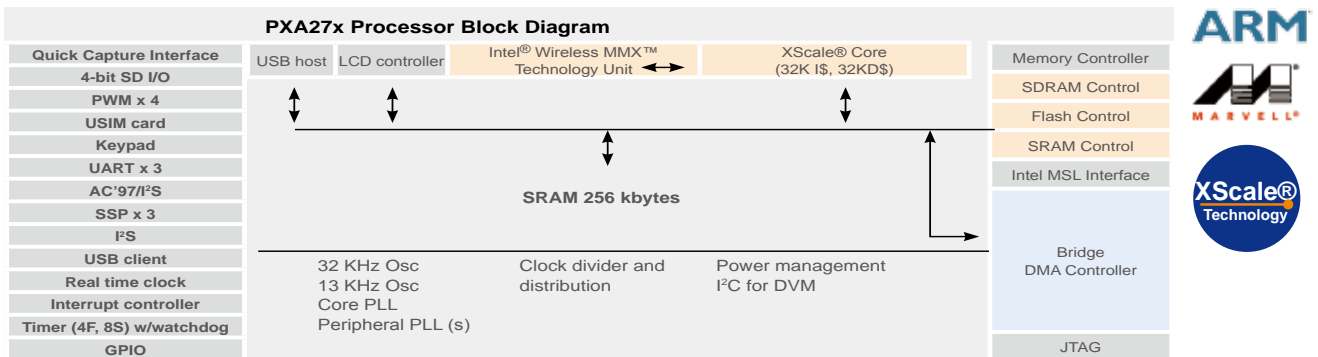
IOVU series enables the great embedded flexibility for RISC-based panel PC applications. Built-in XScale or Alchemy CPU, LCD display, touch screen, I/O peripherals and pre-installed Windows® CE5.0 and Windows® CE6.0, the IOVU series provides the most cost-effective and stable solution for a diverse range of embedded RISC-based panel PC application. IOVU provides an easy way to collect, transfer, process, access and manage data which is generated or inquired in various applications such as factory automation, home automation, medical, transportation management, and POS.

RISC-based Solutions : The best platform for embedded system and Panel PC

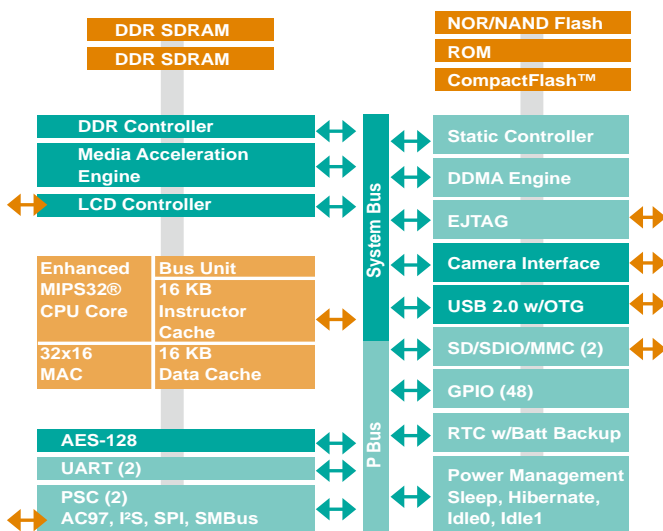
	4.3"	5.7"	7"
Model Name	IOVU-430M	IOVU-570M IOVU-572M	IOVU-751R IOVU-752S
CPU	XScale® PXA270 416 MHz	Xscale® PXA 520 MHz Xscale® PXA 624 MHz	Alchemy AU1250 500 MHz Samsung S3C6410 ARM11 677 MHz
Memory	128MB	128MB/256MB	256MB
Feature	1. Projected- capacitor type multi touch screen 2. Built-in Wi-Fi 802.11b/g function 3. GPIO and CAN-bus control	1. Compact form factor 2. Built-in Wi-Fi 802.11b/g function	1. PoE available 2. MPEG 1/2/4 support

MARVELL XScale® PXA270 and RMI Alchemy™ AU1250

High performance, ultra low power, lower cost, faster time-to-market, ARM V5TE compliant and robust tool chains make XScale® technology a compelling choice for applications ranging from smaller multimedia portable devices to high performance I/O or network applications.



IEI provides RMI Alchemy™ RISC-based technology to enable users to play DVD quality video efficiently at full-frame rates with low power consumption. The integrated MAE (Media Acceleration Engine) supports common digital video media including MPEG1, 2, 4, DivX, and WMV9 scaled up to 1024 x 768 pixel resolution, and delivers full D1 resolution without the need for a DSP or specialized coding.



	RMI Alchemy™ Au1250™	AMD Geode™ AMD® LX800
CPU Speed	500 MHz	500MHz
Companion Chipset	No need	AMD® CS5536
Super I/O	No need	Winbond W83627EHG
System Memory	DDR2/DDR3	DDR
Multimedia Support	Built-in Hardware MAE	MPEG1/2 with Software codec
H.D.D I/F	IDE	IDE
LCD I/F	24-bit TTL	24-bit TTL
Power Consumption	492 mW	4W
Working Temperature	-40°C ~ 100°C	0°C ~ 50°C or -10°C ~ 70°C
Embedded OS Support	Windows® CE and Embedded Linux	Windows® XP/XPe/CE

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Software Support

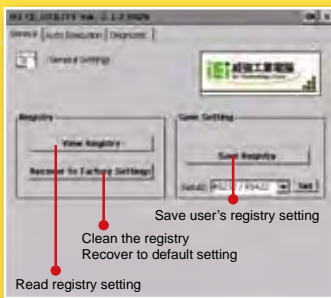
SDK (Software Development Kit)

- Included Software Development Kit (SDK) for eMbedded Visual C++ to program Windows® CE application.
- Built-in .NET Compact Framework support with related SDK.
- Thin Client Technology, Microsoft RDP (Remote Desktop Protocol), to enable IOVU series to access Microsoft Windows® based applications installed on Microsoft Terminal Service server.
- The SDK includes GUI, sample code, and tool chain for users to build the custom application easily.



IEI WinCE Utility

- Free pre-installed utilities for configuring and diagnosing your IOVU series panel PC

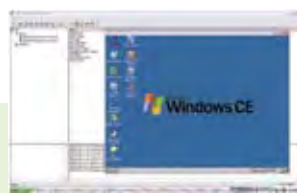


Easy to set programs for auto execution

Quickly verify peripheral function and check OS / Boot_loader version

RMT (Remote Management Tool)

- Free pre-installed utilities for configuring and diagnosing your IOVU series panel PC

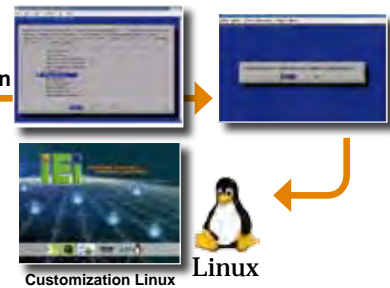


BSP (Board Support Package)

Linux Kernel 2.6.11

- GNU standard Embedded Linux 2.6.11 bootloader and OS image
- Secure Shell (OpenSSH) providing 128-bit, 192-bit or 256-bit encryption between the IOVU series and another system.
- Built-in web browser and X-window system.
- Related Linux drivers for onboard peripheral I/O, network and audio.
- Optional Board Support Package (BSP) includes kernel source code for customers to customize their own OS image

Embedded Linux Kernel configuration



Windows® CE5.0

- Standard Windows® CE5.0 professional version license.
- Optional Board Support Package (BSP) for customers to customize their own OS image.

Windows® Platform Builder



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Optional Peripherals

IOVU RISC-based Panel PC Specifications



Model Name	IOVU-430M	IOVU-430S	IOVU-570M	IOVU-572M	IOVU-751R	IOVU-752S
SYSTEM						
CPU	XScale® PXA270 416 MHz	Samsung S3C2416 400MHz	XScale® PXA270 520 MHz	XScale® PXA310 624 MHz	Alchemy™ AU1250 500 MHz	Samsung S3C6410 ARM11 677 MHz
Operating System	Win CE 5.0	Win CE 6.0	Win CE 5.0	Win CE 6.0	Win CE 5.0	Win CE 6.0
Bootloader Storage	2 MB	128MB	2 MB	128 MB	2 MB	128 MB
RAM	128 MB SDRAM	128 MB SDRAM	128 MB SDRAM	256 MB DDR2	256 MB DDR2	256 MB DDR2
Program Storage Area	1GB miniSD card	Bootloader Storage	1GB SD card	Bootloader Storage	1GB SD card	Bootloader Storage
DISPLAY						
LCD Size	4.3"	4.3"	5.7"	5.7"	7"	7"
LCD Color	262 K	262 K	262 K	262 K	262 K	262 K
Display Resolution	WQVGA	WQVGA	VGA	VGA	WVGA	WVGA
LCD Brightness (cd/m ²)	500	500	400	400	500	500
Dot Pitch (mm)	0.066(H) x 0.198(V)	0.066(H) x 0.198(V)	0.06(H) x 0.18(V)	0.06(H) x 0.18(V)	0.064(H) x 0.191(V)	0.1905(H) x 0.1905(V)
Viewing Angle (H-V)	140 / 110	140 / 120	140 / 100	140 / 100	140 / 100	140 / 130
Backlight MTBF	10000	20000	50000	50000	50000	50000
Touch Screen	1. Projected Capacitor Type 2. Resistor Type	Resistor Type	Resistor Type	Resistor Type	Resistor Type	Resistor Type
Multimedia Support	MPEG 1	MPEG-1/2/4/H.263	MPEG 1	MPEG 1	MPEG 1/2/4 and WMV9	MPEG-4/H.263/H.264
I/O and COMMUNICATION						
I/O Interface	1 x RS-232/422/485 (software controllable) 1 x Reset button 1 x 10/100Mbps LAN 1 x USB1.1 host 1 x CAN-bus 2.0b 6 x GPIO(voltage range 2.97V~3.63) 1 x 2-pin terminal block DC input 1 x miniSD card slot	1 x RS-232/422/485 COM port (software controllable) 1 x Reset button 1 x 10/100Mbps LAN 1 x USB1.1 host 1 x CAN bus 2.0b 6 x GPIO (voltage range 2.97V~3.63) 1 x 2-pin terminal block DC input 1 x miniSD card slot	1 x RS-232/422/485 (software controllable) 2 x 10/100Mbps LAN 2 x USB1.1 host 1 x SD card slot 1 x Reset button 1 x AT mode power switch 1 x 2-pin terminal block DC input	1 x RS-232/422/485 (software controllable) 2 x 10/100Mbps LAN 2 x USB 1.1 host 1 x SD card slot 1 x Reset button 1 x AT mode power switch 1 x 2-pin terminal block DC input	1 x 4-wired RS-232/422/485 (software controllable) 1 x RS-232 2 x 10/100Mbps LAN (one supports PoE) 2 x USB 2.0 host 1 x Reset button 1 x AT mode power switch 1 x 2-pin terminal block DC input 1 x Power jack	1 x RS-232 COM port 1 x RS-232/422/485 COM port (software controllable) 1 x 10/100Mbps LAN (supports PoE) 2 x USB 2.0 host 1 x Reset button 1 x On/Off power switch 1 x Power jack
Audio	2 x 1W speaker	2 x 1W speaker	2 x 1.5W speaker	2 x 1.5W speaker	2 x 1.5W speaker	2 x 1.5W speaker
Wireless LAN	802.11 b/g	802.11 b/g	802.11 b/g	802.11 b/g	N/A	N/A
DIMENSION						
Construction Material	ABS + PC Plastic	ABS + PC Plastic	ABS + PC Plastic	ABS + PC Plastic	ABS + PC Plastic	Aluminum (Al 6061)
Net Weight (kg)	0.6	0.7	0.7	0.7	0.8	1.2
Front Panel Color	Black	Black	Black	Black	Black	Silver
Dimensions (W x H x D mm)	145 x 104 x 34	145 x 104 x 34	180 x 135 x 45	180 x 135 x 46	226 x 140 x 41	188 x 124 x 40
ENVIRONMENTAL / POWER						
Operating Temperature (°C)	0°C~50°C	0°C~50°C	-20°C~60°C	-10°C~ 60°C	-20°C~60°C	-10°C~ 60°C
Front Panel Protection	IP64 compliant	IP65 compliant	IP64 compliant	IP64 compliant	IP64 compliant	IP64 compliant
Power Mode	AT	AT	AT	AT	AT	AT
Power Requirement	12~36V DC input	12~36V DC input	12~36V DC input	12~36V DC input	6~30V DC input	6~30V DC input
Power Consumption	7 W	7 W	14 W	14 W	14 W	14 W
Vibration and Shock	1. Axes: 3 axes (Vertical / Transverse / Longitudinal) 2. 10 ~ 500Hz, 60min/axis 3. Equivalent to Z: 2.18Grms, X: 1.6Grms, Y: 1.96Grms					
Humidity	5%-90% RH	5%-90% RH	5%-90% RH	5%-90% RH	5%-90% RH	5%-90% RH

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Optional Peripherals

IOVU-430M

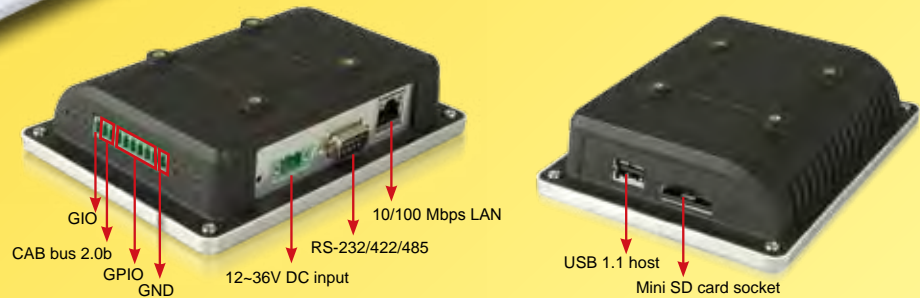
Multi-touch Empowered Arm Based Flat-bezel Panel PC

While touch sensor is commonplace for single points of contact, IOVU-430M's multi-touch sensor enables users to interact with the system with more than one finger at a time. IOVU-430's RISC-based system provides high performance, lower power consumption, wide operating temperature, rugged compact form factor and cost efficiency. Built-in Wi-Fi module, GPIO (General Purpose Input/Output) and CAN-bus control have varied applications be flexible.



Features:

- RISC-based processor provides high performance and extremely low power consumption
- 4.3" widescreen WQVGA TFT LCD with projected-capacitor touch screen
- Multi-touch function provides flexible touch control
- Compact fanless design with plastic housing
- Built-in 1.5w speakers
- Optional 802.11b/g Wi-Fi function
- CAN-bus and GPIO provide flexible industrial control
- Flat multi-touch screen and IP65 compliant
- Mini Secure Digital (SD) card slot for storage expansion



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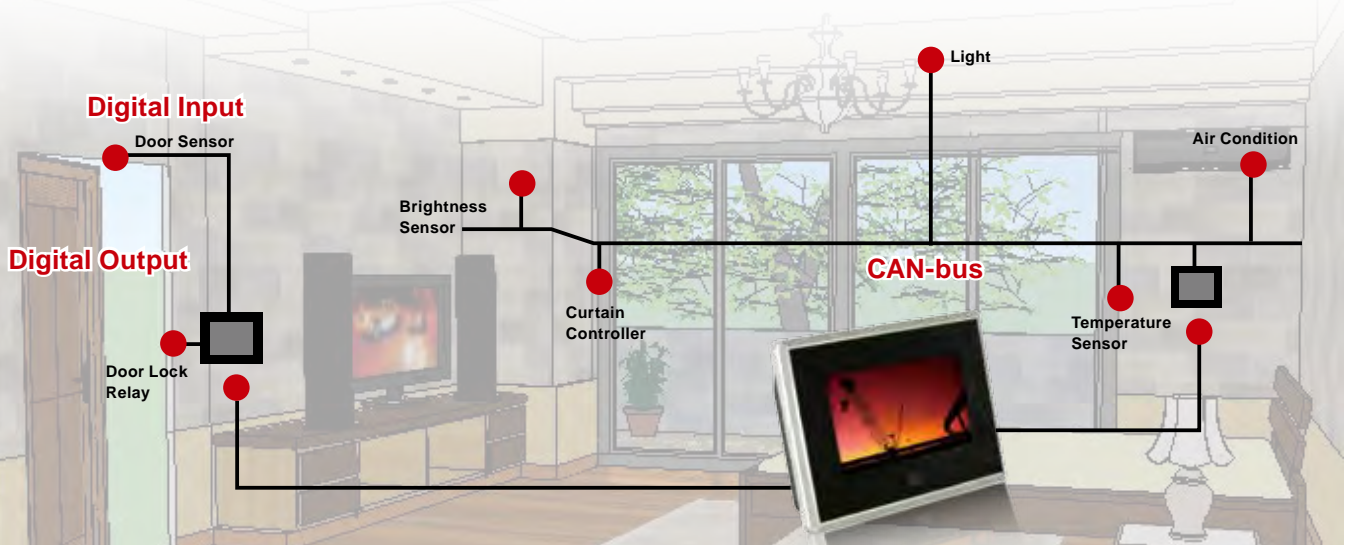
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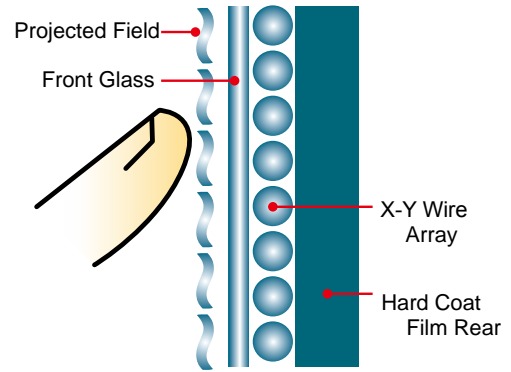
Optional Peripherals

Flexible Connectivity

Designed for automation applications, IOVU-430M provides various control interface choices to fit different automatic control applications. One can use GPIO (General Purpose Input & Output) in single control cases, for instance, to receive door sensor signal via digital input and send output signal to lock relay for door control. Furthermore, IOVU-430M provides CAN-bus connectivity which empowers to compose a smart network in advanced automation applications.



Projected Capacitor Multi-touch



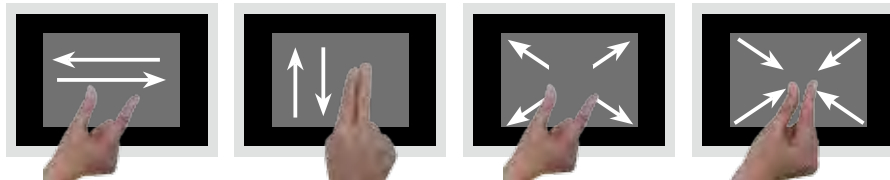
Activated by a finger or gloved hand

● Operation Theory

PCT is based on the principle of embedding an array of micro-fine sensing wires within a multi-layer laminated screen behind a protective front surface, ensuring that the sensing medium is well-protected from accidental and malicious damage.

● IEI IOVU-430M Multi-touch SDK

Empowered by equipping multi-touch technology, IOVU-430M provide users with a more delightful controlling experience. Compared to conventional single-touch technology, now application programmers increase user interface to more friendliness by providing intuitive gesture control methods. IEI shares software development kit and demo AP with source code to support quick software building. IEI IOVU-430M multi-touch SDK provides up to 10 gestures for user to define various users behaviors which makes operating more convenient and interesting.

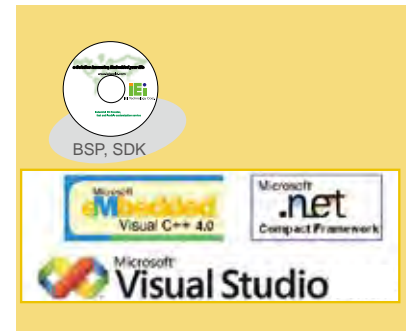


Slide (Multi-touch) Left (Right)

Slide (Multi-touch) Up (Down)

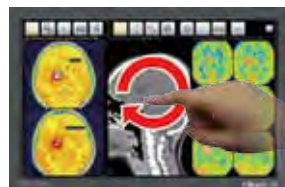
Zoom Out

Zoom In



● Gesture Applications

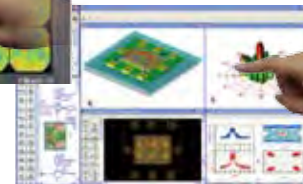
Using a combination of gestures, users can freely rotate, zoom-in, and zoom-out, to emphasize specific photographs, graphics, or diagrams. With the ability to go back to a wider vision of an entire slide, convenience and flexibility is greatly enhanced during the communication process.



Healthcare



Presentation



e-Collaboration

Flat Bezel Panel

The IOVU-430M full-flat surface screen makes the screen and bezel appear to blend seamlessly together. The flat-bezel design removes the front frame (bezel) of standard LCD to create a seamless surface. The IOVU-430M zero-bezel resistive/projective capacitive touch system offers aesthetic elegance, easy to clean, seamless front face.

- Better visual effects
- No EDGE EFFECTS
- Sleek, stylish luxury look without clutter
- Easy clean properties



Full Flat Screen

In-Wall Cage



White in-wall cage



Black in-wall cage

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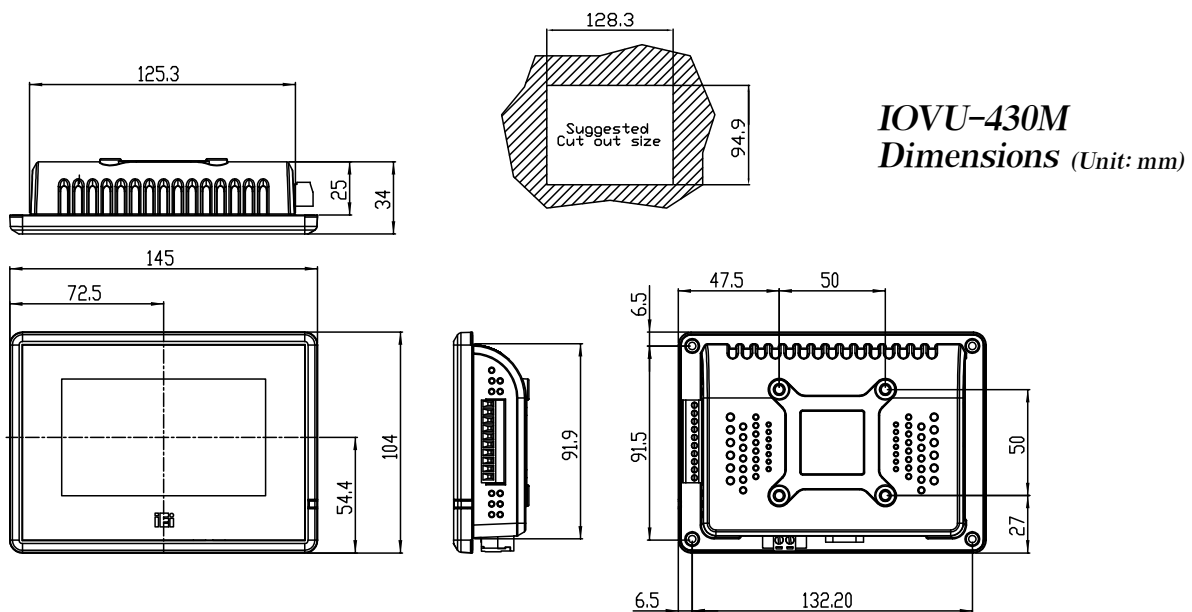
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Optional Peripherals

IOVU-430M Specifications

Model	IOVU-430M	Audio	2 x 1W speaker
LCD size	4.3"	Construction Material	ABS + PC Plastic
Max. Resolution	480 x 272	LED Function	1 x Power ON/OFF LED on front panel
Brightness (cd/m²)	500	Mounting	Wall, stand, vstand and arm (VESA 50 x 50)
LCD Color	262K	Front Panel Color	Black
Pixel Pitch (mm)	0.066(H) x 0.198(V)	Dimensions (W x H x D mm)	145 x 104 x 34
Backlight MTBF	10000 hrs	Operation Temperature (°C)	0°C ~ 50°C
Touch Screen	Projected-Capacitor	Storage Temperature (°C)	-20°C ~ 60°C
CPU	MARVELL XScale PXA270 416MHz	Net Weight (kg)	0.7
RAM	128MB SDRAM	IP Level (Front Panel)	IP 65
Bootloader Storage	2MB boot ROM	Power Requirement	12~36V DC input
OS/Program Storage	1GB miniSD card	Power Consumption	7W
I/O Ports and Switches	1 x RS-232/422/485 COM port (software controllable) 1 x Reset button 1 x 10/100Mbps LAN 1 x USB1.1 host 1 x CAN-bus 2.0b 6 x GPIO (voltage range 2.97V~3.63) 2-pin terminal block DC input		



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Optional Peripherals

Packing List

1 x IOVU-430M
1 x Null modem cable
1 x Screw kits
1 x Utility CD includes SDK, utilities and technical document
1 x Touch pen (only for single-touch mode)

Options

Part No.	Description
63000-FSP060DBAB1555-RS	12V/5A DC 60W power adapter with bare wire, 90~264V AC input
IOVU-430M-IWC/B/-R10	In-wall cage (Black)
IOVU-430M-IWC/W/-R10	In-wall cage (White)

Ordering Information

Part No.	Description
IOVU-430M-CE5/MT/-R10	4.3" TFT, WQVGA fanless with MARVELL XScale PXA270 CPU, 128MB SDRAM, projected-capacitor multi-touch panel PC with built-in Windows® CE 5.0 license
IOVU-430M-CE5/ST/-R10	4.3" TFT, WQVGA fan-less with MARVELL XScale PXA270 CPU, 128MB SDRAM, resistor type single-touch panel PC with built-in Windows® CE 5.0 license
IOVU-430M-CE5/ST/WL/-R10	4.3" XSCALE PXA270 416MHZ resistor type single-touch panel PC with 802.11b/g Wi-Fi function ,built-in Windows® CE 5.0
IOVU-430M-CE5/MT/WL/-R10	4.3" XSCALE PXA270 416MHZ capacitor type multi-touch panEL PC with 802.11b/g Wi-Fi function ,built-in Windows® CE 5.0

IOVU-430S

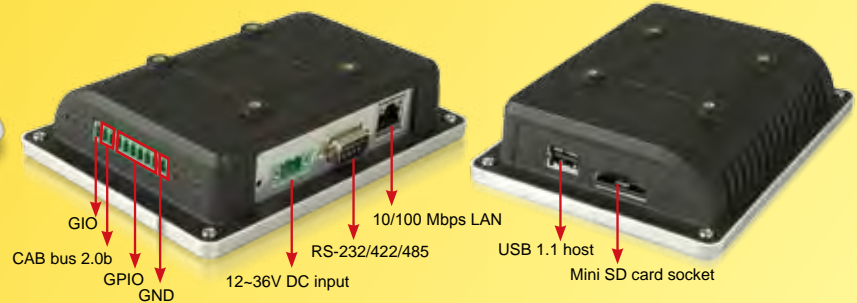
ARM-based Panel PC

New

Built-in Wi-Fi function



Wi-Fi function supports 802.11b/g

**Features**

- RISC-based processor provides high performance and extremely low power consumption
- 4.3" widescreen WQVGA TFT LCD with Resistive-touch
- Compact fanless design with plastic housing
- Built-in 1w speakers
- CAN bus and GPIO provide flexible industrial control
- Flat multi-touch screen and IP65 compliant
- Mini Secure Digital (SD) card slot for storage expansion

Packing List

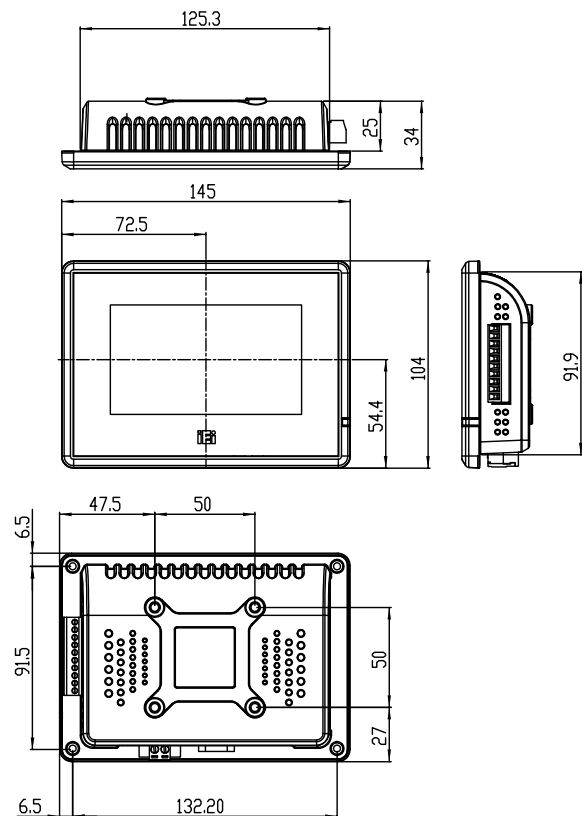
- 1 x IOVU-430S
- 1 x Null modem cable
- 1 x Screw kits
- 1 x Utility CD includes SDK, utilities, and technical document
- 1 x Touch pen (only for single touch mode)

Options

Part No.	Description
63000-FSP060DBAB1555-RS	12V/5A DC 60W power adapter with bare wire, 90~264V AC input
IOVU-430M-IWC/B/-R10	In-wall cage (Black)
IOVU-430M-IWC/W/-R10	In-wall cage (White)

Ordering Information

Part No.	Description
IOVU-430S-CE6/ST/-R10	RISC Panel PC, 4.3" LCD, ARM S3C2416X40-Y640 400MHz CPU, 128MB SDRAM, Win CE6.0, RoHS
IOVU-430S-CE6/ST/WL/-R10	RISC Panel PC, 4.3" LCD, ARM S3C2416X40-Y640 400MHz CPU, 128MB SDRAM with 802.11b/g WiFi function, Win CE6.0, RoHS

Dimensions (Unit: mm)

1

IEI Mobile Solutions

2

Automation Panel Solutions

3

RISC-based Solutions

4

PACsmate Medical Solutions

5

Optional Peripherals

IOVU-570M

ARM-based Panel PC



Built-in Wi-Fi function



Wi-Fi function supports 802.11b/g



SD card

Preinstalled Windows® CE5.0 boot from secure digital card

2 x USB1.1 host
12~36 V DC-IN
Reset button
10/100Mbps LAN RS-232/422/485 (software controllable)



Features

- 5.7" TFT VGA LCD with resistive touch screen
- MARVELL XScale PXA270 520MHz processor and 128MB SDRAM
- Default 1GB Secure Digital card for OS and user data/programs
- Built-in 802.11b/g wireless LAN
- Built-in 1.5W speakers
- IP64 compliant front panel
- Fan-less design for rigorous environments
- Preinstalled Windows® CE5.0 operating system
- Windows® CE5.0 SDK for user application software development

Packing List

1 x IOVU-570M
1 x Utility CD includes application tools, SDK, and technical document
1 x Null modem cable
1 x Touch pen

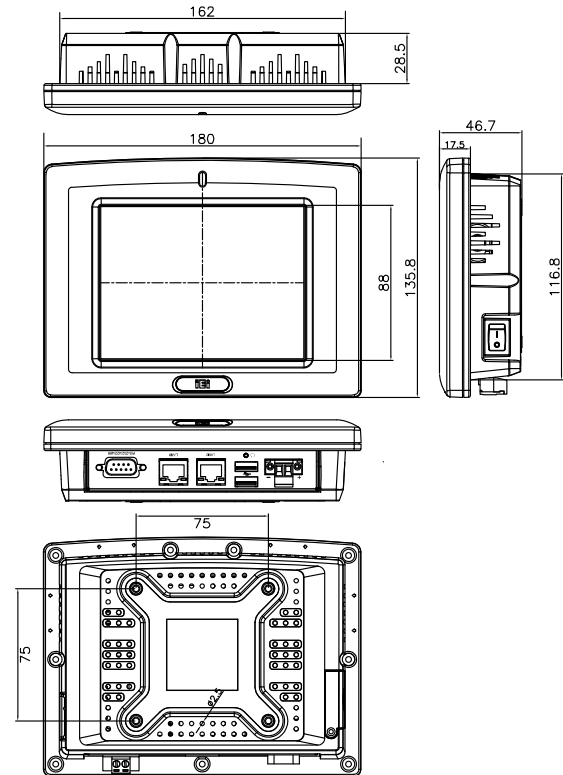
Ordering Information

Part No.	Description
IOVU-570M-CE5-R10	5.7", VGA fanless touch panel PC with MARVELL XScale PXA270 CPU, 128MB SDRAM, 802.11b/g wireless LAN and built-in Windows® CE5.0 operating system

Options

Part No.	Description
AFLPK-12	Panel mounting kit
AFLWK-12	VESA 75 wall mounting kit
ARM-11-RS	LCD monitor/PPC arm kit, loading capacity from 3kg~7kg
STAND-A08-RS	LCD monitor/PPC stand kit for VESA 75 and supports up to 5 Kg
VSTAND-A07	LCD monitor/PPC stand V type for VESA 75, 0~90 degree adjustable hinge and support up to 2.5 Kg
AFLP-12BMSR-U	USB magnetic card reader
AFLP-BRW01-U / AFLPBRB01-U	USB barcode reader (white / black)
AFLP-CDB01 / AFLP-CDW01	VFD customer display (green) 5 x 7 dot matrix (black / white)
63000-FSP060DBAB1555-RS	12V/5A DC 60W power adapter with bare wire, 90~264V AC input

IOVU-570M Dimensions (Unit: mm)



1

IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

IOVU-572M

ARM-based Panel PC

New



Built-in Wi-Fi function



Wi-Fi function supports 802.11b/g



SD card

SD Card Slot for storage

2 x USB 1.1 host
12~36 V DC-IN
Reset button
10/100Mbps LAN
RS-232/422/485
(software controllable)



Features

- 5.7" TFT VGA LCD with resistive touch screen
- MARVELL XScale PXA310 624MHz processor and 256 MB DDR2
- Built-in 802.11b/g wireless LAN
- Built-in 1.5W speakers
- IP 64 compliant front panel
- Fanless design for rigorous environments
- Preinstalled Windows® CE6.0 operating system
- Windows® CE6.0 SDK for user application software development

Packing List

- 1 x Utility CD includes application tools, SDK, and technical document
- 1 x Null modem cable
- 1 x Touch pen

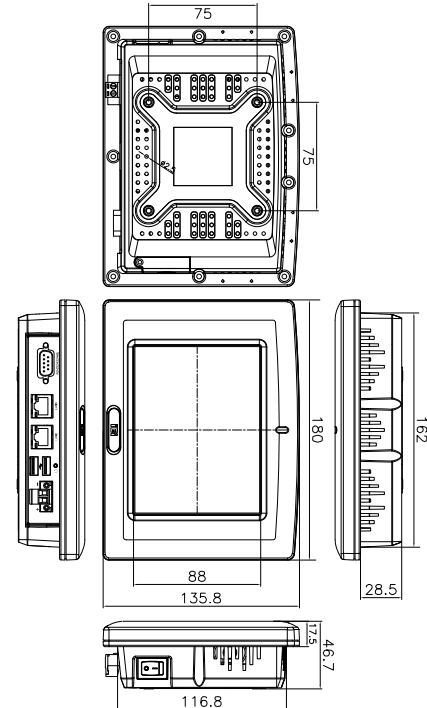
Ordering Information

Part No.	Description
IOVU-572M-CE6/-R10	5.7" LCD, Marvell PXA310 624MHZ, built-in Wi-Fi, WIN CE6.0, RoHS

Options

Part No.	Description
AFLPK-12	Panel mounting kit
AFLWK-12	VESA 75 wall mounting kit
ARM-11-RS	LCD monitor/PPC arm kit, loading capacity from 3kg~7kg
STAND-A08-RS	LCD monitor/PPC stand kit for VESA 75 and support up to 5 kg
VSTAND-A07	LCD monitor/PPC stand V type for VESA 75, 0~90 degree adjustable hinge and support up to 2.5 Kg
AFLP-12BMSR-U	USB magnetic card reader
AFLP-BRW01-U / AFLPBRB01-U	USB barcode reader (white / black)
AFLP-CDB01 / AFLP-CDW01	VFD customer display (green) 5 x 7 dot matrix (black / white)
63000-FSP060DBAB1555-RS	12V/5A DC 60W power adapter with bare wire, 90~264V AC input

IOVU-572M Dimensions (Unit: mm)



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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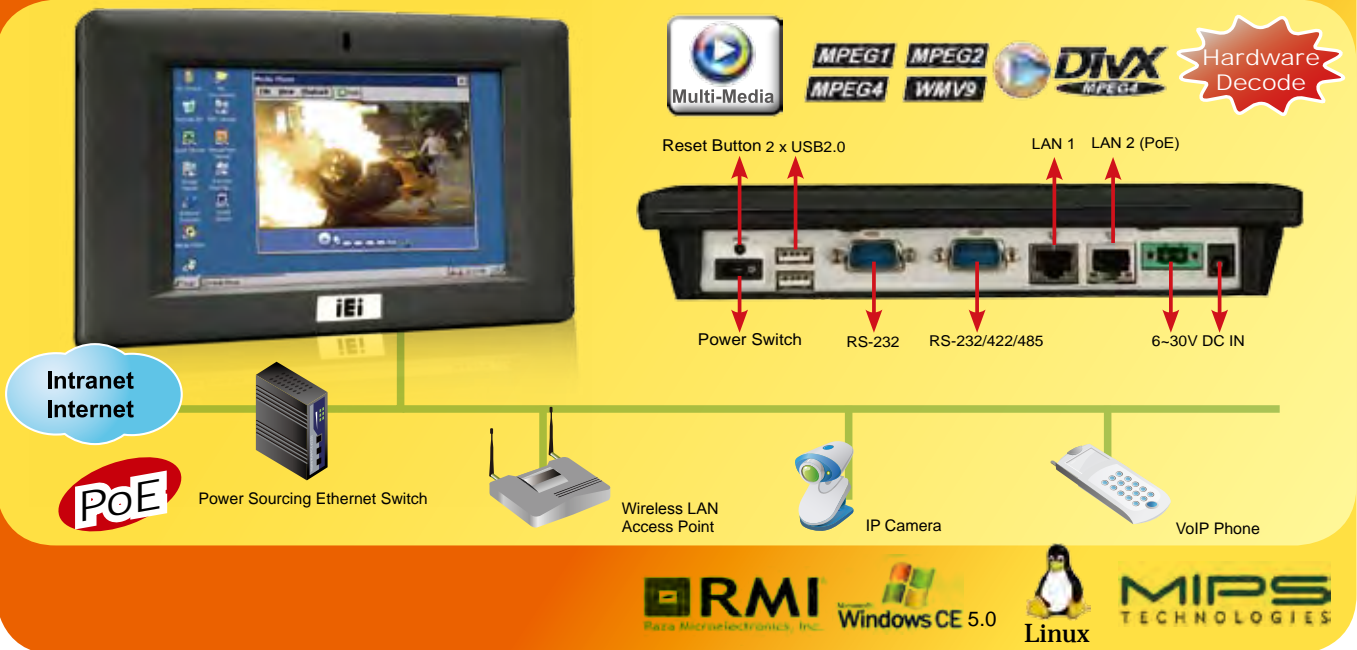
PACSmate Medical Solutions

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Optional Peripherals

IOVU-751R

MIPS-based Panel PC



Features

- Processor includes MAE (Media Acceleration Engine) supports MPEG 1/2/4 and WMV9
- RISC-based processor provides high performance and extremely low power consumption
- PoE (Power over Ethernet) function
- 7" widescreen WVGA TFT LCD with resistive touch screen
- Compact design with plastic housing
- Fanless system
- Built-in 1.5W speakers
- Secure Digital card slot for storage expansion
- IP64 compliant front panel

Packing List

1 x IOVU-751R
1 x Utility CD includes application tools, SDK, and technical document
1 x Null modem cable
1 x Touch pen
1 x Screw kit

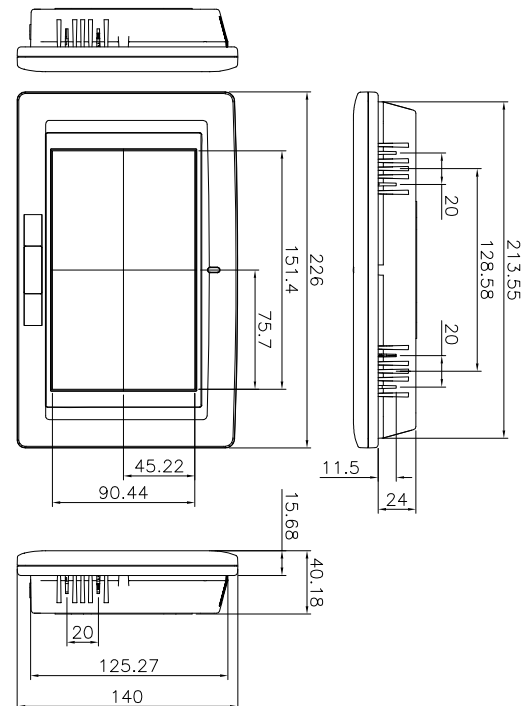
Ordering Information

Part No.	Description
IOVU-751R-CE5/R10	7", WVGA fan-less touch panel PC with RMI Alchemy AU1250 CPU, 256MB DDR2 SDRAM, LAN supports PoE function and built-in Windows® CE5.0 Operating System
IOVU-751R-UX/R10	7", WVGA fan-less touch panel PC with RMI Alchemy AU1250 CPU, 256MB DDR2 SDRAM, LAN supports PoE function and built-in ARM-Linux 2.6.11 Operating System

Options

Part No.	Description
AFLPK-12	Panel mount kit
AFLWK-12	VESA 75 wall mount kit
ARM-11-RS	LCD Monitor/PPC Arm kit loading capacity from 3kg~7kg
STAND-A08-RS	LCD Monitor/PPC Stand kit for VESA 75 and support up to 5 Kg
VSTAND-A07	LCD Monitor/PPC STAND V type for VESA 75, 0~90 degree adjustable hinge and support up to 2.5 Kg
AFLP-12BMSR-U	USB Magnetic Card Reader
AFLP-BRW01-U / AFLPBRB01-U	USB Barcode Reader (White / Black)
AFLP-CDB01 / AFLP-CDW01	VFD Customer Display (Green) 5 x 7 dot matrix (Black / White)
63000-FSP060DBAB1553-RS	Adapter Power; FSP;FSP060-DBAB1;Active PFC;Vin:90~264VAC;60W;Dim:62*110*31.5mm;Plug:9.5mm;Cable=1500mm;Erp(NO LOAD 0.5W);Vout:12VDC;Φ2.5/Φ5.5;CCL;RoHS
63000-FSP060DBAB1555-RS	12V/5A DC 60W power adapter with bare wire, 90~264V AC input

IOVU-751R Dimensions (Unit: mm)



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

IOVU-752S

ARM-based Panel PC



New



2 x USB 2.0 RS-232 RS-232/422/485 LAN (PoE) DC IN 9-30V Power Switch Reset Button



Features

- RISC-based processor provides high performance and extremely low power consumption
- PoE (Power over Ethernet) function
- 7" widescreen WVGA TFT LCD with resistive touch screen
- Samsung S3C6410 ARM11 677MHz processor and 256 MB DDR2
- Preinstalled Windows® CE6.0 operating system
- Sleek and compact metal design with very thin frames
- Built-in 1.5W speakers
- IP 64 compliant front panel
- Fanless design for rigorous environments

Packing List

- 1 x Utility CD includes application tools, SDK, and technical document
- 1 x Null modem cable
- 1 x Touch pen
- 1 x Screw kit

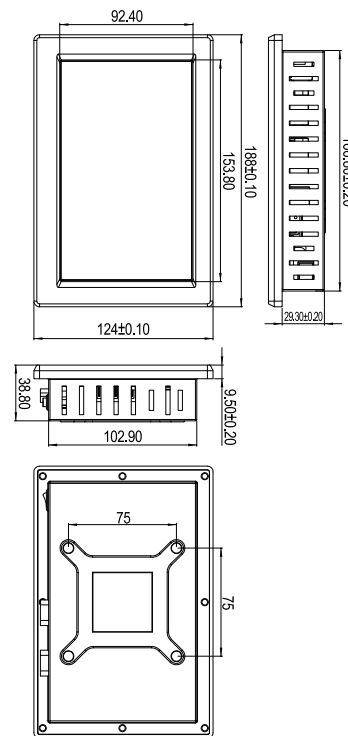
Ordering Information

Part No.	Description
IOVU-752S-CE6-R10	7" LCD, SAMSUNG S3C6410X66-YB40 667MHz with PoE function, WIN CE6.0, RoHS

Options

Part No.	Description
AFLPK-12	Panel mounting kit
AFLWK-12	VESA 75 wall mounting kit
ARM-11-RS	LCD monitor/PPC arm kit, loading capacity from 3kg~7kg
STAND-A08-RS	LCD monitor/PPC Stand kit for VESA 75 and support up to 5 Kg
VSTAND-A07	LCD monitor/PPC STAND V type for VESA 75, 0~90 degree adjustable hinge and support up to 2.5 Kg
AFLP-12BMSR-U	USB magnetic card reader
AFLP-BRW01-U / AFLPBRB01-U	USB barcode reader (white / black)
AFLP-CDB01 / AFLP-CDW01	VFD customer display (green) 5 x 7 dot matrix (black / white)
63000-FSP060DBAB1553-RS	Power adapter; FSP; FSP060-DBAB1; active PFC; Vin:90~264VAC; 60W; Dim: 62*110*31.5mm; plug=9.5mm; cable=1500mm; Erp(no loading 0.5W); vout:12VDC; Φ2.5/Φ5.5; CCL; RoHS
63000-FSP060DBAB1555-RS	12V/5A DC 60W power adapter with bare wire, 90~264V AC input

IOVU-752S Dimensions (Unit: mm)



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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

PACSmate Medical Solutions

Celebrate Humanity with Technology

PACSmate Technology Inc. is a professional medical solution provider, focusing on developing and manufacturing medical IT and medical device products which include high-resolution diagnostic displays, bedside all-in-one computers, medical panel PC and medication cart solutions. As a member of the ICP Group, the technology know-how and manufacturing expertise were inherited by PACSmate to fulfill the unique demands of the healthcare industry. PACSmate Technology Inc. is an ISO-9001 and ISO-13485 certified company since year 2011.



Our Advantages

- **Continuous Technology Innovation**

The patented GrayBoost® simultaneous 12-bit grayscale and GrayEasy® 30-bit deep color are PACSmate market-leading display technology. The experienced R&D teams aim to keep product innovation for better competitiveness in the market.

- **Highest Product Reliability**

All PACSmate medical products are compliant with stringent safety standards for the highest product reliability, including UL60601, EN60601-1, CE (EN60601-1-2) and FCC Class B.

- **Diverse Product Selection**

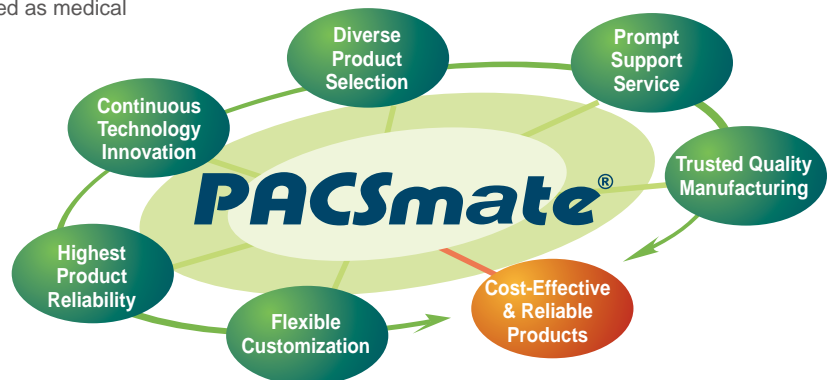
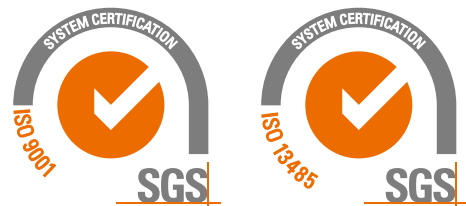
PACSmate's high-performing and cost-effective products include diagnostic monochrome/color monitors, clinical reviewing monitors and all-in-one medical panel PCs that are widely used as medical recording/ imaging terminals.

- **Trusted Quality Manufacturing**

All PACSmate monitors are manufactured with extreme care from panel selection to final calibration. Every aspect of each panel is carefully inspected, including luminance, viewing angle and chromaticity.

- **ODM Services**

With intensive knowledge and experiences in medical device products, PACSmate provides time-to-market ODM services to medical device manufacturers for hardware products including medical LCD monitors, laryngoscope systems, patient monitor systems and ultrasound systems.



1

IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

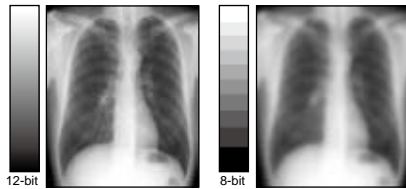
Diagnostic Medical Display



High-Resolution Monochrome Monitor	MMD-5201M 12-bit 5MP	MMD-3213M 12-bit 3MP	MMD-2213M 12-bit 2MP
LCD Size	20.1"	21.3"	21.3"
Resolution	2560 x 2048	2048 x 1536	1600 x 1200
Max. Luminance	Typical: 850cd/m ² Calibrated: 600cd/m ²	Typical: 800cd/m ² Calibrated: 600cd/m ²	Typical: 1000cd/m ² Calibrated: 600cd/m ²
High-Resolution Color Monitor	MMD-4300C 30-bit 4MP	MMD-3213CH 30-bit 3MP	MMD-2213CH 30-bit 2MP
LCD Size	30"	21.3" Super High Brightness	21.3" Super High Brightness
Resolution	2560 x 1600	2048 x 1536	1600 x 1200
Max. Luminance	Typical : 370cd/m ² Calibrated: 250cd/m ²	Typical : 800cd/m ² Calibrated: 500cd/m ²	Typical : 950cd/m ² Calibrated: 500cd/m ²

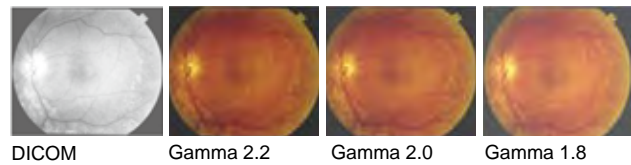
• GrayBoost® 12-bit Simultaneous Grayscale

12-bit (4096 tones) image input can be all retained in 12-bit (4096 tones) image output via built-in 12-bit LUT. The PACSmate GrayBoost® technology successfully produces 12-bit image data flow through commercial dual-link graphics card, lowering total cost of ownership.



• User Selectable Gamma Settings

PACSmate's color medical display can be adjusted with Gamma 1.8/2.0/2.2, DICOM and user settings for different brightness conditions to achieve the optimal display quality for images from different modalities.



• Backlight Stabilizer

The GeniGUARD® built-in backlight stabilizer integrated in PACSmate® monitors automatically calibrates the shift of LCD brightness caused by startup drift, ambient temperature and backlight aging.



GeniGUARD® Backlight Stabilizer

• GeniSPOT® & GeniPASS® QC Solutions

The GeniSPOT® 3-in-1 calibration system and GeniPASS® QC utility ensure the display conforming with AAPM, DIN, JIS and IEC standards all the time.



GeniSPOT® DICOM Calibration

1 Clinical Review Display

IEI Mobile Solutions

2 Automation Panel Solutions

3 RISC-based Solutions

4 PACSmate Medical Solutions

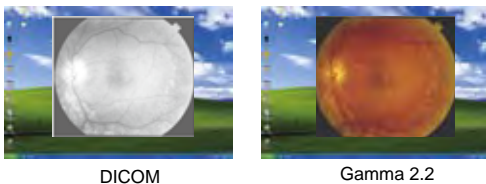
5 Optional Peripherals



Model Name	MMC-2201M	MMC-2201C	MMC-1190C	MMC-1170C
Monitor Type	Monochrome	Color	Color	Color
LCD Size	20.1"	20.1"	19"	17"
Resolution	1600 x 1200	1600 x 1200	1280 x 1024	1280 x 1024
Max. Luminance (Typical)	700cd/m ²	300cd/m ²	300cd/m ²	300cd/m ²
Input Interface	VGA / DVI / Component / Composite	VGA / DVI / Component	VGA / DVI / S-Video / Component / Composite	VGA / DVI / S-Video / Component / Composite

• User Selectable Gamma Settings

PACSmate's color medical display can be adjusted with Gamma 2.2 and DICOM preset under 6500K color temperature for different brightness conditions to achieve the optimal display quality for images from different modalities.

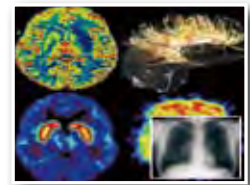


• Picture-in-Picture Function

PIP function enables a second image to be viewed in a small on-screen window. The Picture-outside-picture can be implemented for image comparison.

Flexible PIP settings:

- Upper left/right and lower left/right of window position
- Small, medium and large on-screen window setting
- Independent brightness and contrast control for PIP windows



• Multiple Color Temperature Settings

A wide range of color temperatures are included in the MMC-1170C and MMC-1190C, including 3600K/4600K/5600K/6500K/7500K. The easy color temperature adjustment ensures the best display quality when viewing images from different modalities.

• Multiple Video Input Interfaces

The multiple input interfaces on selected MMC series monitors enable connection to various medical devices. The multiple inputs include:

- Single-Link DVI-D (digital)
- Component YPbPr BNC connector
- DB-15 VGA
- VGA to BNC
- Composite BNC (NTSC/PAL)

IBS-19A series

Bedside Infotainment + Point of Care = Interactive Bedside Station

PACSmate Interactive Beside Station (IBS) series is designed to improve both patient experiences and clinical efficiency with unique features. The combination of high performance computing capability and the unique LED Dash Light design offer the hospitals with endless possibilities in bedside entertainment, patient care and clinical management.



New



Patient Experiences

- VoIP Phone
- Video Conference
- Internet Access
- Movie and Music on Demand
- Gaming
- DVB-T Digital TV
- Nursing Call
- Service Ordering
- Patient Education
- Billing and Payment
- Illumination LED Reading Light
- IR Remote Control

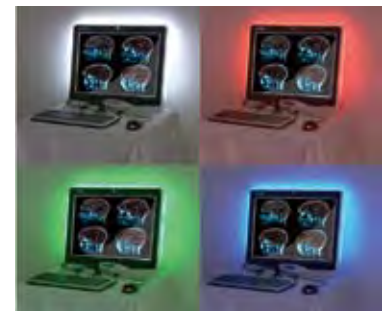
Clinical Efficiency

- Visual Annunciation by the LED Dash Light
- DICOM GSDF Conformance for Referral Medical Imaging
- Smart Card Reader and RFID Integration
- WLAN and Ethernet Connection
- 3.5G HSPDA Connection
- Patient Education
- Medicine Identification by RFID
- Nursing Call
- Hospital Information System

Model Name	IBS-19A
Feature	LED Dash Light System for Visual Annunciation
LCD	19" PMVA Wide Viewing Angle LED backlight
CPU	Intel® Core™ i5 2390T 2.7GHz/Core™ i3 2100T 2.5GHz/Pentium® G620T 2.2GHz
Chipset	Intel® H61
RAM	2 x DDR3 SO-DIMM
WLAN	802.11 a/b/g/n 3T3R
2nd Display	HDMI
Optioanl Drive	Slim DVD RW
Webcam	1.3MP
Options	Smart Card Reader / RFID Reader / DVB-T Handset
DC Input	9~28V DC
AC Adaptor	120W 90~264V AC to 19V DC

• Innovative LED Dash Light System for Patient Room Visual Management

PACSmate IBS-19A series is the industry-first all-in-one medical computer integrated with high-brightness true color LED Dash Light System which provides maximum flexibility and unlimited possibilities for visual notification in patient bedside, patient room facility and nursing stations. The exclusive LED Dash Light System consists of three LED light bars with total 33 light sections which provides ultimate possibilities for configuration of different visual notifications for all kinds of occasions in the healthcare environment. The innovation LED Dash Light System can replace the traditional LED dome light with more flexibility, saving costs and maintenance efforts.



• Feature-rich Bedside Applications

Handset for VoIP
Optional handset for VoIP phone

Digital TV
Optional DVB-T digital TV tuner with external antenna connection

Smart Card Reader
Built-in SCR for ID and billing applications

Nursing Call
Programmable nursing call button with LED indication light

Built-in high resolution auto-focus video camera

Front digital MIC
Built-in high-sensitive digital microphone for video conferencing

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

Medical Panel PC



Model Name	IBS-19A	POC-17i / 19i	POC-517A	POC-415A-N270	POC-415A / 417A / 419A	POC-3174B
Feature	LED Dash Light System for Visual Annunciation	High Performance	Fanless High Performance	Fanless	Fanless	Back-Up Battery (14.8V, 3800mAh) Expansion slot
LCD	19"	17" / 19"	17"	15"	15" / 17" / 19"	17"
CPU	Intel® Core™ i5 2390T 2.7GHz / Core™ i3 2100T 2.5GHz / Pentium® G620T 2.2GHz	Core™ i7-620M 2.66G / Core™ i5-520M 2.4G / Core™ i3-350M 2.26G / Celeron P4500 1.86G	Intel® Core™2 Duo T9400-2.53G / T7500-2.2G / P8400-2.26G	Intel® Atom™ N270 1.6G	Intel® Celeron® M 373 1.0G with 512K L2 Cache	Intel® Core™2 Duo T7500-2.2G / CM 550-2.0G
Chipset	Intel® H61	Intel® HM55	Intel® GM45 + ICH9M	Intel® 945GSE + ICH7M	Intel® 910GML E + ICH6M	Intel® GME965 + ICH8M
RAM	2 x DDR3 SO-DIMM Slot	2 x DDR3 SO-DIMM Slot	2 x DDR2 SO-DIMM Slot	1 x DDR2 SO-DIMM Slot	2 x DDR2 SO-DIMM Slot	2 x DDR2 SO-DIMM Slot
WLAN	802.11 a/b/g/n 3T3R	802.11 a/b/g/n 3T3R	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n
Bluetooth	N/A	N/A	Yes	Yes	Yes	No
2nd Display	HDMI	VGA/HDMI	VGA/HDMI/Display port	VGA	VGA	VGA/DVI
Optical Drive	DVD RW	N/A	DVD RW	N/A	N/A	DVD RW
Expansion	N/A	N/A	N/A	N/A	N/A	1 x PCI
Power	AC 110~240 to DC 19V Power adapter	AC 110~240V to DC 12V Power Adapter	AC 110~240V to DC 12V Power Adapter	AC 110~240V to DC 12V Power Adapter	AC 110~240V to DC 12V Power Adapter	AC 110~240V to DC 12V Power Adapter
Thickness (mm)	60	72 / 76	78	61	61 / 65 / 67	122

● Value-Added UPS Advantage

The built-in battery in the POC-3/B series ensures UPS function for medical application, allowing standby power for data backup and management under sudden power shutdown situation. The PACSmate unique AUPS software provides the information of current battery status, charging status and percentage remaining, facilitating battery monitoring requirement.

● Advanced Technology Innovation

The special thermal design makes PACSmate POC-4/A ultra-slim and fanless, perfect for bedside applications. The unique Intel® Core™2 Duo platform brings advanced processing power for the POC-4/B series.

● Quick Installation Advantage

The PACSmate point-of-care series are full system panel PC with preinstalled CPU, DRAM, and HDD. The all-in-one architecture not only eases installation but also saves space.

● Best Product Reliability

The elegant ivory outlook design is perfect for the medical environment. The IP 65 dustproof and waterproof front bezel allows easy cleaning. Just using disinfectant, and the screen won't be damaged.

● Perfect Network Connection

The two Gigabit Ethernet LAN connectors and wireless 802.11a/b/g/n network connections increase redundancy and ensure reliable networks for real-time medical record processing.

● Powerful Connection Advantage

The numerous I/O interface design enables perfect connection with various medical devices. The built-in bluetooth module provides a wireless connection to a wide variety of medical peripherals.

● User-Friendly Interface

The PACSmate point-of-care panel PC series is designed with a sensitive and reliable touch screen which makes data entry much easier. The user-friendly touch screen makes the POC series a perfect information terminal.

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IEI Mobile Solutions

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Automation Panel Solutions

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RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals



pCART-N1

Multi-Purpose Nursing Cart with Integrated Battery

New



By PACSmate accumulated experience in digital healthcare market, the pCART-N1 nursing cart helps medical professionals to perform daily duties effectively and instantly.

• Flexible Drawer Configuration for Maximum Storage Space

3", 6" and 9" drawers can be configured by request to facilitate different requirements, rotation and hidden cable routing features.

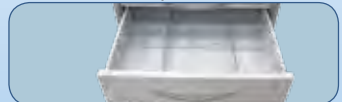


Keyboard drawer

3" drawer with optional dividers

3" drawer with 5 medicine boxes

6" drawer with optional dividers



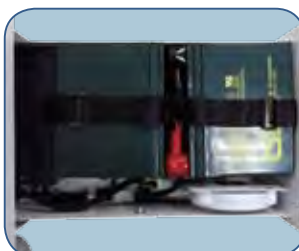
• Flexible and Solid Computer Arm

The pCart-N1 is equipped with an easy adjusting computer arm which provides maximum loading of 12 kg, computer tilt / rotation, and hidden cable routing features.



• Easy Maintenance Battery Drawer for Integration of Various Battery Solutions

Without sacrificing any storage space, the special design of the battery drawer provides easy maintenance for battery replacement and integration of either PACSmate MBM-L400 Li-Fe or MBM-P940 Pb battery solutions for maximum 2 pieces of battery packs.



1

IEI Mobile Solutions

2

Automation Panel Solutions

3

RISC-based Solutions

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PACSmate Medical Solutions

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Optional Peripherals

Faster and New SATA Flash Storage

The anti-vibration IEI SLC flash modules featured low power consumption, high performance and perfect reliability are best for SATA SSD and SATA DOM solutions. The SSD not only has much higher performance than the HDD, but also can be operated anytime due to the lack of moving parts such as motor, bearing or rotating head. In addition, the SSD is able to fulfill any specialized application in any harsh environment.

Complete Industrial SLC Solution



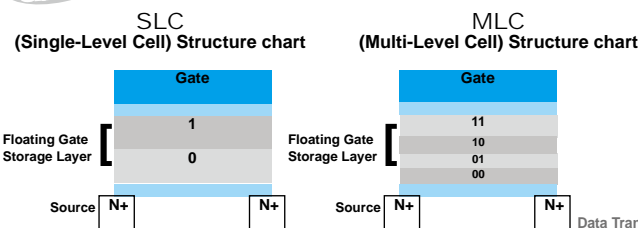
SLC Only



Interface	IDE PATA	SATA 1.5Gb/s	SATA 3Gb/s
Data Transfer Rate	66/100/133 MB/sec.	1.5 Gb/s (max.)	3 Gb/s (max.)
Reliability	Fair	Better	Better
Power Consumption	Higher	Lower	Lower
Heat Delivery	Fair	Better	Better
Chipset Support after 945G/GM	No	Yes	Yes

SLC vs. MLC Comparison Table

Best Choice

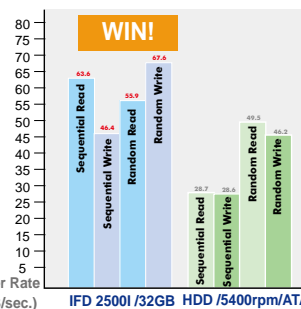


	SLC	MLC
Endurance (Erase cycle)	100,000	5,000-10,000
Operating Temp. Range	Support Wide Temp. -40°C~+85°C	0°C~+70°C
Power Consumption	Lower	Higher
Read/Write Performance	Better	Worse

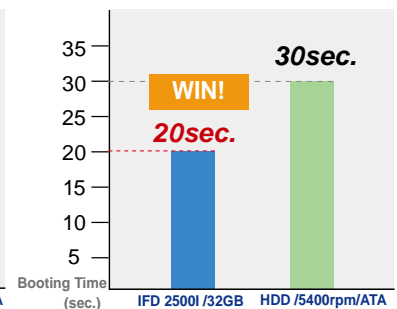
Data Transfer Rate	Item	iFD 2500i	HDD
Sequential Read		63.6 MB/sec.	28.7 MB/sec.
Sequential Write		46.4 MB/sec.	28.6 MB/sec.
Random Read		55.9 MB/sec.	49.5 MB/sec.
Random Write		67.6 MB/sec.	46.2 MB/sec.

Comparison Chart : iFD SATA 2.5" 2500i & HDD

Performance testing



Booting time testing



Data Transfer Rate	Item	iFD 2500i	HDD
Sec.		20 sec.	30 sec.

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IEI Mobile Solutions

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Optional Peripherals

IEI SATA Flash Module Selection

Item	IFM-3000IS (WS) IFM-3000ILVS (WLVS) IFM-3000ILPS (WLPS)	iFD-2510IS (WT)
------	---	-----------------

Picture



Capacity	128MB-8GB	8GB-128GB
Interface	SATA 1.5Gb/s	SATA 3Gb/s
IDE Transfer Mode	PIO Mode 0-4 MwDMA Mode 0-2 UltraDMA Mode 0-2	PIO Mode 0-4 UltraDMA Mode 0-6
Data Transfer Rate	Read-24MB/sec.; Write-14MB/sec.	Read-60MB/sec.; Write-40MB/sec.
Operating Temp.	-0°C~+70°C; -40°C~+85°C	iFD-2510IS: 0°C~+70°C iFD-2510WT: -40°C~+85°C
Storage Temp.	-55°C~+95°C	-55°C~+95°C
Humidity	10%-95%, non-condensing	10%-95%, non-condensing
Vibration	15G (7-2000Hz)	20G (7-2000Hz)
Shock	1500G/10 ms	1500G/0.5 ms
ECC Technology	High reliability based on the internal ECC function	
MTBF	>3,000,000 hours	>2,000,000 hours
R/W Endurance	2,000,000 times	2,000,000 times
Wear-Leveing	Support	Support
DC Input Voltage	+5V single power supply operation	+5V single power supply operation
Power Mode	Auto stand-by and sleep mode	
Power Consumption	200 mA	
Enclosure Material	PC mechanical cover	Metal mechanical cover
Dimensions(WxLxH)	20.5 x 39.2 x 8 mm	69.63 x 99.88 x 9.3 mm
Certificate	RoHS / CE / FCC	

Ordering Information

Industrial SATA Flash Card

Part No.	Interface	Capacity
IFM-3000IS-XXXXX	Vertical SATA 1.5Gb/s 7 pin	128MB-8GB
IFM-3000WS-XXXXX	Vertical SATA 1.5Gb/s 7 pin	128MB-8GB
IFM-3000ILVS-XXXXX	Vertical SATA 1.5Gb/s 7 pin	128MB-8GB
IFM-3000WLVS-XXXXX	Vertical SATA 1.5Gb/s 7 pin	128MB-8GB
IFM-3000ILPS-XXXXX	Horizontal SATA 1.5Gb/s 7 pin	128MB-8GB
IFM-3000WLPS-XXXXX	Horizontal SATA 1.5Gb/s 7 pin	128MB-8GB

Industrial SATA 2.5" Flash Disk

Part No.	Interface	Capacity
iFD-2510IS-XXXXX	SATA 3Gb/s 7+15 pin	8GB-128GB
iFD-2510WT-XXXXX	SATA 3Gb/s 7+15 pin	8GB-64GB

XXXXX=Capacity-128MB/256MB/512MB/1GB/2GB/4GB/8GB/16GB/32GB/64GB/128GB

I= Standard grade operation temp.: 0°C~70°C

W=Industrial grade operation temp.: -40°C~85°C

Intelligent DC UPS Module

12V/9~36V DC Input, 12V DC Output Uninterruptible Power Supply Module with Diagnostics

- VESA 75 or VESA 100 mounting
- 9-36V input through terminal or power jack, or 12V through power jack only
- Battery status and charge monitoring utility. Remote network management capabilities

Features

- 60W (5A @ 12V) or 100W (8.3A @ 12V) output
- 28Wh or 56Wh, for more than 140 minutes operation time (depending on panel PC power requirements)
- Rugged metal enclosure for standard VESA 75/100 mounting
- Web-based, remote network management, no software installation required
- Local PC-based monitoring software for input detection and battery status monitoring
- Auto shut down when battery low
- Remote DC output on/off switch for external switch installation
- Provides stable power to the PC during line sags and spikes and absorbs power surges and transients, protecting expensive equipment



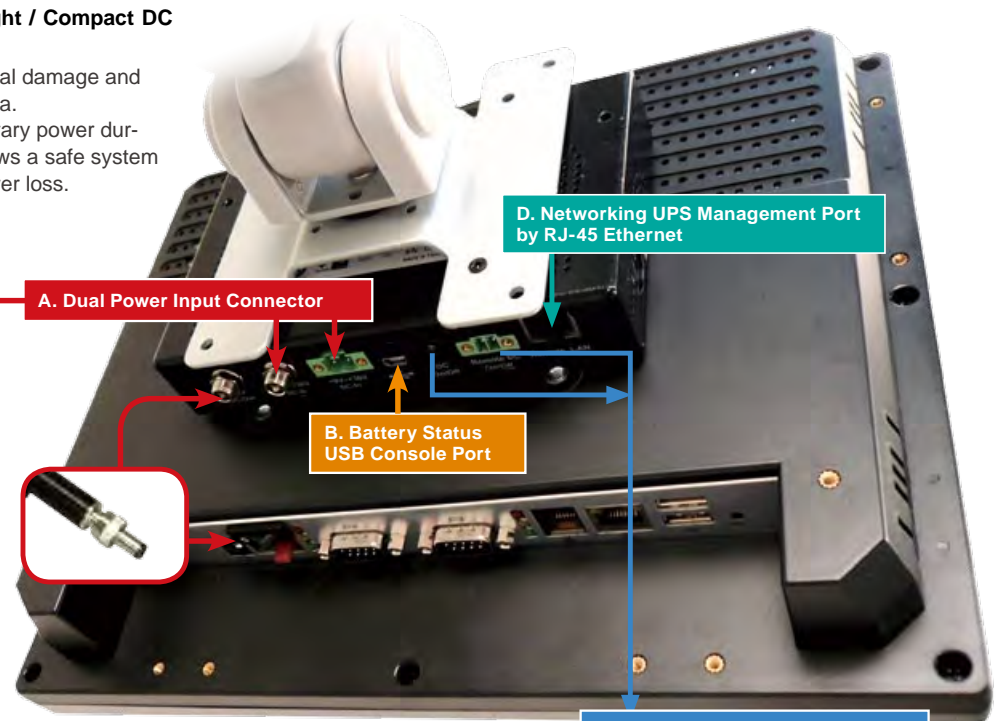
Model Name	AUPS-A10 / AUPS-A20	AUPS-B10 / AUPS-B20	AUPS-C20
Input Power	AUPS-A10 (12V)	AUPS-B10 (12V)	9~36V
	AUPS-A20 (9~36V)	AUPS-B20 (9~36V)	x
Dimensions	150 x 95 x 34 mm	170 x 150 x 34 mm	233x197x 59mm
Battery Capacity	28 Wh (Watt/Hour)	56 Wh (Watt/Hour)	200 Wh (Watt/Hour)
Output Power	60W (5A@12V)	100W (8.3A@12V)	100W (8.3A@12V)
VESA Support (mm)	75 x 75	75 x 75 / 100 x 100	75 x 75 / 100 x 100

Intelligent UPS Module

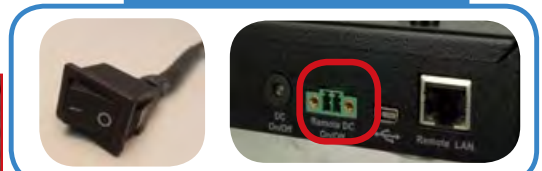
High Energy Density / Lightweight / Compact DC to DC UPS & Power Module

Protect your panel PC from electrical damage and greatly reduce the risk of losing data.

The UPS module serves as temporary power during a short break in power and allows a safe system shutdown for longer periods of power loss.



LED Signal Table			
	LED 1	LED 2	LED 3
Color	Green	Yellow	Orange
Function	Power Input	Charging Status	Battery Status
Dark	DC Power Out		
Light	DC Power In	Discharging	Battery Full
Blinking		Charging	Battery Low



- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

AUPS Network Administration Tool

- Network Remote Management Anywhere



- Network Remote Management Software



Battery Capacity Status

UPS Status Monitoring

Email Status Report

Power On/OFF

- Intelligent Software Utility

The remote management software utility and application program allows users to easily get the status of the AUPS and to control the AUPS power functions from anywhere with internet connection.



Remote control DC output ON/OFF via web interface.

Click **ALARM** to get each AUPS status via internet

- STATUS
- Send E-mail
- Board configuration

Network Remote Management Software

AUPS Local USB Utility Tool

Monitor the Most Critical Battery Functions on the Local Machine

The battery monitoring utility provides AUPS status monitoring and configuration ability. Uninterruptible Power Systems is a significant product that serves as emergency power when you suffer from electric event.

Battery Monitoring Utility



Battery Monitoring Utility Networking Remote Management

- Battery detection
- Battery capacity status
- Battery charge
- DC input indicator
- Battery indicator
- Temperature warning
- Low battery alarm
- Connection port status

DC Input only	Charging 50%	Charging 100%
Normal Icon	Capacity 50%	Capacity 100%

BATTERY STATUS

• BAT.A shows Battery status real time monitoring

- Battery type
- Battery usage remaining time
- Battery capacity bar
- Real-time information update

AUPS STATUS

• STATUS shows DC / Battery power input

- DC Input Detection
- Battery Status Detection

LAN CONFIGURATION

• LAN shows system IP Address information

ABOUT

• ABOUT shows AUPS Utility information

SETTING

• SETTING shows Connection Detection port

- Auto-Scan Connection port
- System shutdown condition according to battery capacity setting



Meanwhile, IEI also provides AUPS API SDK and command list for customer programming under DOS or Linux system.

AUPS API Content

- Inti()
- AUPS Close()
- WriteCommand()
- ReadCommand()
- Error Code Definition()

AUPS API SDK

- AUPS API.pdf
- AUPSAPI.dll
- AUPSAPI.h
- AUPSAPI.lib



AUPS API SDK/Content

AUPS Module Specifications

Model Name		AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20	AUPS-C20
VESA Type		VESA 75	VESA 75	VESA 75 and 100	VESA 75 and 100	VESA 75 and 100
Input Data	Input voltage Unated/range	DC +12V	DC +9V~+36V	DC +12V	DC +9V~+36V	DC +9V ~ +28V
	Input current rated	1. Adapter is 12V-6A (Load is 60W) 2. Battery is 6V-12A (Load is 60W)		1. Adapter is 12V-9A (Load is 100W) 2. Battery is 12V-9A (Load is 100W)		
	Standby power consumption	0.3A (0.2A if Network Management disabled)				
	Operation with charging current	500mA				
	Operation with charging power consumption	6W		10W		
Charging time with system ON/OFF		8hrs / 2hrs (Battery empty)				
Output Data	Output voltage for normal operation	DC +12V +/-5%				
	Output voltage for battery operation(approx).	6~8.4V DC6 V (exhaustive discharge protection)		12~16.8V DC12 V (exhaustive discharge protection)		
	Output current	0A~5A		0A~8.3A		0A~7.6A
	Efficiency (nominal operation) / power loss at Vin=12V, Iout=80% of full loading	89%	93%	95%	94%	90%
Protection	Short-circuit protection	Yes				
	Exhaustive discharge protection	1. Battery low is 10% of battery capacity 2. Shutdown 5% of battery capacity (Default) 3. The end of battery discharge voltage is 6V				
	EMC / Safety certification	CE, FCC				
Monitoring	Ethernet interface	Web-based, specification 10/100Mbps with RJ-45 connection, Cat. 5 cable				
	USB interface	PC-capable, specification 2.0 with full speed, i.e. 2 Mbit/s. Standard 4-core shielded cable, USB Series "mini B" connector to DC-UPS				
Physical	Dimensions (LxWxH)	152mm x 96mm x 28mm		174mm x 147mm x 35mm		233mm x 197mm x 59mm
	Weight	1.2 kg		1.8 kg		3.8 kg
LED Indicator	Green	DC power input				
	Yellow	Battery charging				
	Orange	Bettery discharging				
Environment	Operating Tem.	0°C~40°C				
	Storage Tem.	-20°C~50°C				

Note1: Connecting DC input constantly is recommended. Battery will be drained after 14 hours.

Note2: System power consumption + AUPS charging power consumption = Total watts of power source

Battery Module Specifications

Model Name		AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20	AUPS-C20
Battery Model Name		BAT-LI-2S2P3800		BAT-LI-4S2P3800		BAT-LI-4S2P3800(x4)
Battery	Battery type	Li-Ion 2S2P 7.4V		Li-Ion 4S2P 14.8V		Li-Ion 4S2P 14.8V
	Battery capacity	7.4V 3800 mAH		14.8V, 3800 mAH		14.8V, 3800 mAH(x4)
	Maximum charge voltage	8.4V		16.8V		16.8V
	The end of discharging voltage	5.6V		11.2V		11.2V
	Recommended charging current (max.)	2A		2A		2A
	System continuous discharging current (max.)	7.6A		7.6A		7.6A
	The end of charge condition	250mA / 1Min		200mA / 1Min		200mA / 1Min
	Discharge protection	Under voltage protection / Over current protection				
	Charge protection	Over voltage protection / Over current protection				
	Ambient temperature	0°C~40°C				
	Storage temperature	-20°C~60°C				
	Self-discharge rate	340uA~440uA				
	Dimensions (LxWxH)	139mm x 47mm x 26mm		165mm x 76mm x 26mm		165mm x 76mm x 26mm
	Weight	236g		450g		450g
	Cycle life	300 charge / discharge cycles				
Backup	60W / 10Min		100W / 10Min		100W / 10Min	
Safety class	CE, FCC					

Note: Replacing battery module every 2 years is recommended.

Selection Table for UPS Modules and Main Buffering Time

AFOLUX PPC	AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20
Under 50W solution				
AFL-057-LX (15W~20W)	145min	145min	290min	290min
AFL-07A-N270 (20W~25W)	100min	100min	200min	200min
AFL-08AH-N270 (25W~30W)	70min	70min	140min	140min
AFL-10A-N270 (25~30W)	70min	70min	140min	140min
AFL-10A-9103 (40W~45W)	50min	50min	100min	100min
AFL-10A-LX (25W~30W)	70min	70min	140min	140min
AFL-12A-LX (25W~30W)	70min	70min	140min	140min
AFL-12B-CX2 (38W~42W)	50min	50min	100min	100min
AFL-12A-N270 (25W~30W)	70min	70min	140min	140min
AFL-12B-9103 (45W~48W)	45min	45min	90min	90min
50W ~ 100W solution				
AFL-15B-915-CM370 (58W~63W)	-	-	35min	35min
AFL-15C-9652-T7500 (65W~70W)	-	-	30min	30min
AFL-17B-915-CM370 (75W~80W)	-	-	25min	25min
AFL-17C-9652-T7500 (85W~90W)	-	-	20min	20min
AFL-19B-915-CM370 (75W~80W)	-	-	25min	25min
AFL-19C-9652-T7500 (85W~90W)	-	-	20min	20min

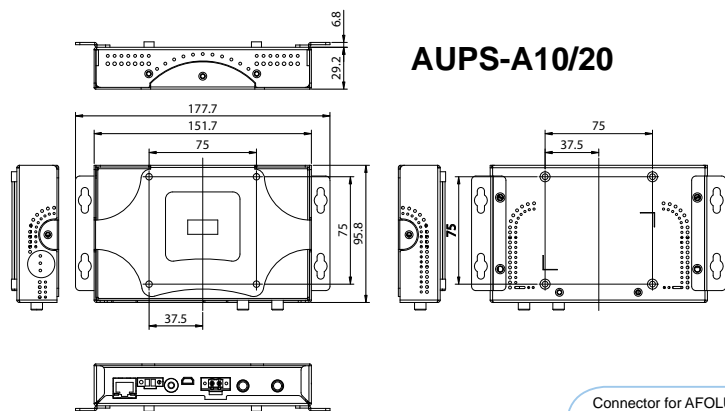
Note: The backup time could be varied on different models or operating temperature.



BAT-LI-2S2P3800

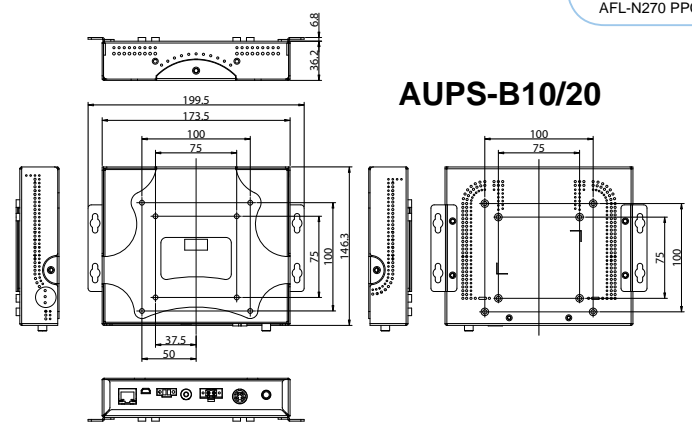
BAT-LI-4S2P3800

AUPS Mechanical Drawing (Unit: mm)

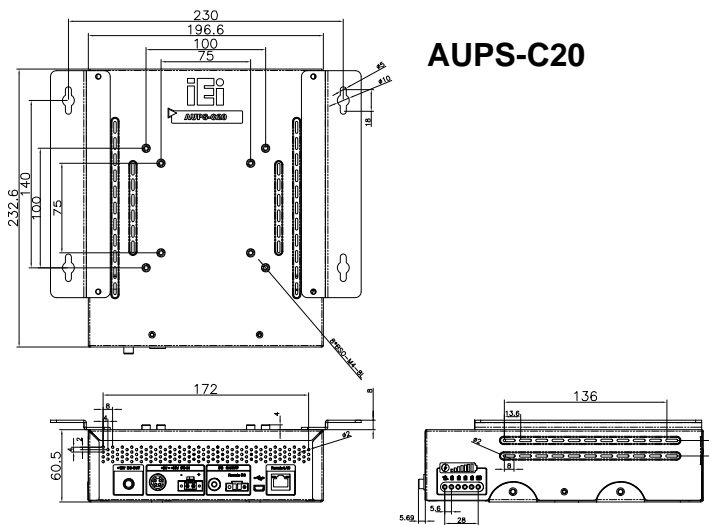


AUPS-A10/20

Connector for AFOLUX Panel PC:
 AFL-LX PPC series
 AFL-LXPOS PPC series
 AFL-CX2 PPC series
 AFL-9103 PPC series
 AFL-N270 PPC series



AUPS-B10/20

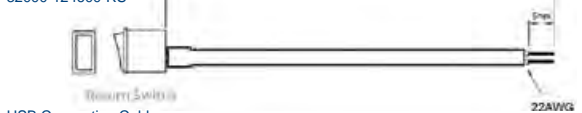


AUPS-C20

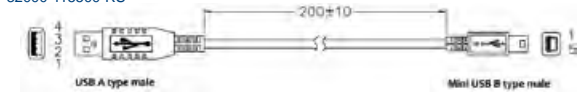
DC Power Cable (DC plug to DC plug) with lock
 32000-115300-RS



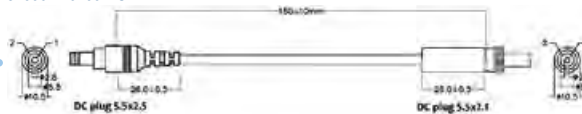
Remote Switch Cable
 32000-124600-RS



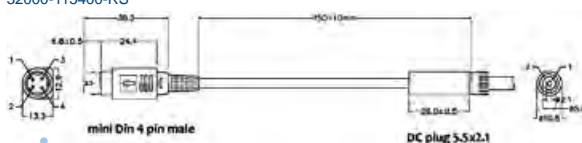
USB Connection Cable
 32000-115500-RS



DC Power Cable (DC plug to DC plug) without lock
 32000-120400-RS



DC Power Cable (DC plug to mini DIN)
 32000-115400-RS



Connector for AFOLUX Panel PC:
 AFL-915 PPC series
 AFL-965 PPC series

Ordering Information

Part No.	Description
AUPS-A10-R11	VESA 75, DC 12V input, 12V output 60W UPS module with 3800mAh, 2S2P Li-ion battery
AUPS-A20-R11	VESA 75, DC 9-36V input, 12V output 60W UPS module with 3800mAh, 2S2P Li-ion battery
AUPS-B10-R11	VESA 100, DC 12V input, 12V output 100W UPS module with 3800mAh, 2S4P Li-ion battery
AUPS-B20-R11	VESA 100, DC 9-36V input, 12V output 100W UPS module with 3800mAh, 2S4P Li-ion battery
AUPS-C20-R10	VESA 100, DC 9-36V input, 12V output 100W UPS module with 3800mAh, W/O battery
BAT-LI-2S2P3800 (AUPS-A10/20)	Smart battery; TE9IC032K1002; Lithium ion battery (S2P); 7.4V; 3800mAh; RoHS
BAT-LI-4S2P3800 (AUPS-B10/B20/C20)	Smart battery; TE9IC042K1002; Lithium ion battery (4S2P); 14.8V; 3800mAh; RoHS

Packing List

Item	DC power cable, 150mm, male 4-pin mini-DIN to DC plug 5.0 x 2.1 (AUPS-B10/B20 only)	DC power cable, 150mm, DC plug 5.5 x 2.1 to DC plug 5.0 x 2.5 without lock	DC power cable, 150mm, DC plug 5.5 x 2.1 to DC plug 5.0 x 2.5 with lock	USB cable, 200mm, USB type A male to mini USB	Remote switch cable, 1200mm	Screw kit	Utility CD (including utility software and user's guide)
Part Number	32000-115400-RS	32000-120400-RS	32000-115300-RS	32000-115500-RS	32000-124600-RS	44013-030041-RS	7B000-000087-RS
Q'ty	1	1	1	1	1	1	1

1

IEI Mobile Solutions

2

Automation Panel Solutions

3

RISC-based Solutions

4

PACSmart Medical Solutions

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Optional Peripherals

IDD-930160-KIT

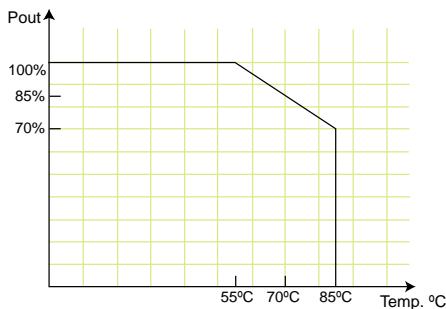
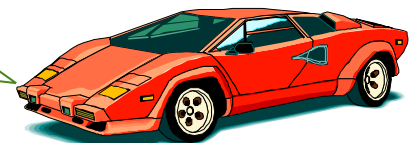
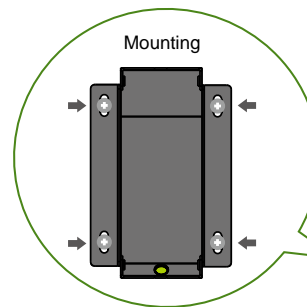
60 W DC/DC Converter Module for AFOLUX Panel PC and Monitor



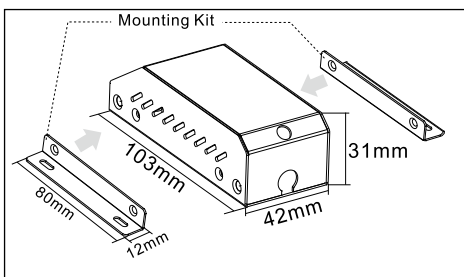
Specifications

- Input voltage: 9-30 VDC
- Input current: Max. 8.2 A at 9 VDC
- Output: 12 V@5 A
- Max. total output: 60W
- Performance characteristics:
 - Noise and ripple: <120 mV
 - Line regulation: <2.5%
 - Load regulation: <2.5%
- Transient toggle rate: 250 Hz (50% duty ratio)
- Transient current step:
 - From 0% to 50% and 50% to 100% of max current
- Efficiency: typ. 95% (Vin=12 V, 80% of full load)
- Dimensions: 42 mm x 103 mm x 31 mm
- Mounting kit: 12 mm x 80 mm
- Cable length: 180 cm
- Operating temperature: -10°C~55°C
- Load down protection

Typical Applications



Dimensions (Millimeters)



Packing Information

- 1 x IDD-930160-KIT-R10
- 1 x Mounting kit
- 1 x Screw kit
- 1 x Anti-slip strip
- 1 x Utility CD

Ordering Information

Part No.	Description
IDD-930160-KIT-R10	60 W DC/DC 9-30 VDC input vehicle power adapter

1

IEI Mobile Solutions

2

Automation Panel Solutions

3

RISC-based Solutions

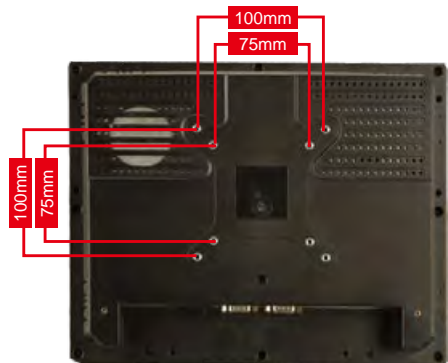
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PACsmate Medical Solutions

5

Optional Peripherals

IEI Quick Mounting Technology

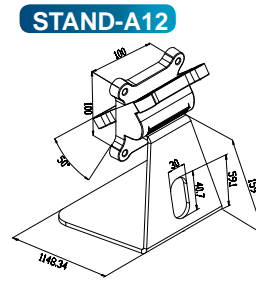
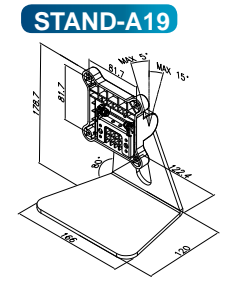
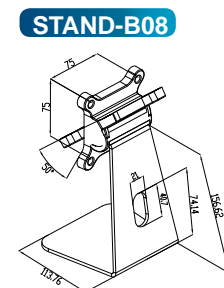
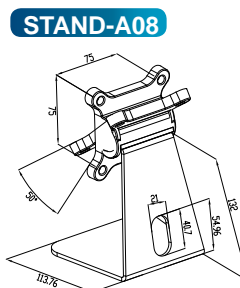
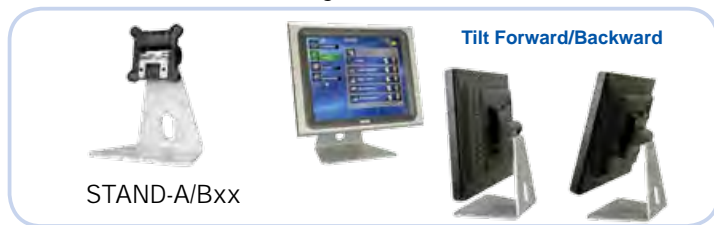


Compliant with VESA Mounting Standards
IEI panel solutions have four mounting holes compliant with the VESA (Video Electronics Standards Association) mounting standard (75mm x 75mm/100mm x 100mm) on the rear panel for stand mounting and other mounting methods.

- | | |
|-------------------|---------------------|
| 1. Stand Mounting | 5. In-Wall Mounting |
| 2. V-STAND | 6. Panel Mounting |
| 3. ARM | 7. Rack Mounting |
| 4. Wall Mounting | 8. Din Mounting |

1. Stand Mounting

VESA 75/100 Easy Stand



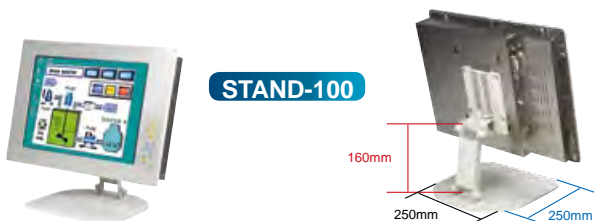
Ordering Information

Part Number	Description
STAND-A08	5.6"-8.4" VESA 75x75mm PPC/monitor stand, support up to 5 kg, Silver color, RoHS
STAND-B08	5.6"-8.4" VESA 75x75mm PPC/monitor stand, support up to 5 kg, Silver color, RoHS
STAND-C12	5.7" - 12.1" VESA 100x100mm, 75x75mm PPC/Monitor Stand, support up to 7.5kg, Black color, RoHS
STAND-A12	10"-12.1" VESA 100x100mm PPC/monitor stand, support up to 5 kg, Silver color, RoHS
STAND-A19	12.1"-19" VESA 100x100mm PPC/monitor stand, support up to 7.5 kg, Silver color, RoHS
STAND-C19	15" - 19" VESA 100x100mm, 75x75mm PPC/Monitor Stand, support up to 15 kg, Black color, RoHS

VESA 75/100 Universal Stand

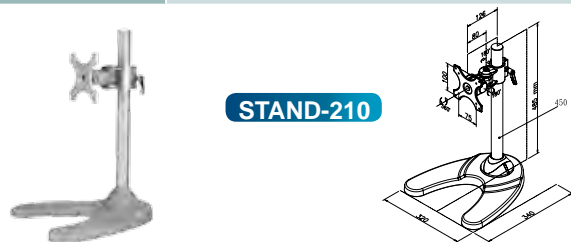
Ordering Information

Part No.	Description
STAND-100-RS	<ul style="list-style-type: none"> Material: Heavy-duty steel Adjustable display angle 3kg to 8kg loading capacity Color: White (Pantone 413C)



Ordering Information

Part No.	Description
STAND-210-R11	<ul style="list-style-type: none"> Support VESA 75/100 standard Weight capacity from 7kg-10kg



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RISC-based Solutions

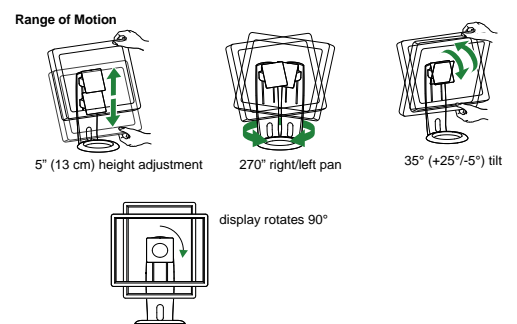
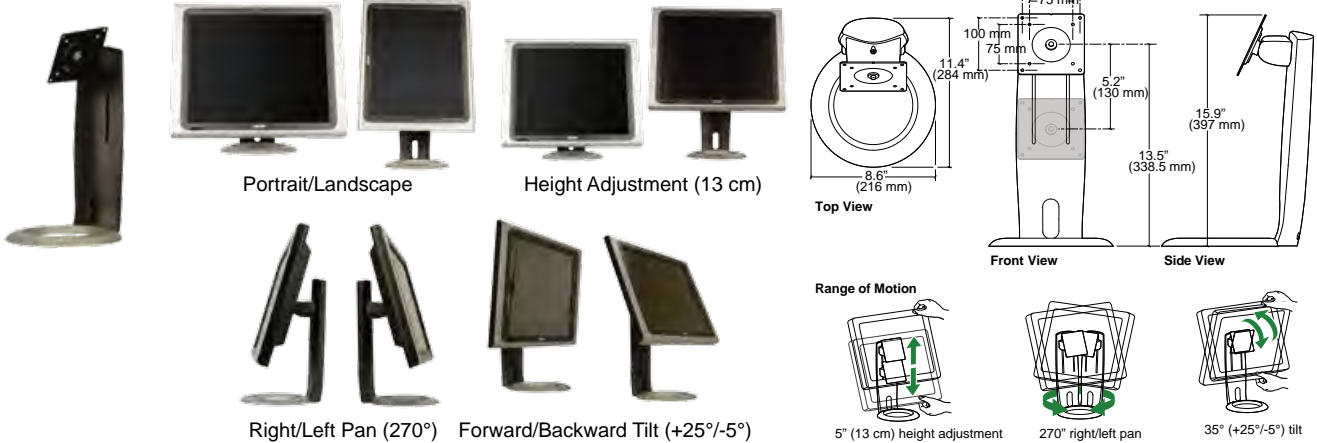
4

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Optional Peripherals

STAND-B19



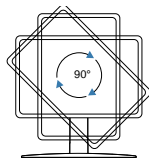
Ordering Information

Part No.	Description
STAND-B19-RS	15"-19" VESA 75x75mm/100x100mm PPC/Monitor Stand, support from 2.7KG to 7.3KG, Black, RoHS

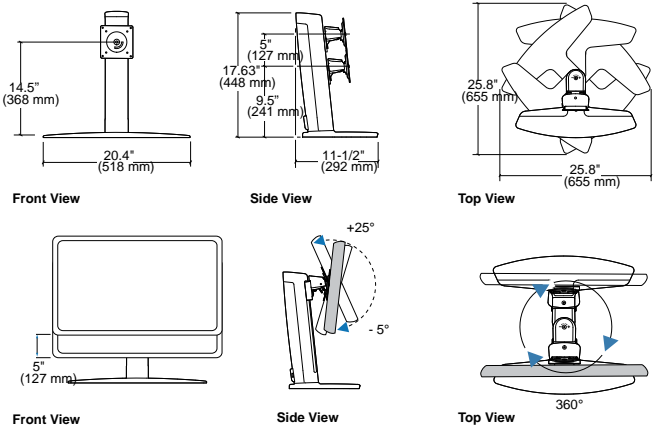
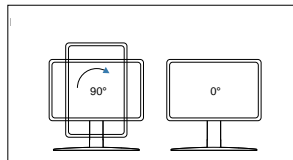
VESA 100/200 Lift Stand

STAND-A26

VESA 100/200 Lift Stand	Model
200x100mm	STAND-A26-R11



For 90° rotation, bezel size must not exceed 35" (889 mm).



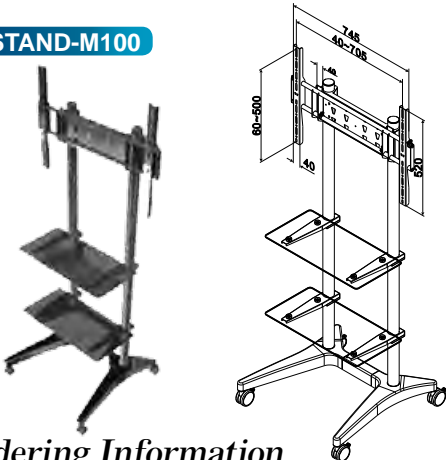
Ordering Information

Part No.	Description
STAND-A26-R11	19"-26" VESA 75x75mm / 100x100mm / 200x100mm / 200x200mm PPC / Monitor Stand, support from 7.3KG to 16.3KG, Black color, RoHS

VESA 100/200/400 Mobile Stand

VESA 100/200/400 Mobile Stand	Model
400x200mm	STAND-M100-R10

STAND-M100



Ordering Information

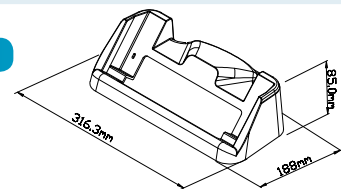
Part No.	Description
STAND-M100	26"-42" VESA 100x100mm/200x200mm/200x200mm/400x200mm/400x400mm PPC/Monitor Stand, support up to 100KG, Black, RoHS

Light POS Stand

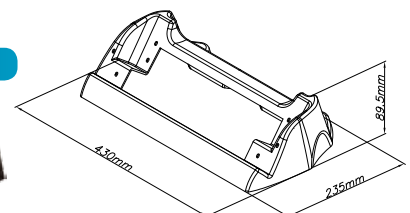
Light POS Stand	Model
	STAND-POS12
	STAND-POS15



STAND-POS12



STAND-POS15



Ordering Information

Part No.	Description
STAND-POS12	AFL-12A/B PPC Stand, Gray color, RoHS
STAND-POS15	AFL-15A/B PPC Stand, Black color, RoHS

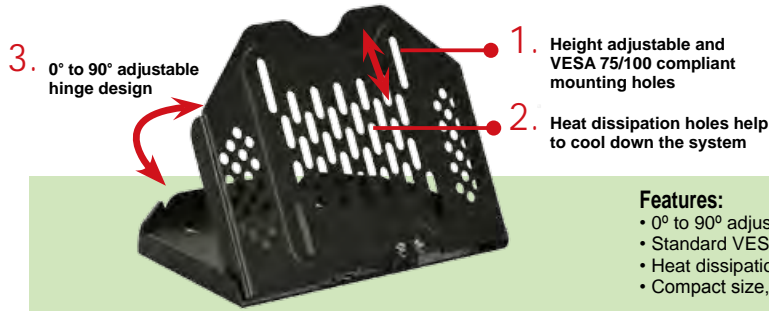
- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals

2. V-STAND

VESA Multi-Mounting Stand

IEI patented multi-mounting V-Stand allows wall, ceiling, desk, rear and side mounting to meet diverse applications. Its 0° to 90° adjustable hinge design provides optimal viewing in various environments, such as kitchen, room or shelf.

VESA	Model
75 x 75mm	VSTAND-A07 VSTAND-A10
75 x 75mm / 100 x 100mm	VSTAND-A12



Features:

- 0° to 90° adjustable hinge design allows comfortable viewing
- Standard VESA 75/100 compliance
- Heat dissipation holes
- Compact size, easy to use for mounting anywhere

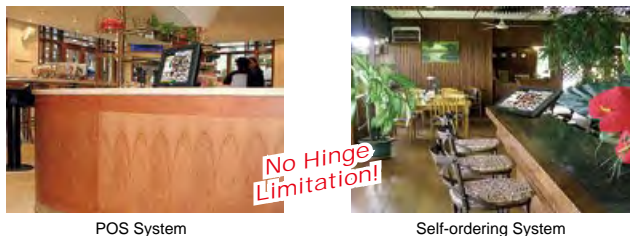
A. One fits all solution

The V-Stand is a compact and tilt adjustable mounting stand providing mobility and ergonomic comfort to fit common wall mounting and ceiling mounting situations.

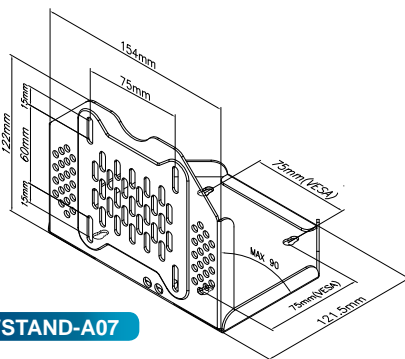
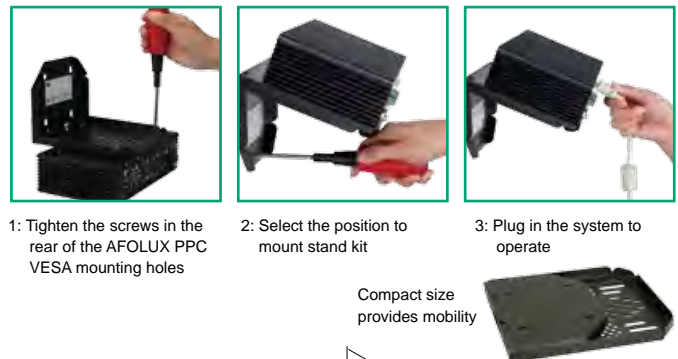


B. 0° to 90° excellent adjustability

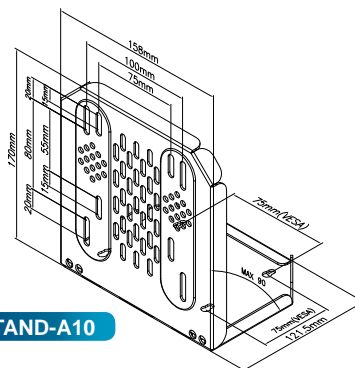
You can change the angle of the stand from 0° to 90° to reach almost any point with ergonomic features for comfortable viewing.



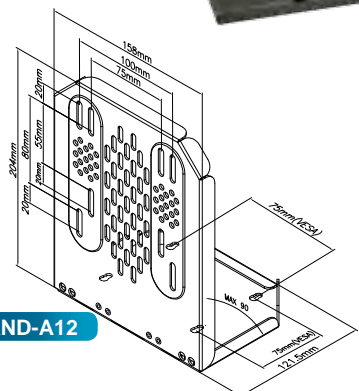
C. Space saving and easy installation



VSTAND-A07



VSTAND-A10



VSTAND-A12

Ordering Information

Part No.	Description
VSTAND-A07	LCD monitor / PPC stand V type, for AFL series, VESA 75, 0°-90° degree adjustable hinge, support up to 2.5 kg, RoHS
VSTAND-A10	LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0°-90° degree adjustable hinge, support up to 3 kg, RoHS
VSTAND-A12	LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0°-90° degree adjustable hinge, support up to 3.5 kg, RoHS

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Automation Panel Solutions

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PACSmate Medical Solutions

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Optional Peripherals

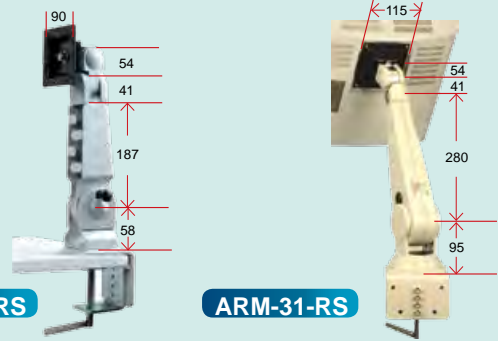
3. ARM

VESA 75/100 Desk ARM

VESA	Model
75x75mm/100x100mm	ARM-11-RS ARM-31-RS

Ordering Information

Part No.	Description
ARM-11-RS	LCD Monitor / PPC ARM, VESA 75/100, 3kg-6kg, RoHS
ARM-31-RS	LCD Monitor / PPC ARM, VESA 75/100, 7kg-14kg, RoHS

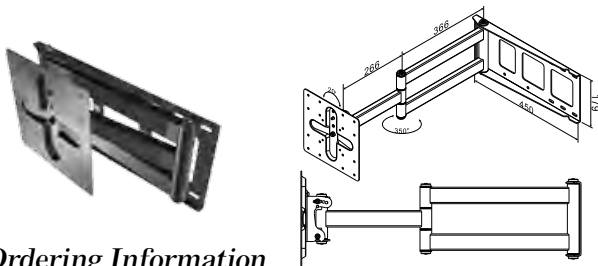


ARM-11-RS

ARM-31-RS

VESA 200 Wall ARM

VESA	Model
200x100mm	ARM-50-R10

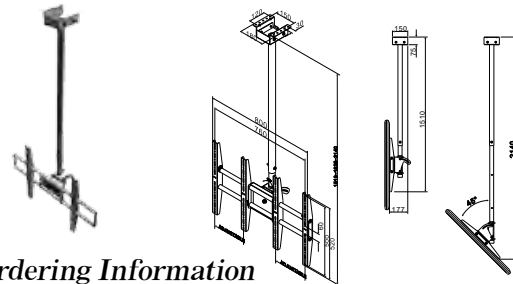


Ordering Information

Part No.	Description
ARM-50-R10	LCD Monitor/PPC Wall ARM, VESA 75x75mm/100x100mm/200x100mm/200x200mm, Loading capacity up to 50Kg, RoHS

VESA 400 Ceiling ARM

VESA	Model
400 x 200mm	CEILMT-135-R10



Ordering Information

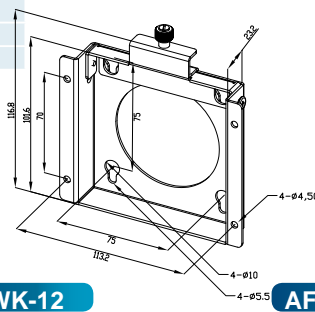
Part No.	Description
CEILMT-135-R10	LCD Monitor/PPC Universal LCD TV Ceiling Mount, VESA 400x200mm/400x400mm, Loading capacity up to 135Kg, RoHS

4. Wall Mounting

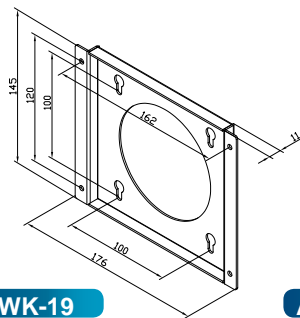
VESA 75/100 Wall Mounting

VESA	Model
75x75mm 100x100mm	AFLWK-12 AFLWK-19 AFLWK-19B

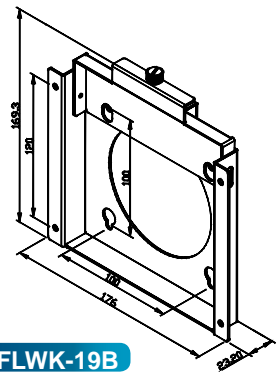
Secure the panel by fastening the retention screw of the bracket.



AFLWK-12



AFLWK-19



AFLWK-19B

Ordering Information

Part No.	Description
AFLWK-12	5.6"-12" VESA 75x75mm PPC/Monitor Wall Mount Kit with Retention Screw, Silver color, RoHS
AFLWK-19	15"-19" VESA 100x100mm PPC/Monitor Wall Mount Kit, Silver color, RoHS
AFLWK-19B	15"-19" VESA 100x100mm PPC/Monitor Wall Mount Kit with Retention Screw, Silver color, RoHS

VESA 200 Wall Mounting

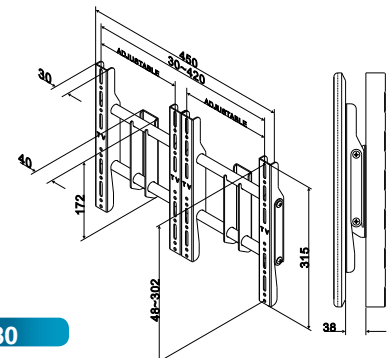
VESA	Model
400 x 200mm 200 x 100mm	WK-80-R10



Ordering Information

Part No.	Description
WK-80	LCD Monitor/PPC Universal LCD TV Fixed Wall Mount, VESA compliant, Loading capacity up to 80Kg, RoHS

WK-80



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RISC-based Solutions

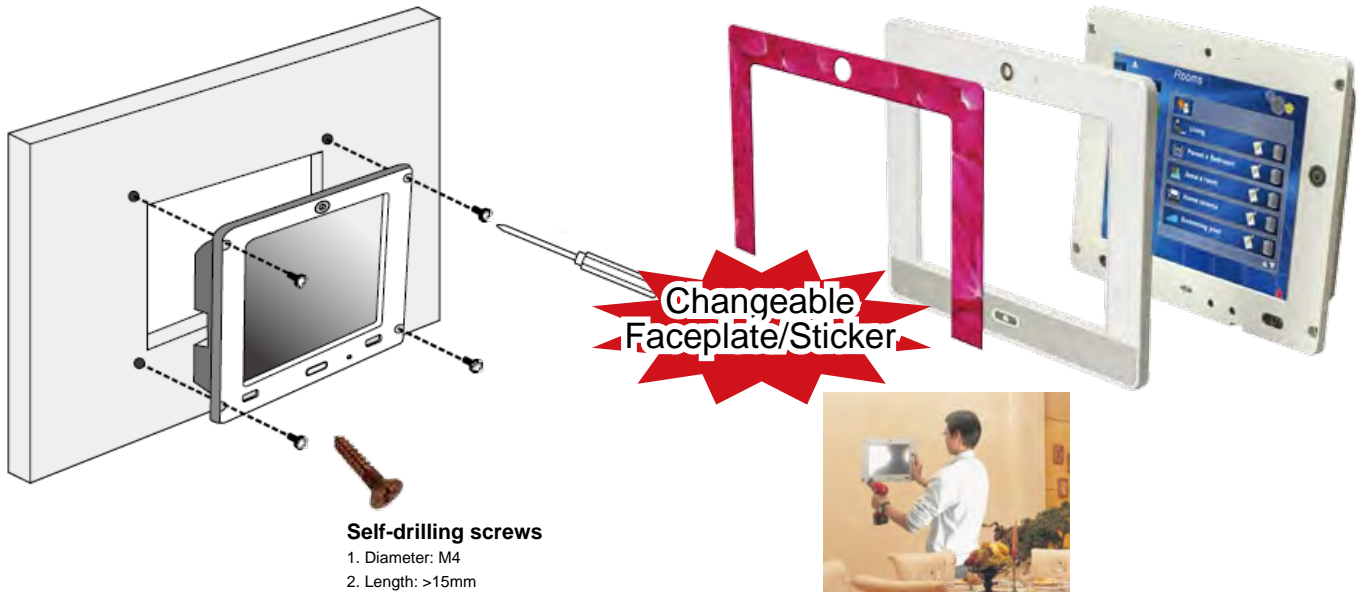
4

PACsmate Medical Solutions

5

Optional Peripherals

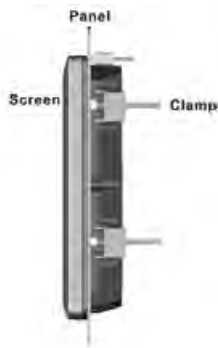
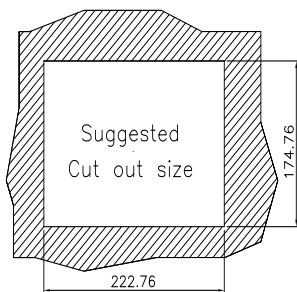
5. In-Wall Mounting



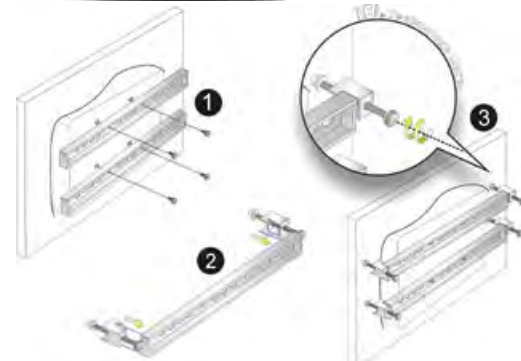
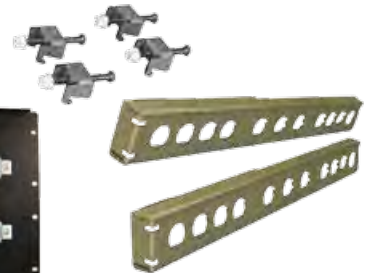
AFL-4 Series

6. Panel Mounting

Type A



Type B



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IEI Mobile Solutions

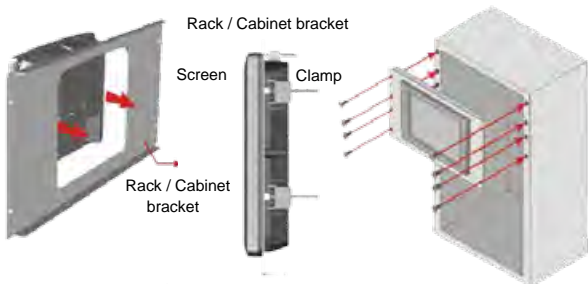
2
Automation Panel Solutions

3
RISC-based Solutions

4
PACSmate Medical Solutions

5
Optional Peripherals

7. Rack Mounting



Ordering Information

Part No.	Description
AFLRK-xx	For AFOLUX PPC/Monitor Series

8. Din Mounting



Ordering Information

Part No.	Description
DK-84MS	For 6.5"-8.4" Industrial Aluminum Panel PCs/Industrial Monitors

IEI LCD Product Mounting Solution Table

AFOLUX Panel PC

Model	AFL-057A-LX	AFL-057A-Zxxx	AFL-07A-LX	AFL-07A-N270	AFL-08AH-LX	AFL-08AH-N270	AFL-F08A-N270	AFL-08B-N270
Panel Mount Kit	AFLPK-12							
Wall Mount Kit	AFLWK-12							
Rack Mount Kit	AFLRK-057		AFLRK-07			AFLRK-08		
ARM	ARM-11-RS / ARM-31-RS							
Stand	STAND-A08 / STAND-C12 / STAND-100-RS		STAND-A08 / STAND-100-RS					
VSTAND	VSTAND-A07				VSTAND-A10			
Model	AFL-W10A-N270	AFL-10A-LX	AFL-10A-N270	AFL-12A-LX	AFL-12A-N270	AFL-15A(E)-N270	AFL-15i(E)-HM55	AFL-W15A-N270
Panel Mount Kit	AFLPK-12					AFLPK-15	AFLPK-15B	
Wall Mount Kit	AFLWK-19	AFLWK-12				AFLWK-19		
Rack Mount Kit	AFLRK-W10	AFLRK-10		AFLRK-12		AFLRK-15-R11	AFLRK-15B-R11	AFLRK-W15
ARM	ARM-11-RS / ARM-31-RS			ARM-11-RS / ARM-31-RS		ARM-11-RS / ARM-31-RS		
Stand	STAND-A12 / STAND-100-RS			STAND-A12 / STAND-POS12 / STAND-100-RS		STAND-A19 / STAND-B19 / STAND-POS15 / STAND-210-R11		STAND-A19 / STAND-B19 / STAND-210-R11
VSTAND	VSTAND-A10			VSTAND-A12		N/A	N/A	N/A
Model	AFL-W15A-GM45	AFL-17D-N270	AFL-17i-HM55	AFL-17D-GM45	AFL-19i-HM55			
Panel Mount Kit	AFLPK-15B	AFLPK-17D			AFLPK-19B			
Wall Mount Kit	AFLWK-19							
Rack Mount Kit	AFLRK-W15	AFLRK-17D-R11	AFLRK-17B-R11	AFLRK-17D-R11	N/A			
ARM	ARM-11-RS / ARM-31-RS1							
Stand	STAND-A19 / STAND-B19 / STAND-210-R1							
VSTAND	N/A	N/A	N/A	N/A	N/A			

AFOLUX GEN 2 Panel PC

Model	AFL2-W07A-N26	AFL2-08A-N26	AFL2-W10A-N28	AFL2-10A-N28	AFL2-12A-D525 AFL2-12A-HM65	AFL2-W15A-N270	AFL2-15A-H61	AFL2-W15B-H61	AFL2-17A-H61	AFL2-W19A-H61	AFL2-W21A-H61
Panel Mounting	AFL2PK-08A		AFL2PK-10A		AFLPK-15	AFL2PK-W15A-R10	N/A	AFL2PK-W15B	AFL2PK-17A	AFL2PK-W19A	N/A
Wall Mounting	AFLWK-12				AFLWK-19 AFLWK-19B						AFLWK-19 AFLWK-19B
Rack Mounting	AFL2RK-W07A	AFL2RK-08A	AFL2RK-W10A	AFL2RK-10A	AFL2RK-12	N/A	N/A	AFL2RK-W15B	AFL2RK-17A	N/A	N/A
Stand	STAND-A08 STAND-B08 STAND-C12		STAND-C12 STAND-B19		STAND-A12 STAND-A19 STAND-B19 STAND-C12	STAND-A19 STAND-B19 STAND-C19 STAND-210-R11	STAND-A19 STAND-B19 STAND-C19 STAND-210-R11	STAND-A19 STAND-B19 STAND-C19 STAND-210-R11	STAND-A19 STAND-B19 STAND-C19 STAND-210-R11 STAND-A26-R11	STAND-A19 STAND-B19 STAND-C19 STAND-210-R11 STAND-A26-R11	STAND-A21
V-Stand	VSTAND-A07		VSTAND-A10		VSTAND-A12	N/A	N/A	N/A	N/A	N/A	N/A
ARM	N/A	N/A	N/A	N/A	ARM-11-RS	ARM-11-RS ARM-31-RS	ARM-11-RS ARM-31-RS		ARM-31-RS		ARM-41-RS
Hybrid Card Reader	AFL2P-08AMSI-U-R10		AFL2P-12AMSI-U-R10			N/A	AFL2P-15AMSI-U-R10	AFL2P-W15BMSI-U-R10	AFL2P-W19AMSI-U-R10		N/A
Magnetic Stripe Reader	AFL2P-08AMSR-U-R10		AFL2P-12AMSR-U-R10			N/A	AFL2P-15AMSR-U-R10	AFL2P-W15BMSR-U-R10	AFL2P-W19AMSR-U-R10		AFL2P-W21AMSR-U-R10

- 1 IEI Mobile Solutions
- 2 Automation Panel Solutions
- 3 RISC-based Solutions
- 4 PACSmate Medical Solutions
- 5 Optional Peripherals