

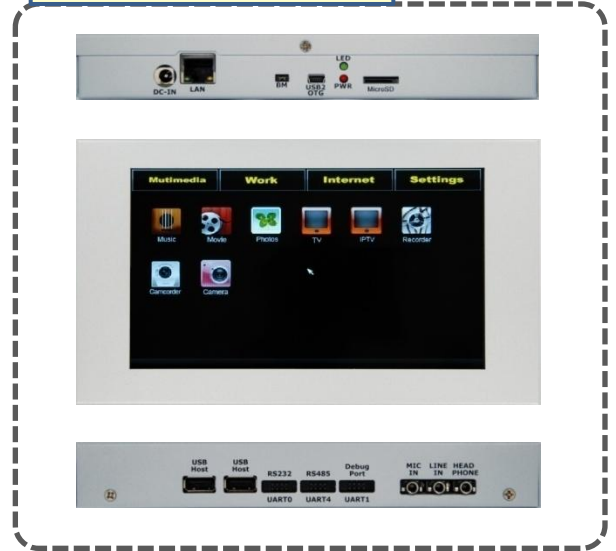
# EC1400

## ARM Embedded Computer with 7"/8"/10" LCD, Android / Linux / WinCE OS

### Features

- Display sizes: 7"(800 × 480) / 8"(800 × 600) / 10.1" (1024 × 600) with 4-wire resistive touch screen
- Onboard ARM1176JZF processor at 700 MHz speed
- Lightweight and compact
- Low power consumption
- MPEG-2/MPEG-4/H.264 hardware video decoder
- ARM Mali graphics engine
- Open GL/ES 2.0 support
- 16-channel digital GPIO for control and connection
- RS-232/RS-485 interfaces for peripheral connection
- USB, microSD card storage interfaces
- Audio interfaces
- HDMI output (EC1400 only)
- Multiple OS support: **Android 2.3**, **Linux 2.6**, **Windows CE 6.0**

EC1407 (shown with Linux)



EC1408 (shown with Windows CE)



EC1410 (shown with Android)



# Specifications

|                               | EC1407   | EC1408            | EC1410            |
|-------------------------------|--|-------------------|-------------------|
| <b>Display</b>                | 7" TFT LCD   | 8" TFT LCD        | 10.1" TFT LCD     |
| <b>Display Resolution</b>     | 800 × 480  | 800 × 600         | 1024 × 600        |
| <b>Colors</b>                 | 262 K  | 262 K             | 262 K             |
| <b>Touch Screen</b>           | 4-wire resistive   | 4-wire resistive  | 4-wire resistive  |
| <b>Supported OS</b>           | <b>Android 2.3 / Linux 2.6 / Windows CE 6.0</b>              |                   |                   |
| <b>Processor</b>              | ARM1176 processor @ 700 MHz                                  |                   |                   |
| <b>Storage</b>                | 512 MB NAND Flash  |                   |                   |
| <b>Memory</b>                 | 256 MB DDR2 SDRAM  |                   |                   |
| <b>Audio</b>                  | 1 × mic in, 1 × line in, 1 × line out                        |                   |                   |
| <b>Video</b>                  | MPEG-2/MPEG-4/H.264 hardware video decoder                   |                   |                   |
| <b>HDMI</b>                   | 1920 × 1080 output ( <b>only EC1400</b> )                    |                   |                   |
| <b>Wireless LAN</b>           | 802.11 b/g/n Wi-Fi ( <b>optional</b> )                       |                   |                   |
| <b>LAN</b>                    | 1 × 10/100 Mbps Ethernet                                     |                   |                   |
| <b>USB</b>                    | 1 × USB 2.0 OTG port, 2 × USB 1.1 host ports                 |                   |                   |
| <b>SD Card</b>                | 1 × microSD card slot  |                   |                   |
| <b>Serial Port</b>            | 1 × RS-232, 1 × RS-485, 1 × debug (console) port             |                   |                   |
| <b>GPIO</b>                   | 16-channel (digital, +3.3 V)                                 |                   |                   |
| <b>Enclosure</b>              | Aluminum, VESA mounting (EC1407 requires a mounting kit)     |                   |                   |
| <b>Power Input</b>            | DC +12 V @ 1.5 A   |                   |                   |
| <b>Environment</b>            | Operating temperature: 0° C to 60° C (EC1410: 0° C to 50° C) |                   |                   |
| <b>Dimensions (W × H × D)</b> | 200 × 114 × 29 mm  | 212 × 165 × 47 mm | 263 × 170 × 47 mm |
| <b>Weight</b>                 | Approx. 700 g  | Approx. 800 g     | Approx. 1300 g    |

## Ordering information

### EC14 Embedded Computer

| Part No.        | Descriptions           | Part No.        | Descriptions             | Part No.        | Descriptions                |
|-----------------|------------------------|-----------------|--------------------------|-----------------|-----------------------------|
| <b>EC1400NL</b> | No LCD; HDMI; Linux    | <b>EC1400NA</b> | No LCD; HDMI; Android    | <b>EC1400NC</b> | No LCD; HDMI; Windows CE    |
| <b>EC1407TL</b> | 7" LCD with TP; Linux  | <b>EC1407TA</b> | 7" LCD with TP; Android  | <b>EC1407TC</b> | 7" LCD with TP; Windows CE  |
| <b>EC1408TL</b> | 8" LCD with TP; Linux  | <b>EC1408TA</b> | 8" LCD with TP; Android  | <b>EC1408TC</b> | 8" LCD with TP; Windows CE  |
| <b>EC1410TL</b> | 10" LCD with TP; Linux | <b>EC1410TA</b> | 10" LCD with TP; Android | <b>EC1410TC</b> | 10" LCD with TP; Windows CE |

### EC14 Series Package Contents

|   |                                  |                                  |
|---|----------------------------------|----------------------------------|
| 1 × EC1400 / EC1407 / EC1408 / EC1410 Embedded Computer | 1 × pin header for the DB9 cable | 1 × CD (software, User's Manual) |
| 1 × power adapter                                       |                                  |                                  |



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