PC-W Ethernet Wireless Client Adapter

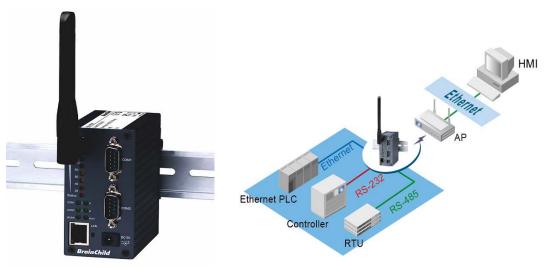


Fig: Sample Application

Description

This Wireless Client Adapter provides Ethernet wireless connectivity for serial devices like RS232, RS422, RS485 and Ethernet devices

Features

Transparent between Ethernet to Wireless networking 2 Nos. serial ports (RS232/RS422/RS485) One 10/100 Ethernet Port Support UDP, TCP server and client protocols for Virtual COM mode and pair connection Configurable via built-in web server and Windows-based utilities Metal housing and IP50 standard with DIN-Rail mounting 15KV ESD protection for serial ports IEEE 802.11g 54Mbps wireless network connectivity Standard 2.4GHz, 4 dBi High-gain antenna, Optional 9 dBi High-gain antenna Transmission distance up to 300 meters @12 Mbps, in open areas using standard 4 dBi Antenna

Hardware Specifications

Wireless LAN	
Hardware	Compliance to IEEE 802.11b/g Standard
	Modulation Type: CCK, DQPSK, DBPSK, OFDM (11g)
Topologies	Infrastructure and Ad-Hoc
Security	WEP 64-bit/128-bit data encryption
	WPA Compatible (TKIP/AES Encryption)
	WPA2-PSK
RF Performance	Tx Power: 14 dBm for 802.11b and 13 dBm for 802.11g
	Rx Sensitivity: -66 dBm @ 54 Mbps, -80 dBm @ 11Mbps
	Transmission Rate: 54 Mbps (max.) with auto fallback
	Transmission distance: Up to 300 meters @12 Mbps, in open areas
	Mobile for Fast Roaming
Interfaces	Reverse SMA connector for an external antenna



Serial

1PG-24001

1CB-0025

Protocol Interface Parameters	Support RS-232/ RS-485/ RS-422 and Software Selection D-Sub 9-pin Connector –DB Model (with 12KV ESD) Baud Rate: 1200 bps ~ 921 kbps Parity Check: None, Odd, Even, Mark, Space Data Length: 7/8 Bit Stop Bit: 1/2 Flow Control: None, Software: Xon/Xoff, Hardware: RTS/CTS
Network	I contraction of the second
Hardware Interface Configuration	10/100M Auto-Negotiation Fast Ethernet RJ-45 Connector with 2 LEDs Protection: Built-in 1.5 KV magnetic isolation Using Web-based or a Serial Manager program
Power	
Input Consumption	DC 9V-48V 4.5 W max @ Tx Mode
Mechanical	
Dimensions Casing	H x W x D: 90mm x 45mm x 75mm Metal Housing for IP50 Standard
Environmental	
Operating Temp. Storage Temp.	0 to 65°C (32 to 140°F), 5 to 95% RH -20 to 85°C (-4 to 185°F), 5 to 95%RH
Regulatory Approvals	I
EMC Safety Warranty	FCC/CE UL 4.5 Years
Software Specifications	
Protocol Utility	ICMP, IP, TCP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP, SMTP, SNTP Virtual COM Utilities for Windows 98/2000/XP/2003/Vista Configure Utilities: Supported for Windows 98/2000/NT/XP/2003/Vista
Configuration	Web browser Windows utility software
Buffer Size	TCP receiving buffer size = 8K bytes TCP transmitting buffer size = 16K bytes RS-232/RS-485 receiving buffer size = 4K bytes RS-232/RS-485 transmitting buffer size = 4K bytes
Accessories	I contraction of the second
AH1812-B AH1812-E 1GP-2409	AC100~240V US plug / DC12V DC-JACK AC100~240V Europe plug / DC12V DC-JACK 9.0 dBi omnidirectional antenna (Max. line of sight distance: 800 meters)

9.0 dBi omnidirectional antenna (Max. line of sight distance: 800 meters)
9.0 dBi directional panel antenna (Max. line of sight distance: 800 meters)
External RF Cable, RG58 SMA to N Male 3 meters used with antenna

Application-1

4 dBi antenna, max.300 meters open areas

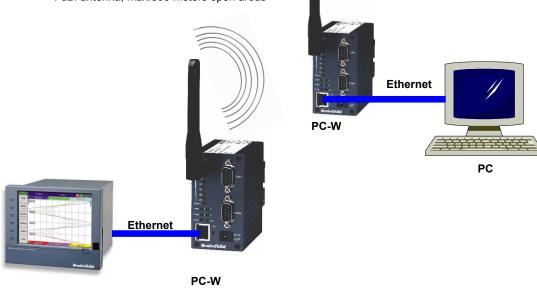




Fig: Paperless Recorder to PC by two PC-W devices Via Wireless Ethernet



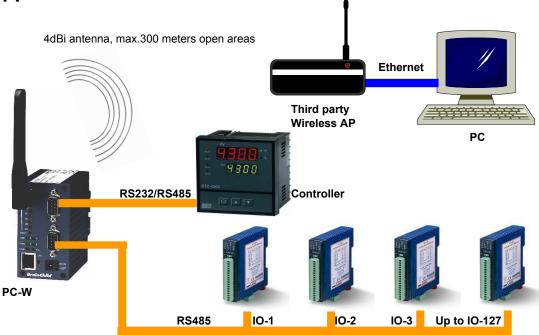


Fig: Controller and IO Modules to PC via Wireless Ethernet



BRAINCHILD Electronic Co., Ltd. 209 Chung Yang Rd., Nangang Dist., Taipei 11573, Taiwan Tel: 886-2-27861299 Fax: 886-2-27861395 Email: sales@brainchild.com.tw Website: http://www.brainchild.com.tw