PC-W

Ethernet Wireless Client Adapter



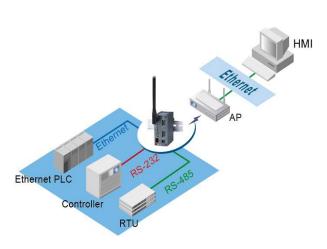


Fig: Sample Application

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

Protocol Support RS-232/ RS-485/ RS-422 and Software Selection Interface D-Sub 9-pin Connector –DB Model (with 12KV ESD)

Parameters 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

Hardware 10/100M Auto-Negotiation Fast Ethernet

Interface RJ-45 Connector with 2 LEDs

Protection: Built-in 1.5 KV magnetic isolation

Configuration Using Web-based or a Serial Manager program

Power

Input DC 9V-48V

Consumption 4.5 W max @ Tx Mode

Mechanical

Dimensions H x W x D: 90mm x 45mm x 75mm Casing Metal Housing for IP50 Standard

Environmental

Operating Temp. 0 to 65°C (32 to 140°F), 5 to 95% RH Storage Temp. -20 to 85°C (-4 to 185°F), 5 to 95%RH

Regulatory Approvals

EMC FCC/CE
Safety UL
Warranty 4.5 Years

Software Specifications

Protocol ICMP, IP, TCP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP, SMTP, SNTP

Utility 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

AH1812-B AC100~240V US plug / DC12V DC-JACK
AH1812-E AC100~240V Europe plug / DC12V DC-JACK

1GP-2409 9.0 dBi omnidirectional antenna (Max. line of sight distance: 800 meters)
1PG-24001 9.0 dBi directional panel antenna (Max. line of sight distance: 800 meters)
1CB-0025 External RF Cable, RG58 SMA to N Male 3 meters used with antenna

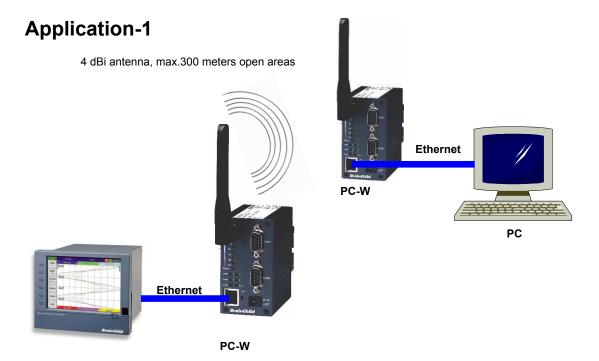


Fig: Paperless Recorder to PC by two PC-W devices VR18 Via Wireless Ethernet

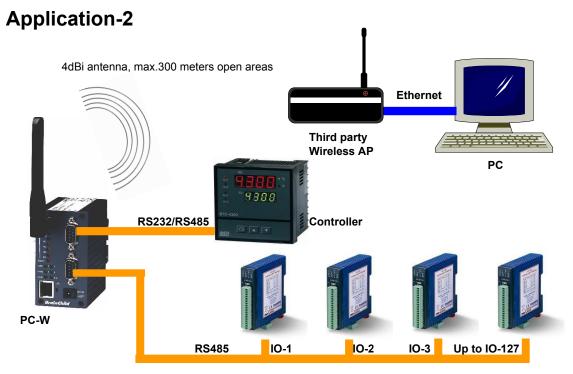


Fig: Controller and IO Modules to PC via Wireless Ethernet

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