



Ethernet Wireless Bridge + 2-port Wireless Serial Server

■ ■ EW5302

RoHS compliant

- Transparent between Ethernet to Wireless networking
- Plus 2-serial port for more connectivity
- Metal housing and with standard DIN-Rail supported
- 15KV ESD protection for serial ports
- IEEE 802.11g 54Mbps wireless network connectivity
- Support UDP, TCP server and client protocols for Virtual COM mode and pair connection
- Selectable RS-232/422/485 serial mode by software
- Configurable via built-in web server and Windows-based utilities
- Standard 2.4GHz 4dBi antenna or optional high gain antenna
- Upgradeable firmware via network

EW5302 Wireless Client Adaptor is a bridge between wireless LAN to Ethernet and RS-232/485 communications. There are one Ethernet port and two Serial ports to connect to IEEE 802.11g/b wireless network. The information transmitted by Wireless Client Adaptor is transparent to both host computers (IP network over wireless LAN) and devices (Ethernet/RS-232/485). Data from the wireless LAN is transmitted to the designated Ethernet/RS-232/485 port and data from Ethernet/RS-232/485 port is transmitted to the Wireless (TCP/IP) transparently.

By using EW5302, these devices can be communicated over a wireless network to send or receive information from, e.g., a backend server or database. In the computer integration manufacturing or industrial automation area, Wireless Client Adaptor is used for field devices to direct connect to network.

Many control devices provide the ability to communicate with hosts through Ethernet/RS-232/485 however RS-232/485 serial communication has its limitations. For instance, it is hard to transfer data through Wireless or long distance. With EW5302, it is possible to communicate with a remote device in the Intranet environment or even in the Internet and thus, increases the communication distance dramatically.

Flexible configuration options enable this unit to be setup remotely over IP network by Web browser, or Window utility. Packed in a rugged DIN Rail mountable case and 9~48V DC power input range, EW5302 is ideal for almost any industrial and manufacturing automation.

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| Specifications | |
|-----------------------------|--|
| System | |
| CPU | 32-bit 150MHz RISC Processor with MMU |
| Flash | 2+8 MB (2MB for Bootloader) |
| RAM | 32 MBytes SDRAM |
| EEPROM | 2K Bytes |
| Watchdog | Hardware built-in |
| Ethernet | |
| Compliance | IEEE802.3 |
| Port | 1-port |
| Transmission Rate | 10/100Mbps Auto-detection |
| Connector | RJ-45 |
| Auto MDI/MDI-X | Yes |
| WLAN | |
| Compliance | IEEE802.11g/b |
| WEP | 64-bit / 128-bit data encryption |
| WPA | WPA/WPA2-PSK compatible (Supported TKIP / AES encryption) |
| Modulation | CCK, DQPSK, DBPSK, OFDM (11g) |
| Tx Power | 11b: 15dBm / 11g: 14dBm |
| Rx Sensitivity | -66dBm@54Mbps / -80dBm@11Mbps |
| Transmission Rate | 54Mbps (max.) with auto fallback |
| Transmission Distance | Up to 300 meters |
| Topologies | Infrastructure, Ad-Hoc |
| Antenna connector | Reverse SMA |
| Serial | |
| Interface | RS-232/422/485 software selectable |
| Ports | 2-port |
| Baud Rate | 110bps~921Kbps |
| Parity | None, Odd, Even, Mark, Space |
| Data Bits | 5, 6, 7, 8 |
| Stop Bits | 1, 2 |
| Flow Control | None, Software: Xon/Xoff, Hardware: RTS/CTS |
| Connector | 9 pin D-Sub / 5-pin 5.08mm terminal block |
| Protection | 15KV ESD |
| LAN to WLAN Processing | Store-and -Forward |
| Power | |
| Input | DC 9 ~ 48V |
| Consumption | Max. 4.5 W (Tx Mode) |
| Environment | |
| Operating | 0°C ~ 65°C (32° ~ 149°F) |
| Storage | -40° ~ 85°C (-40°~ 185°F), 5 ~ 95%RH |
| Dimension | |
| W x H x D | 45mm x 91mm x 80mm |
| Software | |
| Configuration | Web browser,Windows Utility |
| Virtual Com | Utilities for Windows 98/2000/XP/2003,Virtual COM for Windows 98/2000/XP/2003 |
| Support Protocol | ICMP,IP,TCP,UDP,DHCP Client,Telnet,DNS,SNMP,HTTP,SMTP,SNTP |
| Ordering Information | |
| EW5302-WgN1(DB) | Wireless Client Adaptor plus 2-serial port with D-Sub 9-pin connector |
| EW5302-WgN1(TB) | Wireless Client Adaptor plus 2-serial port with TB 5-pin connector |
| Optional Accessories | |
| Antenna | HG055: 5.5dBi reverse SMA connector with 180cm cable HG090 9dBi reverse SMA connector with 150cm cable |
| RF Cable | HG-C150AN SMA(R) to N-male 150cm cable |
| Power Adapter | 1A25F (US / EU): AC100 ~ 240V / DC 12V ; DC Jack lockable US315-12 (US / EU): AC100 ~ 240V / DC 12V ; 5.08mm pitch terminal block |

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CA_EW5302_E : v1-081031