



RoHS compliant

## Ethernet Wireless Bridge + 2-port Wireless Serial Server

■ ■ EW5302

- 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

<b>System</b>	
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
<b>Ethernet</b>	
Compliance	IEEE802.3
Port	1-port
Transmission Rate	10/100Mbps Auto-detection
Connector	RJ-45
Auto MDI/MDI-X	Yes
<b>WLAN</b>	
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
<b>Serial</b>	
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
<b>Power</b>	
Input	DC 9 ~ 48V
Consumption	Max. 4.5 W (Tx Mode)
<b>Environment</b>	
Operating	0°C ~ 65°C ( 32° ~ 149°F )
Storage	-40° ~ 85°C ( -40°~ 185°F ), 5 ~ 95%RH
<b>Dimension</b>	
W x H x D	45mm x 91mm x 80mm
<b>Software</b>	
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
<b>Ordering Information</b>	
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
<b>Optional Accessories</b>	
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