



## 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 and 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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EW5302

Specifications	
<b>CPU</b>	32-bit 150MHz RISC Processor with MMU
<b>Flash</b>	2+8 MB (2MB for Bootloader)
<b>SDRAM</b>	32 MBytes
<b>EEPROM</b>	2KBytes
<b>Watchdog</b>	Hardware built-in
<b>Ethernet</b>	Compliance:IEEE802.3 Transmission Rate:10/100M Auto-detection Connector:RJ-45 Auto MDI/MDI-X
<b>Wireless LAN</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 @54 Mbps, -80dBm @11Mbps Transmission rate:54Mbps (max.) with auto fallback Transmission distance:Up to 300 meters (@12Mbps, in open areas) Topologies:Infrastructure, Ad-Hoc Antenna: 4dBi Reverse SMA
<b>Serial Communication</b>	Interface:RS-232/422/485 Software selectable Ports:Single/Dual-Port Baud rate:110bps~921Kbps Parity:None, Odd, Even, Mark, Space Data bits:5,6,7,8 Stop Bit:1,2 Flow Control:None, Software: Xon/Xoff, Hardware: RTS/CTS Protection:15KV ESD Connector:9 pin D-Sub / 5-pin 5.08mm terminal block
<b>LAN to WLAN Processing</b>	Store-and-Forward
<b>Power Requirement</b>	Input:DC 9~48V Connector:DC Jack lockable / 3-pin 5.08mm terminal block consumption:Max. 4.5 W (Tx Mode)
<b>Approval</b>	EMC:FCC Class A, CE Class A Safety:UL, CUL Protection:IP50
<b>Dimension</b>	45mm x 91mm x 80mm (W x H x D)
<b>Environment</b>	Operating:0°C~65°C (32°~149°F) Storage:-40°C~85°C (-40°~185°F), 5~95%RH
<b>Humidity</b>	5%~95% non-condensing
<b>Software</b>	Protocols:ICMP,IP,TCP,UDP,DHCP Client,Telnet,DNS,SNMP,HTTP,SMTP,SNTP Utilities for Windows 98/2000/XP/2003,Virtual COM for Windows 98/2000/XP/2003
<b>Configuration</b>	Web browser,Windows Utility
Ordering Information	
<b>EW5302-WgN1(DB)</b>	Wireless Client Adaptor plus 2-serial port with D-Sub 9-pin connector
<b>EW5302-WgN1(TB)</b>	Wireless Client Adaptor plus 2-serial port with TB 5-pin connector
Optional Accessories	
<b>US315-12 (US)</b>	US plug, AC100~240V to DC12V, Terminal block for EW5302(TB)
<b>USE315-12 (EU)</b>	EU plug, AC100~240V to DC12V, Terminal block for EW5302(TB)
<b>1A25F(US)</b>	US plug, AC100~240V to DC12V, DC Jack lockable for EW5302-WgN1(DB)
<b>1A25F(EU)</b>	EU plug, AC100~240V to DC12V, DC Jack lockable for EW5302-WgN1(DB)
<b>HG055</b>	5.5dBi antenna, SMA (R) Female connector with 180cm cable
<b>HG-090</b>	9dBi Antenna N-Male
<b>HG-C150AN</b>	RG58,SMA® Female to N Female,150cm Cable

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CA\_EW5302\_E : v1-081031