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.

atop Technologies

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Specifications	
CPU	32-bit 150MHz RISC Processor with MMU
Flash	2+8 MB (2MB for Bootloader)
SDRAM	32 MBytes
EEPROM	2KBytes
Watchdog	Hardware built-in
Ethernet	Compliance:IEEE802.3
	Transmission Rate:10/100M Auto-detection
	Connector:RJ-45
	Auto MDI/MDI-X
Wireless LAN	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
Serial Communication	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
LAN to WLAN Processing	Store-and-Forward
Power Requirement	Input:DC 9~48V
	Connector:DC Jack lockable / 3-pin 5.08mm terminal block
	consumption:Max. 4.5 W (Tx Mode)
Approval	EMC:FCC Class A, CE Class A
	Safety:UL, CUL
	Protection:IP50
Dimension	45mm x 91mm x 80mm (W x H x D)
Environment	Operating:0°C~65°C (32°~149°F)
	Storage:-40°C~85°C (-40°~185°F), 5~95%RH
Humidity	5%~95% non-condensing
Software	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
Configuration	Web browser,Windows Utility

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	
US315-12 (US)	US plug, AC100~240V to DC12V, Terminal block for EW5302(TB)
USE315-12 (EU)	EU plug, AC100~240V to DC12V, Terminal block for EW5302(TB)
1A25F(US)	US plug, AC100~240V to DC12V, DC Jack lockable for EW5302-WgN1(DB)
1A25F(EU)	EU plug, AC100~240V to DC12V, DC Jack lockable for EW5302-WgN1(DB)
HG055	5.5dBi antenna, SMA (R) Female connector with 180cm cable
HG-090	9dBi Antenna N-Male
HG-C150AN	RG58,SMA® Female to N Female,150cm Cable