"Device-Wireless" Networking Access

Wireless Serial-Ethernet Server

■ ■ **GW21W**

- Dual-port DIN-Rail Wireless model.
- Monitor, manage, and control industrial field device remotely.
- Extend the distance of point-to-point serial connection.
- Selectable RS-232, RS-485, or RS-422 serial interface.
- IEEE 802.11b 11Mbps Wireless network connectivity.
- Configurable via serial console Telnet, built-in web server, or Windows based utilities.
- Optional High Gain Antenna.
- Optional High-power wireless card.

The Wireless Industrial Serial-Ethernet Server GW21W is a gateway between Ethernet (TCP/IP) and RS-232/RS-485/RS-422 communications. It allows almost any serial device to be connected to a new or existing Ethernet network. GW21W offers wireless network interface (IEEE802.11b, 11Mbps) and two serial ports.

By encapsulating serial data and transporting it over Wireless LAN, GW21W offers full-duplex, bi-directional data transmission transparent between serial port and Wireless LAN.

In industrial and manufacturing automation fields, GW21W is used for field devices to connect Wireless LAN through TCP/IP protocol directly. It is also specially designed for conjunction with PLCs, HMIs, Barcode Scanners, Data Terminals, Electronic Kanbans, Shop Floor Control Systems, and Pick-to-light systems.

Terminal Server (main control program executed in this unit) makes most use of Ethernet (Wireless LAN) connectivity to drive serial devices. It transforms whatever serial data received to TCP/UDP format then enables a host computer to drive the serial devices through the Wireless LAN and Ethernet.

Atop Virtual Com software provides existing Windows based applications to access serial-Ethernet devices by mapping to remote serial server over Ethernet.

Flexible configuration options enable this unit to be setup over Ethernet by Telnet, web browser, or other utility. Packed in a rugged DIN Rail-mountable case and 9~12VDC power input range, GW21W is ideal for almost any industrial and manufacturing automation.
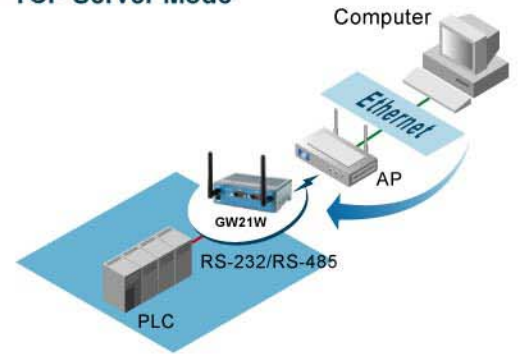
atop
Technologies

Wireless Serial-Ethernet Server → GW21W

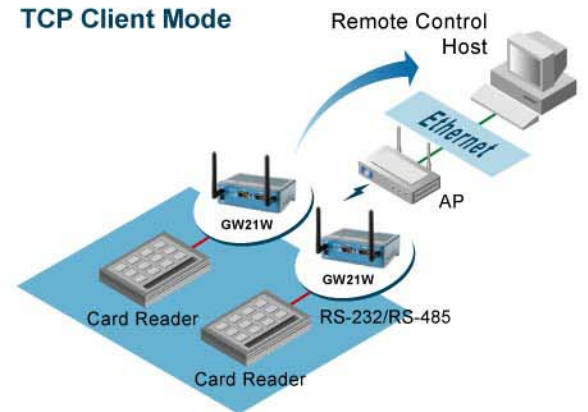| Specifications	
CPU	16-bit Embedded CPU
Flash Memory	512 KBytes
EPROM	256 KBytes
EEPROM	512 Bytes
Network Interface	IEEE802.11b 11Mbps Wireless LAN
Network Protocol	TCP/IP, UDP, SNMP Read, HTTP, Telnet, ARP, BOOTP, WEP, ICMP, DHCP
Reset	Built-in default key to restore the defaults
Watch Dog Timer	1 second hardware auto reset
	Internal power failure threshold: 4.75V
Serial Interface	Two serial ports, RS-232/RS-485/RS-422 is selectable
Serial Connector	9 pin Male D-type
Serial Communication	Data Rate: 1200~115200 bps
	Characters: 7 or 8 data bits
	Parity: None, Even, Odd, Mark, Space.
	Stop Bits: 1 or 2
	Flow Control: Xon/Xoff, RTS/CTS
LED Indicator	RUN, LAN, COM1 and COM2
Power Requirement	12VDC, 350mA
Temperature	Operation: 0℃~60℃, Storage : -20℃~70℃
Humidity	20%~90% non-condensing
Dimension	126mm x 90mm x 43mm (D x W x H)
Software	Windows OS based Configuration Utility, Virtual Com software
Configuration	Web (HTML), Telnet, serial console and Configuration Utility

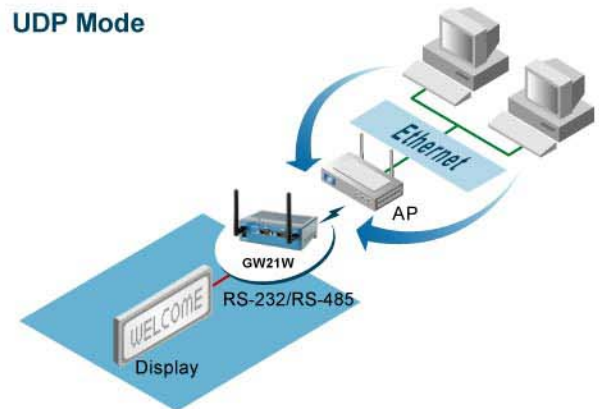| Ordering Information (by Model)	
GW21W-22 (US)	Dual-port, default setting with two RS-232 ports
GW21W-25 (US)	Dual-port, default setting with one RS-232 and one RS-485 port
GW21W-55 (US)	Dual-port, default setting with two RS-485 ports
GW21W-22 (EU)	Dual-port, default setting with two RS-232 ports
GW21W-25 (EU)	Dual-port, default setting with one RS-232 and one RS-485 port
GW21W-55 (EU)	Dual-port, default setting with two RS-485 ports
HG055	5.5dBi antenna, SMA (R) Female connector with 180cm cable (optional)
HG110	11dBi antenna, SMA (R) Female connector with 60cm cable (optional)
HG110-C600N	N Male to N female connector with 600cm cable (optional)
XI-325HP	PCMCIA card, 23dBm (optional)
Note:	(US)-United States Plug, (EU)-European Plug.

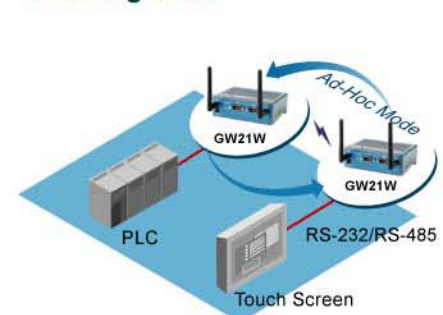## TCP Server Mode

TCP Client Mode

UDP Mode

Tunneling Mode

GW21W Front Panel

43.00mm
126.00mm

LED Indicator   DB9 Serial port   Wireless Ethernet Antenna
Power Plug

CE FC