

Ethernet connectivity without the wiring

The 905U-E is an ideal solution for Ethernet and serial connections in process control and automation applications - PLCs, DCS, SCADA, data acquisition, wireless video ... the 905U-E can handle multiple applications simultaneously.

All in the same unit ...

Maximum flexibility, while saving expensive wiring costs. Each module can be configured as a

- Access Point
- Bridge
- Repeater
- Client/Station
- Router
- Serial server

10/100 BaseT Ethernet, wireless data up to 200 Kbits/sec
 ELPRO's proven Industrial Strength 900MHz FHSS technology with high immunity to interference

Long and short range applications ...

- range 60 miles (100km), license-free* - repeater functionality increases wireless range even further
- excellent penetration in congested industrial environments - over 3000 feet (1 km) through buildings, factory walls and steelwork

Security, reliability, redundancy ...

- multiple layers of error-detection and correction
- automatic changeover to another Access Point if the wireless link fails
- military-grade AES security encryption of wireless data

Ethernet and Serial ...

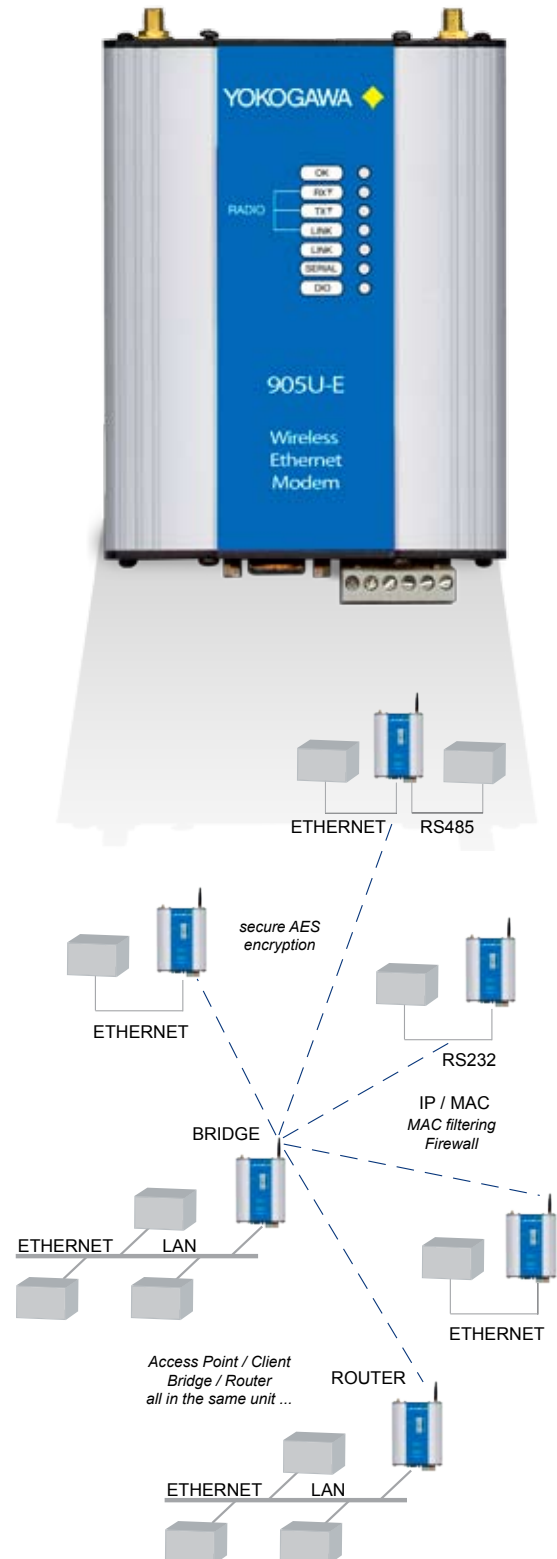
- three connection ports - Ethernet and two serial interfaces, RS232 and RS485 - can be used simultaneously
- serial server functionality, serial to serial, serial to Ethernet, point to multi-point, Modbus serial to Modbus TCP
- discrete channel for status I/O, failure status or external status transfer

Firewall protection and efficient wireless management ...

- secure Firewall protection
- message filtering at MAC and/or IP address level

Easy to use configuration and powerful diagnostics ...

- configuration and diagnostics via web-browser
- remote configuration and diagnostics via the wireless link



SPECIFICATIONS

Ethernet

10/100 BaseT RJ45, IEEE 802.3 compliant
Bridge/router functions work with all Ethernet protocols
Embedded Protocols:
TCP/IP, UDP ARP, PPP, ICMP, HTTP, FTP, TFTP, TELNET

Serial

RS232 V.24 DCE 1.2 - 115.2 Kb/s, RS485 1.2 to 115.2 Kb/s
Serial server functionality provides multiple connectivity modes - serial to serial, serial to Ethernet, Modbus serial to Modbus TCP, and point to multipoint.

Discrete I/O

One I/O channel, Input voltage-free contact / Output FET 30VDC 500mA
Used to transfer input to output status or communications failure output

Networking

Configurable as Access Point or Client, Bridge or Router
Point-to-point, Point-to-multipoint, user configurable addressing
Repeater functionality
Address Filtering - whitelist or blacklist - MAC and / or IP address

Radio

Frequency hopping spread spectrum
Frequency bands
USA/Canada 902 - 928 MHz
Transmit power 0.1 - 1W (20 - 30 dBm) configurable
System gain 140 dB
Receiver sensitivity -108 dBm @ 10-6 BER
Data rates 19.2, 38.4, 100, 200 Kb/s or auto rate selection

Protocol CSMA/CA with 32 bit CRC and auto-correction
Radio range 60 miles / 100 km line-of-sight using high gain antennas
*(USA/Canada only with 4W ERP)
Range may be extended using repeater features
SMA coaxial antenna connection

Security

128 bit AES encryption or 64 bit proprietary encryption (configurable)
MAC and / or IP filtering Password protected configuration

On-line Configuration and Diagnostics

HTTP with remote configuration via wireless link
RF signal strength, Bit Error Rate, connection monitoring and statistics
PPP Protocol Access to diagnostics

General

Temperature -40 to 140 degF, -40 to +60 degC
Humidity 99% non-condensing
Power Supply 10 - 30VDC
Current Normal 280mA (12V), 150mA (24V)
Transmit (1W) 500mA (12V), 300mA (24V)
Case, heavy duty painted aluminum, DIN rail mounting
Size 4.5 x 5.5 x 1.2 in. / 114 x 140 x 30 mm
Weight < 0.8 lb / 0.4 kg
Indicators: Power/OK, Radio Rx and Tx, Radio Link, LAN Link/
Activity, Serial Activity, Digital I/O, LAN 10/100Mbit Link
Approvals FCC 15.247, RS210
Hazardous area CSA Class 1 Div 2 (pending)

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SEE
CLEARLY

KNOW
IN ADVANCE

ACT
WITH AGILITY

The clear path to operational excellence

VigilantPlant is Yokogawa's automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.

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