

905U-E Industrial Ethernet Radio Modem 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 – 115.2 Kb/s

Discrete I/O

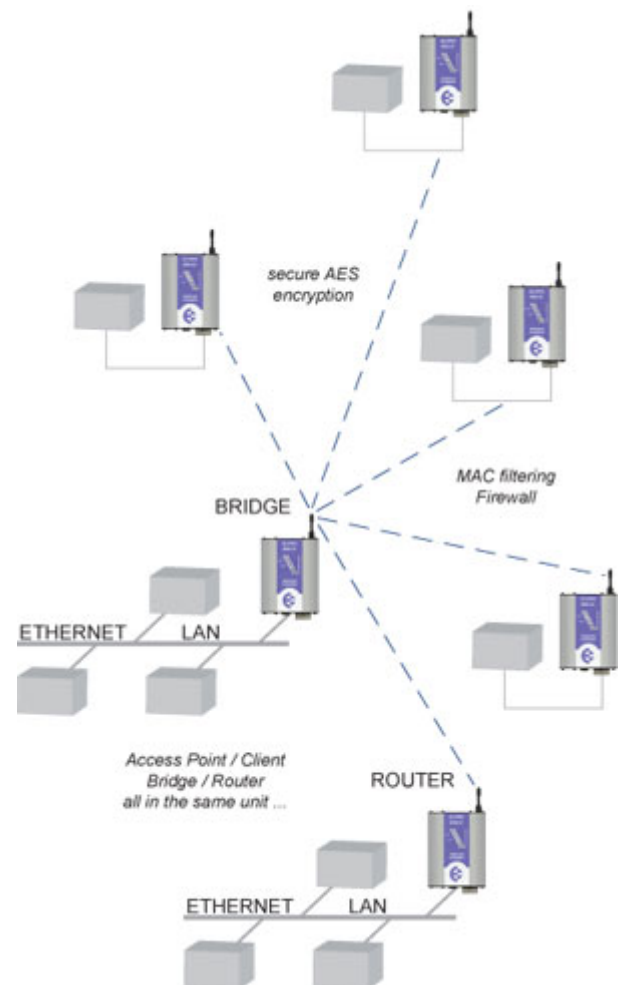
- One I/O channel
- Input voltage-free contact / Output FET 30VDC 500mA

Networking

- Configurable as Access Point or Client, Bridge or Router
- Point-to-point, Point-to-multipoint, user configurable addressing
- Repeater functionality MAC Filtering - whitelist or blacklist
- Serial gateway TELNET

Radio

- Frequency hopping spread spectrum
- Frequency bands
 - USA/Canada 902 - 928 MHz
 - Australia 915 - 928 MHz
 - New Zealand 921 - 928 MHz
 - For other countries, refer to ELPRO
 - 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, 230 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 and subject to local conditions (up to 4W ERP permitted in USA/Canada)
 - Range may be extended using repeater features
 - SMA coaxial antenna connection



Security

- 128 bit AES encryption or 64 bit proprietary encryption (configurable)
- Data modulation keying MAC Address filtering
- Password protected configuration

On-line Configuration & 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)