

The 240U-E provides reliable and secure high-speed wireless Ethernet connectivity across a broad range of applications in process and automation plants.

- **802.11b** compliant 2.4 GHz license-free, wireless data up to 11Mb/s
- Connects to PLC's, HMI, DCS, data acquisition, video devices and industrial PC's

Greater flexibility in one unit

Each module can be configured as a

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

The 240U-E has an Ethernet port (10/100 BaseT) as well as two serial ports (RS232 and RS485) - up to three independent device connections simultaneously... Ethernet to Ethernet, serial to serial, serial to Ethernet, point to multi-point, Modbus serial to Modbus TCP conversion.

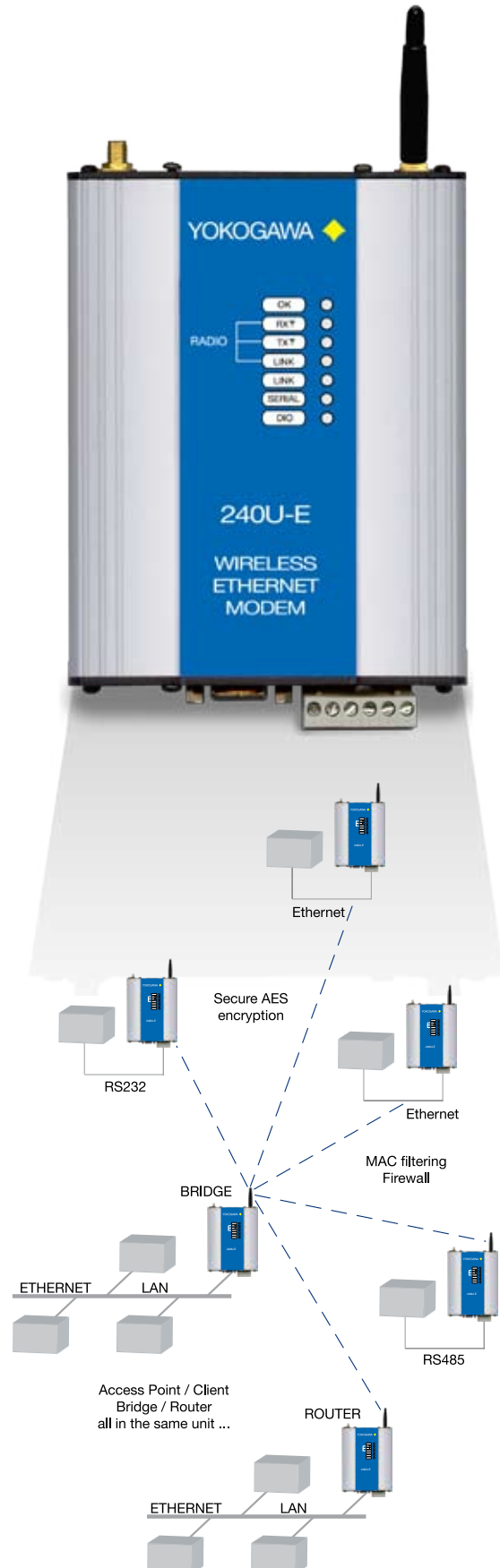
Industrial strength for industrial applications

The 240U-E has been designed and built for demanding industrial applications

- **Reliable data transfer** in congested industrial environments - high RF power and receiver sensitivity
- **Industrial ratings**, -35 degC to 60 degC, humidity to 99% - designed for demanding applications
- **Secure data transfer**, military grade 128-bit AES encryption, plus commercial grade WEP encryption
- **Firewall protection** via message filtering at MAC and/or IP address level
- **Easy to use** configuration and powerful diagnostics via web-browser
- **Remote configuration** and diagnostics via the wireless link

Long & short range applications

- **High RF output** (100 or 300 mW) and superior receiver sensitivity gives excellent penetration in congested industrial environments, through buildings, factory walls and steelwork.
- **Repeater functionality** increases wireless range even further



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 to 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 multi-point.

Discrete I/O

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 multi-point, user configurable
addressing, Repeater functionality, Address Filtering - whitelist
or blacklist - MAC and/or IP.

Wireless

2.400 – 2.484GHz Direct Sequence Spread Spectrum (DSSS),
13 selectable zones
802.11b compliant, auto rate selection 1-11Mb/s
Transmit power 100mW (20dBm) / 300mW (25dBm)
Receiver sensitivity < 8% FER -96dBm @ 1Mb/s
-91dBm @ 11Mb/s
Line-of-sight range 3 miles / 5km @ 300mW (America)
Range may be extended using repeater features
Dual SMA coaxial antenna connectors for antenna diversity

Security

Security encryption 40 and 104 bit WEP; plus WPA1 (TKIP) and
WPA2 (128/bit AES)
MAC/IP Address filtering Password protected configuration

On-line Configuration and Diagnostics

HTTP with remote configuration via wireless link
Web based system management - RF signal strength,
Bit Error Rate, connection monitoring and statistics
PPP Protocol Access to diagnostics
Firmware upgradeable via serial port

General

Temperature -30 to 140 degF / -35 to 60 degC
Humidity 99% non-condensing
Power Supply 9 – 30VDC
Current average 240mA (12VDC), 150mA (24VDC)
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 < 1 lb / 0.5 kg
Indicators: Power/OK, Radio Rx and Tx, Radio Link, LAN Link/
Activity, Serial Activity, Digital I/O
Approvals FCC Part 15.247, CE ETS 300 328, RSS 210
Hazardous area CSA Class 1 Div 2, IEC 60950 (pending)

vigilantplant.[®]

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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