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

**Lifetime Warranty & first-class technical support**

ELPRO’s industry-first **Lifetime Warranty** with 24 hour telephone technical support means you can use the 240U-E with confidence.
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 1km @ 100mW (Europe) 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 (128bit 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).

**Ordering Details**
240U-E-100 100mW RF Power
240U-E-300 300mW RF Power