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ELPRO 415U-E-CX Long Range Wireless Ethernet Modem

PRODUCT INFORMATION

WARNING – EXPLOSION HAZARD

Do not disconnect the device while the circuit is live] unless the area is known to be non-hazardous.

NOTE

All connections must be SELV <50 Vac and <60Vdc.

Models

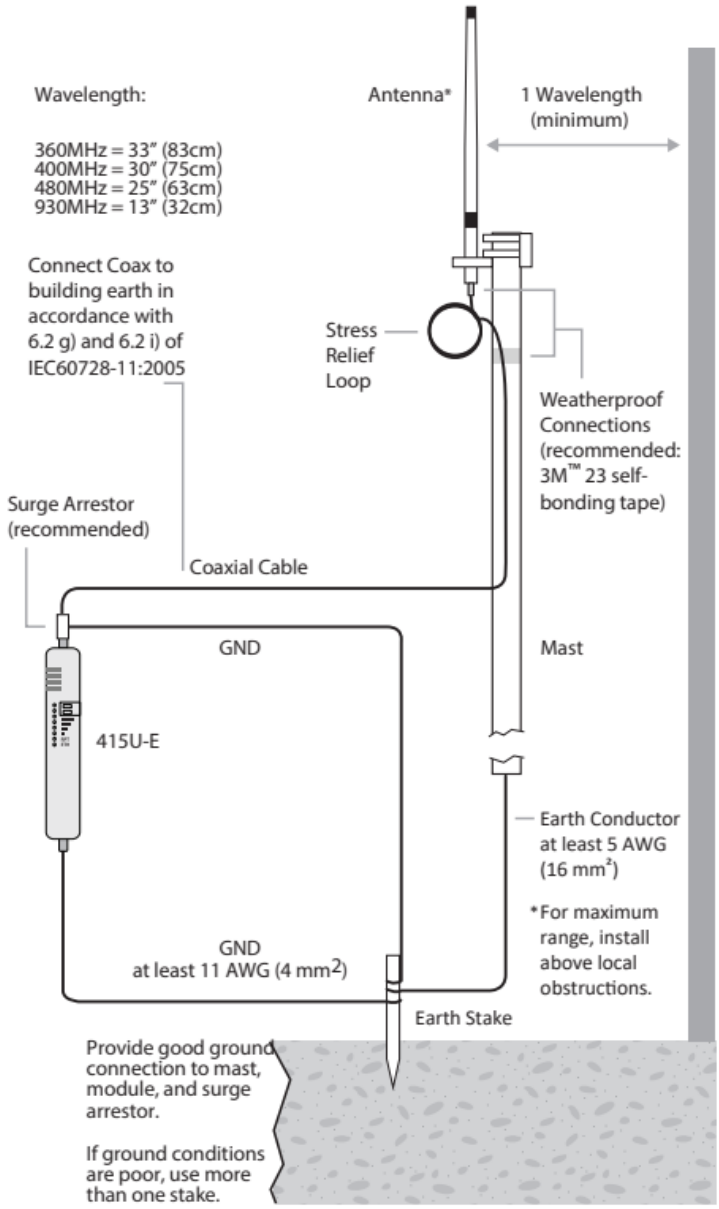
- 415U-E-C1 – 148 to 174MHz
- 415U-E-C3 – 360 to 400MHz
- 415U-E-C4 – 400 to 480MHz

- 415U-E-C5 – 470 to 520MHz
- 415U-E-C9 – 928 to 960MHz

Antenna installation

When selecting an antenna, consider radio proximity. Use Figure 1 as a guide for installing an antenna and attaching it to the 415U-E-Cx.

Figure 1. Antenna installation



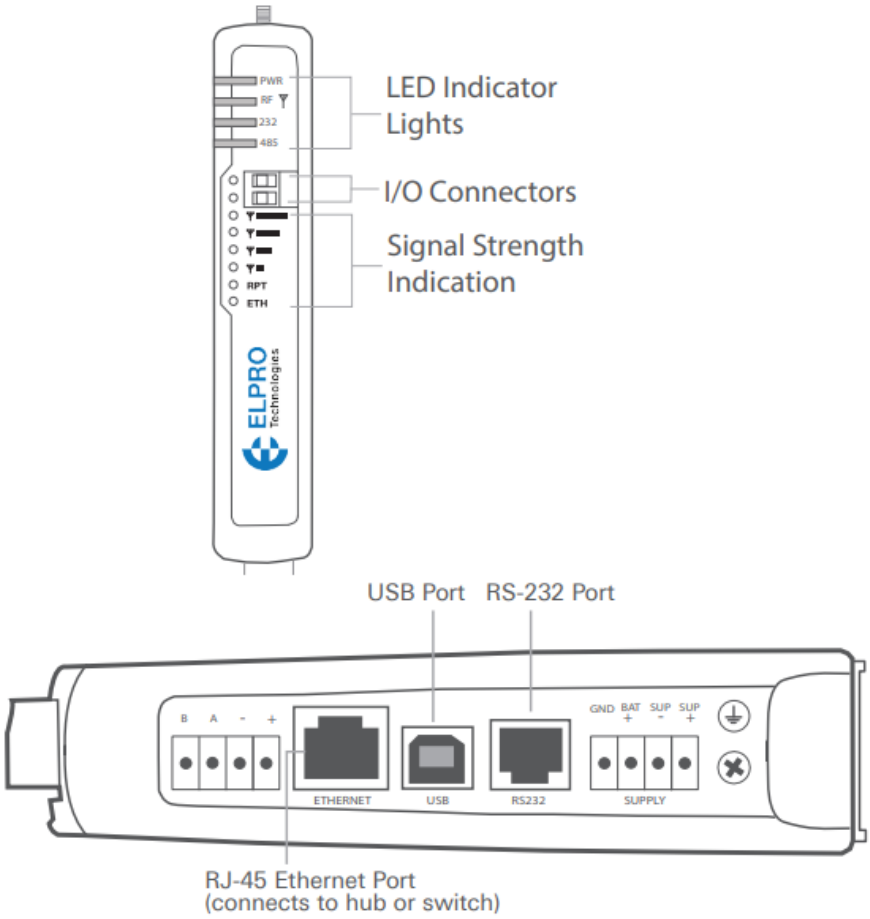
Connecting

Connecting to the module for configuration

- Download and install the configuration utility software, available from the Elpro Technolgies website. www.elprotech.com

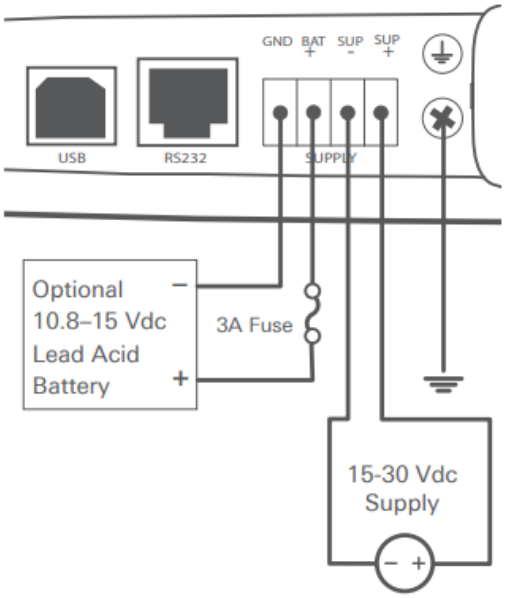
- Connect to PC using the supplied USB cable.
- Connect to the device by selecting USB connection and using the IP address 192.168.111.1 or 1.1.1.1 for older firmware (pre V2.28)
- The PC will automatically be assigned an IP address from the module via DHCP. A new network adaptor will be created using IP address 192.168.1.2 (or 1.1.1.2)
    - **Username**: user
    - **Password:** user

The following illustrations show the port connections on the 415U-E-Cx.



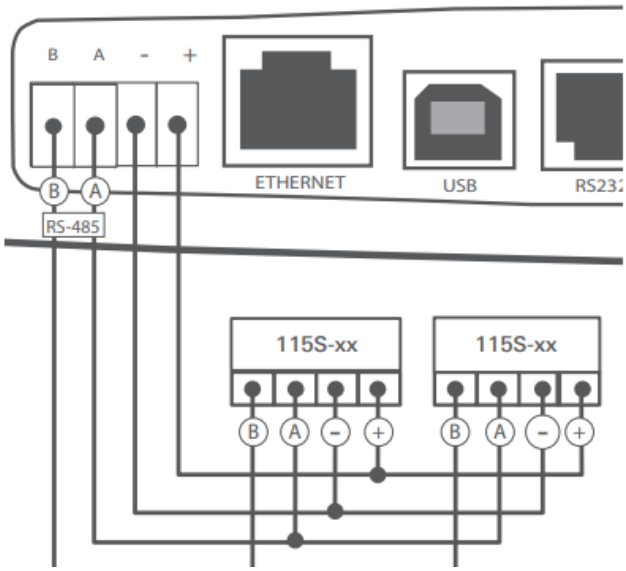
Power Supply Wiring

The ground (GND) and “SUP –“ terminals are connected internally to the ground (Earth) terminal. Connect the screw terminal on the end plate to ground (Earth) for surge protection.



Expansion I/O Power and RS485 serial connection

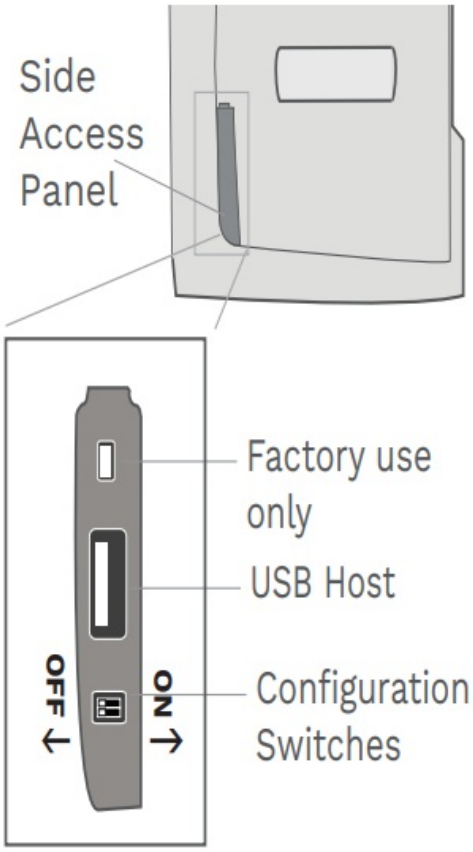
An on-board RS-485 terminating resistor provides line termination for long runs. Only enable the terminating resistor on the last device connected to the RS-485 cable.



INSTALL GUIDE

Configuration Switches

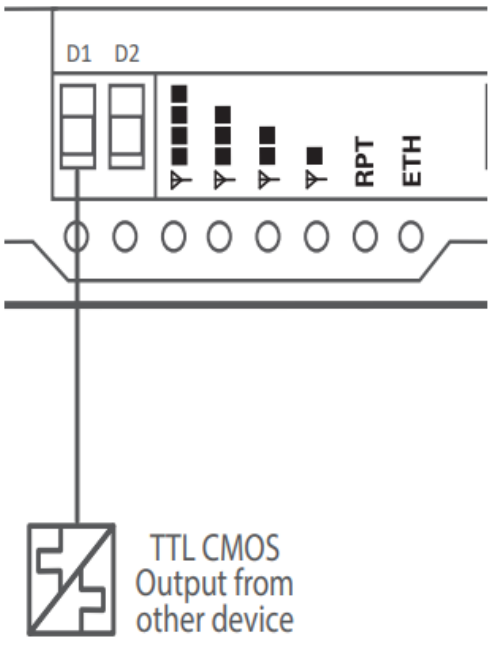
Use the DIP switches in the side access panel to select analog input voltage or current, and to enable default configuration.



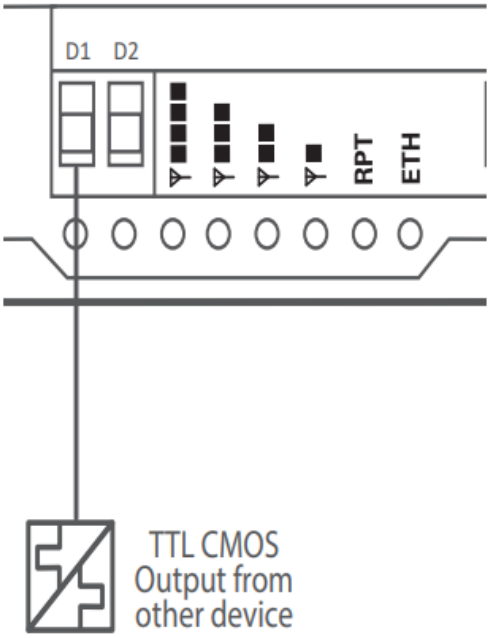
Input and Output connections

The digital input/output channels can be wired as inputs or outputs.

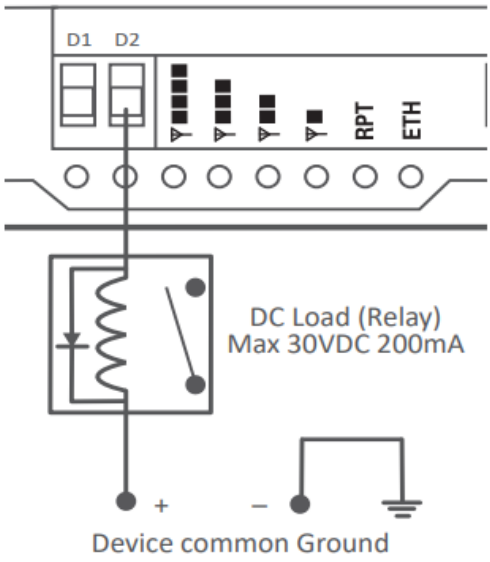
High speed pulsed input



Digital Input



Digital Output



MORE INFORMATION

HOW TO ORDER

- Simply send us an email at
- sales@elprotech.com, contact your local
- distributor, or phone +61 7 3352 8600

CONTACT

- **Australia**

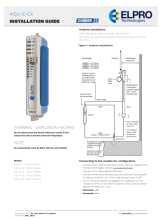
- ELPRO Technologies 29 Lathe Street
- Virginia QLD 4014
- T +61 7 3352 8600
- E sales@elprotech.com
- W elprotech.com

- **USA**
  - ELPRO Technologies Inc
  - 2028 East Ben White Boulevard #240-5656 Austin, TX 78741-6931
  - T +1 855 443 5776
  - E sales@elprotech.com
  - W elprotech.com

FAQs

- **Q: Can I use a different antenna with the 415U-E-CX?**
  - A: It is recommended to choose an antenna based on the specified frequencies and lengths mentioned in the manual for optimal performance and safety.
- **Q: What should I do if I encounter interference after installation?**
  - A: Check the connections, ensure proper grounding, and consider adjusting the antenna orientation to minimize interference.
- **Q: Is it necessary to use a surge arrestor?**
  - A: While it is recommended for added protection, using a surge arrestor can help safeguard the equipment from electrical surges.

Documents / Resources

	ELPRO 415U-E-CX Long Range Wireless Ethernet Modem [pdf] Installation Guide 415U-E-CX Long Range Wireless Ethernet Modem, 415U-E-CX, Long Range Wireless Ethernet Modem, Wireless Ethernet Modem, Ethernet Modem

References

- User Manual

ELPRO

415U-E-Cx, 415U-E-CX Long Range Wireless Ethernet Modem, ELPRO, Ethernet Modem, Long Range Wireless Ethernet Modem, Wireless Ethernet Modem

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