❦ Manuals+

☰

Contents [hide]

ELPRO 645M-4 Cellular and WiFi IIoT Router

Overview

LAN port for configuration and data

WAN Connection, can be used as a secondary LAN port

RESET press for 1 sec to Reset, 3 Sec to Factory default. Default IP Address 192.168.1.1

WiFi antenna Connections

Cell antenna Connections

Primary Cell

Secondary Cell

Secondary WiFi

Primary WiFi

ELPRO Technologies

Secure Industrial Communications

LAN
WAN
WIFI
CELLULAR
SIGNAL
VPN
SYS

645M-4
Cellular & WiFi IIoT Router

Reset / Factory Default

Press for 1 sec to Reset.
Press for 3 sec to Factory default

Digital Inputs

Input #1
Input #2
Input #3
Input #4

Voltage Free Contact

Digital Outputs

Output #1
Output #2
Output #3
Output #4

0-3.3VDC O/P
Note: Not suitable for relay Load

Supply

5-40 VDC into terminals or the 3.5mm DC socket Surge Ground on Negative supply connection

Serial - DTE (PC)

DTE Device DB9 Male

Back of Connector

Serial - DCE (Modem)

DCE Device DB9 Female

Back of Connector
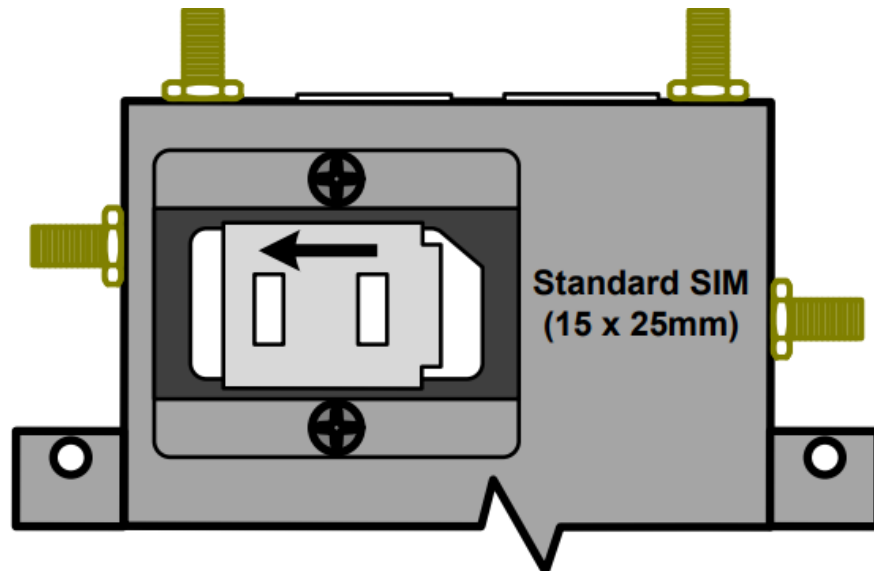
Sim Card Slot
(Back of Modem)

Standard SIM size
(15 x 25mm)

Setting the basic connection and APN

1. • Remove the two screws from the small plate on the back of the modem to access the SIM card holder.
   • Slide the silver plate to the left to open the SIM holder.

- Insert the SIM card into the tray, close and lock firmly by sliding back to the right.

2. Before switching on the modem, please ensure the antennas are securely connected and connect the 5-40 VDC power supply to the VCC & GND terminals
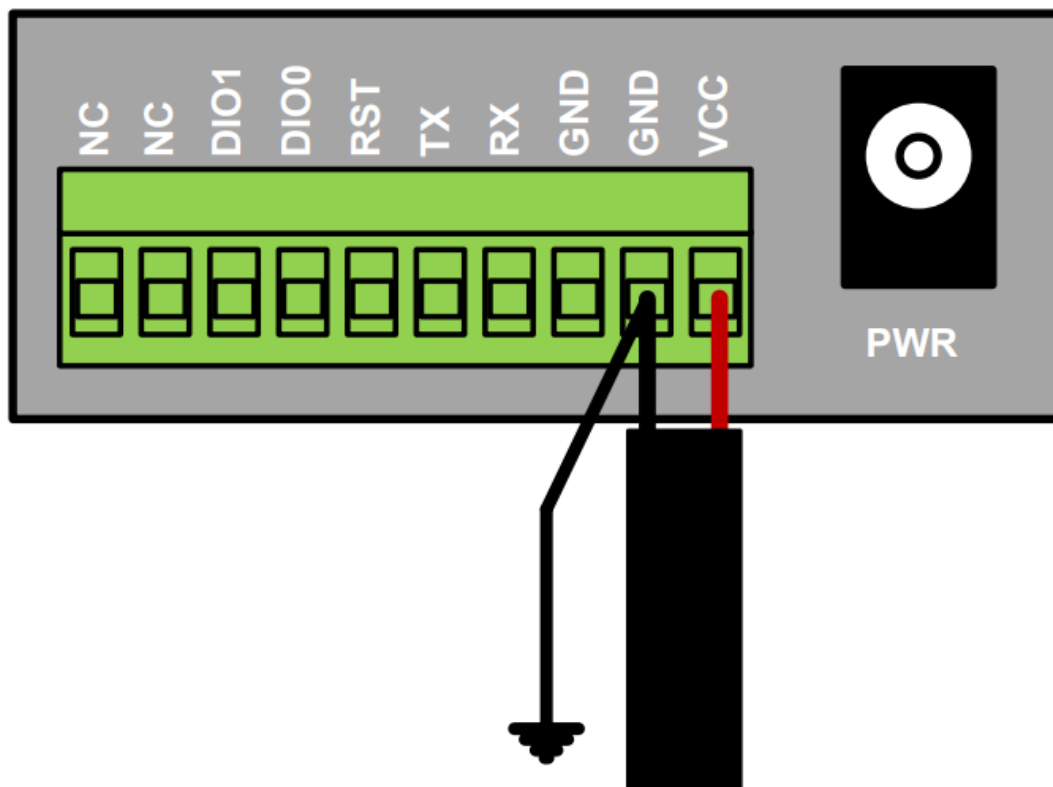
3. Connect the Modems LAN port to a PC via an RJ45 Ethernet cable. Set the PC to obtain an IP address automatically from the modem router. The PC will get an IP address in the range of 192.168.1.XXX.
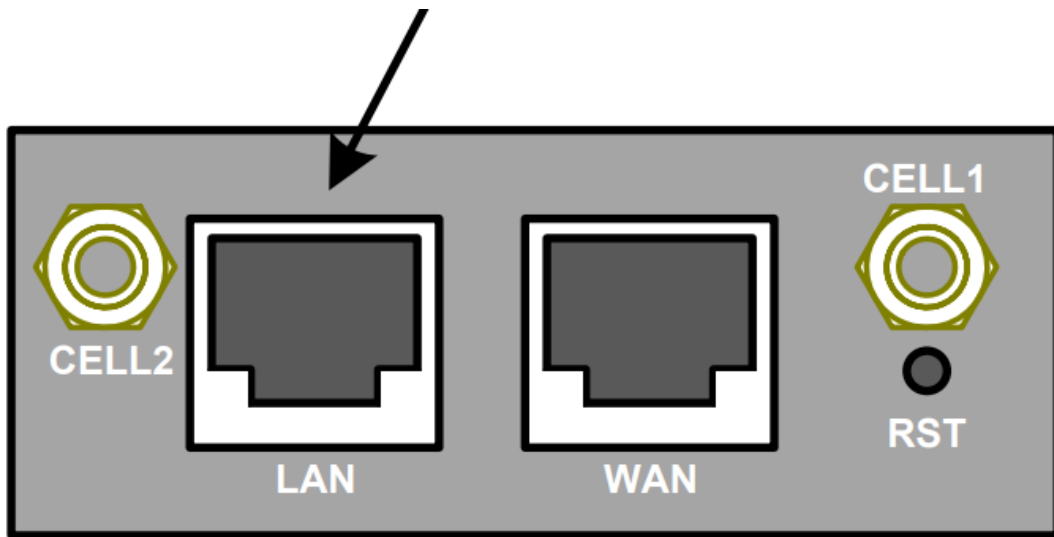
4. Open the Web browser and type in 192.168.1.1 into the Address bar. A Login window will appear, enter the login details as: Username = admin and Password = admin
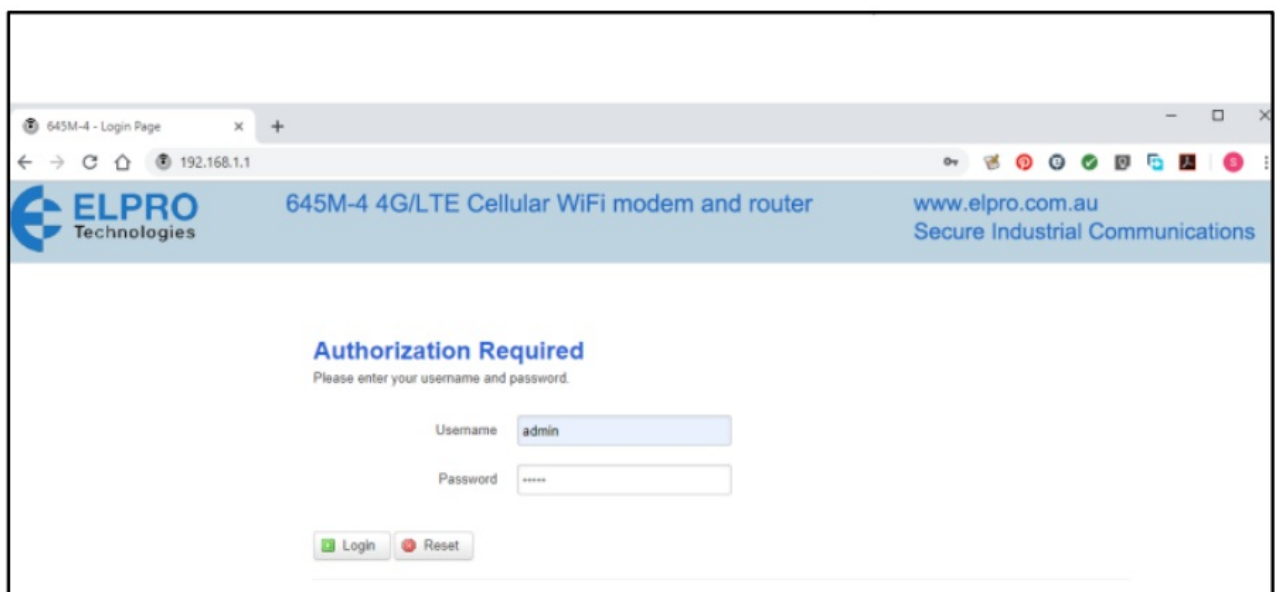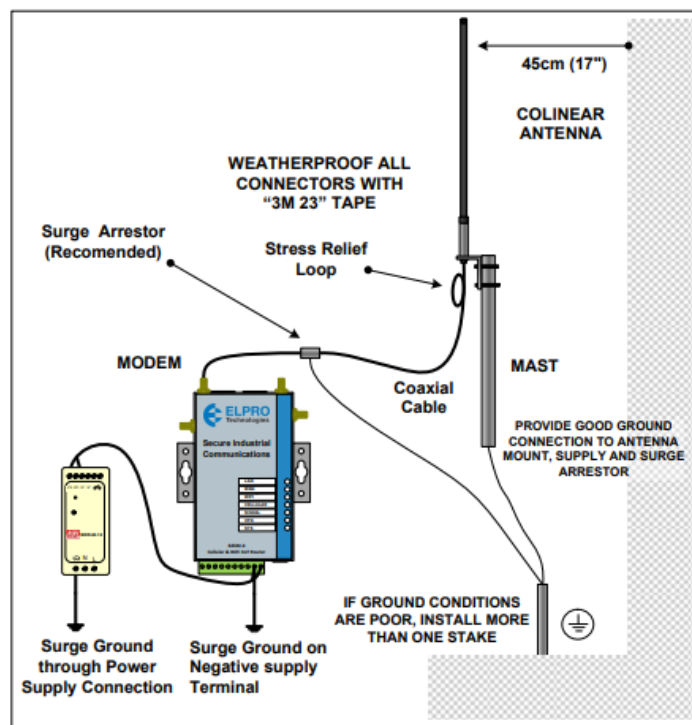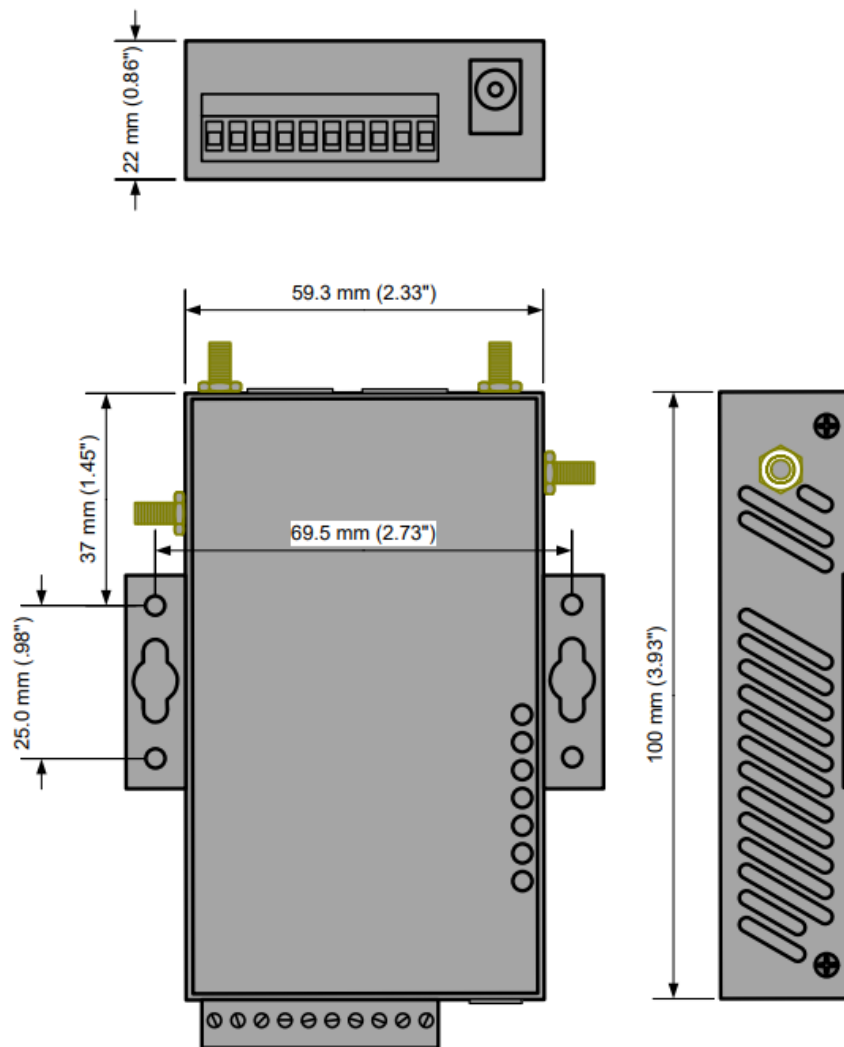

5. From first connection after a factory default (Out of the Box) you will see a Setup Wizard . Fill in the details on each tab and then press the "Finish" button to complete.
    - First Tab is the Passwords, Time zone, Modem Name and Language.
    - Second Tab is the Mobile connection settings, enter the APN that your provider has said to use with your SIM card, i.e "telstra.extranet, "m2mone.com.au", etc.
    - Third Tab is the LAN IP address you wish to use.
    - Forth Tab is WiFi, if it is not used then deselect otherwise fill out the appropriate settings and then press "Finish"
6. When all Settings are configured navigate back to: Status > Overview page and the Cellular Status should show "Up"

Mobile 1

Cellular Status	<mark>Up</mark>
IP Address	123.209.121.70/255.255.255.252
DNS 1	10.4.58.204
DNS 2	10.4.130.164
Cell Modem	QUECTEL_EC21 (2C7C_0121)
IMEI/ESN	864292040486043
Sim Status	SIM Ready
Strength	18 / 31, dBm : -81

Dimensions

22 mm (0.86")

59.3 mm (2.33")

37 mm (1.45")

69.5 mm (2.73")

25.0 mm (.98")

100 mm (3.93")

45cm (17")

COLINEAR ANTENNA

WEATHERPROOF ALL CONNECTORS WITH "3M 23" TAPE

Surge Arrestor (Recomended)

Stress Relief Loop

MODEM

Coaxial Cable

MAST

PROVIDE GOOD GROUND CONNECTION TO ANTENNA MOUNT, SUPPLY AND SURGE ARRESTOR

ELPRO Technologies

Secure Industrial Communications

IF GROUND CONDITIONS ARE POOR, INSTALL MORE THAN ONE STAKE

Surge Ground through Power Supply Connection

Surge Ground on Negative supply Terminal

NOTES

- ALL connections must be SELV (Safety Extra Low Voltage <50V AC & <120V DC)

- WARNING – Explosion Hazard – Do not Disconnect equipment while the circuit is live or unless the area is known to be free of ignitable concentrations.
- "GND" terminal must be connected to EARTH / GROUND as close as practical to the unit.
- To comply with FCC RF Exposure requirements in section 1.1310 of the FCC Rules, antennas used with this device must be installed to provide a separation distance of at least 45 cm (17 inches) from all persons.

Frequently Asked Questions

- **Q: What is the default IP address for accessing the router's configuration?**

  A: The default IP address is 192.168.1.1
- **Q: How do I reset the router to its factory default settings?**

  A: Press the reset button for 3 seconds to restore the router to factory default settings.
- **Q: Can I use the LAN port as a secondary LAN connection?**

  A: Yes, the LAN port can be used as a secondary LAN connection if needed.

Documents / Resources

	[ELPRO 645M-4 Cellular and WiFi IIoT Router](#) [pdf] Installation Guide 645M-4, 645M-4 Cellular and WiFi IIoT Router, 645M-4, Cellular and WiFi IIoT Router, WiFi IIoT Router, Router

References

- [User Manual](#)

🏷 645M-4, 645M-4 Cellular and WiFi IIoT Router, Cellular and WiFi IIoT Router, ELPRO, router, WiFi IIoT
📁 ELPRO   Router

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

| e.g. whirlpool wrf535swhz | **Search** |