

LTE Router in A box 15

Quick Manual



Introduction

The LTE router is used to enable a connecting device (e.g. Elvaco's CMe3100 M-Bus Metering Gateway) to transmit data over the mobile network. It is mounted and connected in a protecting enclosure and ready to use at delivery. For more information about our available solution setups, please visit the Elvaco website.

Installation

To maintain the product's protection class, avoid drilling new holes in the enclosure and ensure the use of cable glands.

Power supply

The installation should be handled by a qualified electrician or an installer with the required knowledge.

The box is equipped with a breaker. Use a screwdriver to remove an arbitrary M20 knock-out from the bottom of the enclosure and connect a power cable from mains to the wall socket. The included cable gland is used to fixate the cable in the box.

SIM card

The LTE router requires a SIM card to access the mobile network.

For all Elvaco services customers, a preinstalled SIM card is included in the product. Information about the SIM card identity and its phone number can be found on the printed label, packed inside the box.

To insert a SIM card:

1. Remove the router from DIN rail in box
2. Unscrew two back panel hex bolts and remove the back panel
3. Insert SIM card into the SIM socket
4. Attach panel and tighten the hex bolts
5. Attach the mobile antenna (max torque 0.4 Nm)

Antenna

An antenna for mobile networks is included with the LTE router. Attach the antenna to the SMA connector on the router and ensure that the antenna is not placed inside any metallic objects or close to any other objects interfering with the signal reception.

Network

A network cable is used to connect the LTE router to the device that will access the mobile network. To begin, use a screwdriver to remove any M20 knockout from the bottom of the enclosure. Once the knockout is removed, connect one end of the network cable to the port of the LTE router and the other end to the intended device.

If the LTE router is being used with an Elvaco CGc-Box, the network cable should instead be connected to the CMe3100 Ethernet connector. Finally, to ensure a secure installation, use the included cable gland to fix the cable in place in the enclosure.

Getting started

The settings of the LTE router can be configured via its web interface.

Log in via web interface

By logging in on the router web interface.

1. Power on the device and connect the USB cable between your router and computer
2. Allow the gateway to boot up. This can take up to 30 seconds
3. Your computer's OS should detect the USB device and install the driver
4. To enter the gateway's web interface, type the IP address 192.168.2.1 in your web browser
5. Log in using the credentials located on the device information label/engraving.
6. After logging in, pay attention to the signal strength

Change settings

The LTE router needs to be configured manually through the router web interface.

Change the APN

Go to

Network > Wan > Press the edit button (pen).

1. Type in the APN you want to use
2. Press Save & Apply.

Lock the IP address

By using static IP address settings, a fixed IP address will be used for a connecting device, for example an M-Bus Gateway. To use static IP address setting, go to

Network > DHCP > Static leases

1. Select a hostname
2. Type the MAC address and a desired IP address for the connecting device

3. Press **Add** and then **Save**.

Change password

To change the password used to log in on the LTE router web interface, go to

System > Administration > User settings

1. Type in the new password
2. **Confirm** and press **Save**.

Set a port forwarding rule

In the LTE router web interface, your own port forwarding rules can be defined. Go to

Network > Firewall > Port Forwarding.

1. Find the New Port Forward Rule section
2. Select a name for the rule and choose "TCP" as protocol.

The selected external port will be used by the LTE router to connect to the WAN network and the selected internal port will be used by the external device to connect to the router

Note

When connecting a metering gateway to the LTE router, port 80 is normally used as internal port.

1. Type the IP address of the connecting device.
2. Press **Add** and then **Save**.

TECHNICAL SPECIFICATIONS

Mechanics

Casing material	Polycarbonate
Dimensions (w x h x d)	254 x 111 x 180 mm
Protection class	IP66
Mounting	Wall-mount

Electrical connections

Supply voltage	Mains supply
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Electrical characteristics

Nominal voltage	100-240 VAC (+/- 10%)
Frequency	50/60 Hz

Electrical characteristics

Usage environment	Indoor or outdoor
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