



Gateway Quick Installation Overview

Setup Tips

- Don't place EPMs or the Gateway in areas with an abundance of metal (chain link fence, stucco rooms, etc).
- Check signal strength before finalizing installation location.
- Ensure Gateway is installed and online before beginning installation of EPM.
- Ensure that the account is created and properly configured before beginning installation.

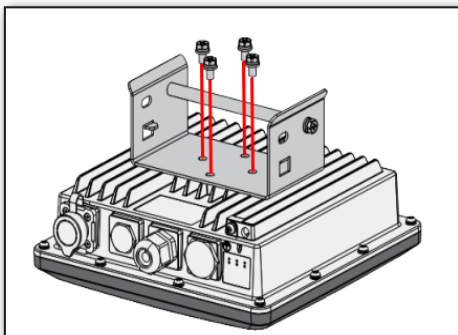
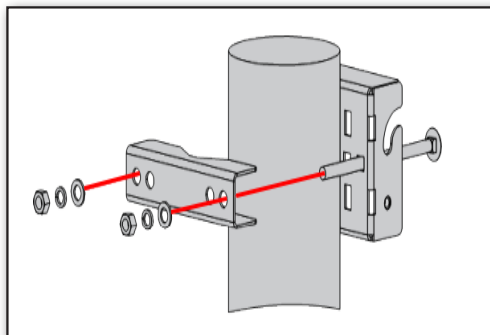
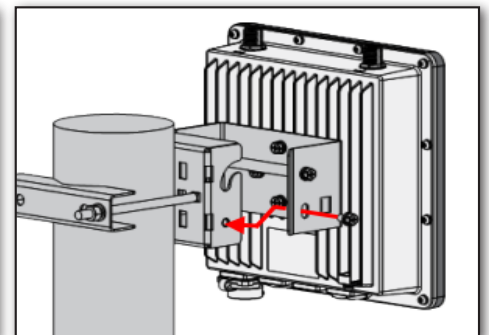
Installation Tips

- Don't wire power through the Dry Contact Relay.
- Use weatherproofing for all outdoor connections. Use silicone sealant to weatherproof antenna connections.
- Connect the external antenna before powering up the device.
- Power cycle the device if you encounter push errors during setup.
- Pay attention to modulation issues. Overmodulation occurs when an EPM and Gateway are installed too close to each other. Undermodulation occurs when an EPM and Gateway are installed too far from each other. See OmniPoint Essentials pamphlet.
- Use the app's test mode to verify all functions before completing installation.
- Verify consistent and stable signal (at least 2 blinks in test mode).

Mount and Secure Kit

To mount and secure the kit to the enclosure and pole, follow the images below.

See full Gateway Installation Guide for details.



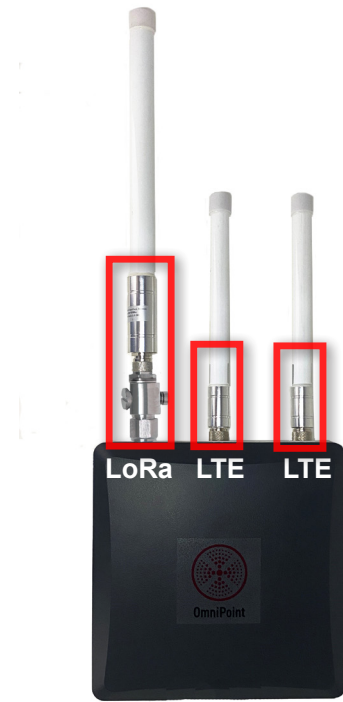
Attach Antennas

Mount and secure the kit to the enclosure and pole.

For the Ethernet device, the only antenna needed is the main LoRa antenna. For the cellular device, you must attach two LTE antennas in addition to the LoRa antenna.

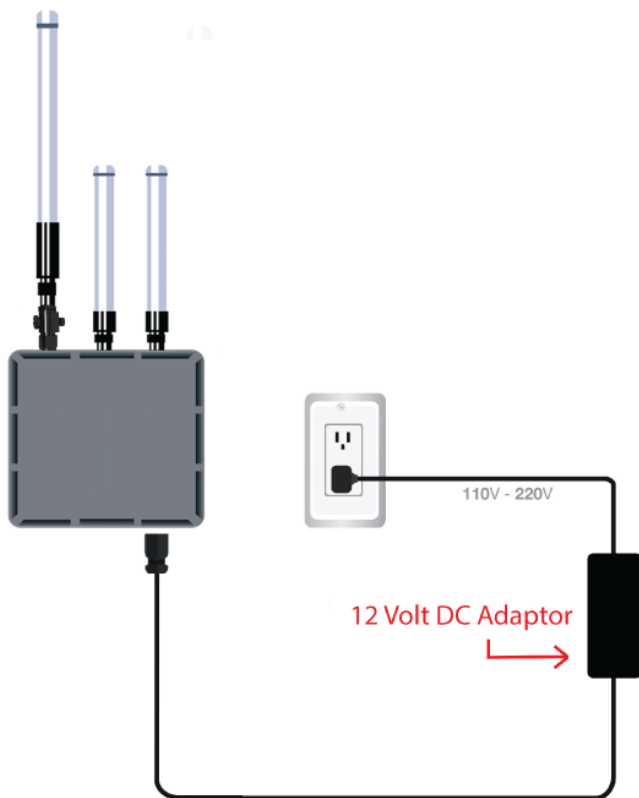


All antennas must be connected to the Gateway before powering up.

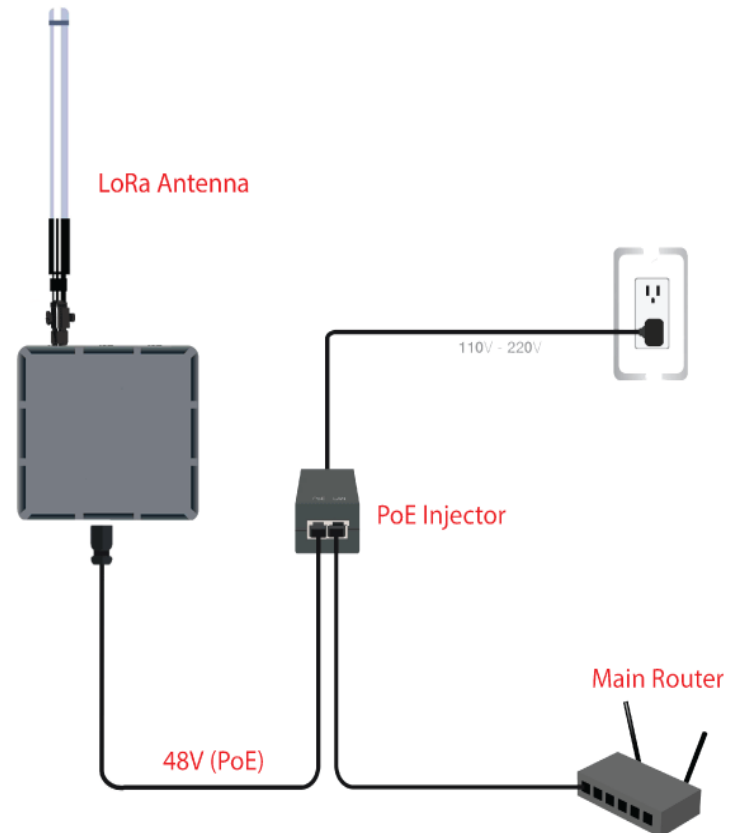


Powering Up the Device

Cellular Installation



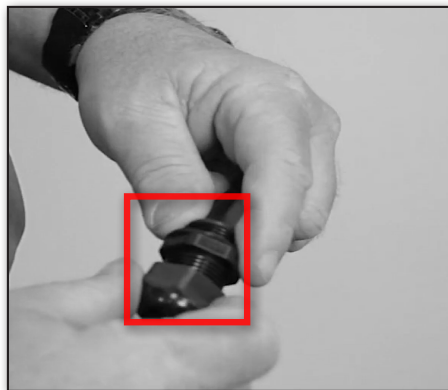
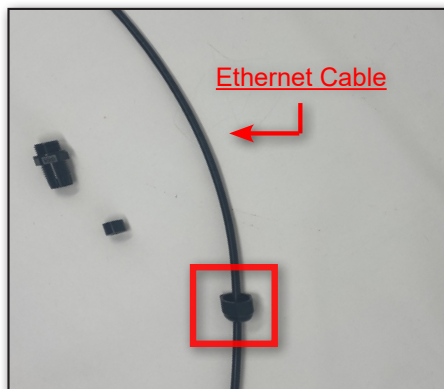
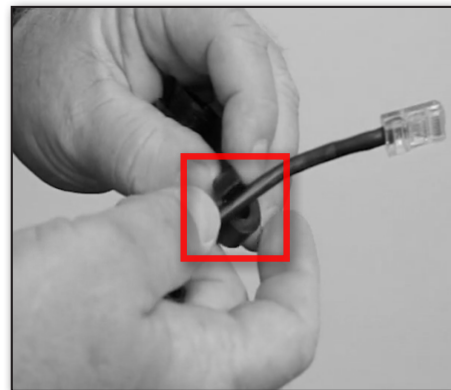
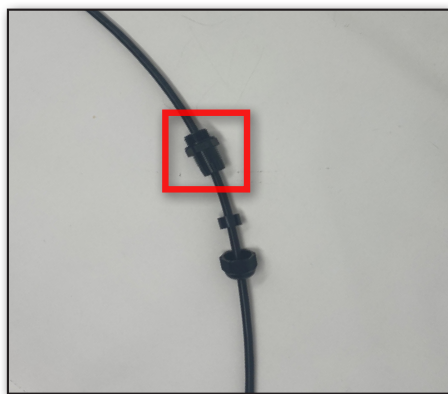
Ethernet Installation



Keep in mind polarity is important, and make sure to wire the positive **(RED) +** wire to the **Positive +** terminal on the power supply. Wire the negative **(BLACK) -** to the **Negative -** terminal on the power supply.

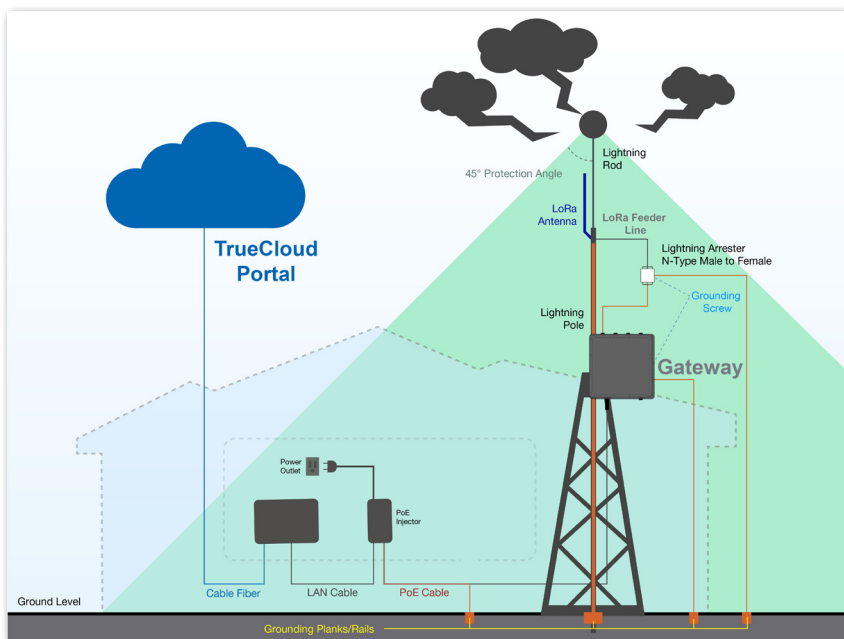
Ethernet Installation: Cable

Follow the images below to make the Ethernet cable fit into the cable gland so it can be held in place on the bottom of the Gateway. See the full Installation Guide for details.



Device Protection

Indoor and outdoor systems require lightning surge protection. See image below:



Use 10 AWG or greater grounding wire to connect the arrester to the tower-mounted LoRa antenna. The arresters must be Female to Male to fit the antenna and housing connectors. Use a 10 AWG or greater wire to connect the arresters' terminals to the grounding plank/rail on the building.

We recommend using a separate 10 AWG or greater grounding wire to connect the screw terminal (on the bottom right of Gateway casing) to the grounding rail or bar.

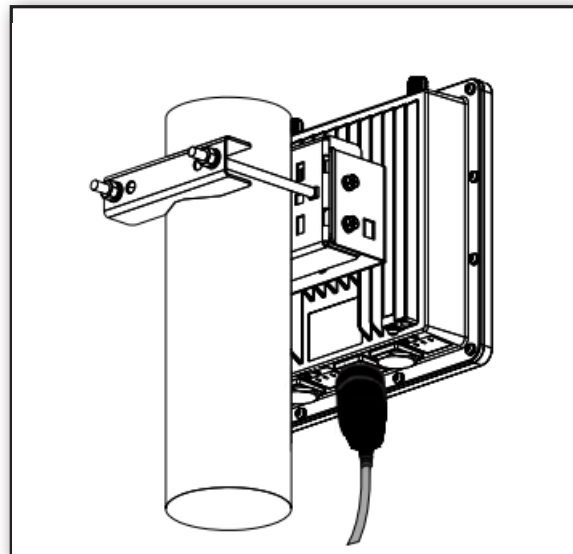
Weather Protection

Devices may be network-connected (via internet) or cellular-connected. For VPN device, protect the Ethernet cable with the provided rubber tape. **DO NOT use regular electrical tape.**

Clean the surface area of the connector that will be wrapped. Wrap a layer of the provided rubber tape with a 50% overlap according to the rotation direction of the connector. Continue wrapping the rubber tape to about 10 mm below the end of the connector.

Cut off about 50 cm of waterproof tape. Stretch it to double the length. Wrap three layers around the connector with a 50% overlap. Hold the tape in place with your hand for a few seconds.

Wrap three additional layers with rubber tape with natural uncoiling force and a 50% overlap. Make sure to cover the head and the tail of the connector.



Gateway Status

To use the OmniPoint successfully, verify the Gateway is online.



Do not power on the Gateway until the antenna has been installed.

When you log in, you can see whether the Gateway is online or offline.



CellGate Support: (972) 231-1999, Option 2