

# BL-ER-C Ethernet Radio Unit (Gateway/Repeater) Installation Guide

## Choosing a Location for the Gateway Radio Enclosure

The location of the Ethernet radio unit has a significant impact on its performance. In practice, the radio unit should be placed away from computers, telephones, answering machines, and other similar equipment. The location for the Gateway radio enclosure must have the following attributes:

- Proximity and access to a live Ethernet jack
- Access to electrical power
- A solid object on which to mount the enclosure
- Out of direct sunlight

## Materials and Tools

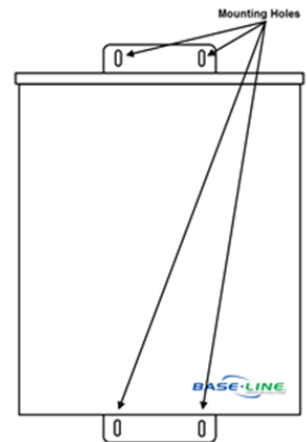
- Hardware (wall anchors, screws, etc.) for mounting the enclosure to the wall
- Tools as needed for wall mounting hardware (drill, screwdriver, pliers, marker, tape measure, level, etc.)
- Electrical power connection hardware (½" conduit, wire, wire nuts, etc.) and tools as needed.

## Mount the Enclosure

1. Drill pilot holes for the mounting screws.
2. Mount the enclosure with #10 or larger screws.

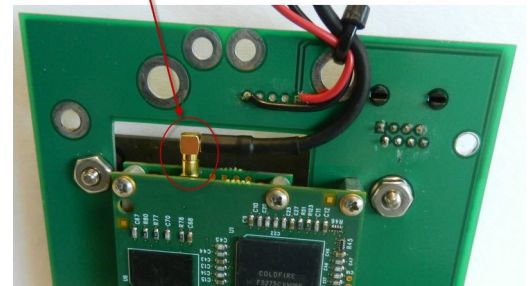
## Check the Antenna Connector on the Radio Unit

1. Open the enclosure door.
2. Locate the antenna cable where it is connected to the radio unit.
3. Verify that the connection is secure.



**IMPORTANT!** Make sure the antenna cable remains securely attached to the connector on the Ethernet radio. If the radio is powered up with a loose or disconnected antenna, damage may occur to the circuitry. **This damage is not covered by warranty.**

Antenna cable connector on the back of the Ethernet radio unit



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## Making the Electrical Connection to the Enclosure

**Note:** Baseline recommends that you consult or hire a licensed electrician for these connections.

1. Turn AC power off at the source, and verify that it is off.
2. Remove the screws from the cover of the conduit body, and then remove the cover.
3. Loosen the screw on the grounding lug and route a bare 6 AWG (4.11 mm) earth ground wire into the grounding lug, and then tighten the screw to secure the ground wire. Do not overtighten.
4. Connect the enclosure power leads to facility power.



## Installing the Antenna

If the site survey indicated that the standard antenna mounted on the top of the enclosure will work at your location, the antenna is installed at the factory. You do not have any further tasks related to installing the antenna.

If a different antenna is required, refer to the Ethernet Radio Antenna Installation Guide for instructions.