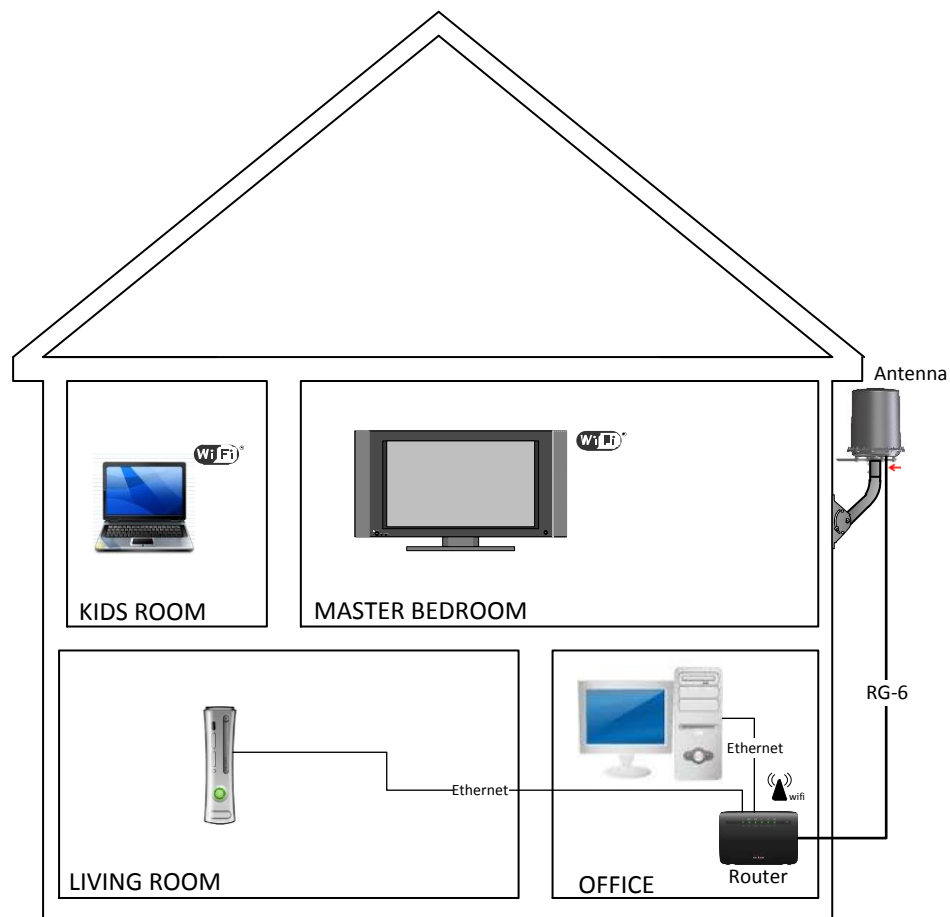


# LTE Installed Program Overview

LTE Installed is a suite of 4G based products and services that will allow customers to have access to the internet using a fixed “wireless” solution. There are two primary components that enable the service.

1. The external LTE Installed Antenna (referred to as “**Antenna**” throughout this document) is to be mounted on the residential structure.
2. The broadband Router (referred to as “**Router**” throughout this document) receives its signal from the Antenna over a single RG-6 coaxial cable. This same cable will also power the Antenna via a power inserter. The Router will function as both a broadband modem as well as a wired and wireless Router.



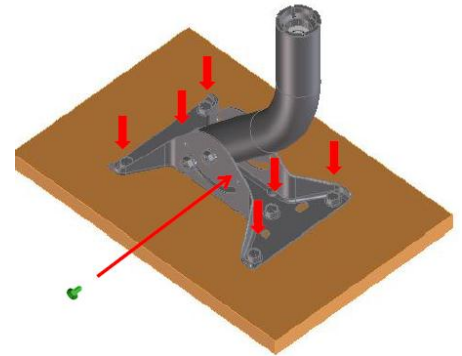
# Installation Instructions

## LTE Installed Equipment Needed for Installation

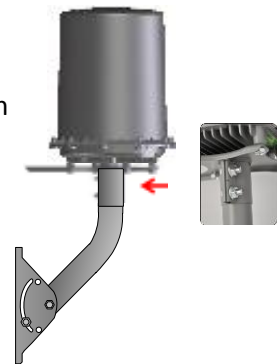
LTE Installed Antenna	LTE Installed Broadband Router
 <p>Width = 8" - Height = 10" - Weight = 4 lbs.</p>	 <p><b>Router Box also includes</b></p> <ul style="list-style-type: none"><li>• Separate Power Supply</li></ul>
Pedestal Assembly & Mounting Plate	21 VDC Power Inserter
	

## Antenna and Bracket Installation

1. Determine stud centers using tape measure and or stud finder
2. Mark bolt holes using Pedestal holes
3. Pre Drill holes into wood studs before installation of lag bolts
4. Tighten the ground screw to the pedestal base plate to securely ground the wire later
  - \* Use pitch patch or roof tar in drilled holes for roof mounts
5. Insert 4 screws through Pedestal to the wall surface
6. A bubble level is located on the top of the pedestal assemble to assist with alignment
7. Using the bubble level, level the Pedestal, tighten nuts
8. Adjust the rotation angle of bracket versus the arm axially until the bubble level on the bracket is centered
9. Fully tighten the mast screws after confirming the mast angle



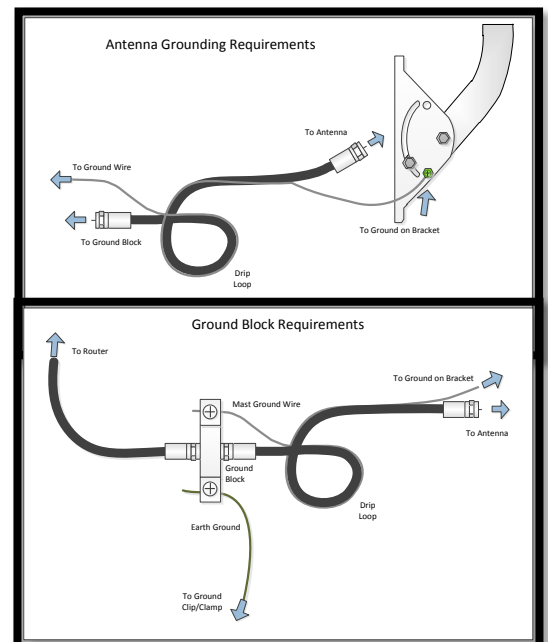
10. Remove the protective pulp and place the Antenna over the pedestal mount. Tighten the 2 screws on the mounting plate.
11. Tighten F-Connector of coaxial cable to Antenna
12. Secure Ground wire to ground screw on pedestal base plate



## Cable Routing

### Coax Cabling

- Run RG-6 cable w/17 AWG CCS attached ground wire from Antenna mounting location to ground bonding location. Use cable flex clips for all vertical and horizontal cable runs. Attach 17ga CCS ground wire to Antenna foot plate using a UL listed Green in color self-taping screw. Details on grounding can be found in section 6 of this guide.
- Mount Ground block (Ground block cannot be farther than 20ft from the ground bonding point or common house ground), Attach 17AWG CCS ground wire to ground block. Perform ground bonding – Note bonding must comply with NEC state and local codes. Attach 17AWG CCS ground wire to ground block.



## LTE Installed Broadband Router Installation

The Router will be pre-configured to operate with the LTE Installed Broadband network. Ask customer which PC / MAC they want connected and whether they want it connected via Wi-Fi or Ethernet cable.

**If Wi-Fi, Complete Steps 1-5**

**If Ethernet, Complete Steps 1-6**

- **Step 1** - Connect coax cable from Power Inserter (Signal to Home) to Router (Coaxial WAN port)
- **Step 2** - Connect coax cable from Power Inserter (Power to ODU) to Antenna power port (red). LED will initially turn red once communication is established, LED will turn green.
- **Step 3** - Connect the Power Inserter to AC Outlet
- **Step 4** - Connect the Router 12 VDC power supply to AC Outlet
- **Step 5** – Turn Router power switch to “ON” position.
- **Step 6** - Connect Router via Ethernet cable (port 1) into the Ethernet port on the computer.