

## Installation and Setup Guide

### General

The Communication Module uses an internal multi band cellular antenna. In most cases, this antenna will provide sufficient quality of signal (QOS) for a successful installation.

The Honeywell Home Indoor/Outdoor Fixed Length Antenna should be used in installations where moving the antenna to a higher point will provide a better quality of signal.

### Installation Note:

For the best QOS, maintain at least 12 inches of clearance between the communication module and steel I-beams, HVAC ducts, metal studs, steel roofs, exterior walls with metalized insulation or aluminum siding and other large metal objects.

### Kit Includes:

- Multi band cellular antenna with double sided adhesive
- Integrated coax cable with SMA connector
- Antenna mounting hardware pack: 2 cable clamps with screws and anchors

### Compatible Modules:

LTE-X series, LTE-L57 series, LTE-L3 series, GSMX4G, GSMVLP4G, 3GL, CDMA-X, CDMA-L3, CDMA-L57

### Antenna Installation – General Steps

First, do the following:

1. Find a suitable location for mounting the external antenna.
2. Measure and record the communication module signal strength using the internal antenna for reference.
3. Disconnect all power from the unit, including the battery
4. When installation is complete, reconnect the battery and restore power, then re-measure the module signal strength to ensure adequate signal. If needed, adjust the location of the antenna as needed.
5. Permanently mount the antenna using the included hardware.

### Using with LTE-L57 Series Communicator

1. Remove the module from the LYNX Touch control.
2. Disconnect Internal Antenna, J501 from the module using the cable removal tool.
3. Connect the U.FL to SMA adapter cable to the module.
4. Use a tie wrap to secure the adapter cable to the module.

### Signal Strength

For reliable service, communication module should be installed only in locations where there is satisfactory signal strength. For LYNX Touch communicators, see Comm. Diagnostics/Cellular Information screen display. For other communicators, the signal strength LED (green) lights steady to indicate satisfactory signal strength. The signal strength value measured in dBm can be viewed on the 7720P Programming Tool\*, by using the *shift* <E> command.

\* 7720P not applicable to LTE-L57 series or CDMA-L57.



dBm is displayed as a negative value on the 7720P. A value closer to 0 represents a stronger signal. i.e., Signal strength of -60 dBm is stronger than that of -100 dBm.

### Antenna Installation Guidelines

The antenna is waterproof, and can be installed indoors or outdoors. The antenna should be mounted on a glass, plastic, drywall, masonry or wood surface, while maintaining 12 inches of clearance from large metal objects. Do not install on a metal surface.

- The best signal strength can usually be found on an exterior wall at the highest point in the building. Avoid the basement.
- Maintain at least 12 inches of clearance between the module and steel I-beams, HVAC ducts, metal studs, steel roofs or roofs, exterior walls with metalized insulation or aluminum siding and other large metal objects.

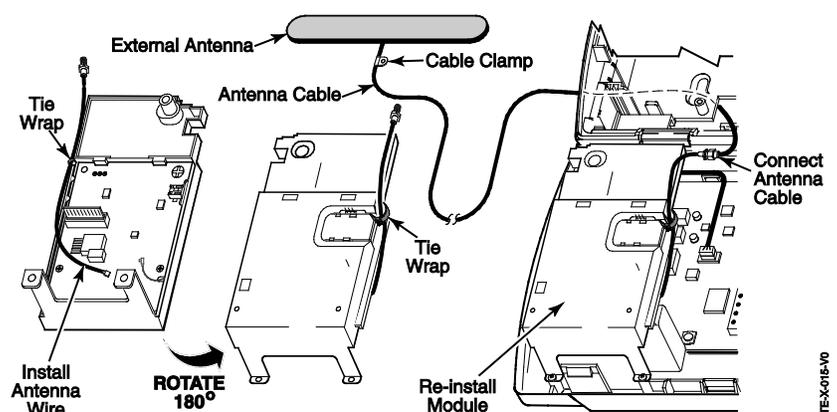
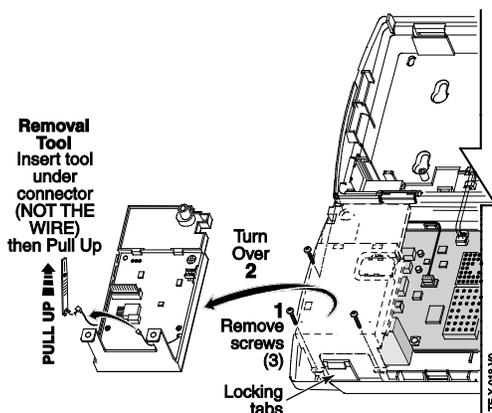
If consistent signal strength cannot be found with the internal antenna, an external antenna should be used.

5. Reinstall the module in the Lynx Touch Control.

6. Route the external antenna cable through the control's back case and connect to the adapter cable SMA connector.

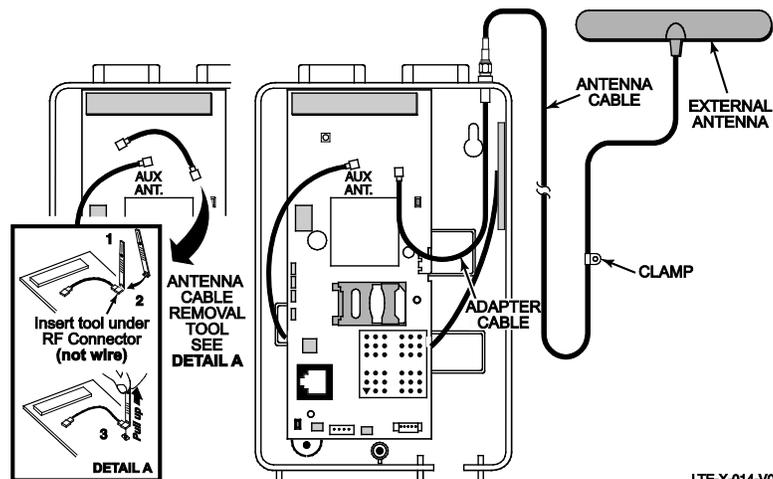
7. Close the control's case.

8. Mount the external antenna to a suitable surface using the included hardware.



## Using with LTE-X Series Communicators

1. Disconnect Internal Antenna, J501.
2. Connect U.FL to SMA adapter cable to the module.
3. Remove plastic plug from the SMA mounting hole on top of the module housing, and insert the SMA end of the adapter cable. Secure the SMA connector with the included washer and nut.
4. Connect the external antenna cable to the SMA connector.
5. Mount external antenna to a suitable surface using the included hardware.



LTE-X-014-V0

## Specifications

Antenna			
Type	Multiband, dipole	VSWR	<2:1
Bands	700, 850, 900, 1800, 1900, & 2100 MHz	Dimensions / Weight	106 x 15 x 6.7mm / 40g
Polarization	Linear	Cover	PVC black
Gain (Peak)	1dBi	Cable Type / Length	RG-174 / 3m
Impedance	50 Ohms	Environmental	Waterproof IP67, -40°C to +85°C
Input Power (Max.)	5W	Connector Type	SMA

### RF Exposure

**Warning** – The internal or external antenna(s) used with this product must be installed to provide a separation distance of at least 7.8 in. (20 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC and ISED multi-transmitter product procedures.

### Mise en Garde

**Exposition aux Fréquences Radio:** La/les antenne(s) utilisée(s) pour cet émetteur doit/doivent être installée(s) à une distance de séparation d'au moins 20 cm (7,8 pouces) de toute personne et ne pas être située(s) ni fonctionner parallèlement à tout autre transmetteur ou antenne, excepté en conformité avec les procédures de produit multi transmetteur FCC et ISED.

### IMPORTANT NOTE ABOUT EXTERNAL ANTENNAS

If an external cellular radio antenna is used, the antenna may be installed or replaced **ONLY** by a professional installer.

### TO THE INSTALLER

LTE-XV: The external antenna gain shall not exceed 6.94 dBi for 700 MHz, 6.00 dBi for 1700 MHz, 9.01 dBi for 1900 MHz. Under no conditions may an antenna gain be used that would exceed the ERP and EIRP power limits as specified in FCC Parts 22H, 24E and 27.

LTE-XC; LTE-XA: The external antenna gain shall not exceed 6.63 dBi for 700MHz & 850MHz, 6 dBi for 1700MHz and 8.51 dBi for 1900MHz. Under no conditions may an antenna gain be used that would exceed the ERP and EIRP power limits as specified in FCC Parts 22H, 24E and 27, or ISED RSS-130, RSS-132, RSS-133, and RSS-139.

LTE-L57V: The external antenna gain shall not exceed 6.94 dBi for 700MHz, 6 dBi for 1700MHz and 9.01 dBi for 1900MHz. Under no conditions may an antenna gain be used that would exceed the ERP and EIRP power limits as specified in FCC Parts 22H, 24E and 27..

LTE-L57C; LTE-L57A : The external antenna gain shall not exceed 6.63 dBi for 700MHz & 850MHz, 6 dBi for 1700MHz and 8.51 dBi for 1900MHz. Under no conditions may an antenna gain be used that would exceed the ERP and EIRP power limits as specified in FCC Parts 22H, 24E and 27, or ISED RSS-130, RSS-132, RSS-133, and RSS-139.

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