



L000319-XX

## FP40 ultra L000434-XX

### Assembly and Installation Instructions

#### UP TO 14 PORT VEHICLE ANTENNA, 5G, WI-FI, BT, GNSS

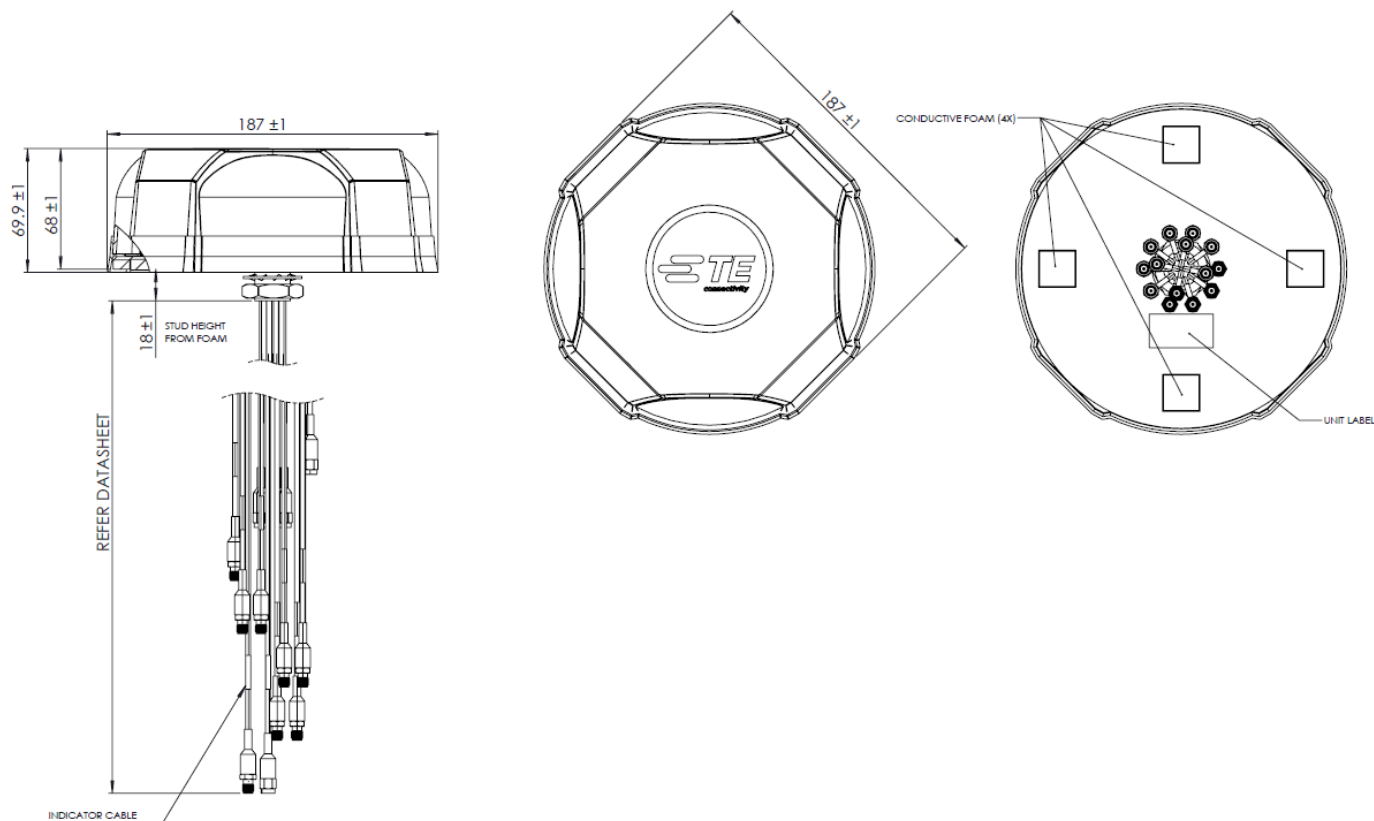
This is an antenna for intelligent transportation and public safety applications for 5G LTE communication. A single housing with up to 14 port options available, offering up to 4x MiMo 4G/5G LTE cellular elements, 1x GNSS & 8x MiMo Wi-Fi 6E with Bluetooth port.

### SPECIFICATIONS

Operating Frequency (MHz)*	LTE: 617-698, 698-960, 1427-1511, 1690-2700, 3300-4200, 4400-6000, 6000-7125 Wi-Fi: 2400-2500, 4900-6000, 6000-7125 BT: 2400-2500 GNSS: 1164-1189, 1559-1610
Nominal Impedance (Ohms)	50
Number of Ports*	4 to 14 port options
Dimensions – Length x Width x Height – mm (in.)	187 X 68 (7.4 X 2.7) H= 69.9mm From Bottom Gasket, H= 68mm From Bottom Foam, H = Est 67mm on Installation
Antenna Radome Material	PC, UL94-V0
Antenna Baseplate Material	Aluminum
Antenna Color	Black or White
Operating Temp. (°C)	-40 to +85

\* Subject to antenna model

### MOUNTING & OUTLINE



## SAFETY

The L000434-XX antenna and all associated equipment should be installed in accordance with all applicable local and national electrical code guidelines to ensure safe operation.

## LOCATION

The antenna should be mounted on the desired location before connecting the cable. This is to ensure that the cable is not twisted or damaged during the mounting of the antenna.

## APPLICATION

The antenna provides an excellent solution for Public Safety, Transportation and After Market Fleet applications with an integration of wide range of frequencies. The maximum port configuration of 14 ports is configured for 4x MIMO operation over 4G/5G frequencies, 8x MIMO operation over both Low/High Band Wi-Fi, 1x port that provides an active antenna for enabling GNSS (L1 + L5) global navigational services and 1x Bluetooth.

## MOUNTING

1. The mounting area should be clean of any debris, clear from obstructions and as flat as possible.
2. Punch or drill a 21 mm in the roof of the vehicle noting that a 300 mm clearance radius around the antenna is recommended.
3. Feed the cables from the bottom of the antenna through the topside of the 21 mm hole. Peel the adhesive covering on the bottom side of the antenna's gasket foam. Place the threads of the antenna through the hole so that the gasket foam of the antenna is flat on the vehicle surface. Slide the lock-nut and washer around the 5 cables and finger-tighten to the stud of the antenna. Tighten the nut with a wrench using 10 Nm of torque.
4. Use a short service loop (slack) with tie-downs to secure the antenna cables such that any force or movement will not be transmitted to the antenna connectors or the apparatus. Minimum bending radius for the cable exiting the bottom of the antenna is 30 mm.

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