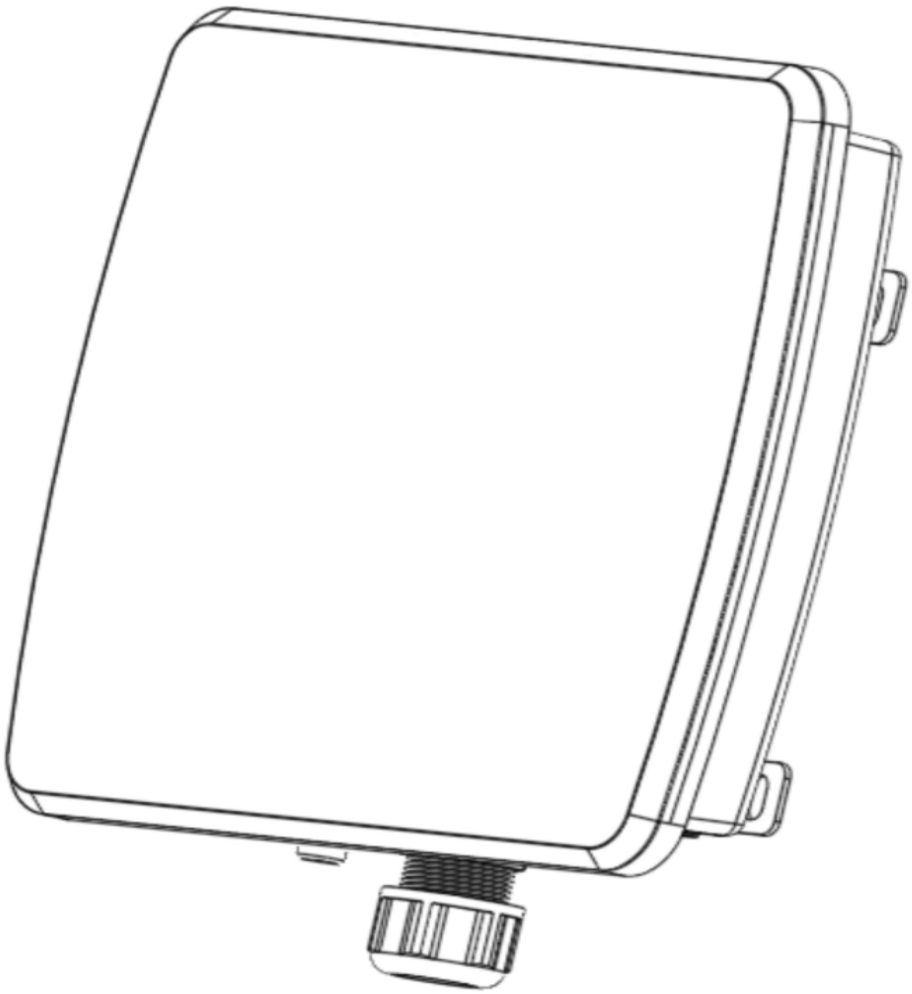
GTT GLB pSmart-box® Omni Antenna Enclosure Kit

Teltonika RUT900 Series Device – 4G/LTE, 5G, 5G Redcap + Wi-Fi

(Router not included)

Outdoor Unit (ODU) Installation Guide



Part No: GTT-TTK-PC-ENC-9XX V1 – 20.11.25

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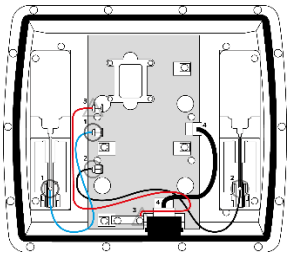
2. System Overview

The GTT GLB pSmart-Box®4G/LTE Wi-Fi enclosure is a ruggedised polycarbonate enclosure designed for Teltonika modem, gateway and router devices. The unit comprises of three basic elements: the enclosure, lid and the mounting bracket. The antenna system is integrated within the unit.
The following section describes each component in more detail.
ODU Kit Contents - The package contains the following illustrated items.

Figure 1 – Omni Antenna Kit Contents:

1 x GTT GLB pSmart-box(PC)

- Polycarbonate enclosure
- Integral Gore® Vent
- Passive POE support



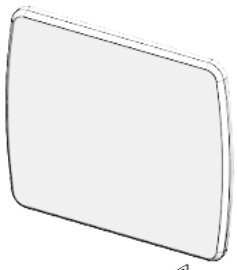
3 x Internal embedded Antennas

- 2 x multi-band 4G/LTE, 5G, 5G Redcap
- 1 x dual-band Wi-Fi

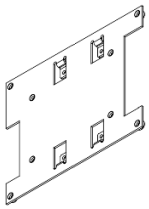
Pre-installed cables

- 2 x LTE cables & connectors – SMA (blue+black)
- 1 x Wi-Fi cable & connector – RPSMA (red)
- 1 x RJ45 (Cat5e) cable & connector (black)

1 x GTT GLB Polycarbonate Lid (Deep)
14 x Lid Screws



1 x Teltonika RUT900 Series Device Mounting Brackets
Designed for Teltonika RUT900 Series

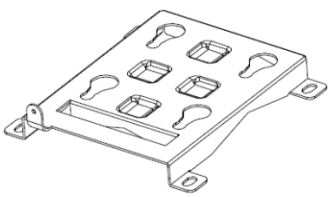


4 x M3 x 0.5 x 8 SEMS Screws

1 x M25 Cable Gland - *Installation Top Tip:* *Unscrew from enclosure and remove during bracket / lid installation. Replace once lid is installed*

1 x Stainless Steel Quick Mount 'Fast Slide' External Bracket

- Fixed/pole
- Vertical/horizontal



2 x Stainless Steel Back Straps

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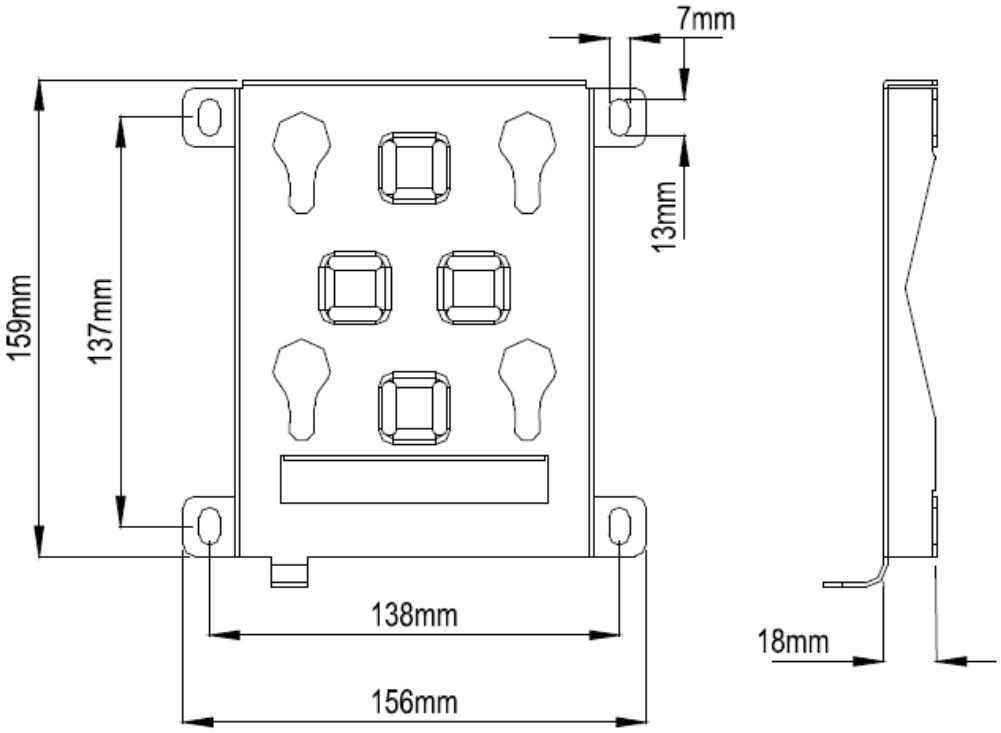
3. Mounting System

The ODU mounting bracket (included)
Critical dimensions are highlighted below.
All dimensions in millimetres.

Figure 2 – Bracket Dimensions



4. Mounting & Connecting the Device inside the Enclosure

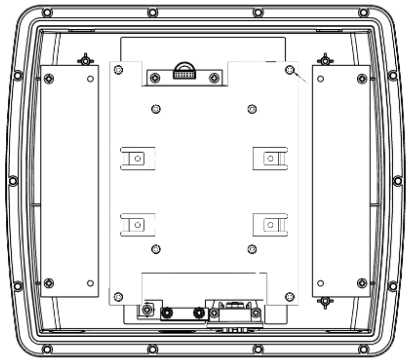
The RUT900 Series mounting plate (included) installation instructions are highlighted below.

Assembly Items	**Tools Required** (not inc'd in kit)
• Teltonika RUT900 series router (not supplied) • Teltonika RUT900 series mounting plate (x1) (pre-installed) • M3 x 0.5 x 8 SEMS screw (x4) (supplied)	• Philips Head P21 Screwdriver (magnetic head) • 8mm Spanner (for tightening SMA & RPMSA router cable connectors)

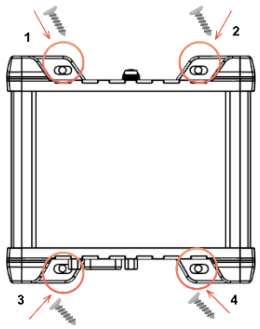
Figure 3.1 - Mounting the Device Inside the Enclosure

Note: Remove packaging tape from SMA & RPMSA pre-installed cables before mounting device.

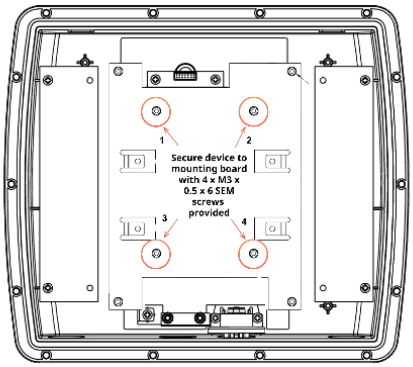
1. Position all pre-installed cables away from the bracket installation position. The device mounting plate is pre-installed



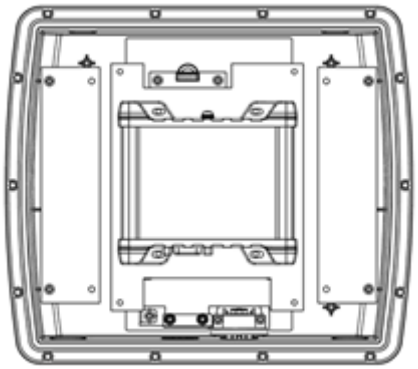
2. Place the **RUT900** series device onto mounting plate, align over screw fix points



3. Secure device to mounting board with 4 x M3 x 0.5 x 8 SEM screws provided



4. **Finished Bracket Assembly**



Note : For additional security, lock screw threads with a small drop of 'Loctite 243' Threadlocker adhesive (not included)

Figure 3.2 – Connecting the Device Inside the Enclosure

Connector Guide :

1. SMA connector to LTE/4G antenna left hand (blue) cable
2. SMA connector to LTE/4G antenna right hand (black) cable
3. RPSMA connector to Wi-Fi antenna (red) cable (Wi-Fi)
4. 2 x 4 pin housing to RJ45 (Cat5e) 150 mm cable (LAN)

Connect each cable connector then tighten with 8mm torque spanner to the required torque : 0.9-1.1 Nm

5. ODU Lid Assembly

The ODU lid (included) installation instructions are highlighted below.
Assembly Items
1. GTT GLB pSmart-Box® Enclosure Kit Lid (x1)
2. Screws (Stainless Steel) (x14)

Figure 4 – Enclosure Lid Assembly

Insert all 14 lid screws loosely before tightening diagonally and horizontally to the required torque (1Nm) making sure the lid gasket sits correctly. *****
***Note – Remove the external RJ45 Cat5e gland to give easier access to adjacent lid screw, then replace**

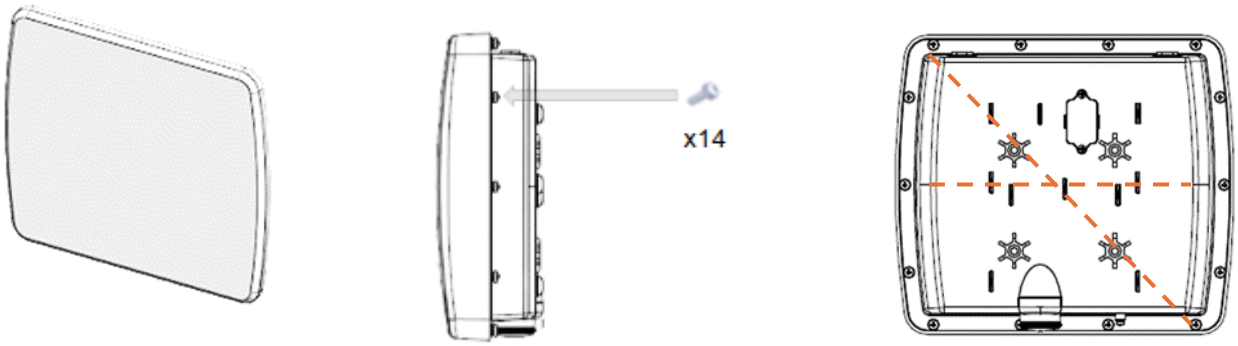
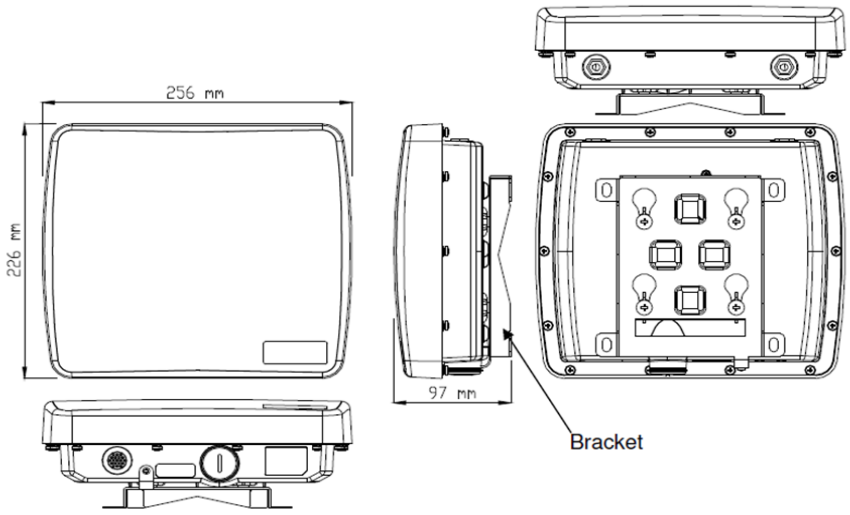


Figure 5 – Unit with bracket



***** It is the device installer's responsibility to ensure the enclosure gasket is fitted correctly to guarantee IP67 / NEMA6 quality protection.

6. External Mounting of the ODU

- Secure the mounting bracket to support structure / pole prior to mounting the ODU.
- Slide the unit onto the bracket and then pull down to the stop position.
- Secure the ODU to the mount bracket with the fixing screw as illustrated.
- Reconnect the cable gland to the base of the enclosure and hand tighten securely.

Figure 6 – Secure Unit to Bracket

Installation Top Tip: *Unscrew cable gland from enclosure and remove during bracket / lid installation. Replace once lid is installed*

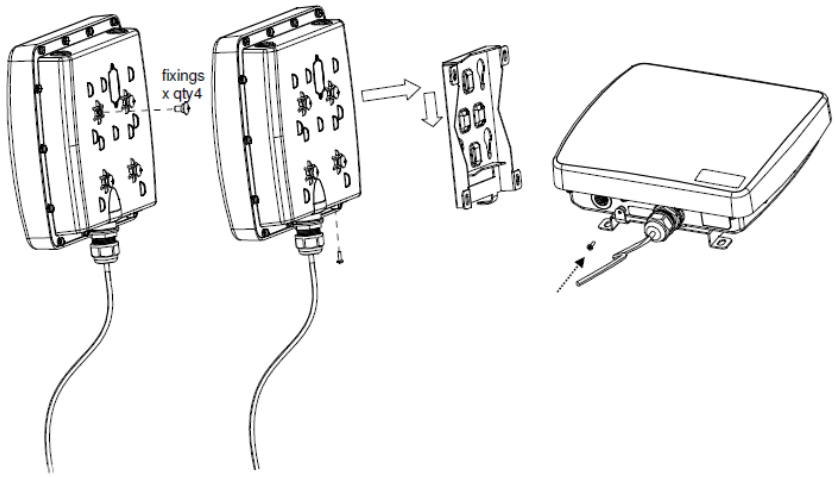
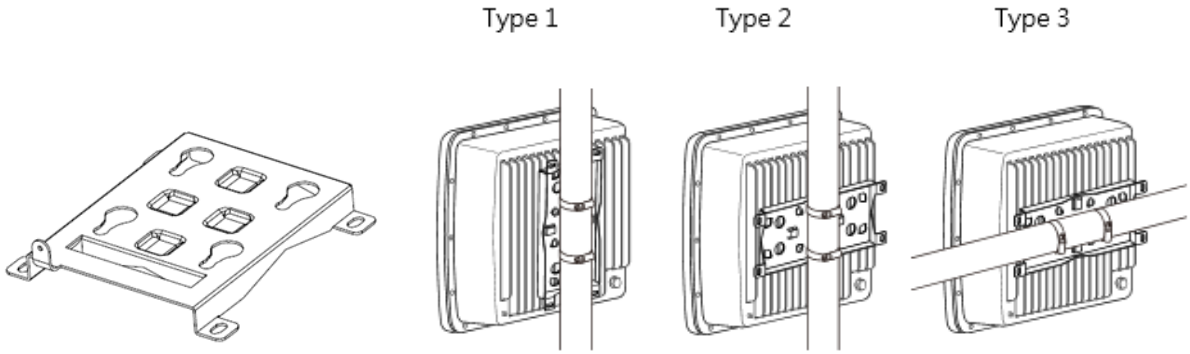


Figure 7 - Mounting Options: Wall Mount / Pole Mount



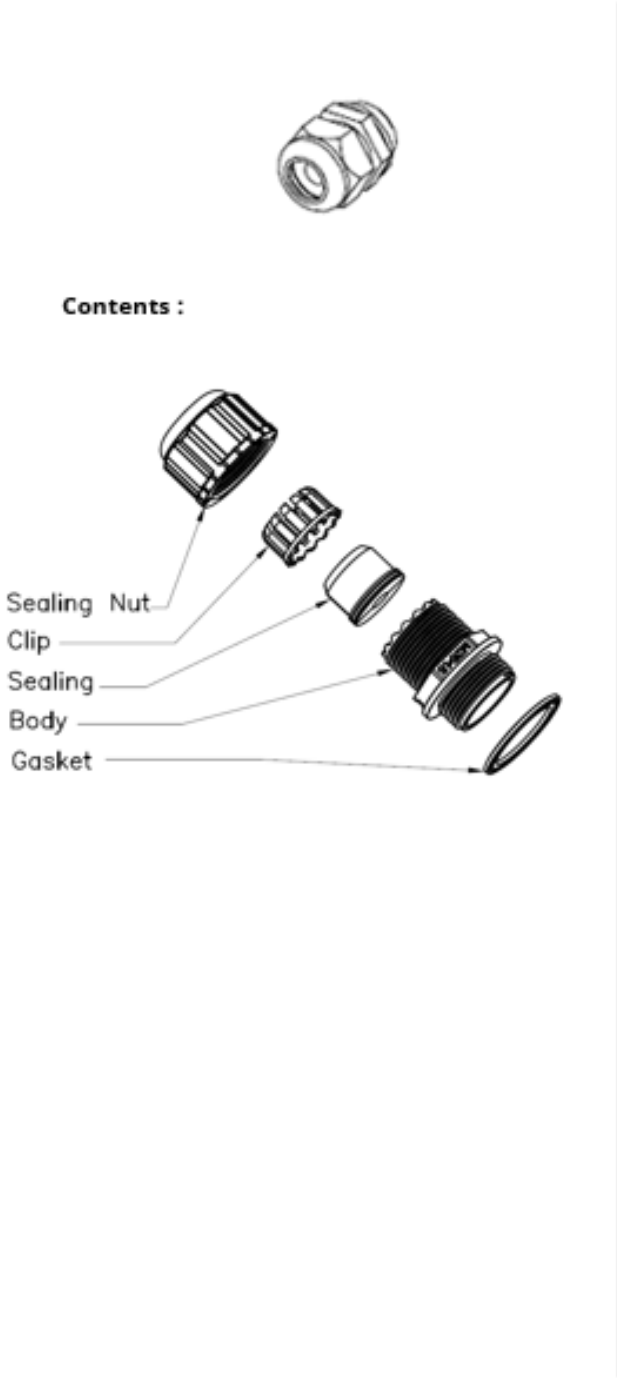
Wall Mount

Pole Mount

Using 2 x Stainless Steel Back Straps

7. ODU – Cable Gland Assembly

Figure 8 – Cable Gland Assembly



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