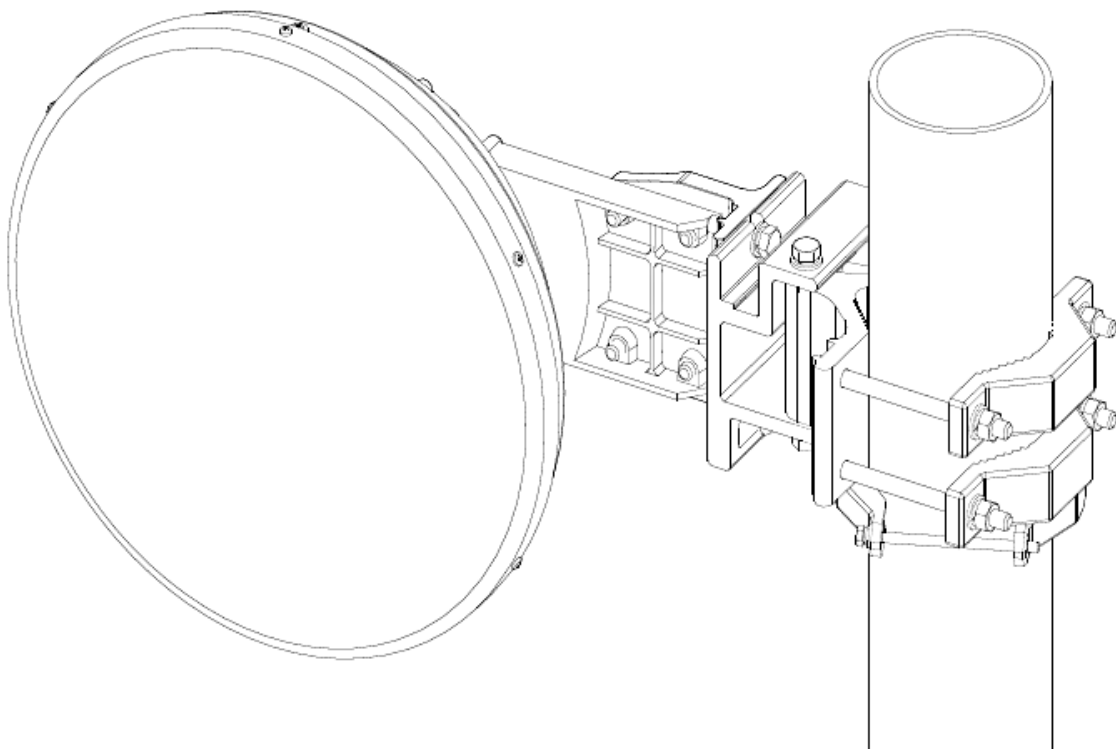


Installation Instructions

For 0.6m Ultra-High Performance Antenna

60 cm antenna Z24A60T37301



Remarks: Before Installation, please read the instruction carefully.

- This instruction book is for the installation of 0.6m ultra-high performance microwave antenna.
- Installation, maintenance and removal of antenna system are suggested being carried out by a qualified experienced personnel.
- To guarantee performance, the antenna system is suggested being inspected once a year by a qualified personnel.

1. Requirement of Installation

1.1 Mounting Pole

Microwave antenna can be fixed to the Mounting Pole (self-feed) of diameter from $\varnothing 50$ mm to $\varnothing 114$ mm.

1.2 Tools Required for Installation

20×20 Adjustable Spanner (*Used for bolt M10-M12*)

17-19 Open-end Spanners (*Used for bolt M10-M12*)

3mm L-Spanner (*Used for Screw M4*)

Cross Screw-driver (*Used for M3-M5*)

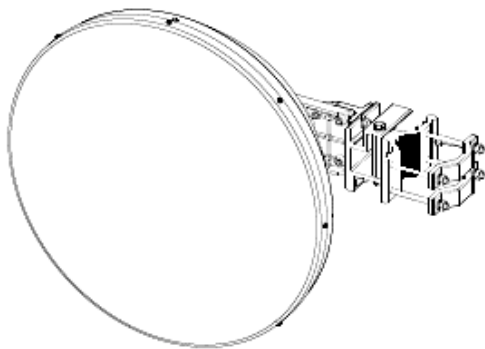
Torque Spanner (*Recommended*)

1.3 Torque Parameters of Standard Parts

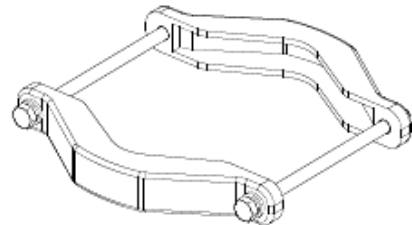
Customer can use these torque parameters as reference to assembly the antenna.

Table of Torque Parameters

| NO. | Types of Standard Parts | Torque (N·m) |
|-----|-------------------------|--------------|
| 1 | M3 | 0.6 |
| 2 | M4 | 1.3 |
| 3 | M5 | 3 |
| 4 | M6 | 5 |
| 5 | M10 | 28 |



Antenna Assembly



Anti-skid Bracket

Fig 2.1 Parts List

3. Antenna Overall Assembly

3.1 Mount Anti-slide Bracket

Anti-slide Bracket could be mounted to the Mounting Pole($\varnothing 50 \sim \varnothing 114$) in a way shown in Fig 3.1. Make sure tighten the two M6x110 bolts after fixing the position.

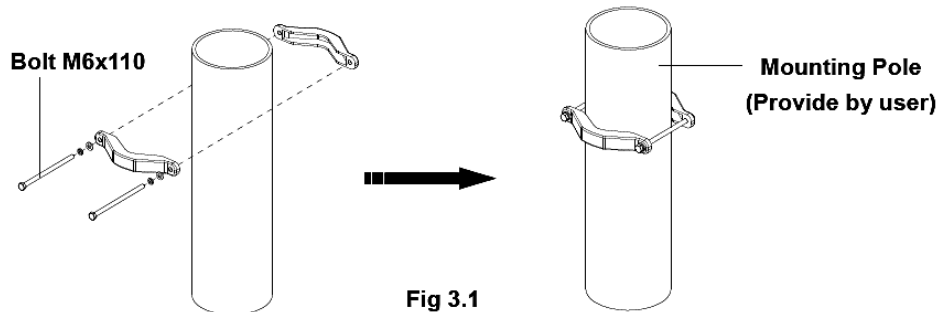
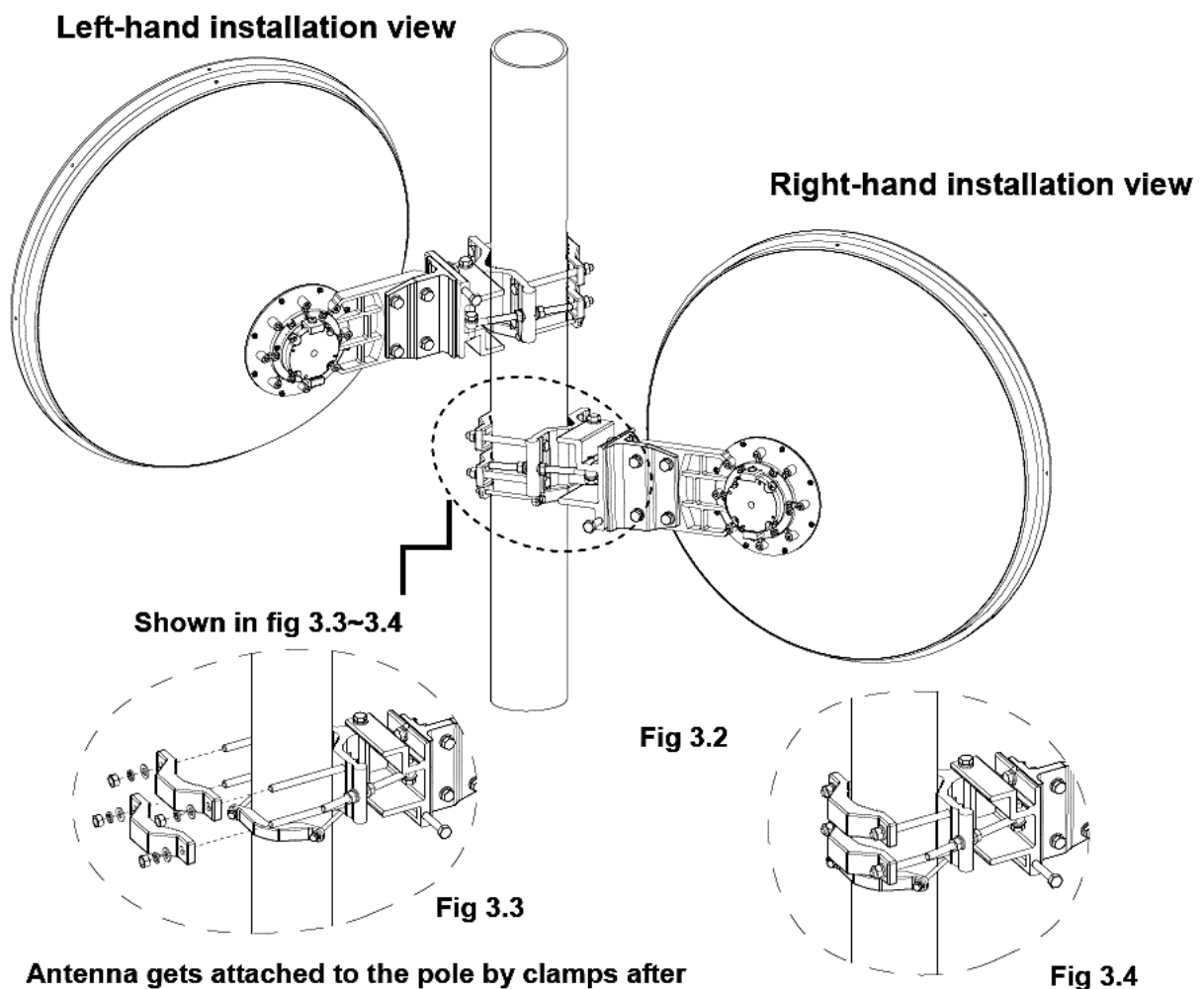


Fig 3.1

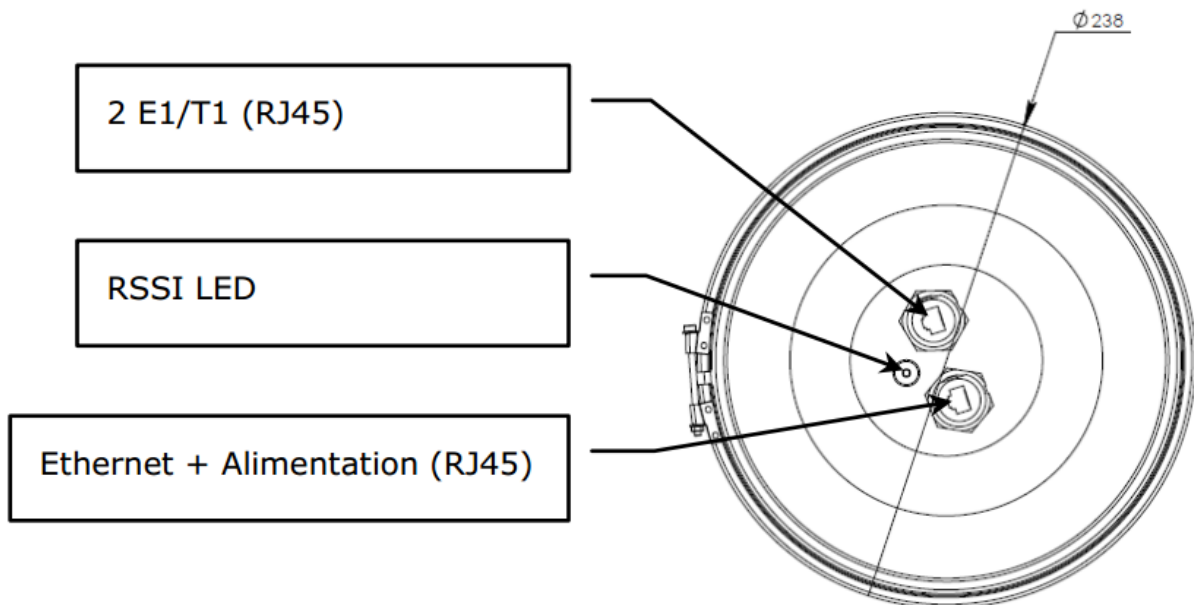
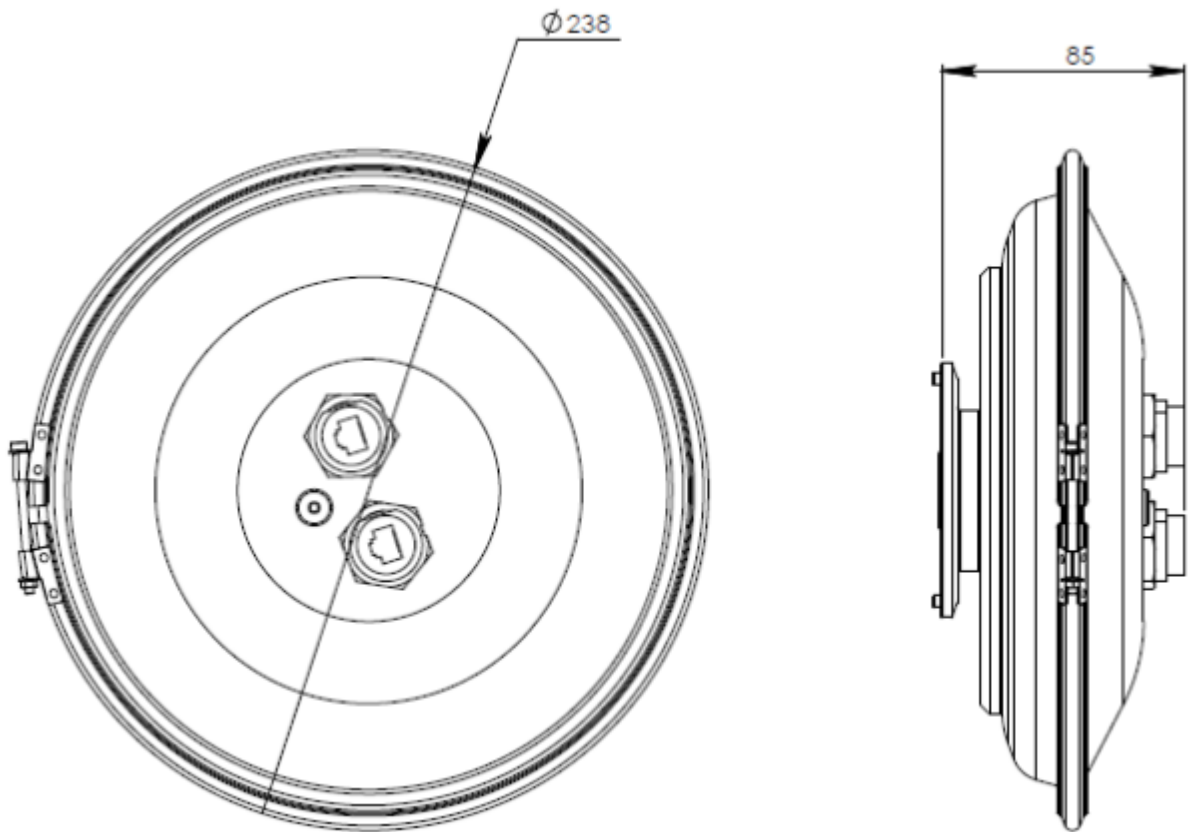
3.2 Antenna installation

Following indications in Fig 3.2 ~ 3.3, customer could install the antenna either on the left hand or right hand sides of the pole.

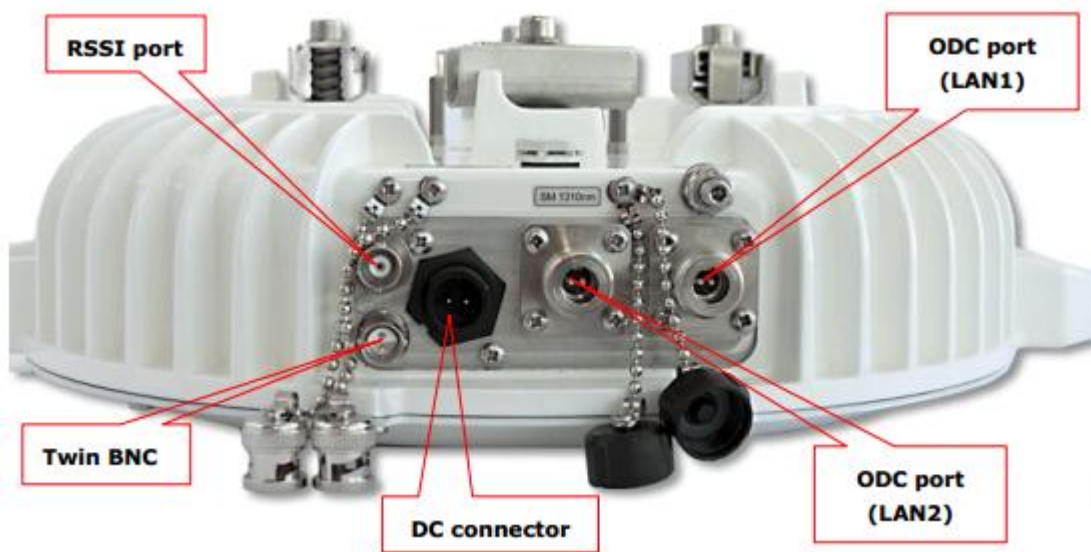


Antenna gets attached to the pole by clamps after tighten all bolts, as shown in Fig 3.3 and Fig 3.4.

4. ODU radio Outdoor units



Wi200 Hyperbridge ODU



Wi700 Hyperbridge ODU

5. Antenna Adjustment

5.1 Azimuth Adjustment

Make coarse azimuth adjustment in the following way (shown in Fig 5.1): loosen the 4 nuts (No.1) of the Clamp (No.2) properly, and then push the whole structure slowly to make a rotation from 0° to 360° around the Mounting Pole. Use compass to determine the antenna's position if necessary, and then tighten the nuts (No.1).

Make fine azimuth adjustment in the following way: loosen bolts (No. 5 and 6), and then adjust nuts (No.3) of Azimuth Adjustor back and forth slowly. Antenna can make fine azimuth adjustment from -15° to +15°; tighten all the standard parts after the adjustment is done.

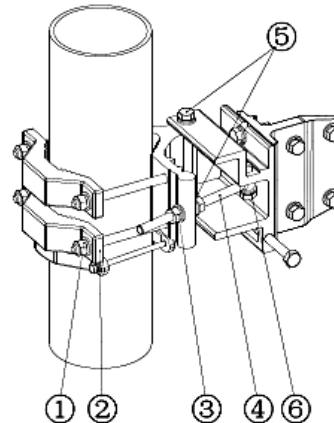


Fig 5.1

①③Nut M10 ②Clamp (2 pcs) ④Azimuth Adjustor ⑤⑥Bolt M10

5.2 Elevation Adjustment

Make elevation adjustment (shown in Fig 5.2): loosen the nuts (No.1), and then rotate Elevation Adjustor clockwise or counterclockwise. Antenna can make fine elevation adjustment from -15° to +15°, tighten all the standard parts after the adjustment is done.

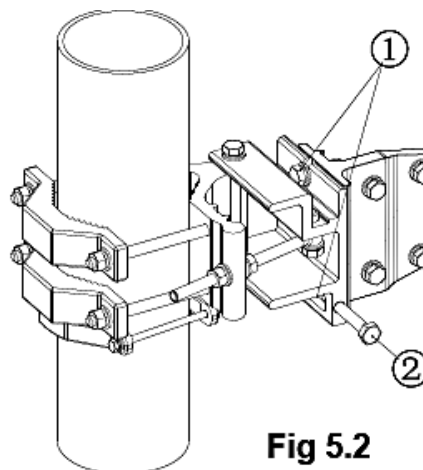


Fig 5.2

①Bolt M10 ②Elevation Adjustor

Make coarse elevation adjustment (shown in Fig 5.3): loosen the bolts (No.5). Use ① & ④ thread holes, antenna can make elevation adjustment from +5° to +25°. Use ② & ③ thread holes, antenna can make elevation adjustment from -5° to -25°. Tighten all the standard parts after the adjustment is done.

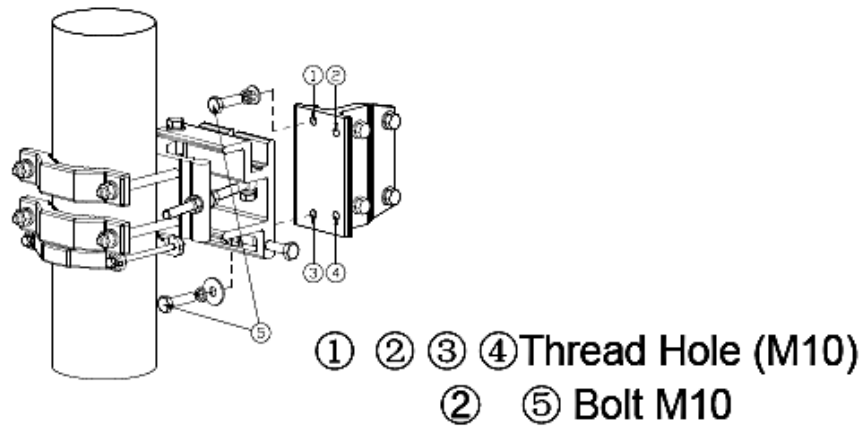


Fig 5.3

6. Antenna Assembly Finishing

6.1 Tighten all the standard parts after antenna assembly are done, regard it to torque of the standard parts is referred to the chapter 1.3.

6.2 Keep the antenna’s bottom draining-hole open. Keep the top one sealed (shown in Fig.6.1 and Fig.6.1.1).

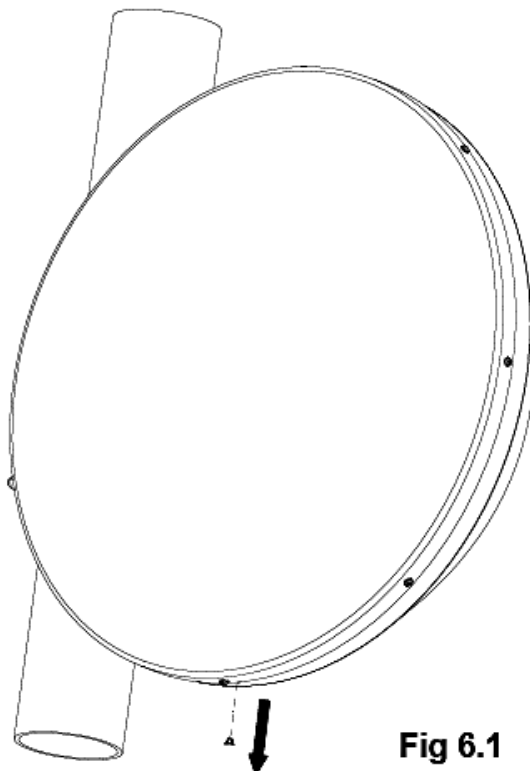


Fig 6.1

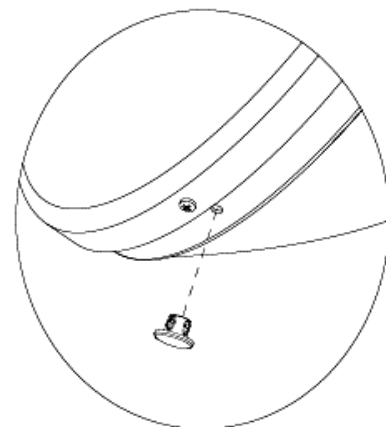
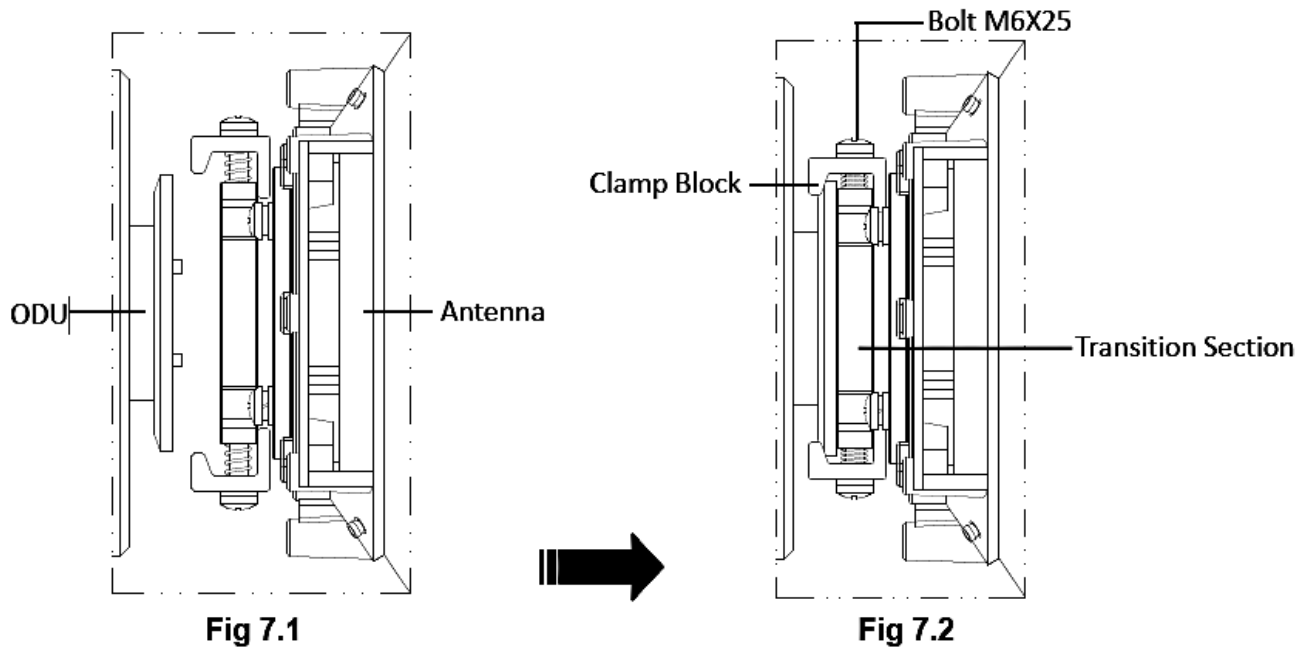


Fig 6.1.1

7. Appendix



1. Loosen M6X25 bolts (2PCS), and then put ODU into the Transition Section (shown in Fig 7.1).
2. Tighten all the standard parts (shown in Fig 7.2).