



## Content

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#### **Installation Statement**

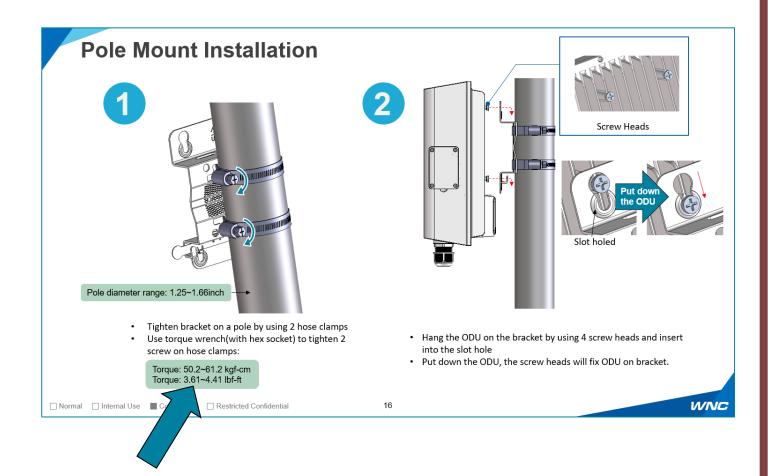
- The installations must be carried out by professional, trained technicians.
- This installation is intended for point-to-point 5G mmWave digital communications applications, the CPE front side which is mmWave antenna side should be installed and operated under line-of-sight condition.



## Note on Screw Tightening with Specified Torque

■ Please use torque wrench to tighten screws if the torque is specified.

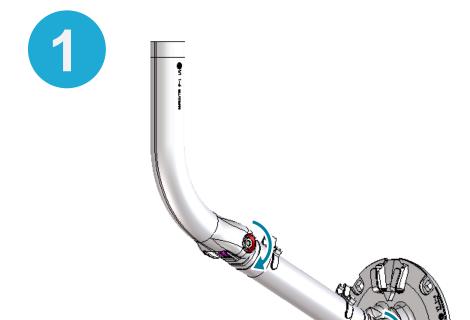


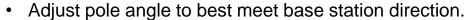








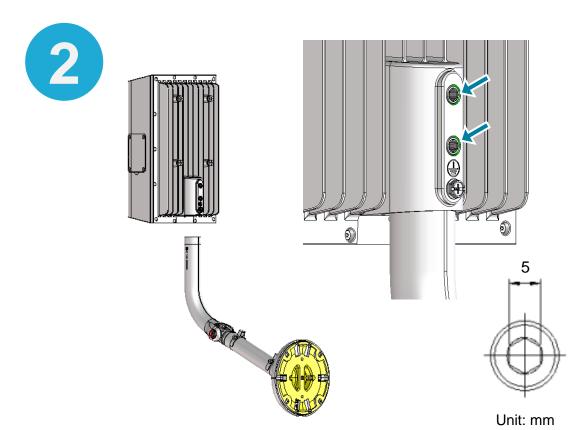




• Tighten 2 elbow nut to fix the angle:

Torque: 140 +/-10 kgf-cm Torque: 10.12 +/-0.72 lbf-ft

Detail of the elbow screw is shown in next page.



- Hang the ODU device on the J-Pole
- Tightening two HEXI screw after ODE hang in place (screw had pre-mounted with j-pole already)

Torque: 60 +/-10 kgf-cm Torque: 4.32 +/-0.72 lbf-ft



Detail of the elbow screw:







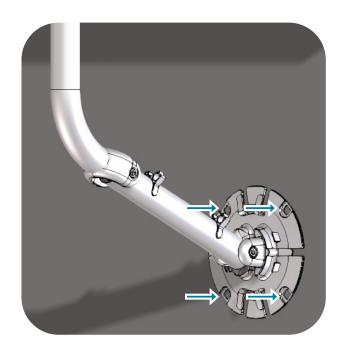
M6 nut Tighten the nut to fix the angle

Left View

Top View

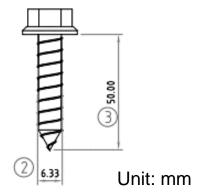
Right View





Tighten 4 screws to fix the base bracket onto the wall.



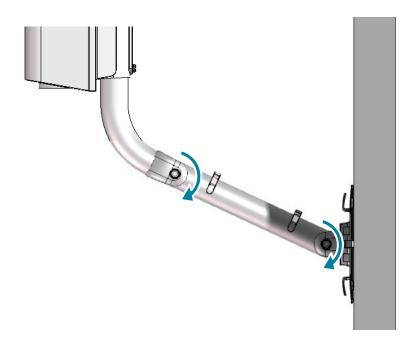


Screw information:

Screw Type: 1/4"x2" Wood Screw

Screw Head: HEX head





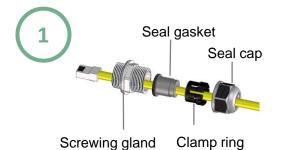
- (If need)Loosen 2 nuts and re-adjust pole angle to best meet base station direction.
- Tighten 2 elbow nut to fix the angle:

Torque: 140 +/-10 kgf-cm Torque: 10.12 +/-0.72 lbf-ft



#### J-Pole Installation & cable dimension constraint

Finish the waterproof cable gland setup as below.







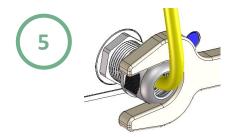






Wrench fix the screwing gland Torque: 25~27kgf-cm

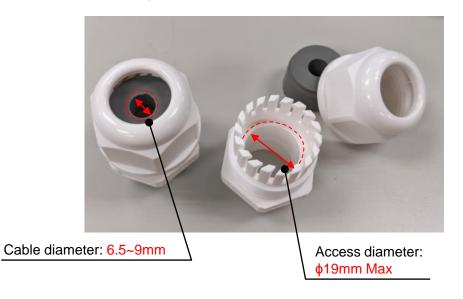
Put the gasket and clamp ring in

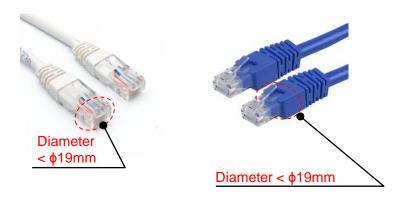


Wrench fix the seal cap

Torque: 15~25kgf-cm

**Note**: For ODU installation, please notice that cable size should not too big due to dimension constraint of cable gland.







**Notice**: Not recommend to use the cable with the latch jacket.



Since pressing latch need a lot of space to do it. Therefore, if cable with the latch jacket, installer will hard to press it to desert the cable.

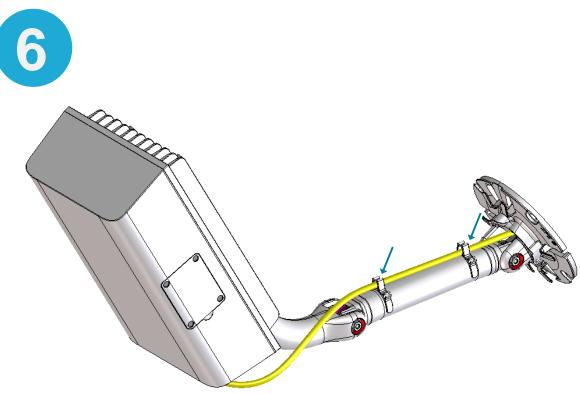




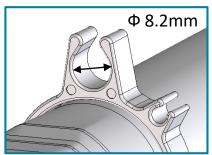
Hole is deep Space is small

> Latch jacket will occupy most of space and make finger/tool hard to insert in the hole



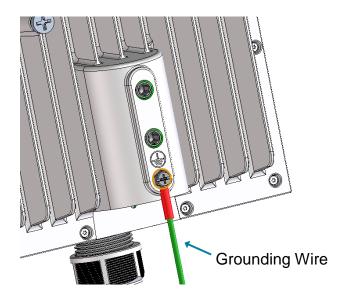


• Fix the cable along the pole with the clamps, shown in.





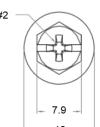


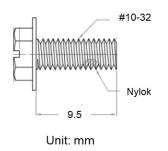


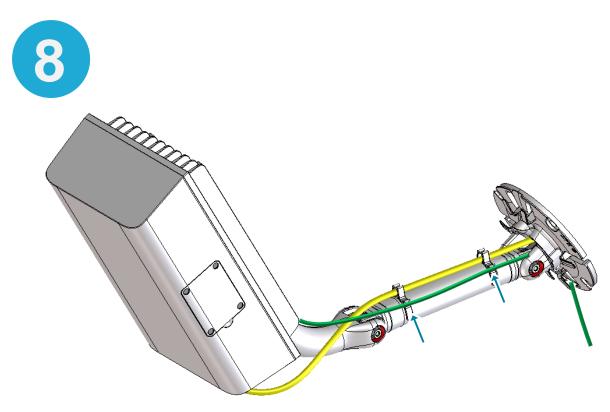
• Tighten the GND cable, screw information:

Screw Type: #10-32 Screw head: Phillips

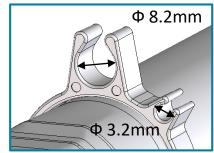
Torque: 10 +/-1 kgf-cm Torque: 0.72 +/-0.07 lbf-ft







 Route the grounding cable through the bottom of pole and straight down directly.









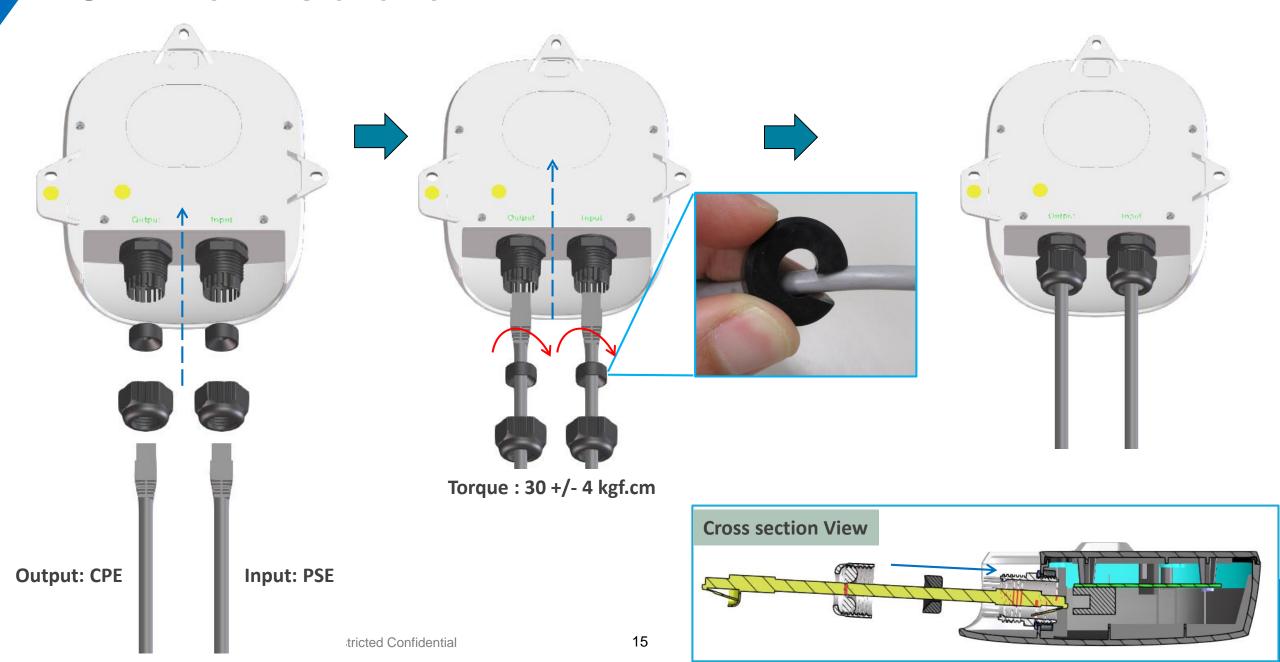
- Attach plastic bracket cover.
- The cover can be twisted open and wrap the bracket.
- Make sure cable is directly downward.



## **GND Box Installation**



## **GND Box Installation**



## **GND Box Installation: cable dimension constraint**

**Note**: For GND Box installation, please notice that cable size should not too big due to dimension constraint of cable gland.



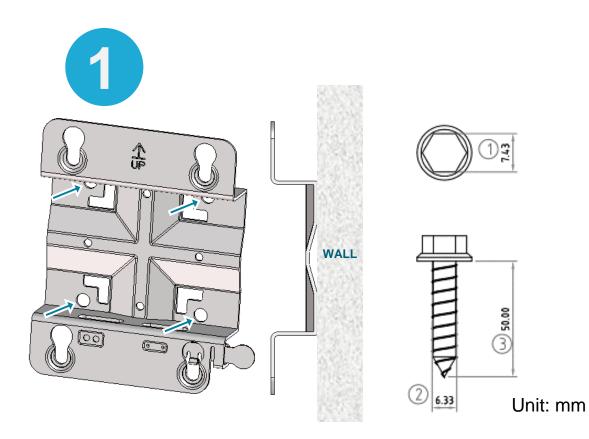




## **Wall Mount Installation**



#### **Wall Mount Installation**

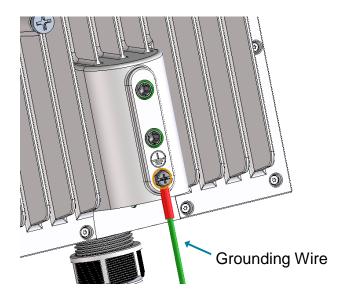


 Tighten 4 screws to fix the wallmount bracket onto the wall. • Screw information:

Screw Type: 1/4"x2" Wood Screw

Screw Head: HEX head

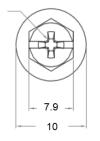


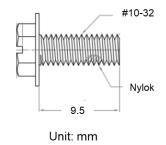


• Tighten the GND cable, screw information:

Screw Type: #10-32 Screw head: Phillips

Torque: 10 +/-1 kgf-cm Torque: 0.72 +/-0.07 lbf-ft

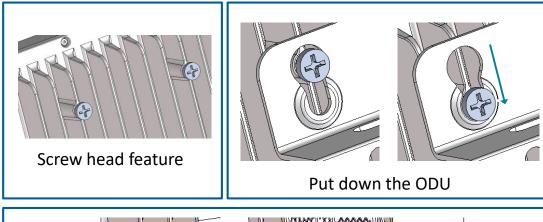


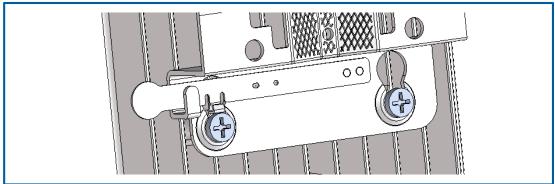


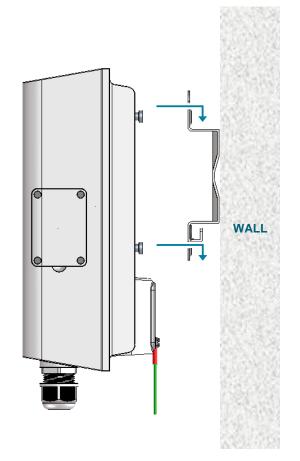


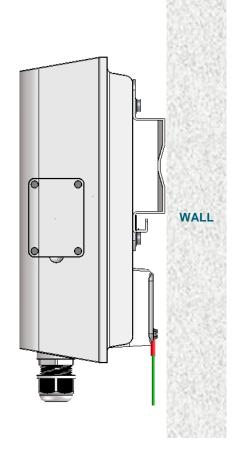
#### **Wall Mount Installation**

- Hang the ODU on the wall mount bracket by using 4 screw heads and insert into the slot hole
- Put down the ODU, the screw heads will fix ODU on bracket.
- Make sure the safety bar is securing well.







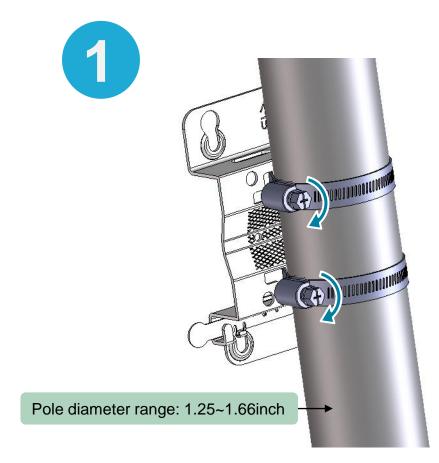




## **Pole Mount Installation**

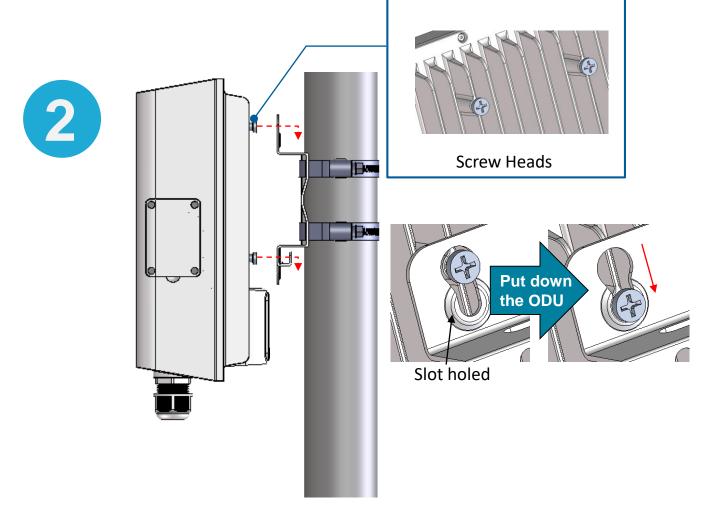


#### **Pole Mount Installation**



- Tighten bracket on a pole by using 2 hose clamps
- Use torque wrench(with hex socket) to tighten 2 screw on hose clamps:

Torque: 50.2~61.2 kgf-cm Torque: 3.61~4.41 lbf-ft



- Hang the ODU on the bracket by using 4 screw heads and insert into the slot hole
- Put down the ODU, the screw heads will fix ODU on bracket.

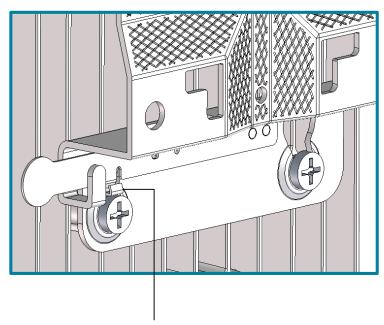


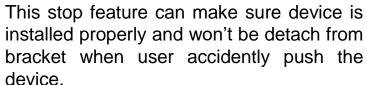


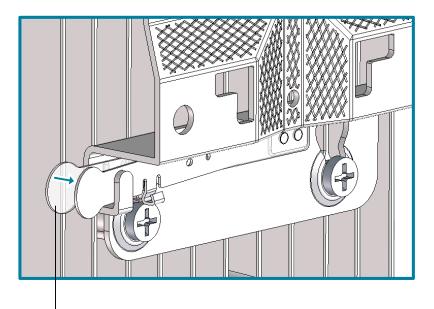
# Wall/Pole Mount Securing Mechanism



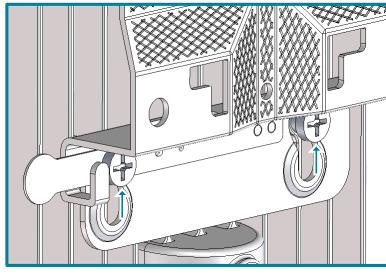
## **ODU Bracket Securing Mechanism:** Releasing ODU from the Wall/Pole Mount Bracket







Pull the latch to release the bar. There will be enough space to allow screw head detach from the bracket.

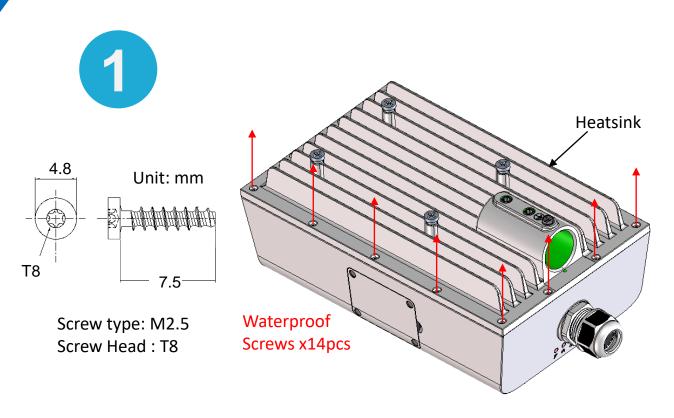


Lift up the device and there will be enough space to allow screw head detach from the bracket.

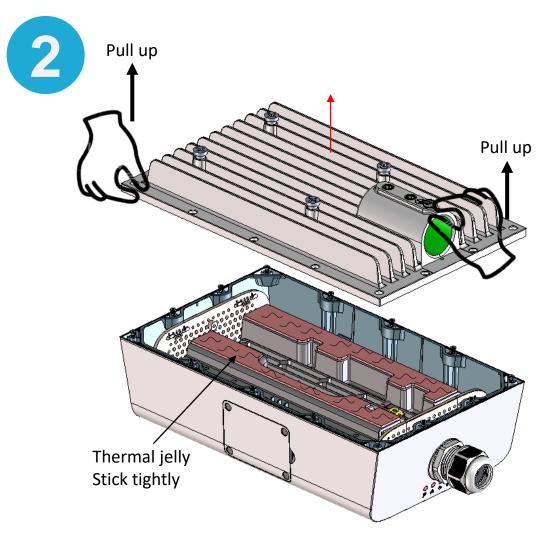






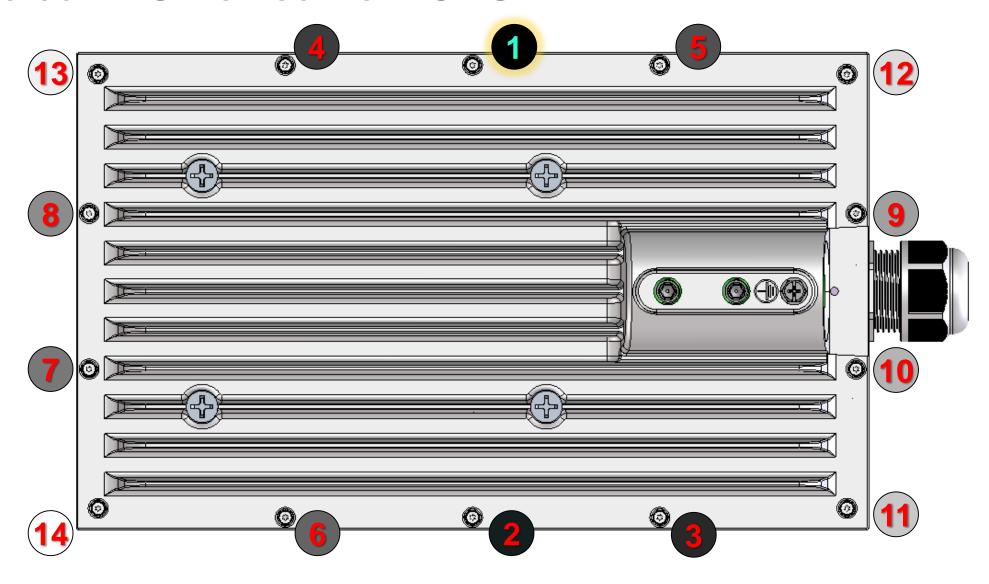


- Take off the ODU from the bracket(wall/pole/Jpole) and put it on a plat base.
- Release 14 waterproof screws, then the heatsink could be took off.
  Please follow the sequence of removing screw, see in next page.



- Take off heatsink, and the IDU could be took out.
- Need pull force exert on heatsink to remove it, because thermal jelly stick it tightly.

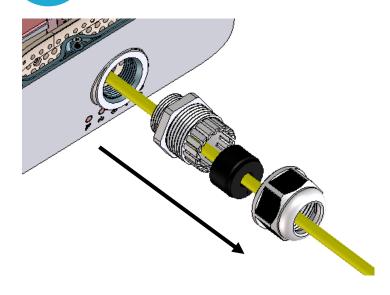




Please follow the sequence of removing screw

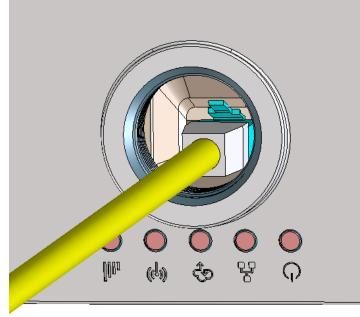


Release cable gland.



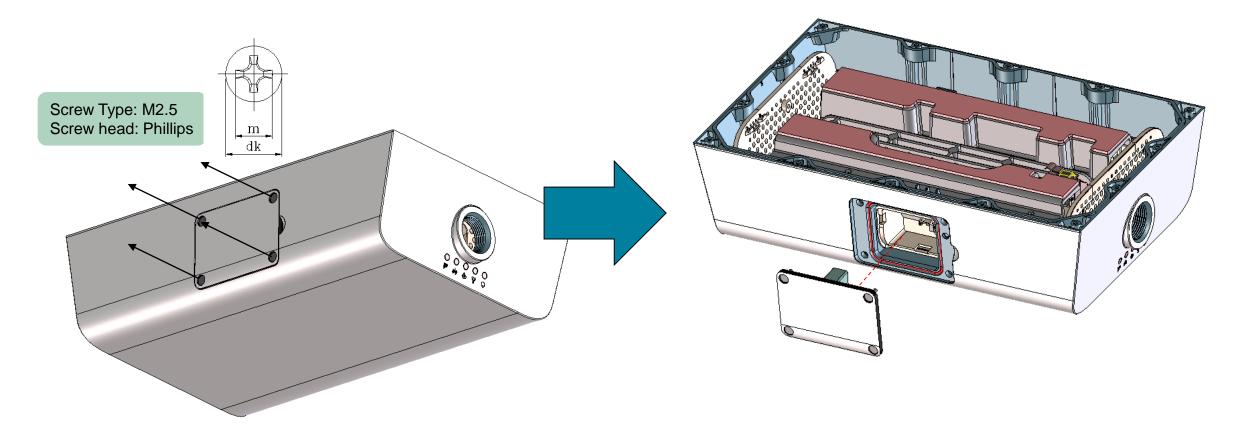


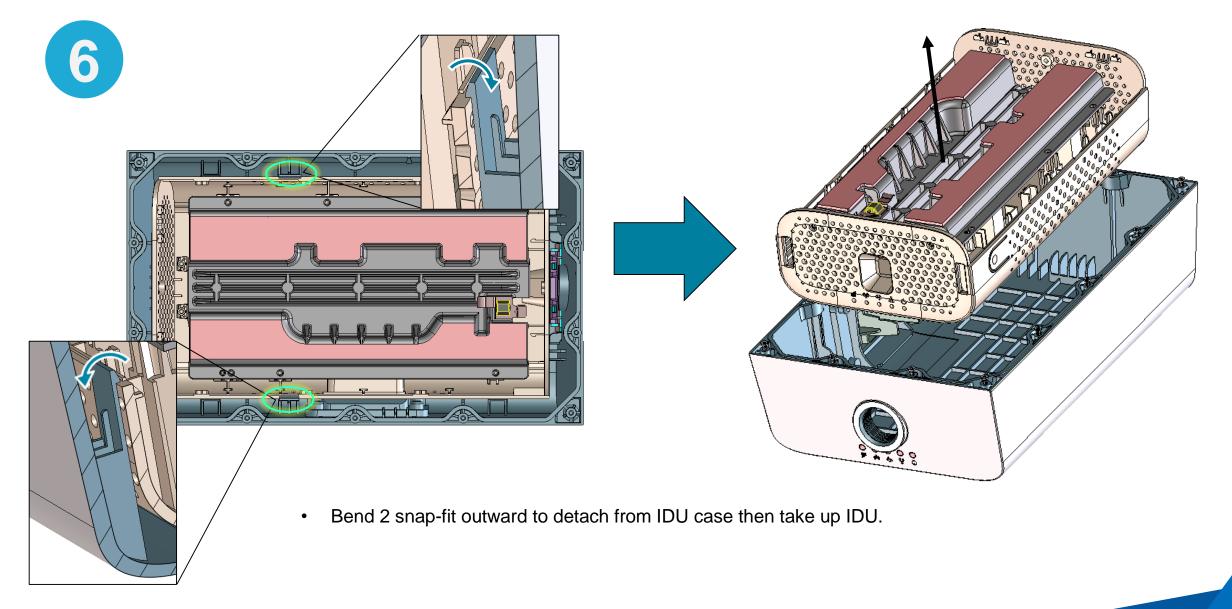
Remove POE cable.





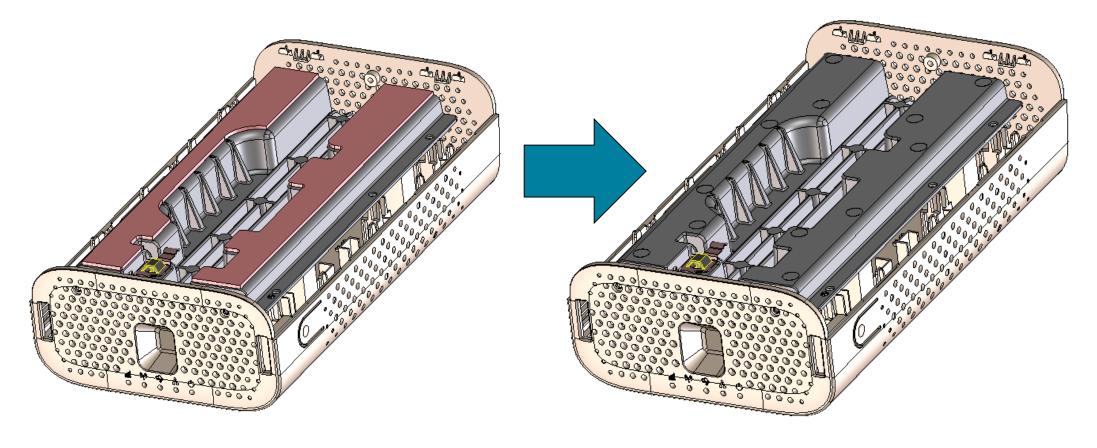
Release 4screws to remove ODU IO Cover.





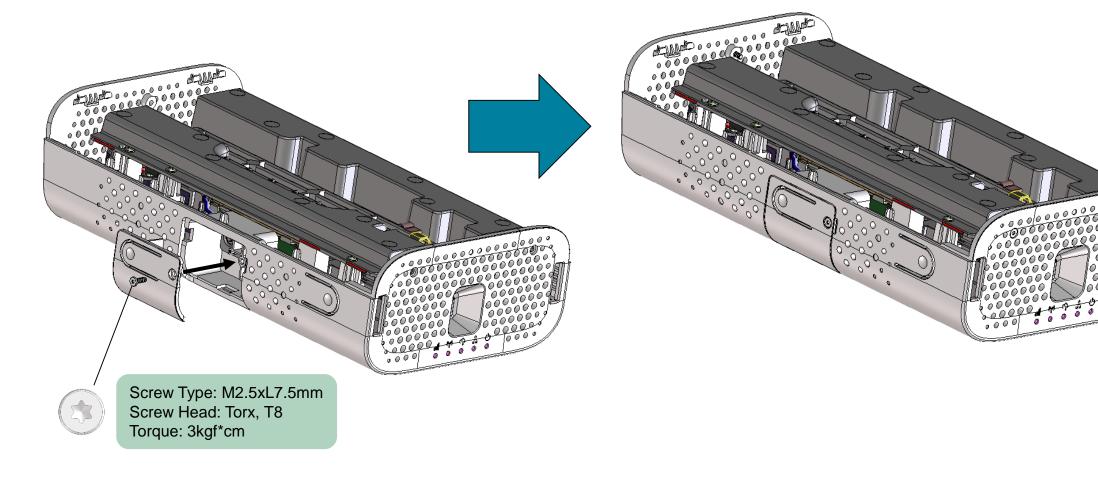








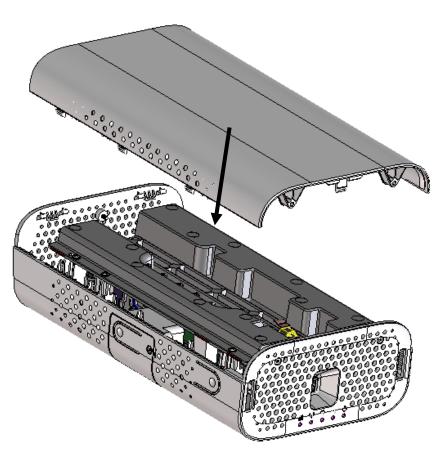
Assemble the IO Cover back.







Assemble the cover back.

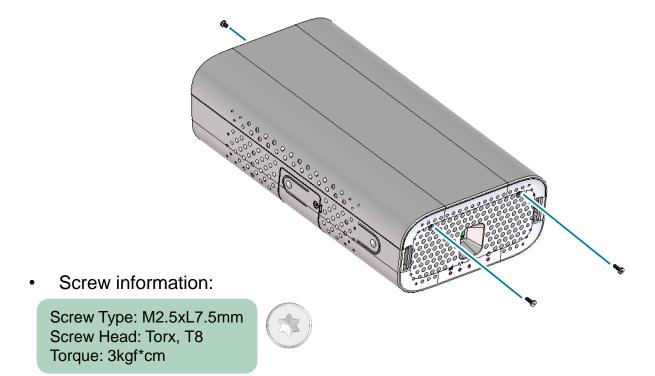


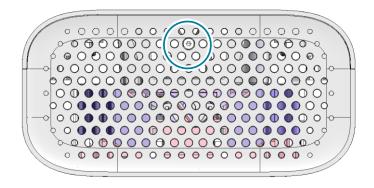


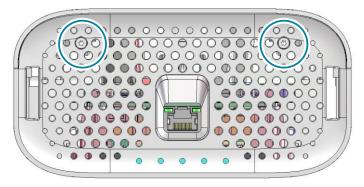




Tighten 3pcs M2.5 screw for cover.











## **IDU Window/Wall Mount Bracket**

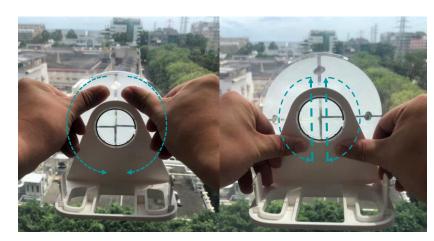


#### **IDU Bracket for Window Mount**









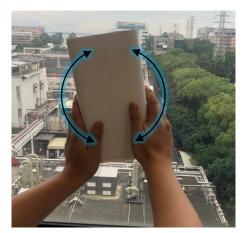


Gecko tape

- 1. Clean the heavy stain/dust on window by window cleaner.
- 2. Clean immediate area where mount will be attached to, use provided alcohol wipes to remove light dirt and the film left from window cleaner.
- 3. Peel off protective film from the Gecko tape on the indoor bracket. Then affix the indoor bracket on the window in the direction indicated by the arrow on the bracket.
- 4. Using both two thumbs to exert solid pressure holistically for 30 seconds in all areas where Gecko tape makes contact with the glass. If possible, check adhesion area by looking from the outside.
- 5. The lazy Susan feature can be used to adjust position of Indoor Bracket.

#### **IDU Bracket for Window Mount**







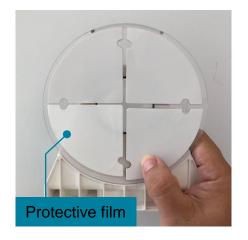






- Once the bracket is securely affixed on the window, align the bracket slot on the IDU and insert it downward to the bracket arm.
- 7. Push the IDU into the indoor bracket until a "click" sound is heard.
- 8. Adjust the orientation of the Verizon Receiver as required.

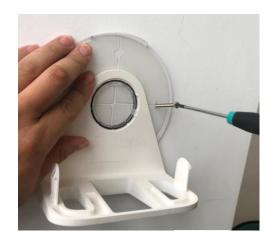
#### **IDU Bracket for Wall Mount**











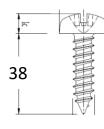


- 2. User a pen to mark where to drill holes.
- 3. Use driller to drill two holes. (Notice that ashes need to be cleaned)
- 4. Insert the Wall anchor into the wall.
- 5. Screw fix the Bracket on the wall.



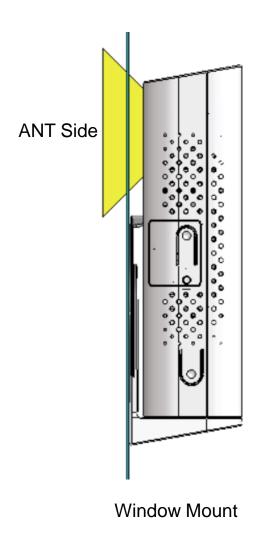
Wall mount screw Type: M3.5

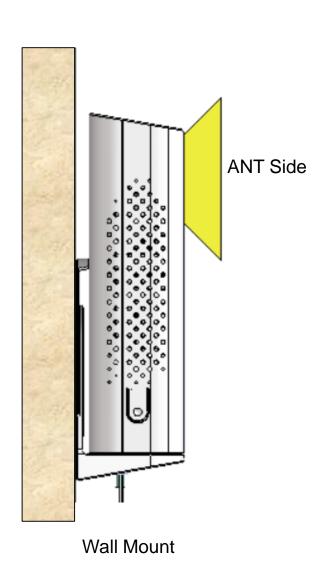
Screw head: Phillips

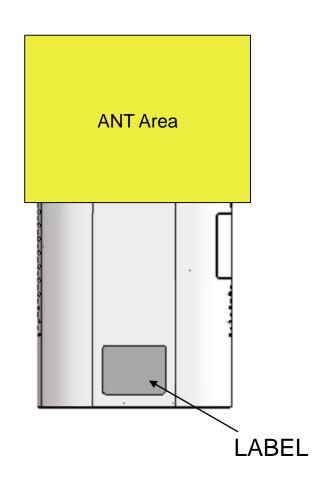


Unit: mm

## **IDU Bracket Position**









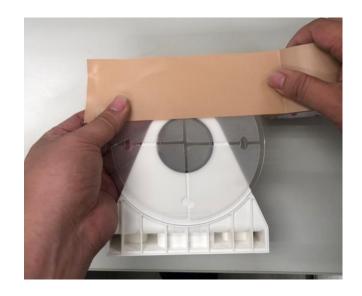
# **IDU Gecko Tape Preserving/Re-Attaching Process**

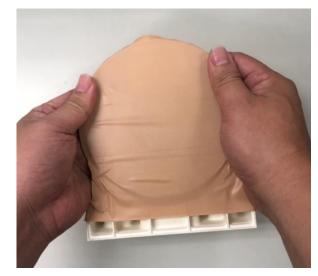


## **Gecko Tape Plate Removing and Preserving Process**



**Step1.**Peel gecko tape plate off from the top rib (Peel it slowly to avoid deformation/ravage)





**Step2.**Attach tape\* to cover gecko tape completely. (this step is to make sure the gecko tape surface will not get dirt)



Transparent tape

Duct tape 1

Duct tape 2

\*WNC has tried these 3 types of tape for aging test, all of these could be used, and would not ravage the micro fiber structure on Gecko Tape.

## **Gecko Tape Plate Re-attach Process**





Step2. Slowly remove the tape\*



Step3. Use another tape\* to clean surface dirt again



Step4. Attach the gecko tape plate completely



Step5. Install the CPE

Step1.

Use Alcohol (pad) to clean the window

