BiPAC 4700ZU(L)

4G LTE Outdoor (VPN) Router

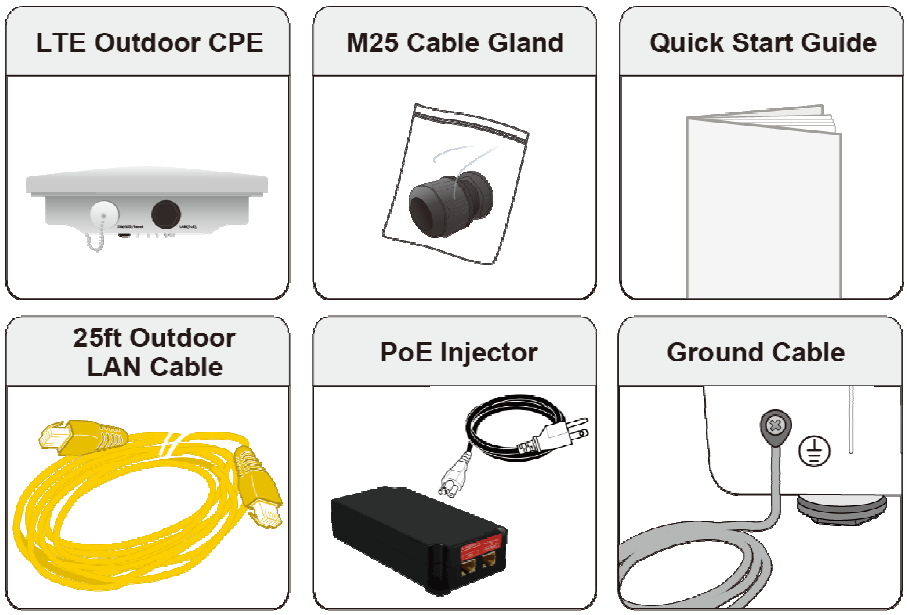
* Only BiPAC 4700ZU support VPN feature

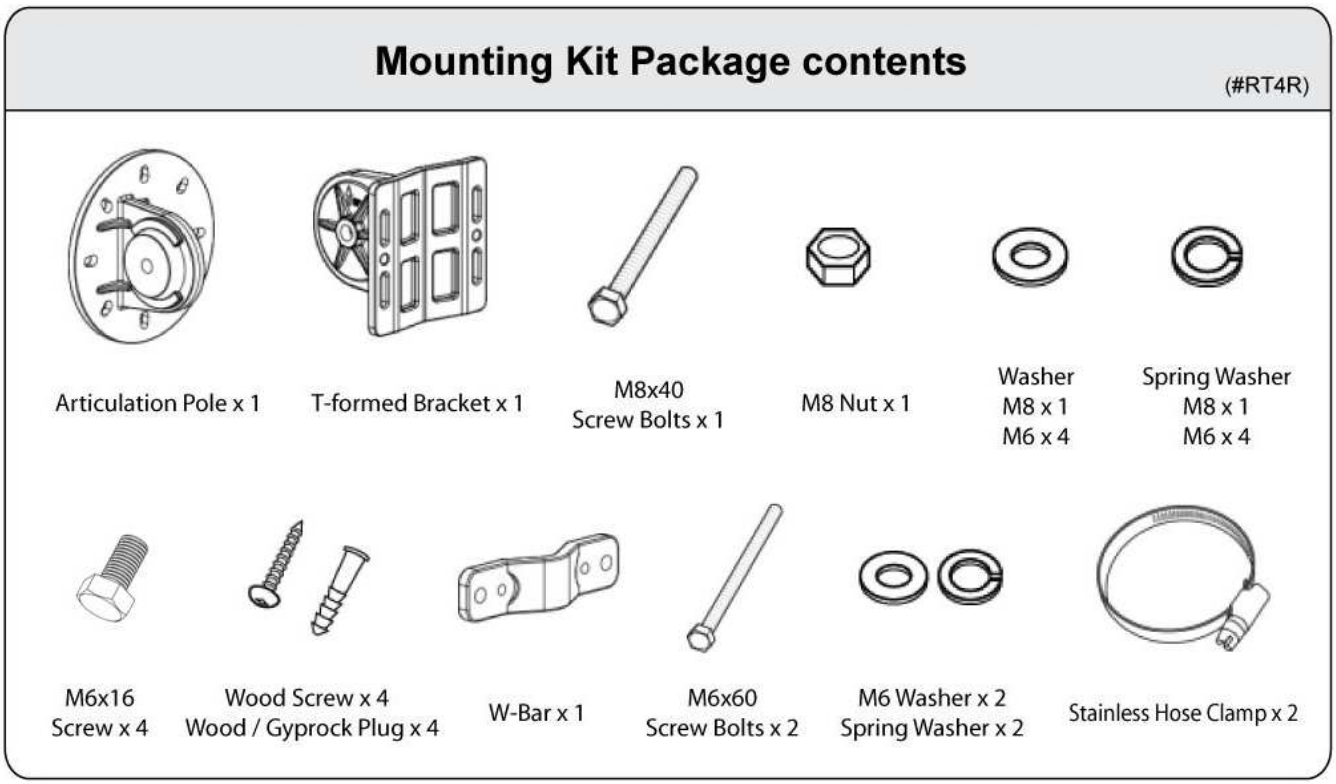
Quick Start Guide

PLEASE READ THE QUICK START GUIDE AND FOLLOW THE STEPS CAREFULLY. THIS QUICK START GUIDE WILL HELP YOU INSTALL THE DEVICE PROPERLY AND AVOID IMPROPER USAGE. IF YOU NEED MORE INFORMATION ON THIS SOFTWARE CONFIGURATION, PLEASE REFER TO THE ON-LINE USER MANUAL.

Package Contents

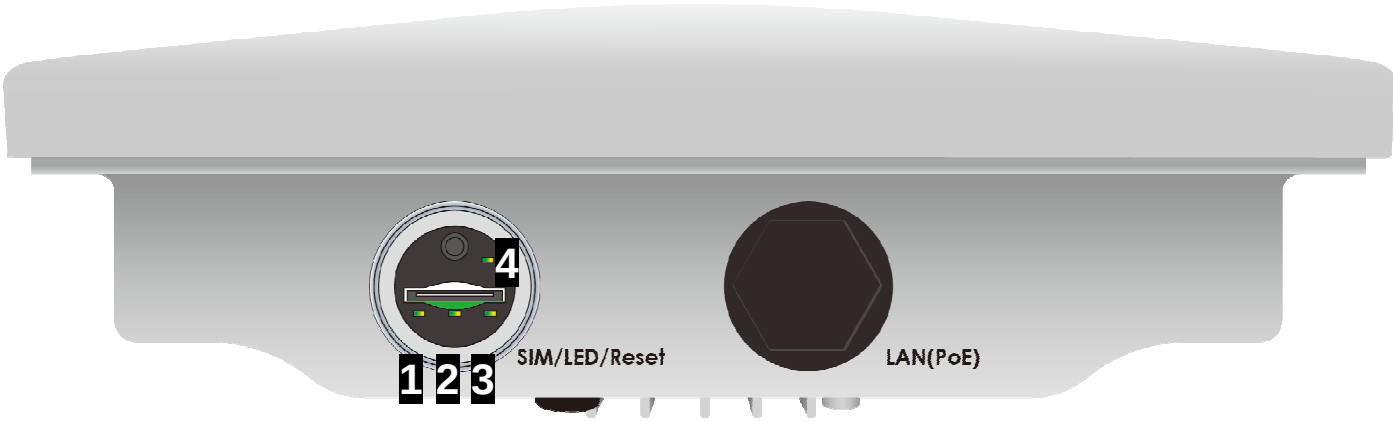
- **BiPAC 4700ZU(L) 4G/LTE Outdoor (VPN) Router**
- **M25 Cable Gland**
- **This Quick Installation Guide**
- **Outdoor LAN Cable**
- **Gigabit Power-over-Ethernet (PoE) Injector**
- **Grounding Wire**
- **Mounting Kit**





- ***Please follow Router Installation Instructions to power on your ODU, Never disassemble or modify this product, tampering with this product may result in WARRANTY VOID.***
- ***This equipment should be installed and operated with minimum distance 20cm away from your body.***

Hardware Overview



CONNECTORS	DESCRIPTION
SIM / LED / Reset	Insert the SIM card into the SIM slot. Press the reset button to reset device or restore to factory default settings.
Gigabit LAN(PoE)	Connect with the supplied PoE injector, 802.3at compliant, using an Ethernet cable.

LED Description:

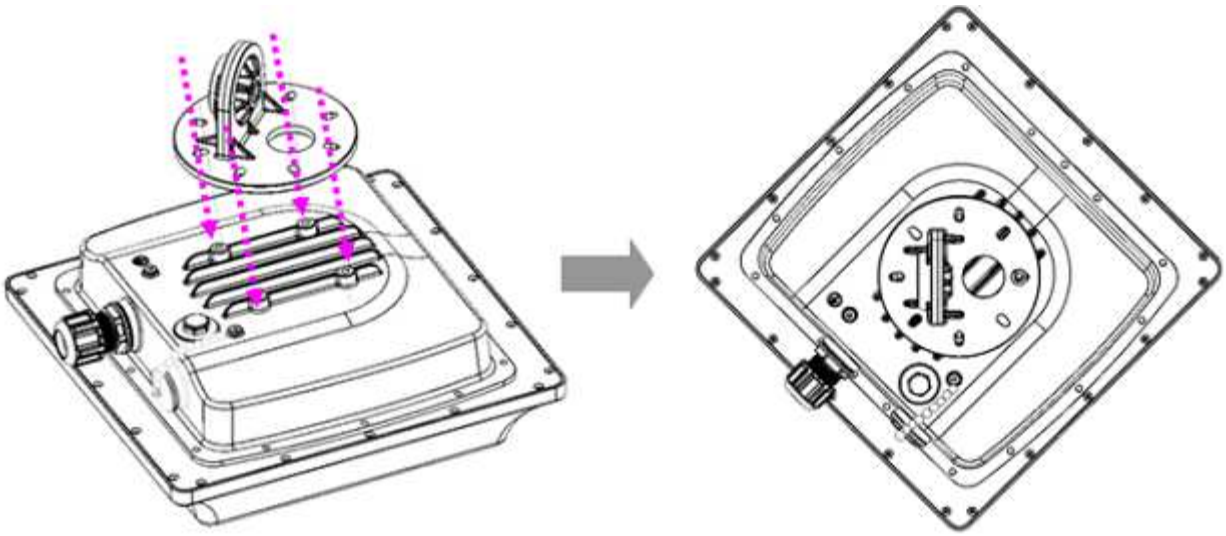
LED		STATUS	DESCRIPTION
1	**Power**	Orange	System is either in initial startup phase or has boot failure
		Green	System is up and ready
		Off	No input power
2	**LAN(PoE)**	Green	Transmission speed is at Gigabit speed (1000Mbps)
		Orange	Transmission speed is at 10/100Mbps
		Blinking	Data being transmitted/received
		Off	No device is being connected
3	**Internet**	Green	IP connected and traffic is passing thru the device
		Orange	IP request failed or System is in initial booting phase
4	**3G/4G-LTE (Received Signal Strength Indicator)**	Green	RSSI greater than -69 dBm. Excellent signal condition
		Green Flashing quickly	RSSI from -81 to -69 dBm. Good signal condition
		Orange Flashing quickly	RSSI from -99 to -81 dBm. Fair signal condition.
		Orange Flashing slowly	RSSI less than -99 dBm. Poor signal condition.
		Orange	No signal. 4G_LTE module is still in connected mode
		Off	No LTE module or LTE module fails

Mounting Kit Installation

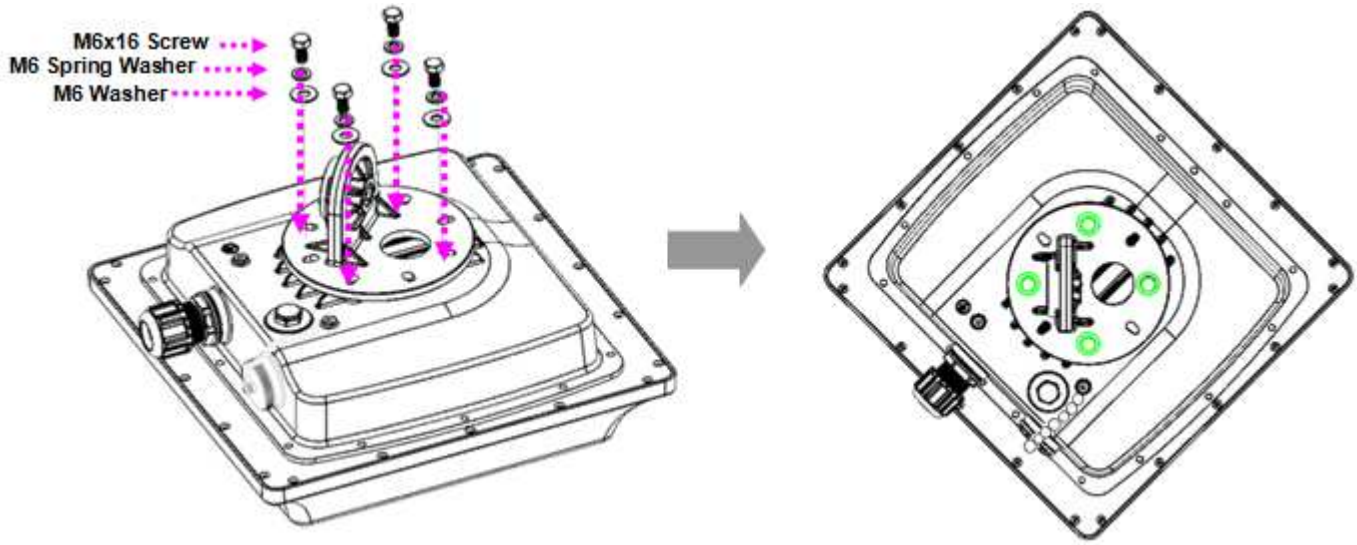
1. Attach the Articulation Pole to the Enclosure

Attach the articulation pole to the back of the BiPAC 4700ZU(L) enclosure using the supplied **M6 screws**, **M6 spring washers** and **M6x16 screws** which are included in the mounting kit.

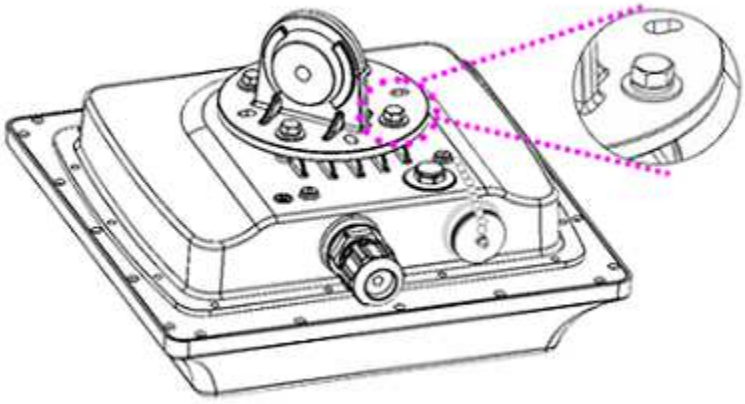
Step 1:



Step 2:



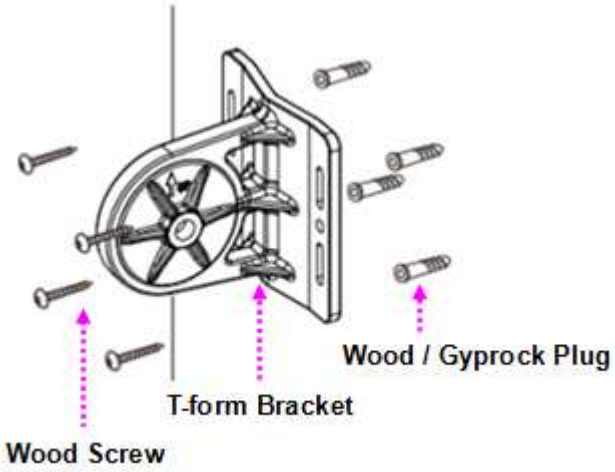
Step 3: Use Wrench to tighten or loosen the bolt(s).



2. Wall or Pole Mounting

2.1 Mounting on Wall

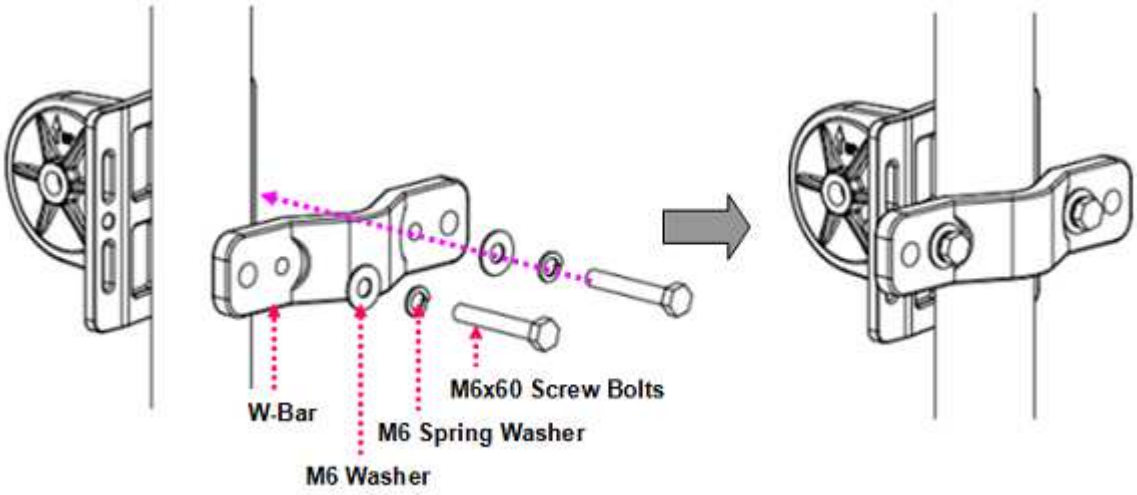
Fix the T-formed Bracket to the wall by using wood screws and Gyprock plugs.



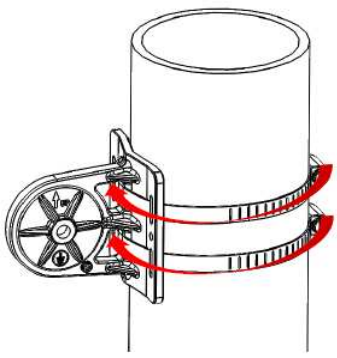
2.2 Mounting on a Pole

2.2.1 Mounting for pole 1.5” (38mm) to 3”(80mm)

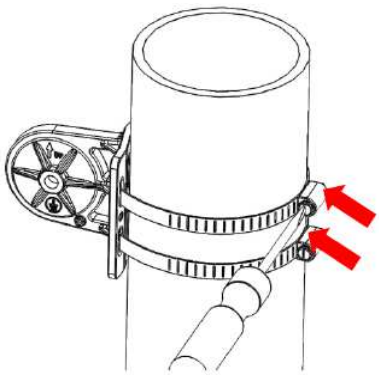
Attach the T-formed Bracket and the W-bar to the pole then use **M6x60 bolts**, **M6 spring washers** and **M6 washers** to fix the mounting kit onto the pole.



2.2.2 Mounting for pole 3” (80mm) or above



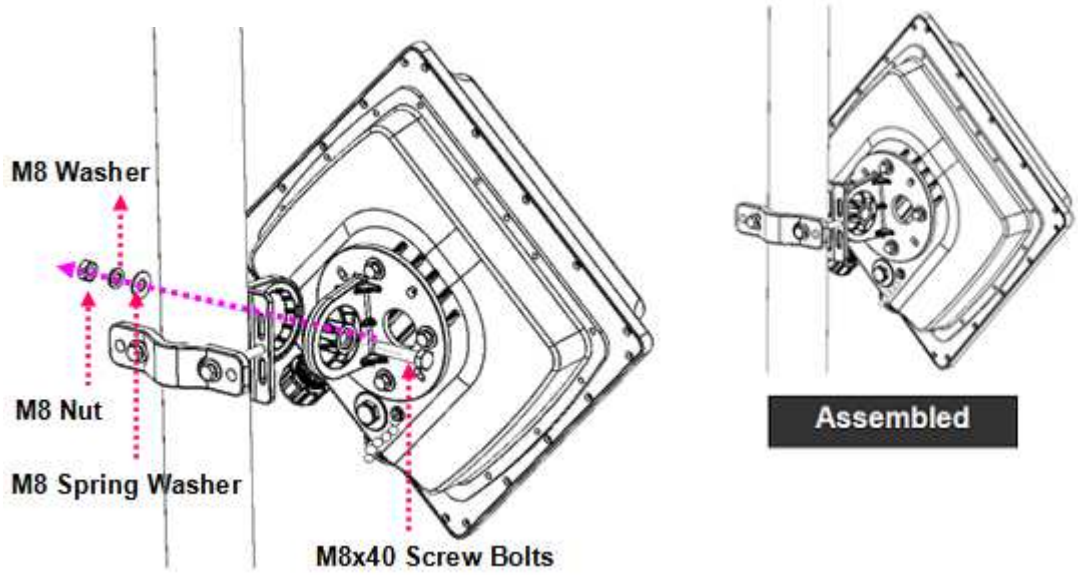
Use the stainless hose clamps through the T-formed Bracket.



Fix the T-formed Bracket to the pole by using the supplied stainless hose clamps. Use a flat-head screwdriver to turn the head of the screw clockwise to tighten it.

3. Install the Articulation Pole with the T-formed Bracket

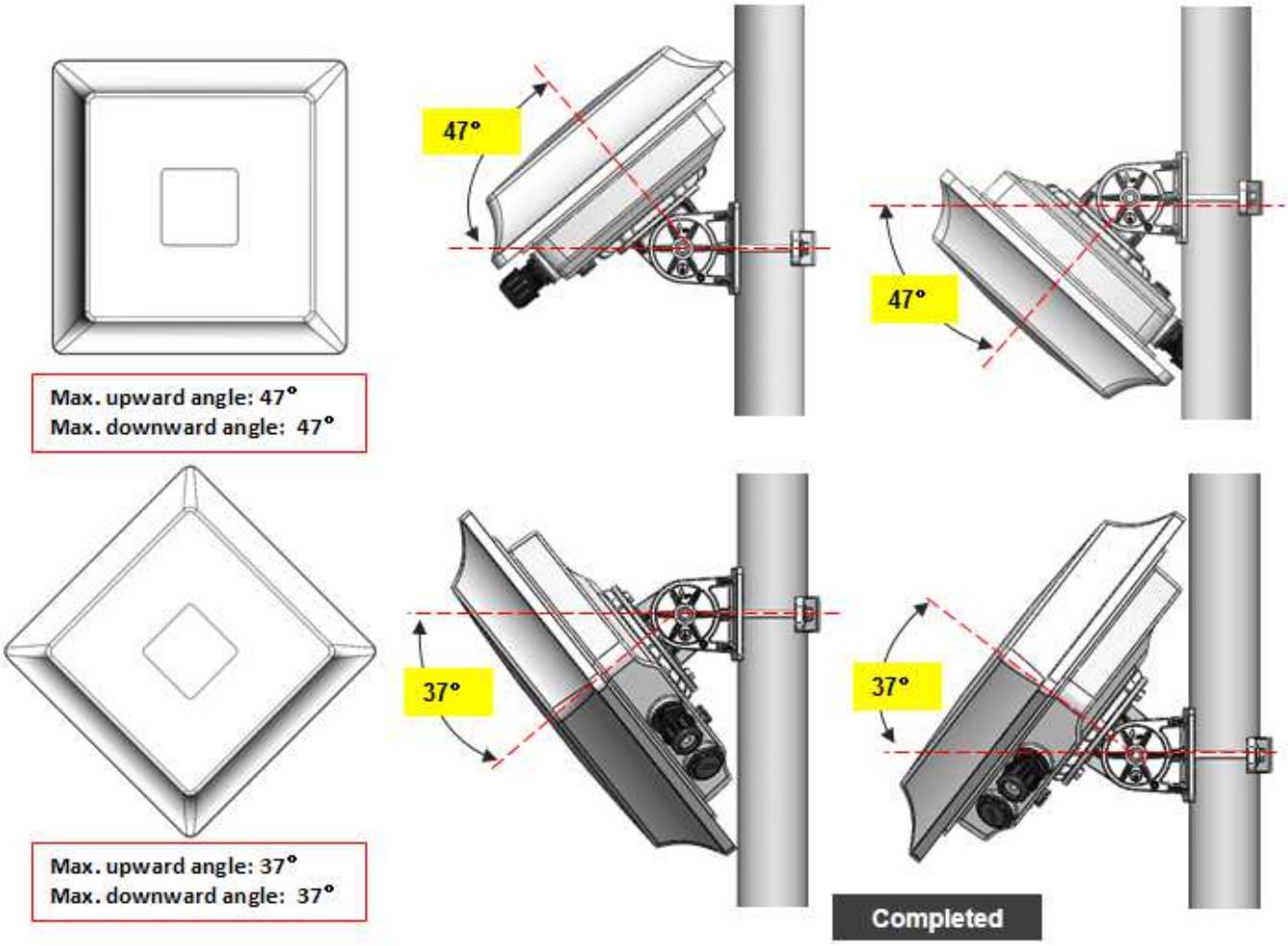
Attach the articulation pole (BiPAC 4700ZU(L) enclosure) to the T-formed bracket using the supplied **M8 nut**, **M8 spring washer**, **M8 washer** and **M8x40 screw bolts**.



4. Position Adjustment

Find the location and best angle for getting the strongest signal from the base station. The BiPAC 4700ZU(L) must be directed towards the nearest base station.

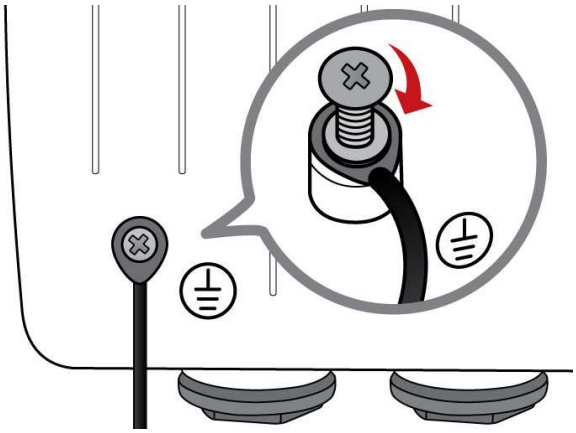
Adjusting the router position to get a better reception and/or fine-tuning the router orientation (45-degree angle position or in horizontal/vertical position) to have the best signal strength.



Router Installation Instructions

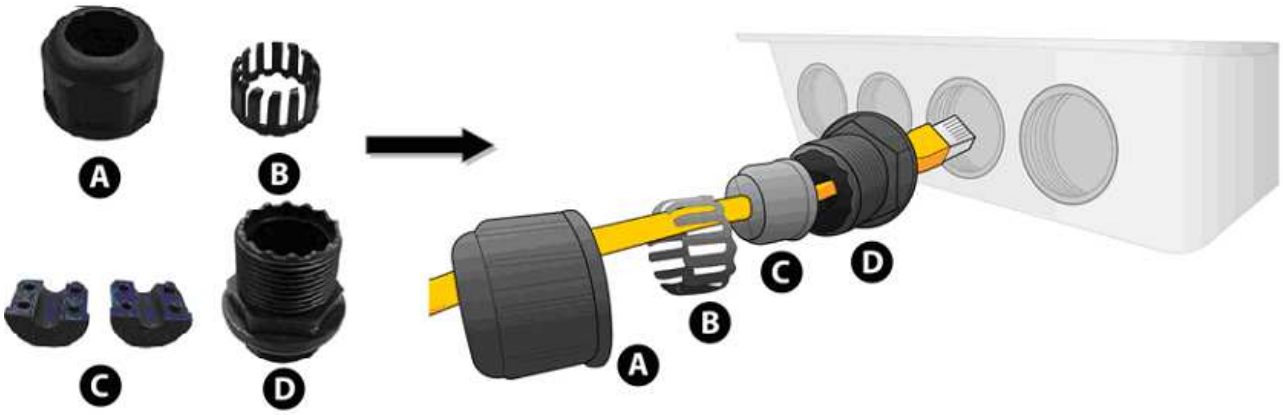
1. Grounding the BiPAC 4700ZU(L) to Complete the Installation

Attach the grounding wire to the BiPAC 4700ZU(L) and tighten the screw



2. Power on your BiPAC 4700ZU(L)

Step 1: Assemble M25 cable gland. Unscrew the LAN (PoE) port and insert the supplied outdoor Ethernet cable (RJ-45) through material A-D, and then connect the RJ-45 Ethernet cable into the LAN (PoE) port.



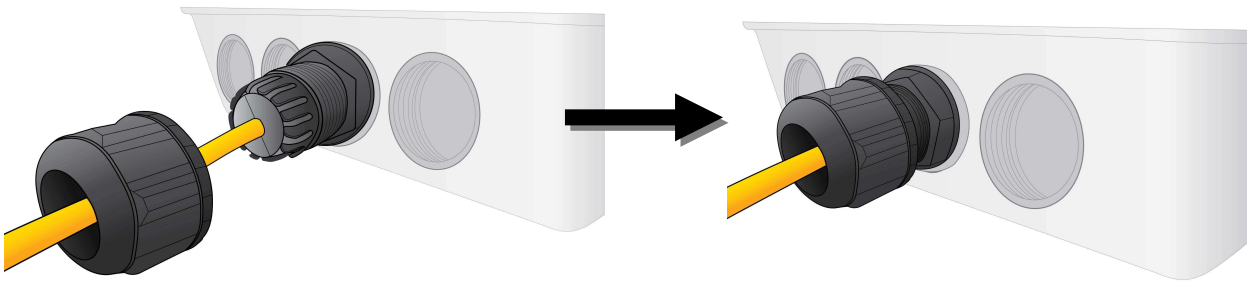
Step 2:

3.1: Insert Ⓒ at the back end of Ⓓ

3.2: clip Ⓑ on Ⓒ

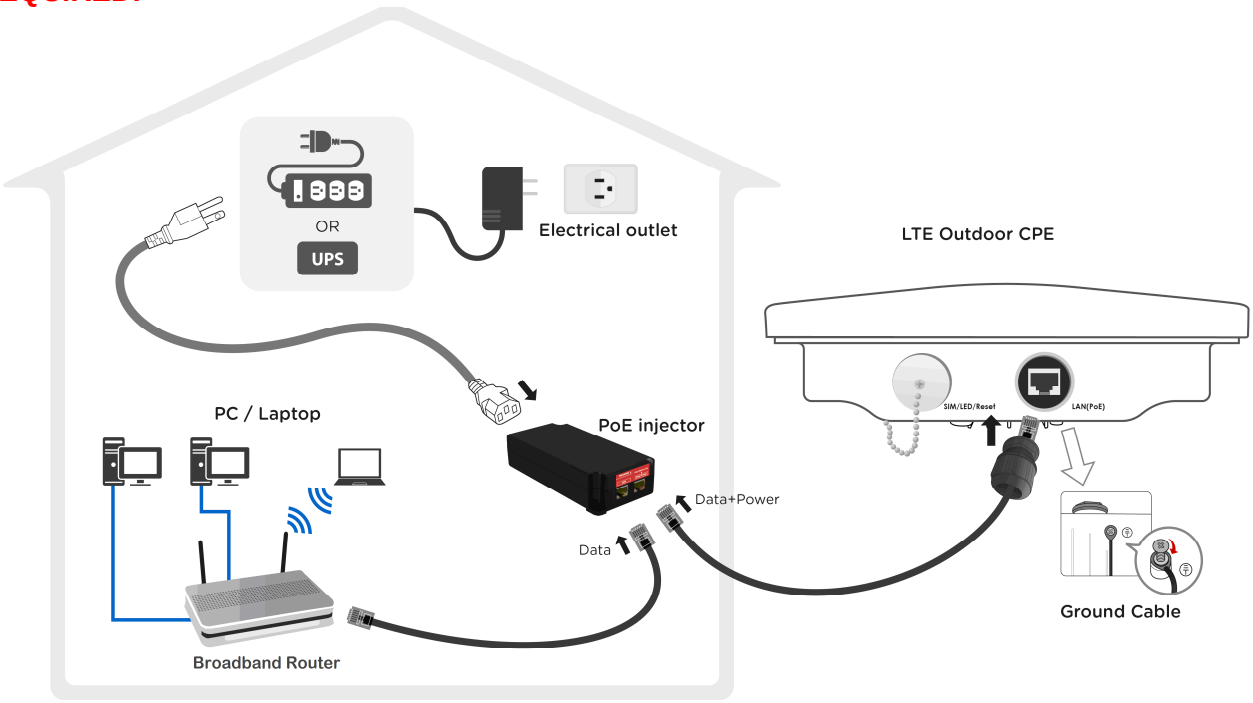
3.3: keep Ⓑ close to Ⓓ

3.4: then tighten Ⓐ.



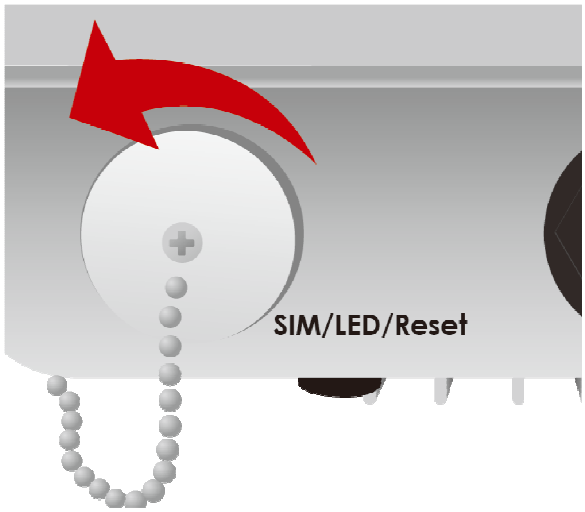
Step 3: Insert the other end of outdoor Ethernet cable (RJ-45) to the supplied Gigabit PoE injector **Data+Power** port. Connect another Ethernet cable (RJ-45) directly to the **Data** port and the other end of cable to a switch or broadband router.

IMPORTANT: It is recommended to put the Gigabit PoE Injector on an UPS or Surge Protector. Use the supplied grounding wire to ground your BiPAC 4700ZU(L) ODU is REQUIRED!

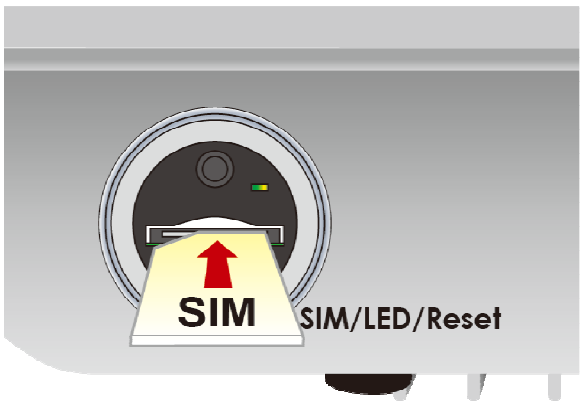


3. Set up your 4G/LTE Internet Connection

Step 1: Unscrew the cap of SIM card slot.



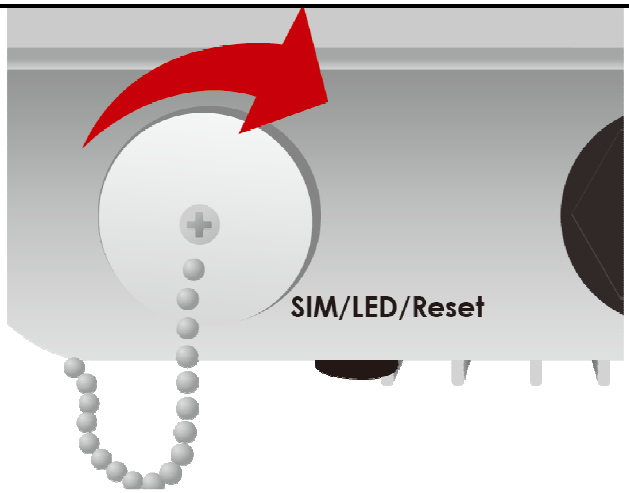
Step 2: Slide the SIM card with the mental contacts (gold plate) facing down to the SIM slot then push it all the way in until you hear the clicking sound.



- ***It is recommended to use an Industrial-grade SIM card.***
- ***MUST use a Mini-SIM (2FF) Card with dimensions of 25x15x0.76mm.***

Step 3: Screw the cap back tightly.

NOTE: Please power off the device before inserting or removing the SIM card.



Step 4: Login to your BiPAC 4700ZU(L)

The default IP of modem is **192.168.1.254** with subnet 255.255.255.0. Make sure the attached PC to this router is in the same subnet and has an IP address in the range between 192.168.1.1 ~ 192.168.1.253.

Open a web browser and type **http://192.168.1.254** in the URL address bar.

URL Address bar: type http://192.168.1.254

The login prompt will appear. Input the default username (admin) and password (admin) for Account type, Administrator. ***<*This username / password may vary by different Internet Service Providers.>***

Please see the relevant sections of user manual for detailed instructions on how to configure your BiPAC 4700ZU(L).

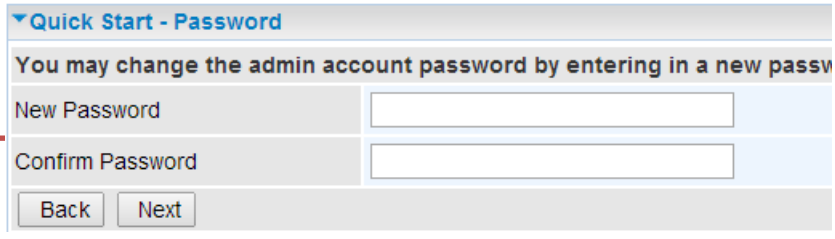
Step 5: Use the **Quick Start** wizard for fast Internet connection setups.

4.1 Change administration password: Setup a new password for "admin" account for device management. The default password is "admin". Click Continue to go on to the next step.
****The password may vary by different Internet Service Providers.***

New Password: assign a new, unique password

Confirm Password: re-enter the new password again

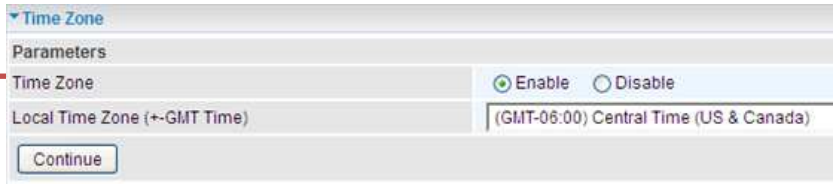
Next Step: click Next



4.2 Time Zone Configuration: Enable and select your Time Zone then click Continue to go on to the next step

Time Zone: select your time zone

Next Step: click Next



4.3 3G/4G LTE Internet Connection Setup: Fill out all relevant parameters provided by your ISP.

4.4 Saving Configuration Settings: The Setup Wizard has completed. Click **BACK** to make changes or correct mistakes. Click **NEXT** to save settings. If the Internet connection is not ready, please double check your 3G/4G LTE settings again.

Troubleshooting

1. **None of the LEDs are on when you turn on the Router.**

   Check the connection between the adapter and the router. If the error persists, you may have a hardware problem. In this case you should contact technical support.

2. **You have forgotten your Router login and/or password.**

   Try the default login and password, please refer to User Manual or consult with your Internet Service Provider. If this fails, you can restore your router to its factory settings by holding the Reset button on the back of your router for 6 seconds or more. <***This username / password may vary by different Internet Service Providers.>**

3. **Can't ping any PCs on the LAN.**

   Check the LAN(PoE) LED on the Router. The LED should be on for the port that has a PC connected. If it is off, check the cables between your Router and the PC. Make sure you have uninstalled any software firewall for troubleshooting. Verify that the IP address and the subnet mask are consistent between the router and the workstations.

Product Support and Contact Information

Most problems can be solved by referring to the **Troubleshooting** section in the user manual. If you cannot resolve the problem with the **Troubleshooting** chapter, please contact the dealer where you purchased this product.

Contact Billion

WORLDWIDE

http://www.billion.com

On-line Manual

http://support.billion.com/_Internet/usermanual/BiPAC4700ZU_4700ZUL.pdf