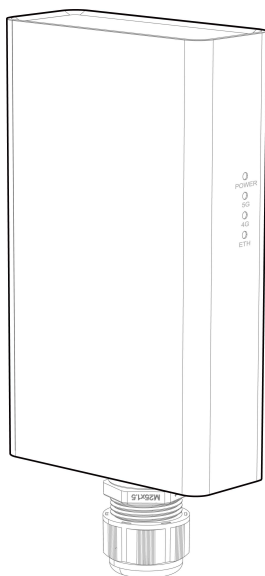


# SRT853V

## 5G Outdoor CPE

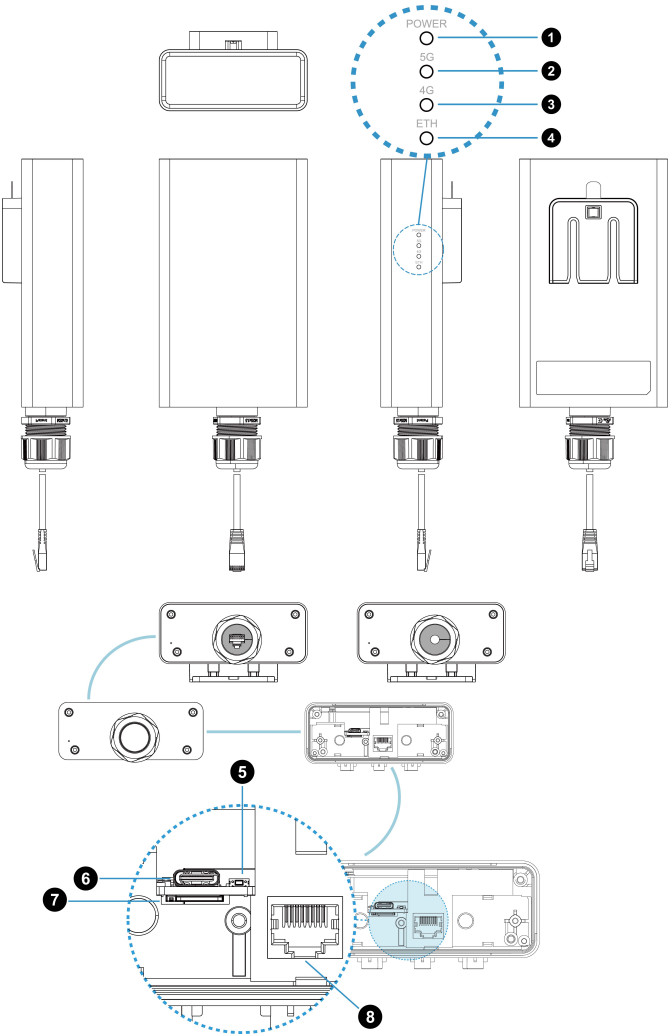
### Quick Installation Guide



# Device Overview

Your device is for outdoor use. Computer, router or switch can be connected to the device to access the 5G/4G Internet.

The following figure is only for your reference. The actual product may be different.



**NOTE:** The pictures in the document are used to guide users to install/use, and may differ from the actual product. The specific details shall be based on the actual product.

1. Power Indicate Led

4. Ethernet Port Indicate Led

7. 4FF, nano-SIM Card Slot
2. 5G Indicate Led

5. Reset Button

8. POE Port
3. 4G Indicate Led

6. USB Type-C Port

Indicator reference.

| Item                             | Status         | Description                                                                  |
|----------------------------------|----------------|------------------------------------------------------------------------------|
| Power<br><br>monochrome<br>Green | Green Steady   | CPE powered on.                                                              |
|                                  | Green Blinking | Once per second: Restoring factory settings, or ongoing upgrade.             |
|                                  | Off            | CPE powered off or fault.                                                    |
| 5G<br><br>Tricolor<br>RGB        | Blue Steady    | Connected to 5G network of strong signal.                                    |
|                                  | Green Steady   | Connected to 5G network of good signal.                                      |
|                                  | Green Blinking | Ongoing upgrade.                                                             |
|                                  | Yellow Steady  | Connected to 5G network of weak signal.                                      |
|                                  | Red Steady     | SIM card is abnormal (SIM/PIN Locked but not unlocked, or without SIM card). |
|                                  | Red Blinking   | Not connected to any network or searching for signals.                       |
|                                  | Off            | Only connected to 4G network.                                                |
| 4G<br><br>Tricolor<br>RGB        | Blue Steady    | Connected to 4G network of strong signal.                                    |
|                                  | Green Steady   | Connected to 4G network of good signal.                                      |
|                                  | Green Blinking | Ongoing upgrade.                                                             |
|                                  | Yellow Steady  | Connected to 4G network of weak signal.                                      |
|                                  | Red Steady     | SIM card is abnormal (SIM/PIN Locked but not unlocked, or without SIM card). |
|                                  | Red Blinking   | Not connected to any network or searching for signals.                       |
|                                  | Off            | Only connected to 5G SA network.                                             |
| ETH<br><br>1G                    | Green Steady   | Connected to ethernet device.                                                |
|                                  | Green Blinking | Communicating.                                                               |
|                                  | Off            | Not connected to the ethernet device.                                        |

Key description.

| Item                   | Status         | Description                                                                                                                                                                     |
|------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reset Button (Pinhole) | Device Turn On | <ul style="list-style-type: none"><li>Press for more than 3-10s to reboot the device.</li><li>Press for more than 10s to restore the device to factory configuration.</li></ul> |

**Note:** It’s suggested to select a location with best signal quality to install (strong 5G/4G signals).

Installation Materials and Tools

Packing list: Before installing the ODU, verify that you have all the items listed in the packing list. If any of the items is missing or damaged, contact your ODU device vendor.

| No. | Item                                                          | Qty |
|-----|---------------------------------------------------------------|-----|
| 1   | 5G Outdoor CPE                                                | 1   |
| 2   | PoE Adapter                                                   | 1   |
| 3   | Hose Clamp                                                    | 1   |
| 4   | Mounting Bracket with 2 Expansion Screws                      | 1   |
| 5   | Waterproof Network Cable Connectors (for flat & round cables) | 2   |
| 6   | Quick Start Guide                                             | 1   |
| 7   | CE DOC                                                        | 1   |

If you need to install mounting kits on wood materials, prepare screws (recommended model: ST4.2 with length ≥ 25 mm).

An outdoor Ethernet cable requires a PVC conduit and must be installed far away from the parapet and lightning strip (recommended distance: more than 0.5 m).

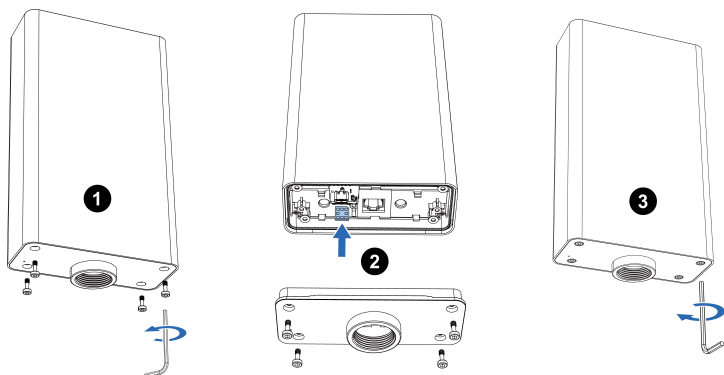
If an Ethernet cable is routed within a street lamp pole, no PVC conduit is required.

# Installing the SIM Card

Your ODU only supports the nano-SIM card. You can get a standard nano-SIM card from your service provider.

Follow the instructions as below to install the SIM card:

- a. Use a hexagon bar to open the SIM Card cover.
- b. Insert the SIM card into card slot in the correct position.
- c. Use a hexagon bar to close the SIM Card cover.



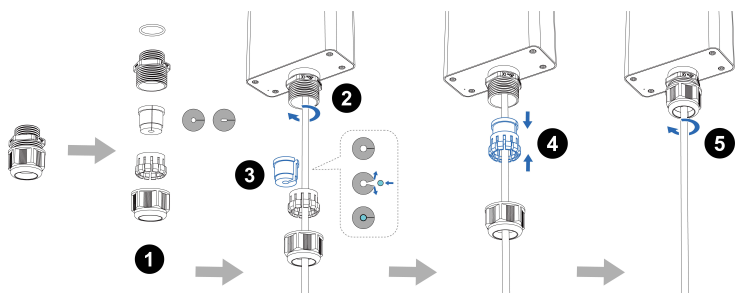
## Note:

- Do not bend or scratch your SIM card, and avoid exposing the SIM card to static electricity, water or dirt.
- Tighten screws to prevent water from entering the ODU.

# Cable Installation Steps

**Note:** The main body of the waterproof connector is identical, only the inner rubber grommet (hole shape) differs. Please be sure to choose the corresponding sealing grommet based on the included network cable (round/flat).

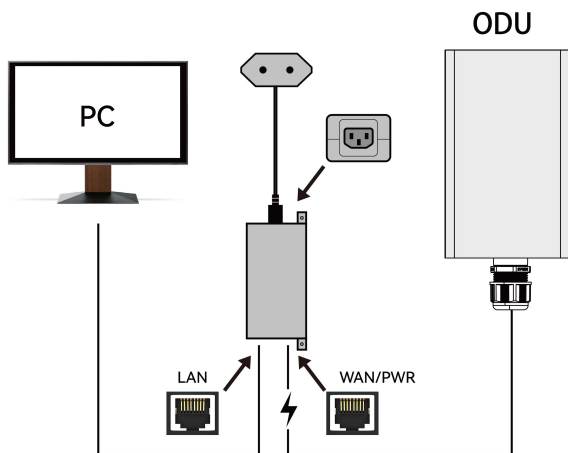
- a. Align and insert the cabled connector into the device port, following the arrow direction.
- b. Hand-tighten the outer nut clockwise for a preliminary fix.
- c. Fully tighten the nut clockwise until the connector is firmly locked in place.
- d. Confirm a secure, non-loosening connection to complete the installation.



**NOTE:** This package does not include an Ethernet cable. Please prepare one separately. The package comes with dedicated rubber grommets for round and flat cables. The round-cable grommet is pre-installed at the factory. If you are using a flat cable, please first remove the round grommet and replace it with the flat-cable grommet.

## Application Scenario

Connect cables and power on the device as below, and then your PC can access the internet.



### Note:

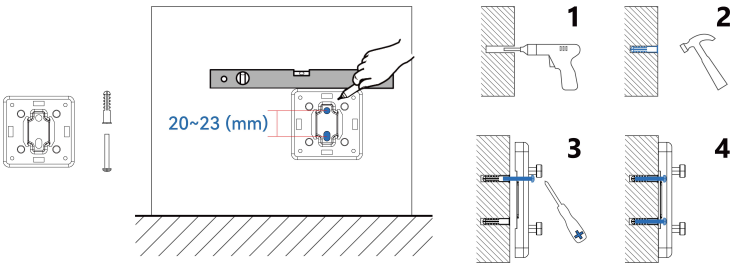
- Automatic IP address obtaining needs to be configured for PCs/user terminals.
- The PoE (or WAN/PWR) interface can be connected to only the ODU. This interface may damage the PCs or other devices.
- The ODU must be powered on within 24 hours after unpacking.
- The ODU must not be powered off for 24 hours or longer during maintenance.
- Otherwise, condensation may occur naturally, and may cause short circuit or rust.

# ODU Installation

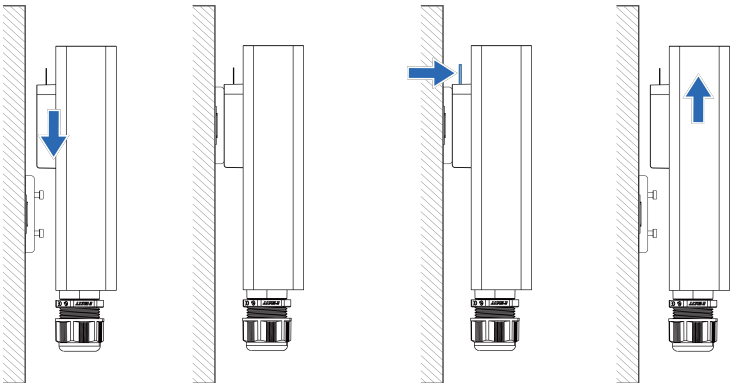
Install mounting kits.

## Installation scenario 1: mounting on the wall

- Align the base against the wall, use a level to calibrate the horizontal position of the mounting accessory, then mark the anchor point locations with a marker pen.
- Drill a  $\phi 8$  mm hole at the marked point to a depth of at least 60 mm, thoroughly remove all dust and debris from the hole, then tap the wall plug into the hole until it is flush with the surface.
- Align the base with the wall and secure it using screws (ST4.8  $\times$  50 mm). Tightening torque: 2.5–3.5 N·m.

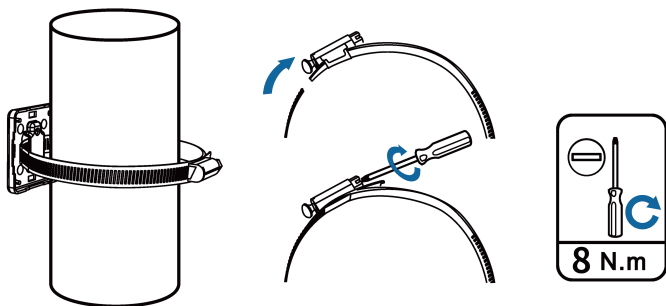


- Align the mounting slot with the guide rail and press down. When you hear the click sound, the installation is in place. You can press the buckle on the mounting kits and pull the device up to remove it.

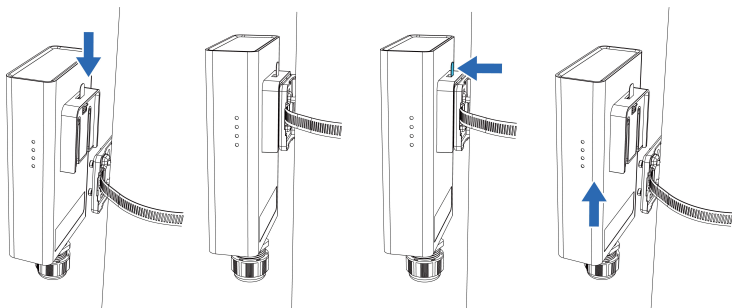


## Installation scenario 2: mounting on a pole

- Pass the cable tie through the base, wrap it around the pole, thread it through the locking buckle and pull snug, then tighten the base screws with a flathead screwdriver to 8 N·m.



- b. Align the mounting slot with the guide rail and press down. When you hear the click sound, the installation is in place. You can press the buckle on the mounting kits and pull the device up to remove it.



## Configuration the Device via Website

1. Make sure your device, such as PC, is connected to the ODU via RJ45 cable.
2. Open your browser on the PC, and input <http://192.168.200.1> in the address bar.
3. Enter username and password, and click “Login”, then you can access the WebUI. The administrator has the right to check and modify configuration permission.

### Note:

- You can find the default username and password printed on the device label on the back of the device.
- It's strongly suggested to change the default login password of the GUI to prevent unauthorized users from changing the device's settings.

IP address: **192.168.200.1**

Username: **user**

Password: **8-digit random password**

## Q&A

### **Q: What to do if there is no service?**

A: The possible reasons are unstable network signal or a hardware problem.

You can try the following solutions:

1. If your device inside a building or near a structure that may be blocking the signal, change the position or location of the device. For example, try moving the device close to opposite direction.
2. Check the hardware for any loose parts or damage.

### **Q: What if my SIM card gets locked out?**

A: If the SIM card is locked, log in to the GUI (<http://192.168.200.1>) and input the PIN or PUK code you received from your service provider.

Note: If you entered the incorrect PIN code 3 times, the PUK will be needed, and if the wrong PUK is entered 10 times, the SIM card will be locked permanently.

### **Q: Data connection failed.**

A: You may be on a limited network coverage area, try to move to a different location or a better network coverage area.

### **Q: What If the device is not responsive?**

A: You can try restoring the device to its default factory settings.

## Safety Information

Before using and operating this device, read the following precautions carefully to ensure optimal device performance and avoid dangers or violation of laws and regulations.

### **Wireless Devices**

Do not use this device in areas where the use of wireless devices is prohibited as it may interfere with other devices or present other hazards.

### **Impact on Medical Equipment**

Radio waves generated by the device may interfere with the operation of implanted medical appliances or personal medical appliances, such as the pacemakers, cochlear implants, and hearing aids. If such appliances are used, consult the appliance manufacturer about the restrictions for using the device.

## **Areas with Inflammables and Explosives**

- Do not use the device where inflammables or explosives are stored, for example, in a gas station, oil depot, or chemical plant. Otherwise, explosions or fires may occur. In addition, follow the instructions indicated in text or symbols.
- Do not store or transport the device in containers with flammable liquids, gases, or explosives.

## **Children Safety**

Keep the device, its accessories, and plastic bags out of the reach of children. Otherwise, they may damage the device and its accessories by mistake, or they may swallow the small components of the device or put their heads into the plastic bags, causing suffocation or other dangerous situations.

## **Accessory Requirements**

NOTE: The accessories of the device include the power adapter, cables, and mounting kits.

Use only the accessories supplied by the device manufacturer. Otherwise, the device may be faulty, fail, or even cause fires. Violating the warranty for the device or the laws and regulations related to telecommunications terminals may cause injuries.

## **Operating Environment**

- Use the CPE at an ambient temperature of  $-40^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  (with sunlight exposure) or  $-40^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  (without sunlight exposure). An overly high or low ambient temperature may cause device faults.
- Use the CPE at an ambient humidity of 5%RH to 95%RH (non-condensing). An overly high or low ambient humidity may cause device faults.
- The power supply voltage must meet the requirements for the input voltage of the device.
- Keep the device away from appliances that generate strong electromagnetic fields, such as transformers or microwaves.
- When using the device indoors, avoid dusty, damp, or dirty environments. Using the device in these environments may result in circuit malfunctions.
- Keep the device stable to avoid personal injury or device damage.  
Keep the device away from heat sources, flammable materials, or exposed fire sources.
- Do not install the device in areas exposed to acidic, alkaline, or other corrosive gases.
- Keep the device and accessories in a well-ventilated area. Do not enclose or cover your device with towels or other objects. Do not place the device in a container with poor heat dissipation, such as a box or bag. Poor heat dissipation may damage the device.
- During thunderstorms, power off your device and remove all cables connected to it to protect against device faults or lightning strikes.
- Do not place any object (such as a candle or a water container) on the device to avoid risks caused by liquid leakage. If any foreign object or liquid enters the device, stop using the device immediately, power it off, remove all the connected cables, and then contact your operator.
- In the use of the device, do not touch the cable connectors.

- The device temperature increases after the device runs for a while. If the device is overheated, avoid prolonged contact. Otherwise, minor burn symptoms, such as red spots and darker pigmentation, may occur.
- Do not scratch or damage the device shell. Paint flaking or peeling may cause skin irritation or malfunction of the device. If paint flakes and peels drop into the host, a short circuit may occur.

## **Cleaning and Maintenance**

- During storage, transportation, and operation of the device, keep it dry and prevent it from colliding with other objects.
- If the device is not going to be used for an extended period of time, power it off and remove all cables connected to it.
- Keep the power plug clean and dry to prevent electric shocks or other dangers.
- If any exception occurs, for example, if the device emits any smoke or unusual sound or smell, stop using the device immediately, power it off, remove all the cables connected to it, and then contact your operator.
- Do not step on, pull, or excessively bend any cable. Otherwise, the cable may get damaged, causing malfunction of the device.
- Do not use damaged or aged cables. Using such cables may cause electric shocks or fire hazards.
- Before cleaning or maintaining the device, stop using it, power it off, and then remove all cables connected to it.
- Do not place magnetic stripe cards, such as credit cards and phone cards, or floppy disks, near the device for extended periods of time. Otherwise, the magnetic stripe cards may be damaged or the stored data in the floppy disks may be lost.
- Clean the device shell with a soft, dry cloth. Do not use any chemical detergent, powder, or other chemical agents to clean the device.
- Do not modify the device's design, safety features, or performance without authorization.
- When using the CPE, observe all applicable laws and regulations and respect the legal rights of other people.

## **Environmental Protection**

- Do not dispose of the device and its accessories in a garbage can.
- Dispose of the device according to the local regulations on disposing of packing materials and abandoned devices. Support proper collection and recycling.

## **RoHS for Environment Protection**

This device complies with RoHS Directive 2011/65/EU and equivalent regulations in other countries.

## **RF Exposure Information**

This device meets the EU requirements and the International Commission on Non-ionizing Radiation Protection (ICNIRP) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. This device should be installed and operated with a minimum of 20cm spacing to any person at all times.

## CE Declaration of Conformity

Hereby, MeiG Smart Technology Co., Ltd declares that this radio equipment is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:  
<https://en.meigsmart.com/page/cprz02.html>



For the full text of the EU declaration of conformity. This product can be used across EU member states.

## WEEE Recycling:



This product should not be treated as household waste, instead it should be handed over to the applicable.

**CAUTION:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

## Frequency Bands and Power

Frequency bands in which the radio equipment operates: Some bands may not be available in all countries or all areas. Please contact the local carrier for more details.

### 5G NR:

n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n71: 23+/-2.7dBm

n78: 26+/-2.7dBm

n75: RX only

### 4G LTE:

B1/B3/B5/B7/B8/B20/B28/B38/B40/B41/B42/B43/B71: 23+/-2.7dBm

B32: RX only

### Wi-Fi:

2.4GHz: 2400MHz ~ 2483.5MHz, ≤ 20dBm (EIRP)