



**GLOBAL TELECOM
ENGINEERING**

WE ENGINEER CONNECTIVITY

User Guide

TITAN 5100 5G Window CPE

Complete setup,
configuration,
and management guide.





FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



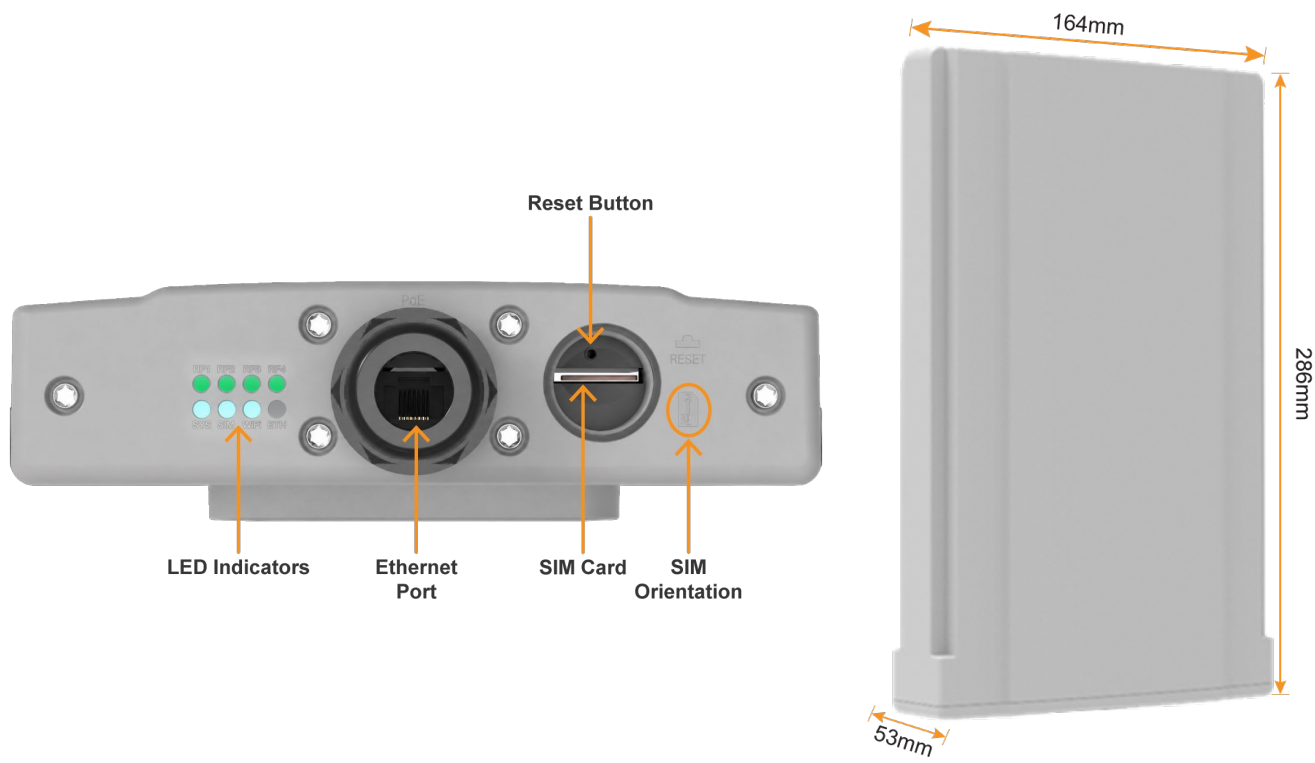
Watch a quick setup video

<https://glob-tel.com/quick-start-guides/titan-5100-quick-start-guide>



OVERVIEW

The TITAN 5100 is an innovative, patented 5G window- and wall-mounted CPE solution engineered to streamline fixed wireless access deployment for residential and SOHO environments. It delivers high-speed LAN connectivity for users requiring robust bandwidth and reliable multimedia data services in both enterprise and home settings. The device can also serve as a wireless fallback option, ensuring service continuity when primary connections are unavailable.



USER INTERFACE SPECIFICATION

Model	Description & User Interface
TITAN5100	• 1 RJ45 10/100/1000/2500M LAN port • SYS, MOD, ETH, Wi-Fi, RF (4 Signal intensity LEDs) • PoE DC 48V, Power < 18 Watts (Average) • Dimensions: 286 mm (L) × 164 mm (W) × 53 mm (D) • Weight: <2Kg • Operating Temperature: -40°C to 65°C • Storage Temperature: -40°C to 85°C



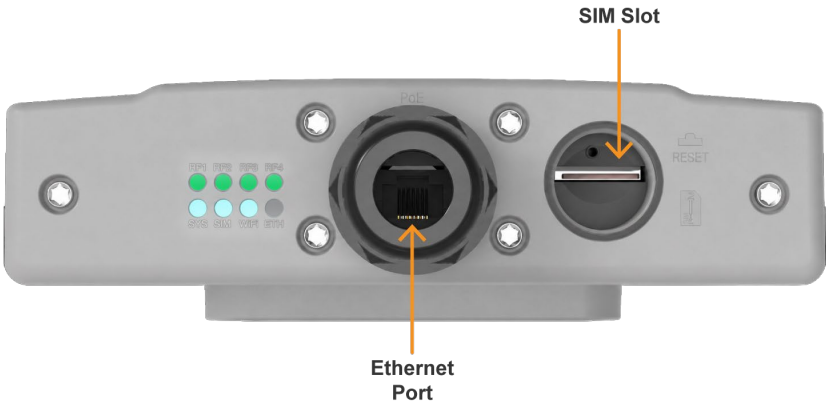
PACKING LIST AND CPE UNIT

Unpack the product contents carefully. Each product is shipped with the following items:

TITAN 5100 Device	PoE and Power Cord	Ethernet Cable	Window Mount Suction Cups	
				
Window/Wall Mount Secure 3M Adhesive Mounting Tape	Wall Mount Bracket (incl. 4 screws)	Pole Mount Bracket (incl. 4 screws and pole clamp)	Tamper-Proof Cover	Waterproof Seal Tape
				

If any items are missing, please contact your local distributor immediately.

INSTALLING THE EQUIPMENT



1. Open the SIM card cover, insert the SIM as illustrated. Press the SIM in, until you feel the spring catch it.
2. Connect one end of the ETH cable into the device's ETH port and the other end into the ETH port on the PoE.

Note: Ethernet port plug must be unscrewed and removed from where it connects to the device. This will reveal the Ethernet internal connection point.

3. Attach the power cable to the PoE and plug the device in.



The user should use SFTP CAT5E Ethernet cable and connect to the appropriate LAN port for computer connection.

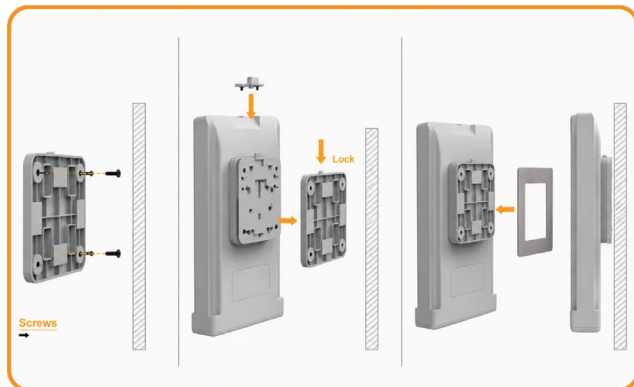


Mounting Options

Suction Cup Window Mount



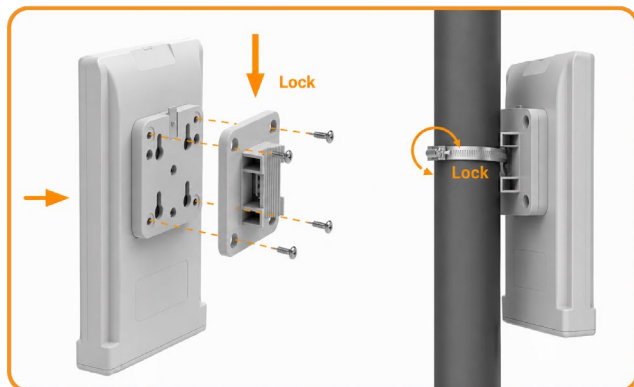
Window Mount



Bracket Wall Mount

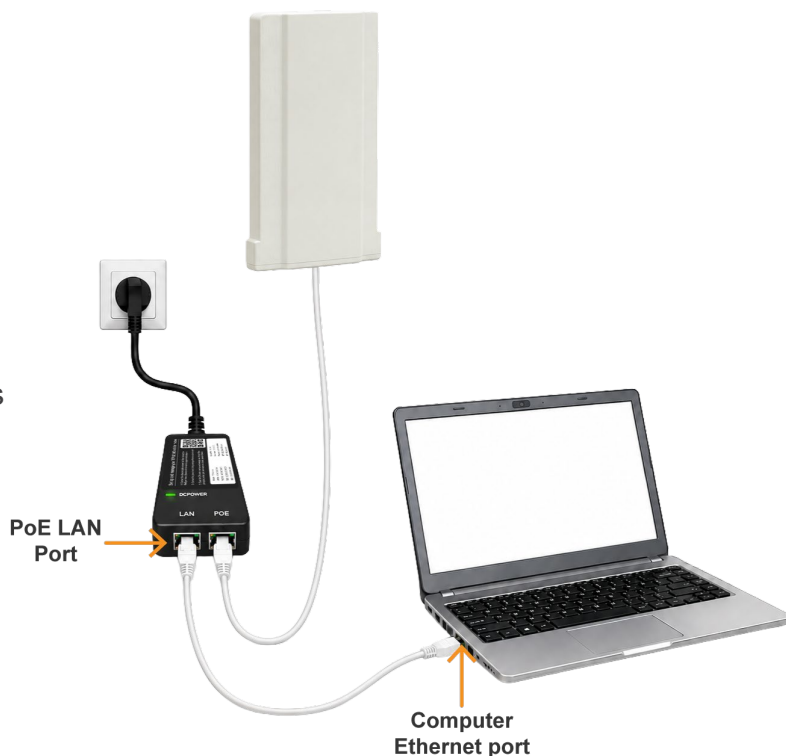


Outdoor Pole Clamp Mount



Connect the Device to your Computer

1. Use a **CAT5E S/FTP Ethernet cable**.
2. Connect one end to the **PoE LAN** port.
3. Connect the other end to the computer's **Ethernet** port.
4. **Ethernet cable not included.**





WEB LOGIN

It is recommended that you log in to the device by using a web browser from a PC that is connected to the device's LAN port.

To log in: Open a web browser and type: <http://192.168.0.1> in the address bar.

A window will pop-up requesting a password. Input the user login password and then click the “Login” button. After successfully logging in, the default home dashboard page for your router will appear.



The default username is **“user”** and default password is **“admin”**.
Note: Username and password are case sensitive.

The login form for the Global Telecom router. It features the Global Telecom logo at the top, followed by the text "GLOBAL TELECOM" and "WE ENGINEER CONNECTIVITY". Below this are two input fields: the first for the username, which is pre-filled with "user", and the second for the password, which is masked with six dots. At the bottom of the form is an orange "Login" button.

The Dashboard Summary shows the current status of your connection, including your WIFI SSID name and Password, network connection and other networking detail.

The dashboard summary page of the router. It has a top navigation bar with the Global Telecom logo and several status icons (Wi-Fi, Ethernet, Signal, etc.). Below the navigation bar is a menu with options: Summary, Operation Status, Firmware Update, Quick Setup, and Advanced Setting. The main content area is divided into four sections: Connection Status, WiFi Connection, NR Connection, and WAN Connection. The Connection Status section shows DL Data Rate, UL Data Rate, and Online Time, all at 0. The WiFi Connection section shows WLAN status as Up, SSIDs for 2.4G and 5G, Channels, Security (WPA-PSK/WPA2-PSK), and Password (GTC80D1B2). The NR Connection section shows Status as DISCONNECTED. The WAN Connection section shows Connect Mode as NAT, IP Address, Subnet Mask, and DNS Server.

There are Menu navigation sections across the top bar - Click to open these sections. Sub-menu sections will appear on the left side of the screen. Use these to view, manage and help troubleshoot.





LED DISPLAY



LED	Function	Description
SYS	System run indicator	Blinking green – Device is powered on. Solid green – Mobile network link is up and operational
SIM	SIM card indicator	Light is on – SIM card state is ready, Blinking Green – SIM card is an error. Must re-insert.
Wi-Fi	Wi-Fi indicator	Light is on –Wi-Fi is on.
ETH	LAN port status	Solid Green – LAN port is connected. Blinking Green –LAN port in operation.
RF (4 SYS-LEDs) Top row	RF Signal Strength	OFF – No wireless connection is established RF1: -123dBm <= RSRP < -105dBm RF2: -105dBm <= RSRP < -95dBm RF3: -95dBm <= RSRP < -85dBm RF4: -85dBm <= RSRP



QUICK SETUP

Once you have logged in from a web browser, select Quick Setup. The equipment's management webpage integrates a user-friendly configuration guide page, allowing you to quickly configure the LAN interface, device WIFI, and device management password parameters in just 3 steps.

Configure the LAN interface information below to specify the device's management address.

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Summary | Operation Status | Firmware Update | **Quick Setup** | Advanced Setting

1 Basic Networking
2 Quick WiFi Setup
3 Password Change

LAN Setting

Local IP Address: 192 168 0 1

Subnet Mask: 255 255 255 0

Host Name:

Next step

Configure WIFI SSID and password information, as well as whether the WPS function is enabled.

GLOBAL TELECOM
WE ENGINEER CONNECTIVITY

Summary | Operation Status | Firmware Update | **Quick Setup** | Advanced Setting

1 Basic Networking
2 **Quick WiFi Setup**
3 Password Change

WiFi name SSID(2.4GHz): GlobalWiFi-3553

WiFi name SSID(5GHz): GlobalWiFi-3553_5G

WiFi password (required): *****

WPS: ☒ Enable

Back step Next step

Modify the device's User management password.

GLOBAL TELECOM
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Summary | Operation Status | Firmware Update | **Quick Setup** | Advanced Setting

1 Basic Networking
2 Quick WiFi Setup
3 **Password Change**

Current Username: user

Current Password:

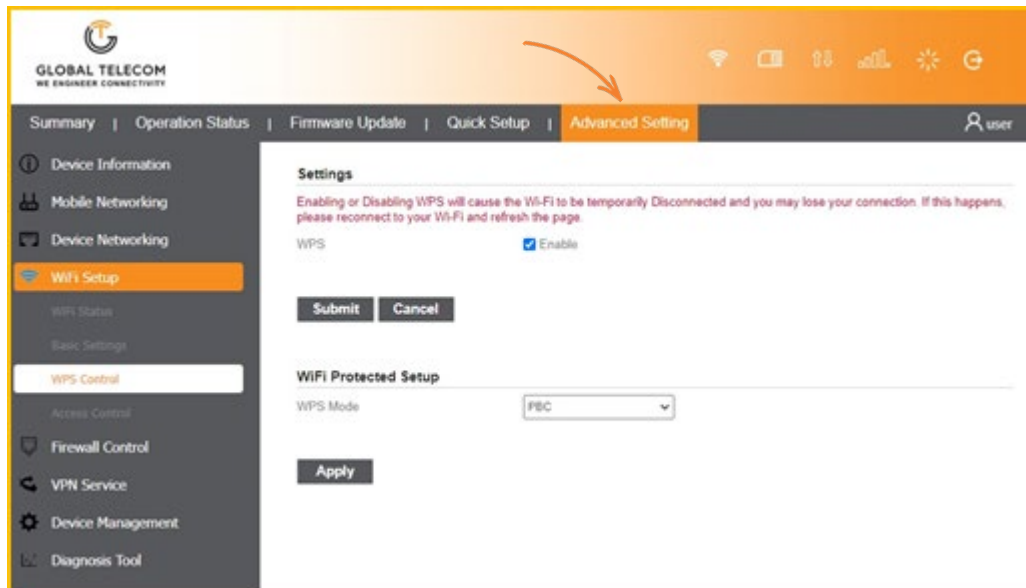
New Password:

Back step Submit



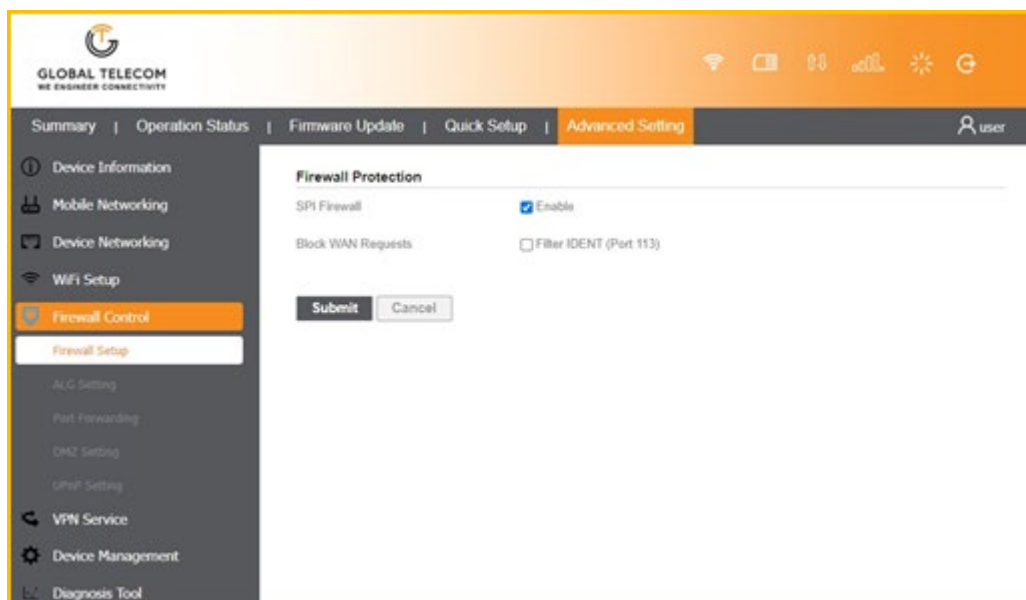
ADVANCED SETTINGS

The device integrates WPS function. When you need to use this function, please configure and enable according to the prompts on the page.



FIREWALL CONTROL

The device integrates basic firewall functions, as well as DMZ, port forwarding, UPnP and other functions. Adjust the setting of these functions according to the needs of your web application.

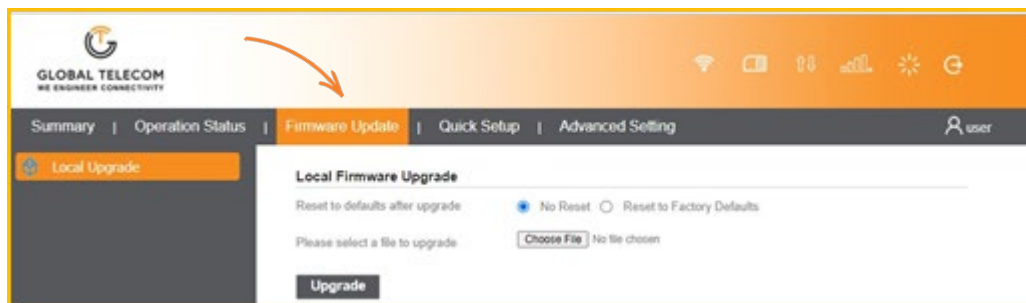




FIRMWARE UPDATE

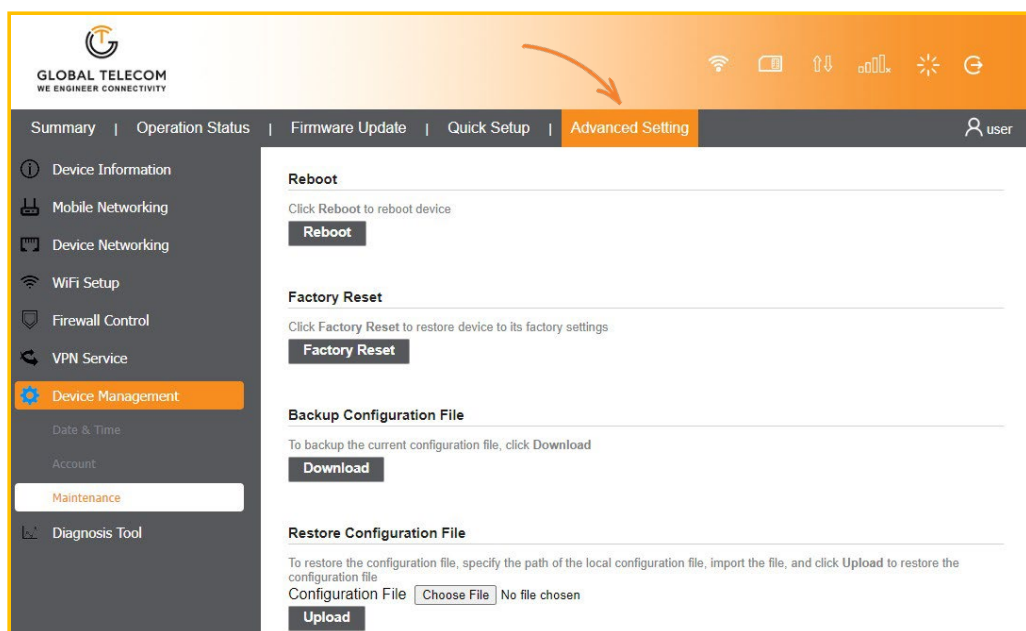
To perform a software update on the device, go to Firmware Update menu. For Local upgrade select **Choose file** and access the firmware file saved on your laptop. For FW Update, you will need to check the **‘Reset to Factory’** button before clicking **‘Upgrade’**. Follow the prompts on the screen.

(The device upgrade operation supports the choice of restore factory settings or not. Please operate according to needs.)



ADVANCED SETTINGS

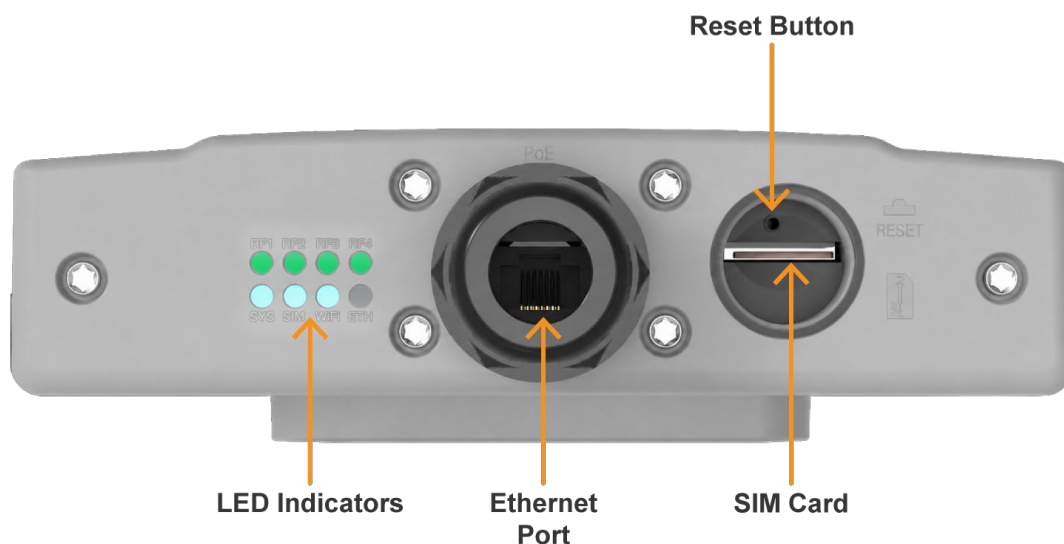
The Advanced Setting page gives options to reset the device, restore factory default settings, and perform and restore operations for device configuration.





HARDWARE RESET

In case of the need for a password reset, remove the SIM cap on the device. The SIM can be reset by pressing (using a pin) the reset button next to the SIM card slot for 10 seconds and then wait for the CPE to reboot and complete the restart. The user can then be allowed to use the original default login password to gain access to the unit WEB GUI again.



TROUBLESHOOTING

Q1: My PC cannot connect to the CPE.

- Check the PoE adapter LED is on, and the CPE & PC ETH cables are securely connected. The CPE LED should work as described.
- Check the PC NIC driver is properly installed and configured.

Q2: My CPE networking is not working properly.

- Check and make sure you are within the mobile network coverage area, and the unit is attached to the network.
- Please also check the SIM card validity.

Q3: Unable to connect internet while the device is already connected to mobile network.

- Check and verify your computer has proper NIC interface configured (DHCP or static IP). Unplug the PC ETH cable and reconnect again if required.
- If necessary, you may reboot the CPE by power off/on the CPE unit.