



GLOBAL TELECOM
WE ENGINEER CONNECTIVITY



TITAN 5400

5G Outdoor CPE
Quick User Guide
V1.0

PLEASE READ THESE SAFETY PRECAUTIONS!

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.

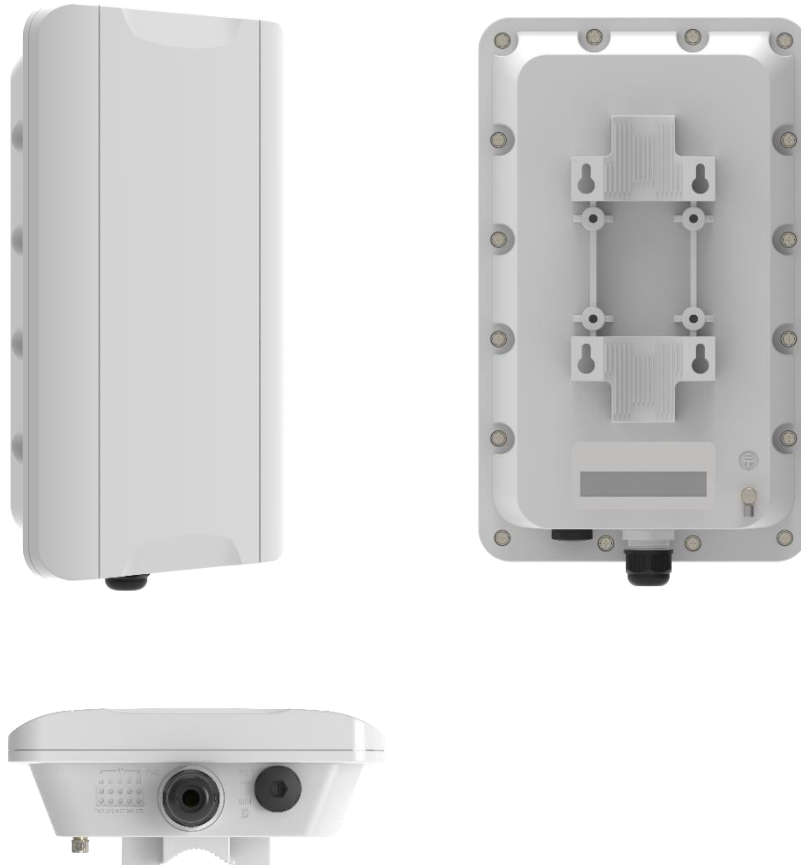
NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate 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.

1. Overview

The TITAN 5400 is highly innovative and patented 4G/5G NR outdoor CPE product designed to enable quick and easy 5G fixed data service deployment for residential and SOHO customers. It provides high speed LAN services to end users who need both bandwidth and multi-media data service in enterprise or home. It can also be used to support wireless fall back service.



1.1. User Interface Specification

Model	Description & User Interface
TITAN 5400	<ul style="list-style-type: none"> - 1 RJ45 10/100/1000/2500M LAN port - PWR, SYS, NET, SIM, ETH, RF (5 Signal intensity LEDs) - PoE DC 48V, Power < 18 Watts (Average) - Dimensions: 330 mm (L) × 200 mm (W) × 88 mm (D) - Weight: <5Kg - Operating Temperature: -40°C to 65°C - Storage Temperature: -40°C to 85°C

2. Getting Started

2.1. Packing list and CPE Unit

Upon receiving the product, please unpack the product package carefully. Each product is shipped with the following items:

Table 2-1 Packing List

Products	Quantity
CPE Unit	1
Clamps	2
Mounting Brackets	1
ETH Cable 2.0M	1
PoE Adapter	1
Power Cord 1.5M	1
Quick User Guide	1

If you find any of the items missed, please contact your local distributor immediately.

2.2. Installing the Equipment



Open the SIM card cover, insert the SIM card and connected the ETH cable.

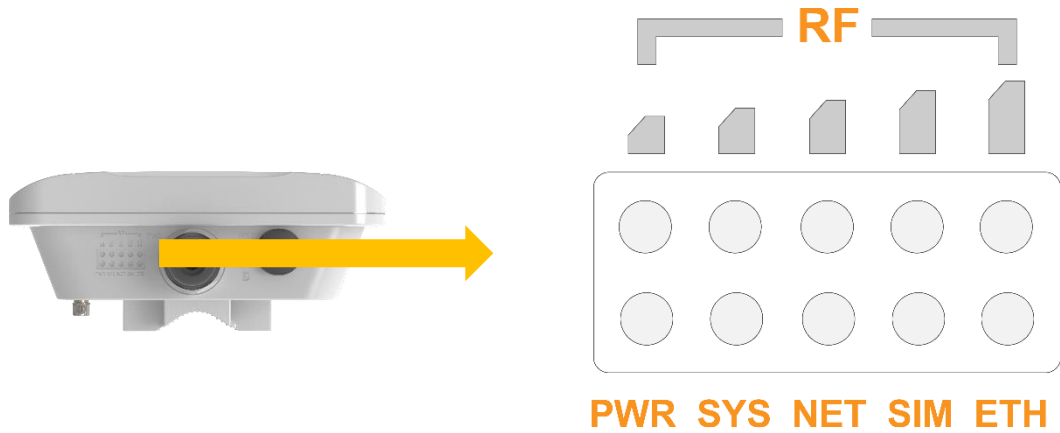


The user should use SFTP CAT5E Ethernet cable and connect to the appropriate LAN port

■ **Clamp Mounting Option**



■ LED Display

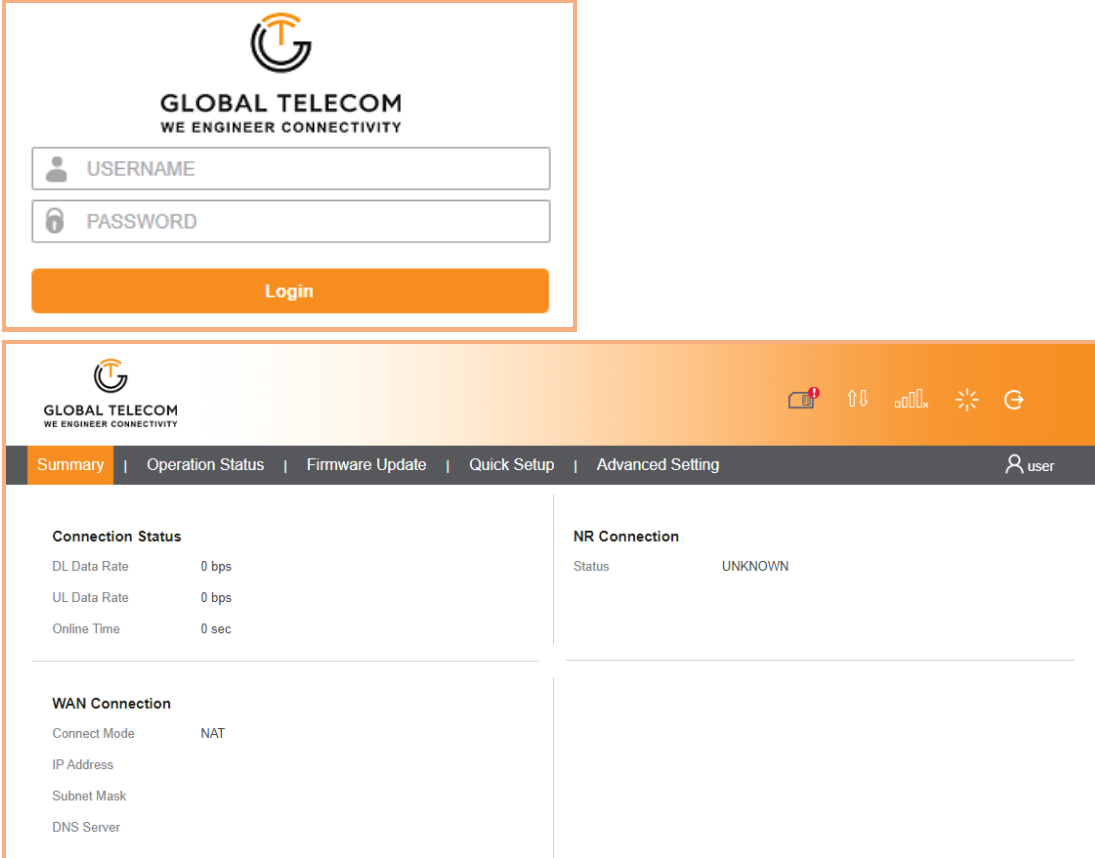


LED	Function	Description
PWR	Power indicator	Light is on – Device is power on.
SYS	System run indicator	Blinking Blue – Device is booting. Solid Blue – Device is in normal operation.
NET	WAN port status	OFF – NO wireless network access. Blinking Blue – 3G link is up and operational Solid Blue –LTE/5G link is up and operational
SIM	SIM card indicator	Light is on – SIM card state is ready, Blinking Blue – SIM card is error.
ETH	LAN port status	Solid Blue – LAN port is up. Blinking Blue –LAN port in working.
RF (5LEDs)	RF Signal Strength	5 level signal strengths indication by 5 green LEDs. 1st Green LED: -115dBm < RSRP 2nd Green LED: -115dBm <= RSRP < -105dBm 3rd Green LED: -105dBm <= RSRP < -95dBm 4th Green LED: -95dBm <= RSRP < -85dBm 5th Green LED: -85 <= RSRP

3. Managing the CPE Device

3.1. WEB Login

User can access the dongle management GUI using a Web browser from a local PC connected to device LAN port. The user should ensure that the connected PC have acquired IP address via DHCP from the device. After IP connectivity is established between the PC and window CPE device, the user may launch a Web browser and specify Http://192.168.0.1 in the address bar, the default home page will appear. Note the default username is “user” and the password is “admin”.




The image shows two screenshots of the Global Telecom web interface. The top screenshot is the login page, featuring the Global Telecom logo, a 'GLOBAL TELECOM WE ENGINEER CONNECTIVITY' header, and a login form with 'USERNAME' and 'PASSWORD' fields, and a 'Login' button. The bottom screenshot is the dashboard, which includes a navigation bar with 'Summary', 'Operation Status', 'Firmware Update', 'Quick Setup', and 'Advanced Setting'. The main content area is divided into four sections: 'Connection Status' (showing DL Data Rate, UL Data Rate, and Online Time), 'NR Connection' (showing Status as UNKNOWN), 'WAN Connection' (showing Connect Mode as NAT, IP Address, Subnet Mask, and DNS Server), and a 'Reconnect' button.

3.2. System configuration

■ Radio Setting

The Wireless radio can be enabled or disabled via wireless radio setting. The radio can also be reconnected by clicking the Reconnect button.



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

Device Information

Mobile Networking

Radio Settings

SIM Management

Device Networking

Firewall Control

VPN Service

Device Management

Diagnosis Tool

Radio Control Setting

Auto Dial ☒ Enable

Radio Control ☒ ON ☐ OFF Reconnect

Network Selection ☐ 5G ☒ 4G/5G ☐ 3G/4G/5G

5G Network Mode

4G Band Selection


<input checked="" type="checkbox"/> B1	<input checked="" type="checkbox"/> B3	<input checked="" type="checkbox"/> B5	<input checked="" type="checkbox"/> B7
<input checked="" type="checkbox"/> B8	<input checked="" type="checkbox"/> B18	<input checked="" type="checkbox"/> B19	<input checked="" type="checkbox"/> B20
<input checked="" type="checkbox"/> B26	<input checked="" type="checkbox"/> B28	<input checked="" type="checkbox"/> B32	<input checked="" type="checkbox"/> B38
<input checked="" type="checkbox"/> B39	<input checked="" type="checkbox"/> B40	<input checked="" type="checkbox"/> B41	<input checked="" type="checkbox"/> B42
<input checked="" type="checkbox"/> B43	<input checked="" type="checkbox"/> B48		

5G NSA Band Selection

<input checked="" type="checkbox"/> n1	<input checked="" type="checkbox"/> n3	<input checked="" type="checkbox"/> n5	<input checked="" type="checkbox"/> n7
<input checked="" type="checkbox"/> n8	<input checked="" type="checkbox"/> n20	<input checked="" type="checkbox"/> n28	<input checked="" type="checkbox"/> n38
<input checked="" type="checkbox"/> n40	<input checked="" type="checkbox"/> n41	<input checked="" type="checkbox"/> n48	<input checked="" type="checkbox"/> n77
<input checked="" type="checkbox"/> n78	<input checked="" type="checkbox"/> n79		

■ LAN Setting

The LAN setting allows user to specify the device LAN IP, DHCP server setting, Local DNS etc. When Router mode is selected, the DHCP server should be enabled by default. User is advised to leave the default setting unchanged for quick configuration and smooth device operation.



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

Device Information

Mobile Networking

Device Networking

WAN Settings

LAN Settings

IPv6 Setting

Firewall Control

VPN Service

Device Management

Diagnosis Tool

LAN Host Settings

Local IP Address

Subnet Mask

Local DNS

LAN DHCP Settings

DHCP Server ☒ Enable

DNS Proxy ☒ Enable

LAN Start IP address 192.168.0.

LAN End IP address 192.168.0.

LAN Lease time seconds

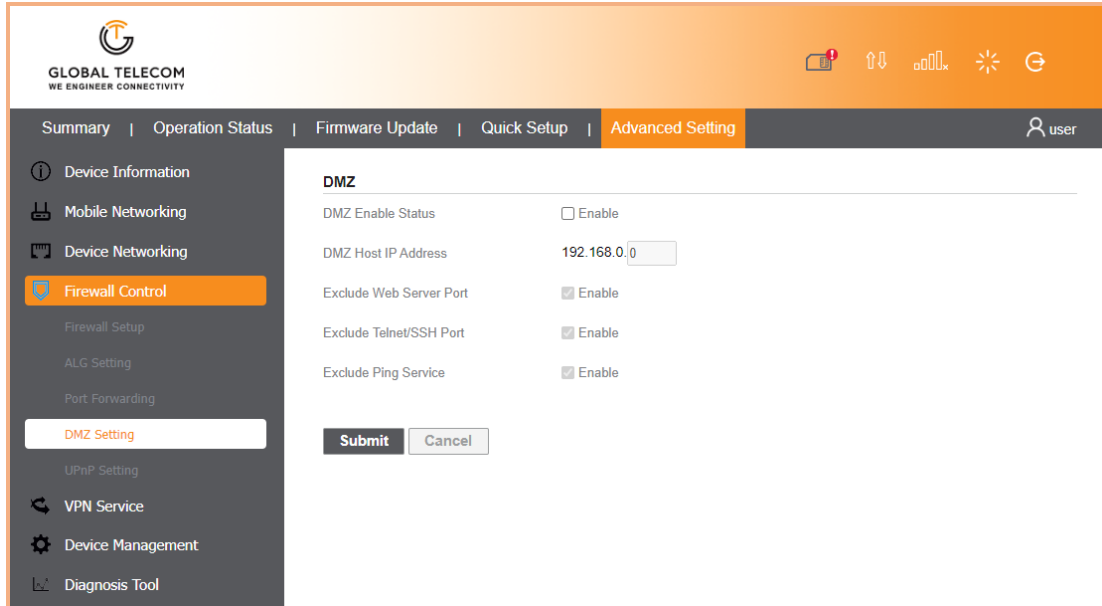
Static Route Settings (Max Limit :16)

Add (Please click the Submit button after modification for changes to take effect)

Index	Destination IP	Route Subnet Mask	Gateway	Delete
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■ DMZ

This menu allows user to configure the DMZ setting for CPE in router mode. Web server, Telnet/SSH and Ping Service port can be exempted from DMZ mapping if required. By enabling DMZ option will make the specified local LAN host (DMZ IP) exposed to Internet.



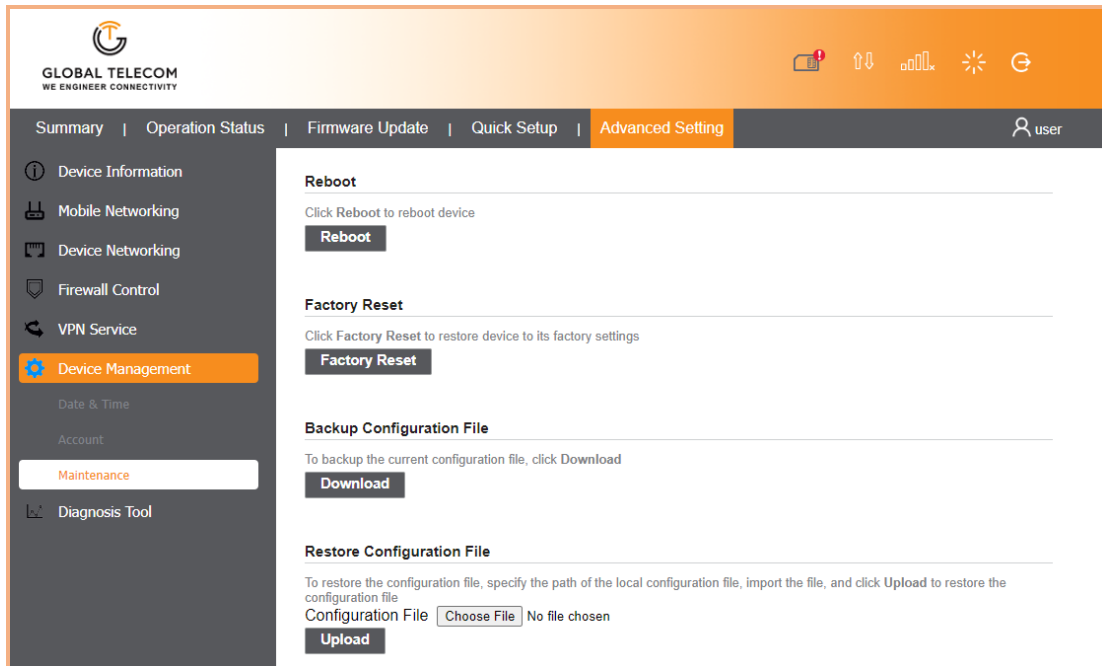
The screenshot shows the 'DMZ' configuration page. The left sidebar contains a menu with 'DMZ Setting' highlighted. The main content area has the following settings:

- DMZ Enable Status:** ☐ Enable
- DMZ Host IP Address:** 192.168.0.0
- Exclude Web Server Port:** ☒ Enable
- Exclude Telnet/SSH Port:** ☒ Enable
- Exclude Ping Service:** ☒ Enable

At the bottom of the settings are 'Submit' and 'Cancel' buttons.

■ Maintenance

This page allows user to update the device firmware version, rest the device to factory setting and reboot the device.



The screenshot shows the 'Maintenance' page. The left sidebar contains a menu with 'Maintenance' highlighted. The main content area has the following sections:

- Reboot:** Click Reboot to reboot device. **Reboot** button.
- Factory Reset:** Click Factory Reset to restore device to its factory settings. **Factory Reset** button.
- Backup Configuration File:** To backup the current configuration file, click Download. **Download** button.
- Restore Configuration File:** To restore the configuration file, specify the path of the local configuration file, import the file, and click Upload to restore the configuration file. Configuration File: No file chosen. **Upload** button.

4. 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 LTE 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 LTE.

- 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.