



# **TITAN4000**

LTE Outdoor CPE  
Quick User Guide V1.0

## **PLEASE READ THESE SAFETY PRECAUTIONS!**

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### **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 21cm 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 TITAN4000 is highly innovative and patented LTE outdoor CPE product designed to enable quick and easy LTE 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
TITAN4000	<ul style="list-style-type: none"> <li>- 1 RJ45 10/100/1000M LAN port</li> <li>- SYS, MOD, SIM, ETH, Wi-Fi, RF (5 Signal intensity LEDs)</li> <li>- PoE DC 48V, Power &lt; 18 Watts (Average)</li> <li>- Dimensions: 300 mm (L) x 290 mm (W) x 97 mm (D)</li> <li>- Weight: &lt;5Kg</li> <li>- Operating Temperature: -40°C to 55°C</li> <li>- Storage Temperature: -40°C to 85°C</li> </ul>

## 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
Clamp	2
Mounting brackets	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.

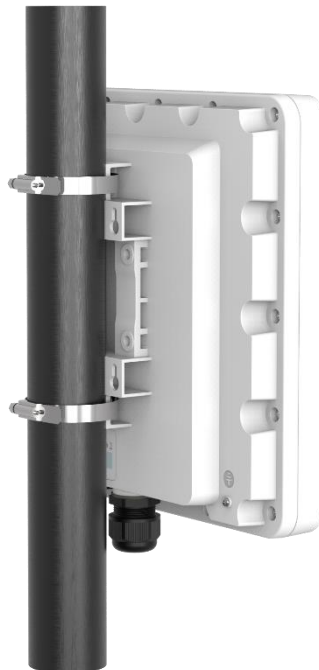


The user should use SFTP CAT5E Ethernet cable and connect to the appropriate LAN port

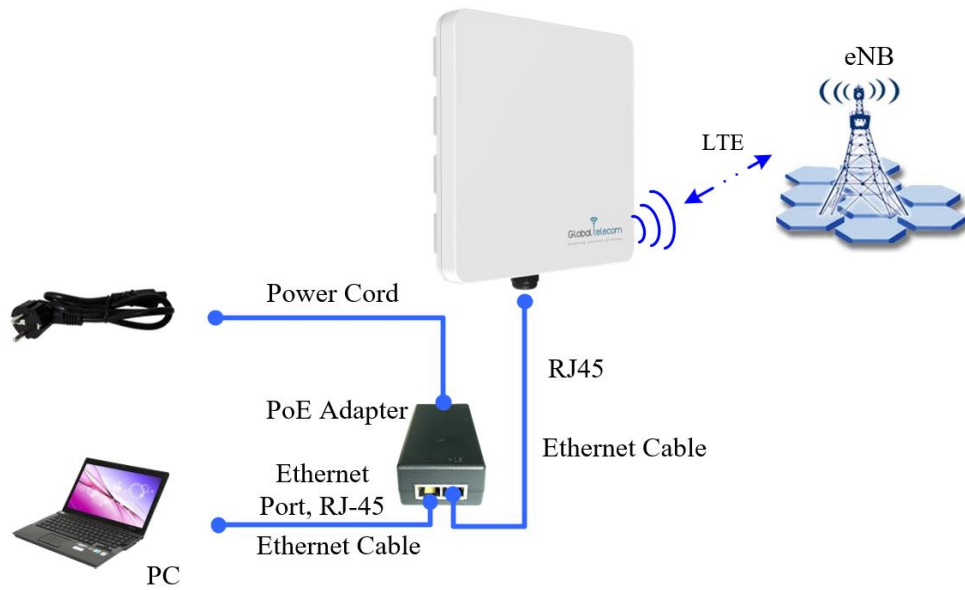
■ **Mounting Bracket**



■ **Using clamps to fixed.**



■ Device logic connection



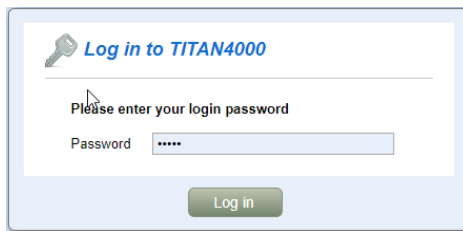
■ LED Display

LED	Function	Description
SYS	System run indicator	Solid green – Device is in normal operation.
MOD	WAN port status	OFF – NO wireless network access. Solid Green – WAN data transmission in progress
SIM	SIM card indicator	Light is on – SIM card state is ready, Blinking Green – SIM card is error.
ETH	LAN port status	Solid Green – LAN port is up. Blinking Green –LAN port in working.
Wi-Fi	Wi-Fi indicator	Light is on –Wi-Fi is on.
RF (5LEDs)	RF Signal Strength	5 level signal strengths indication by 5 green LEDs. 1st Green LED: $-115\text{dBm} < \text{RSRP}$ 2nd Green LED: $-115\text{dBm} \leq \text{RSRP} < -105\text{dBm}$ 3rd Green LED: $-105\text{dBm} \leq \text{RSRP} < -95\text{dBm}$ 4th Green LED: $-95\text{dBm} \leq \text{RSRP} < -85\text{dBm}$ 5th Green LED: $-85 \leq \text{RSRP}$

## 3. Managing the CPE Device

### 3.1. WEB Login

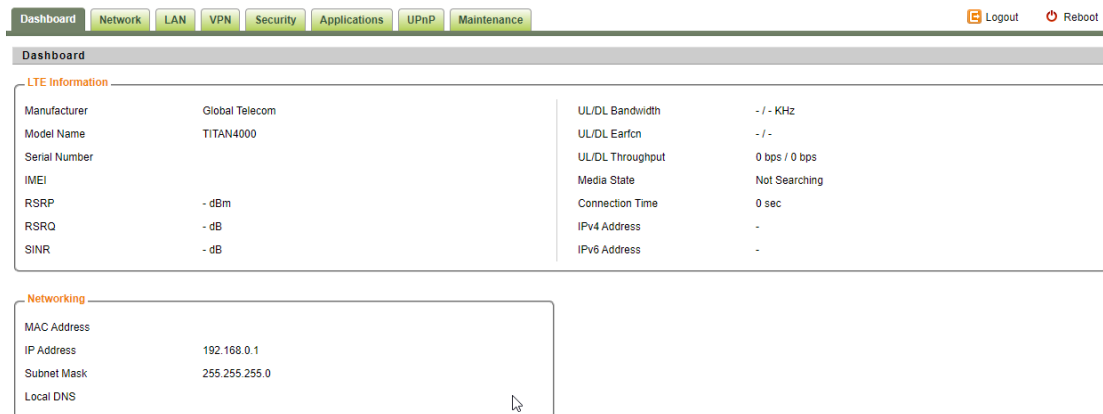
User can access the dongle management GUI using a Web browser from a local PC connected to device LAN port. The user should ensure that the connected PC have acquired IP address via DHCP from the device. After IP connectivity is established between the PC and window CPE device, the user may launch a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



**Log in to TITAN4000**

Please enter your login password

Password:



Dashboard | Network | LAN | VPN | Security | Applications | UPnP | Maintenance | Logout | Reboot

**Dashboard**

**LTE Information**

Manufacturer	Global Telecom	UL/DL Bandwidth	- / - KHz
Model Name	TITAN4000	UL/DL Earfcn	- / -
Serial Number		UL/DL Throughput	0 bps / 0 bps
IMEI		Media State	Not Searching
RSRP	- dBm	Connection Time	0 sec
RSRQ	- dB	IPv4 Address	-
SINR	- dB	IPv6 Address	-

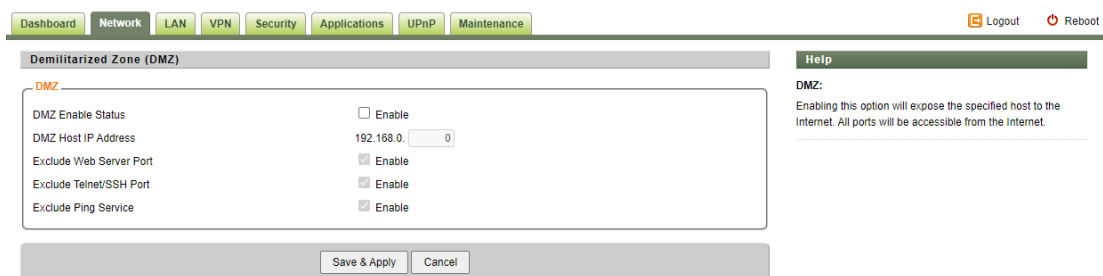
**Networking**

MAC Address	
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Local DNS	

### 3.2. System configuration

#### ■ 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.



Dashboard | Network | LAN | VPN | Security | Applications | UPnP | Maintenance | Logout | Reboot

**Demilitarized Zone (DMZ)**

**DMZ**

DMZ Enable Status:  Enable

DMZ Host IP Address: 192.168.0.

Exclude Web Server Port:  Enable

Exclude Telnet/SSH Port:  Enable

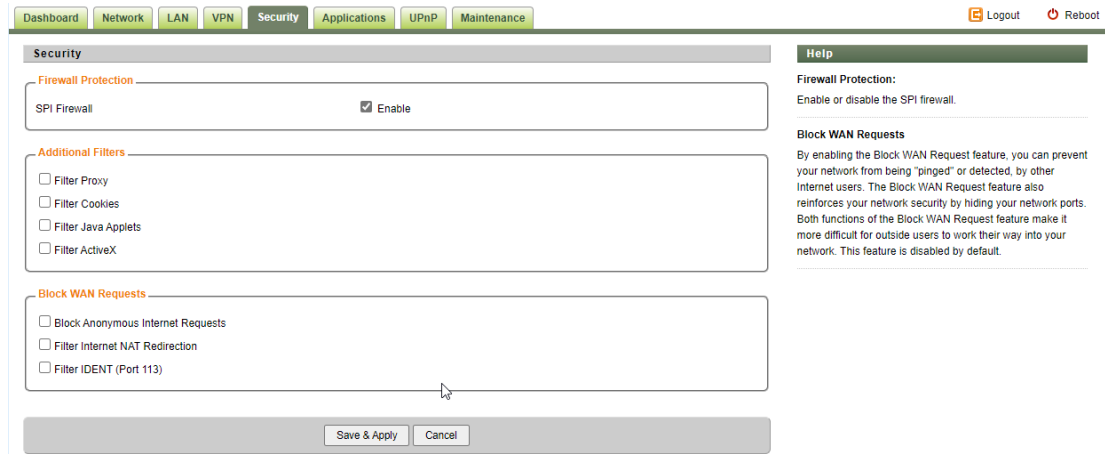
Exclude Ping Service:  Enable

**Help**

**DMZ:**  
Enabling this option will expose the specified host to the Internet. All ports will be accessible from the Internet.

## ■ Security

This page allows user to configure the security setting.



The screenshot shows the 'Security' configuration page. At the top, there is a navigation bar with tabs for Dashboard, Network, LAN, VPN, Security, Applications, UPnP, and Maintenance. The 'Security' tab is active. On the right side, there are 'Logout' and 'Reboot' buttons. The main content area is divided into two sections: 'Security' and 'Help'.

**Security Section:**

- Firewall Protection:** A checkbox labeled 'SPI Firewall' is checked and labeled 'Enable'.
- Additional Filters:** A list of checkboxes: 'Filter Proxy', 'Filter Cookies', 'Filter Java Applets', and 'Filter ActiveX', all of which are currently unchecked.
- Block WAN Requests:** A list of checkboxes: 'Block Anonymous Internet Requests', 'Filter Internet NAT Redirection', and 'Filter IDENT (Port 113)', all of which are currently unchecked.

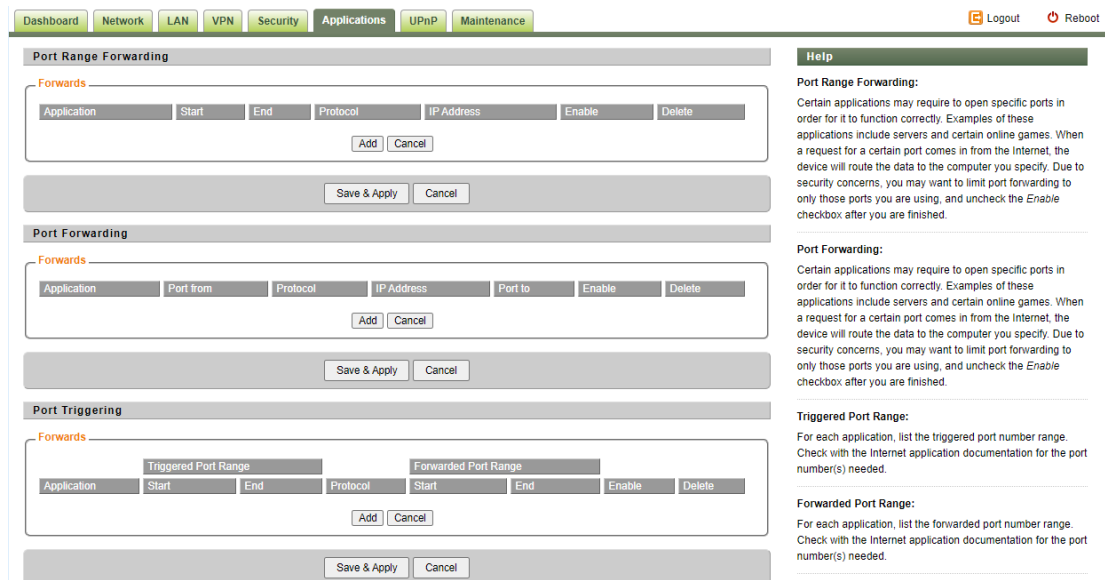
At the bottom of the Security section, there are two buttons: 'Save & Apply' and 'Cancel'.

**Help Section:**

- Firewall Protection:** Enable or disable the SPI firewall.
- Block WAN Requests:** By enabling the Block WAN Request feature, you can prevent your network from being "pinged" or detected, by other Internet users. The Block WAN Request feature also reinforces your network security by hiding your network ports. Both functions of the Block WAN Request feature make it more difficult for outside users to work their way into your network. This feature is disabled by default.

## ■ Applications

This menu allows user to configure the port forwarding rules for the CPE in router mode.



The screenshot shows the 'Applications' configuration page. At the top, there is a navigation bar with tabs for Dashboard, Network, LAN, VPN, Security, Applications, UPnP, and Maintenance. The 'Applications' tab is active. On the right side, there are 'Logout' and 'Reboot' buttons. The main content area is divided into two sections: 'Applications' and 'Help'.

**Applications Section:**

- Port Range Forwarding:** A table with columns: Application, Start, End, Protocol, IP Address, Enable, and Delete. Below the table are 'Add' and 'Cancel' buttons.
- Port Forwarding:** A table with columns: Application, Port from, Protocol, IP Address, Port to, Enable, and Delete. Below the table are 'Add' and 'Cancel' buttons.
- Port Triggering:** A table with columns: Application, Triggered Port Range (Start, End), Protocol, Forwarded Port Range (Start, End), Enable, and Delete. Below the table are 'Add' and 'Cancel' buttons.

At the bottom of each sub-section, there are two buttons: 'Save & Apply' and 'Cancel'.

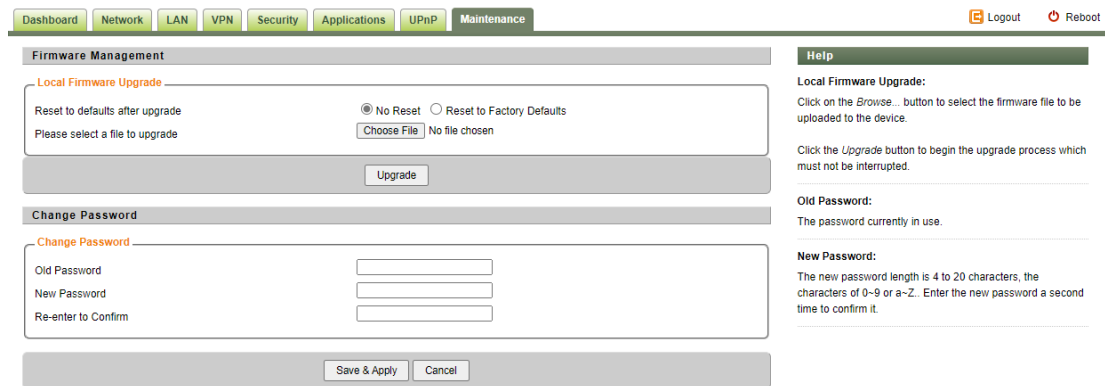
**Help Section:**

- Port Range Forwarding:** Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the device will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the *Enable* checkbox after you are finished.
- Port Forwarding:** Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the device will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the *Enable* checkbox after you are finished.
- Triggered Port Range:** For each application, list the triggered port number range. Check with the Internet application documentation for the port number(s) needed.
- Forwarded Port Range:** For each application, list the forwarded port number range. Check with the Internet application documentation for the port number(s) needed.



## ■ 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 with the following sections:

- Firmware Management:**
  - Local Firmware Upgrade:** Includes options for 'Reset to defaults after upgrade' (radio buttons for 'No Reset' and 'Reset to Factory Defaults'), a 'Choose File' button, and an 'Upgrade' button.
- Change Password:** Includes input fields for 'Old Password', 'New Password', and 'Re-enter to Confirm', with 'Save & Apply' and 'Cancel' buttons.
- Help:**
  - Local Firmware Upgrade:** Provides instructions to click 'Browse...' to select a file and 'Upgrade' to begin the process.
  - Old Password:** States 'The password currently in use.'
  - New Password:** States 'The new password length is 4 to 20 characters, the characters of 0-9 or a-z. Enter the new password a second time to confirm it.'

## 4. Troubleshooting

### Q1: My PC cannot connect to the CPE.

- Check the PoE adapter LED is on and your PC LAN port is working.

### Q2: My CPE networking is not working properly.

- Check and make sure you are within LTE coverage.

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

- Check and verify your computer has the ETH adapter installed and enabled. Unplug the PC Lan port and reconnect again if required.

**Manufacturer : Global Telecom Corp**

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**Website: [www.GlobalTelecomUS.com](http://www.GlobalTelecomUS.com)**