



**GLOBAL TELECOM**  
**WE ENGINEER CONNECTIVITY**



# **TITAN 4000**

**4G LTE-A CAT12 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 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 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) × 290 mm (W) × 97 mm (D)</li> <li>- Weight: &lt;5Kg</li> <li>- Operating Temperature: -40°C to 65°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
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

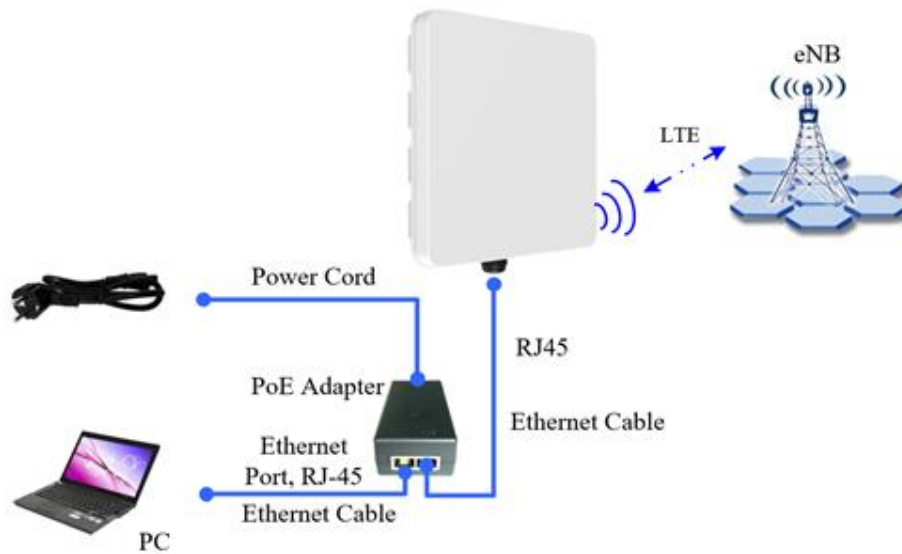
■ **Clamp Mounting Option (Preferred Method)**



■ **Bracket Mounting Option**



## ■ Connecting the Device




## ■ 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: $-85 \leq \text{RSRP}$

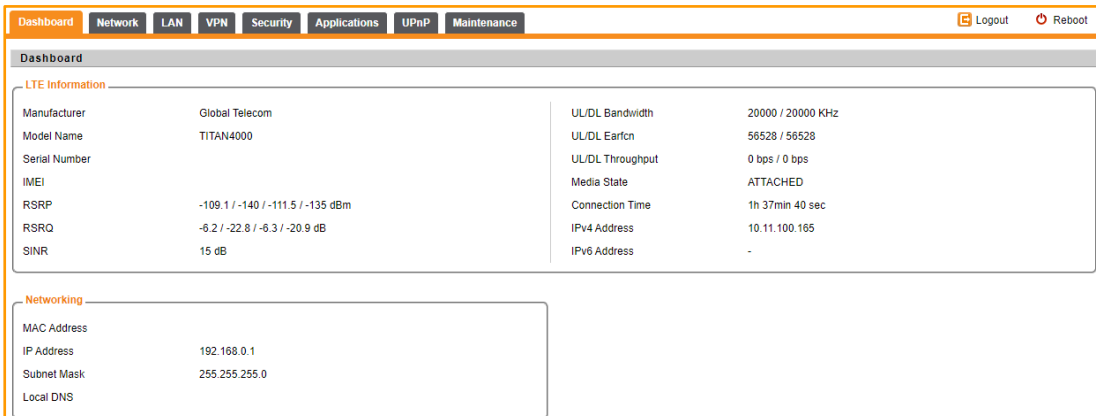
## 3. Managing the CPE Device

### 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](http://192.168.0.1) in the address bar, the default home page will appear. Note the default password is “admin”.



The login page features the Global Telecom logo and tagline at the top. Below it is a text input field labeled "Password:" and an orange "Login →" button.



The dashboard screenshot shows a navigation menu at the top with tabs for Dashboard, Network, LAN, VPN, Security, Applications, UPnP, and Maintenance. The main content area is titled "Dashboard" and contains two sections: "LTE Information" and "Networking".

LTE Information			
Manufacturer	Global Telecom	UL/DL Bandwidth	20000 / 20000 KHz
Model Name	TITAN4000	UL/DL Earfcn	56528 / 56528
Serial Number		UL/DL Throughput	0 bps / 0 bps
IMEI		Media State	ATTACHED
RSRP	-109.1 / -140 / -111.5 / -135 dBm	Connection Time	1h 37min 40 sec
RSRQ	-6.2 / -22.8 / -6.3 / -20.9 dB	IPv4 Address	10.11.100.165
SINR	15 dB	IPv6 Address	-

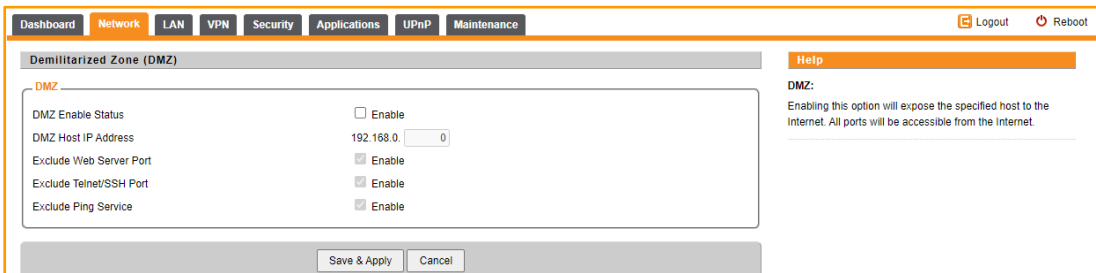
  

Networking	
MAC Address	
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Local DNS	

### 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.



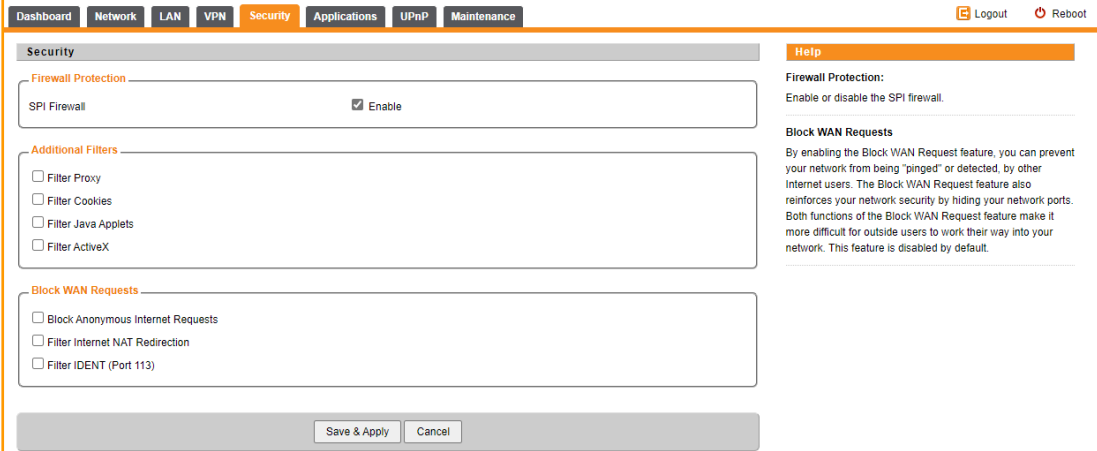
The DMZ configuration page shows a "Demilitarized Zone (DMZ)" section with the following settings:

- 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

Buttons for "Save & Apply" and "Cancel" are located at the bottom. A "Help" section on the right explains: "DMZ: Enabling this option will expose the specified host to the Internet. All ports will be accessible from the Internet."

## ■ Security

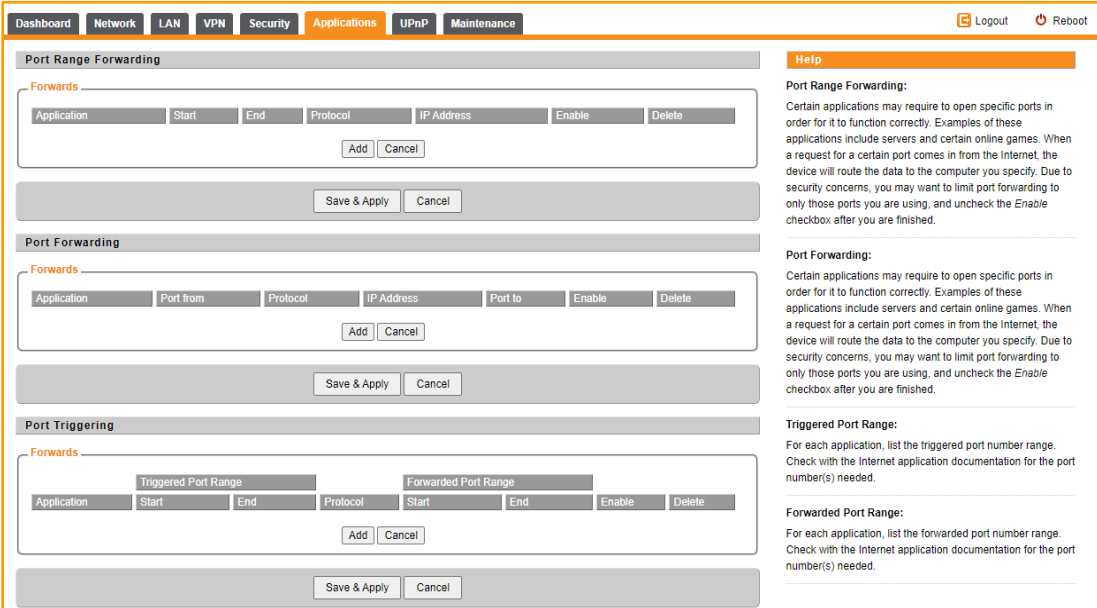
This page allows user to configure the device security setting.



The screenshot shows the 'Security' configuration page. The navigation bar includes Dashboard, Network, LAN, VPN, Security (active), Applications, UPnP, and Maintenance. There are 'Logout' and 'Reboot' buttons in the top right. The main content area is titled 'Security' and contains three sections: 'Firewall Protection' with an 'SPI Firewall' checkbox checked and an 'Enable' button; 'Additional Filters' with checkboxes for 'Filter Proxy', 'Filter Cookies', 'Filter Java Applets', and 'Filter ActiveX'; and 'Block WAN Requests' with checkboxes for 'Block Anonymous Internet Requests', 'Filter Internet NAT Redirection', and 'Filter IDENT (Port 113)'. A 'Help' sidebar on the right provides details for 'Firewall Protection' and 'Block WAN Requests'. At the bottom, there are 'Save & Apply' and 'Cancel' buttons.

## ■ Applications

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

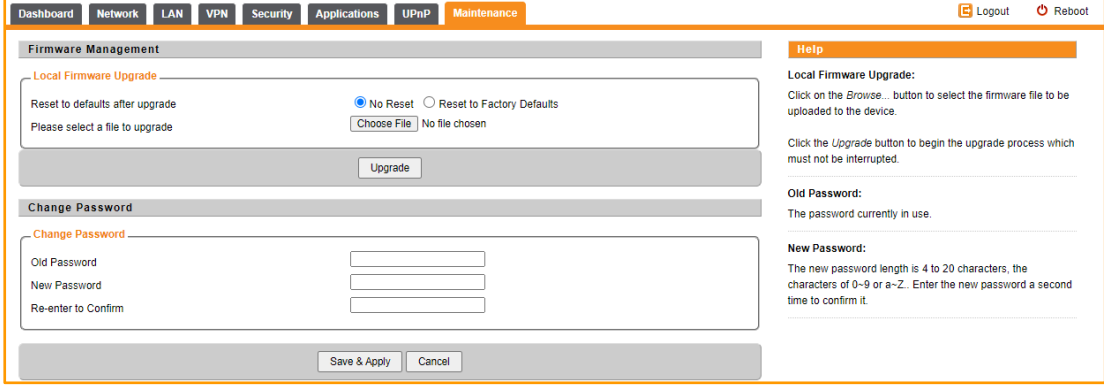


The screenshot shows the 'Applications' configuration page. The navigation bar includes Dashboard, Network, LAN, VPN, Security, Applications (active), UPnP, and Maintenance. There are 'Logout' and 'Reboot' buttons in the top right. The main content area is titled 'Applications' and contains three sections: 'Port Range Forwarding', 'Port Forwarding', and 'Port Triggering'. Each section has a table with columns for Application, Start, End, Protocol, IP Address, Port to, and Enable. Below each table are 'Add' and 'Cancel' buttons. At the bottom, there are 'Save & Apply' and 'Cancel' buttons. A 'Help' sidebar on the right provides details for 'Port Range Forwarding', 'Port Forwarding', 'Triggered Port Range', and 'Forwarded Port Range'.



## ■ Maintenance

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



**Firmware Management**

**Local Firmware Upgrade**

Reset to defaults after upgrade  
 No Reset  Reset to Factory Defaults  
 Please select a file to upgrade  No file chosen

**Change Password**

**Change Password**

Old Password   
 New Password   
 Re-enter to Confirm

**Help**

**Local Firmware Upgrade:**  
 Click on the *Browse...* button to select the firmware file to be uploaded to the device.  
 Click the *Upgrade* button to begin the upgrade process which must not be interrupted.

**Old Password:**  
 The password currently in use.

**New Password:**  
 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 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.