



Outdoor CPE8000 Installation and Configuration Guide V1.0

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PLEASE READ THESE SAFETY PRECAUTIONS!

RF Energy Health Hazard



The radio equipment described in this guide uses radio frequency transmitters. Although the power level is low, the concentrated energy from a directional antenna may pose a health hazard.

Do not allow people to come in close proximity to the front of the antenna while the transmitter is operating.

Protection from Lightning



Before connecting this instrument to the power line, make sure that the voltage of the power source matches the requirements of the instrument. The unit must be standards.

Disposal and Recycling Information



Pursuant to the WEEE EU Directive electronic and electrical waste must not be disposed of with unsorted waste. Please contact your local recycling authority for disposal of this product.

Reduction of Hazardous Substances



This CPE is compliant with the EU Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (Regulation No 1907/2006/EC of the European Parliament and of the Council) and the EU Restriction of Hazardous Substances (RoHS) Directive (Directive 2002/95/EC of the European Parliament and of the Council).

FCC Notice, USA

The CPE8000 units comply with Part 25 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

This device is specifically designed to be used under Part 15, Subpart E of the FCC Rules and Regulations. Any unauthorized modification or changes to this device may void the user's authority to operate this device.

Furthermore, this device is intended to be used only when installed in accordance with the instructions outlined in this manual. Failure to comply with these instructions may also void the user's authority to operate this device and/or the manufacturer's warranty.

The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

1. Overview

The ODU is a high performance 4G LTE outdoor CPE product designed to enable quick LTE fixed data service deployment to the remote customers. It provides high data throughput and networking features to end users who need both bandwidth and quality service in the remote area.



1.1. User Interface Specification

Model	Description & User Interface
ODU	- Panel antenna: B3_7 14dBi, B20 7dBi, B38_40_41 13dBi, B42_43 15dBi - 1 RJ45 10/100M LAN Port - PWR, RUN, LAN, SIM, LTE(1-5) LEDs - 48 VDC PoE supply, ODU Power <10 Watts - Dimensions: 203 mm (L) × 203 mm (W) × 76.5 mm (D) - Weight: < 2 Kg

1.2. LTE Interface Specification

Frequency Bands	Band 3_7 / 20 / 38_40_41 / 42_43
Radio Access	3GPP LTE Release9
Operation Mode	TDD, 2RX, 1TXD, DLMIMO
Output Power	Up to 23 dBm at antenna port
Throughput	Category 4
SIM Support	SIM card slot

2. GettingStarted

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

Outdoor CPE Products	Quantity
ODU unit	1
Power adapter	1
Power Line	1
Mounting brackets	1
PC Ethernet Cable	1

If you find any of the items is missing, please contact our local distributor immediately.

CPE Unit :

Unpacking the Equipment Table 2-1 lists all the standard parts that are supplied in your LTE CPE Unit Installation Package. Please take the time to unpack the package and check its contents against this list.



2.2. Installing the Equipment

◆ Device logic connection

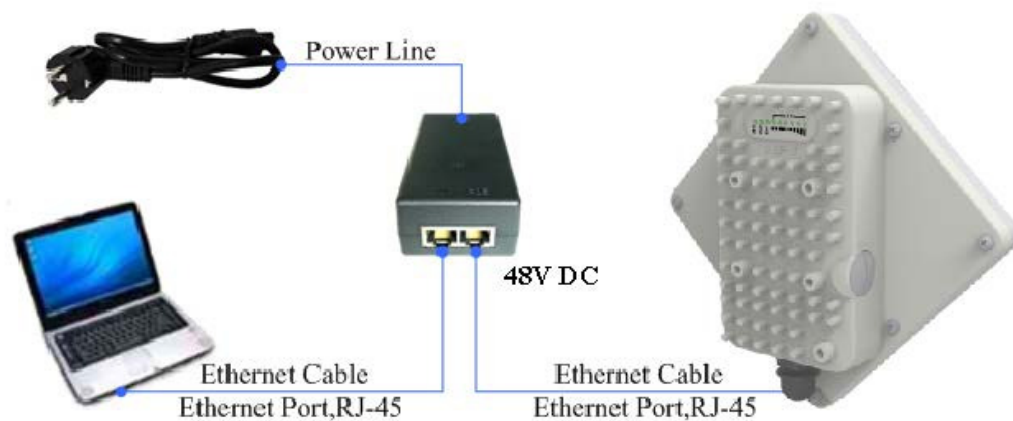
For outdoor CPE product, it is suggested that the CPE device be installed in a shaded area to avoid direct sun light exposure which may cause over heat in certain extreme weather condition.

The CPE should be properly grounded for proper protection against lightning or power surge.

To power on the device, the outdoor CPE must uses a 48V PoE integrated DC power supply adapter. The power adapters can operate in 90-250V AC range and therefore can be used in different country. Once the device is powered up, the user should wait for about 2 minutes before

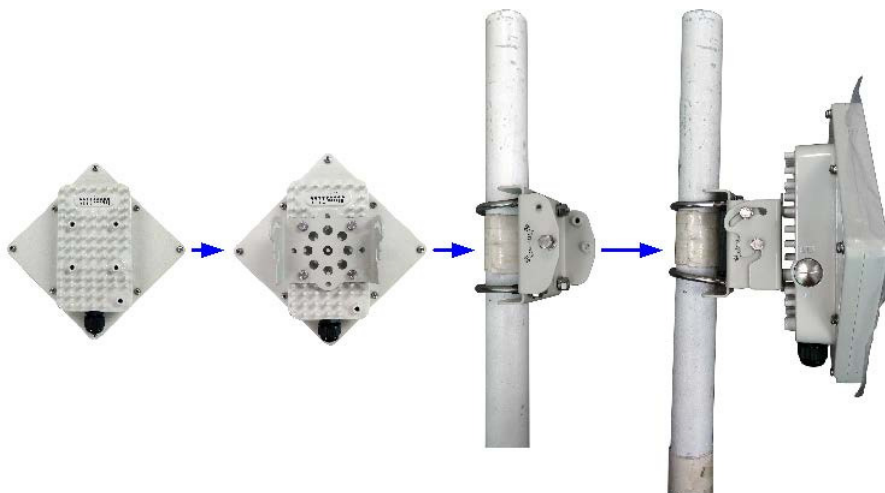
the device becomes operational. For CPE with the RUN LED indicator, a slowly flashing light indicates the system has completed the startup procedure.

To connect PC, LAN switch or other type of IP device to the CPE product, the user should use standard CAT5 Ethernet cable and connect to the appropriate LAN port. Once connect the CPE LAN LED indicator should come on.



◆ Installing Outdoor Unit (ODU)

Mounting Bracket::



Header Connection:





◆ LED Display

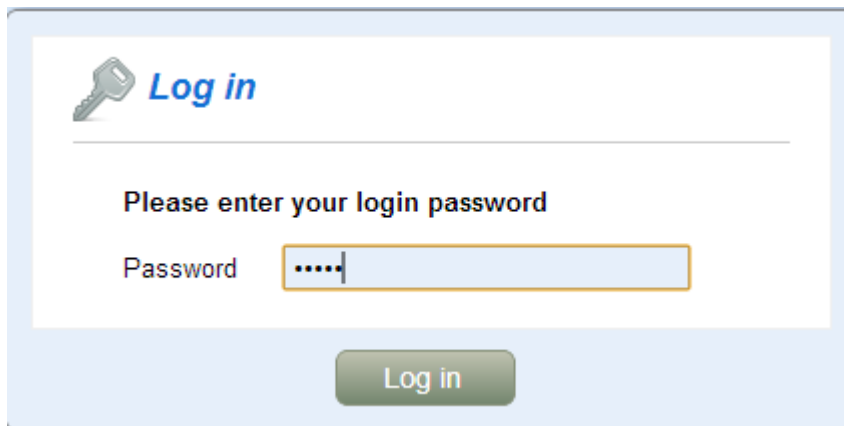
LED Indicator	Function	Description
PWR	Power Indicator	Green Color – Device is powered on
RUN	System Run Indicator	Fast Blinking – Device is rebooting Slow Blinking – Device is in normal operation
LAN	LAN port status	Solid Green – LAN port is up Blinking Green – LAN data activity in progress
SIM	SIM Card Indicator	Light is on – SIM card state ready.
RF(5LEDs)	RF Signal Strength	5 level signal strengths indication by 5 green LEDs 1 green LED: $RSRP \leq -118\text{dBm}$ 2 green LEDs: $-118\text{ dBm} \leq RSRP < -105\text{ dBm}$ 3 green LEDs: $-105\text{dBm} \leq RSRP < -95\text{dBm}$ 4 green LEDs: $-95\text{dBm} \leq RSRP < -85\text{dBm}$ 5 green LEDs: $-85\text{dBm} \leq RSRP$

3. Managing CPE Device

The ODU supports several management interfaces including TELNET, WEB, and TR-069 for local or remote managements. However normal end user is only provided with WEB based access

3.1. WEB Login--192.168.0.1

It is a preferred to setup the CPE using a Web browser from a local PC connected to device LAN port. The user should ensure that the connected PC acquired IP address via DHCP from the device. After IP connectivity is established between the PC and CPE device, the user may launch a Web browser and specify <http://192.168.0.1> in the address bar. A window will pop up requesting password. Input the user login password and then click the “Log In” button. After successful log on, the default home page of the WEB GUI interface will appear. Note that the default user password is “admin123”.

A screenshot of a web login interface. At the top left, there is a key icon and the text "Log in". Below this, a horizontal line separates the header from the main content. The main content area has the text "Please enter your login password" in bold. Underneath, the word "Password" is followed by a text input field containing five dots. At the bottom center, there is a green "Log in" button.

3.2. LTE Status Display-Overview

Once the user is logged in, the following window LTE Information window will be prompted for viewing. The page gives quite detailed LTE information including the System Information, the UL/DL Frequency, the PCI and the Connection status

LTE

Network

Security

Applications

Management

Maintenance

Status

Exit

Overview

ND&S

PLMN Selection

eNB Settings

Bearer Settings

SIM Card

PIN Management

admin

LTE Information

Help

System Information

Manufacturer

Model Name

Chip Model

Serial Number

IMEI

IMSI

Duplexing Scheme

Supported Band

Firmware Version

Radio Information

RSRP

RSSI

RSRQ

CINR

CQI

Rank Indication

UL/DL Bandwidth

UL/DL Frequency

RRC State

EMM State

CRNTI

PCI

eNodeB ID

TX Power

UL/DL Throughput

Connection

Media State

Connection Time

SIM Card State

Signal Quality

Network Description

Registered PLMN

Bearer Info

IPv4 Address

IPv4 DNS

IPv6 Address

IPv6 DNS

Activity

Sent

Received

System Information:

This section shows the basic device 4G Radio hardware and firmware information.

Radio Information:

This section shows the basic wireless information.

Connection:

This section shows the status of connecting for 4G Radio.

Activity:

Shows the number of receiving and sending packets

3.3. LTE Configuration

◆ Radio Settings-ND&S Configure

There is a LTE radio button which is used for the user can turn the radio on or off to restart the LTE module.

The CPE would scan frequency auto as soon as the system has completed the startup procedure, and you can configure the fixed Frequency manual as follow:

The screenshot shows the 'ND&S' configuration page. At the top, there's a navigation bar with tabs: LTE, Network, Security, Applications, Management, Maintenance, and Status. Below this is a sub-navigation bar with tabs: Overview, ND&S, PLMN Selection, eNB Settings, Bearer Settings, SIM Card, and PIN Management. The 'ND&S' tab is selected. The main content area has a 'Select 4G Radio' section with a '4G Radio' toggle set to 'ON'. Below that is a 'Discrete Band Setting' table with columns: Band ID, Start Frequency(MHz), End Frequency(MHz), Start Earfcn, End Earfcn, and Delete. A row is shown with Band ID 42, Start Frequency 3540, End Frequency 3540, Start Earfcn 42990, and End Earfcn 42990. There are 'Add' and 'Cancel' buttons below the table. At the bottom, there are 'Save & Apply' and 'Cancel Changes' buttons. On the right side, there's a 'Help' section with text: 'ND&S: In this page, you can turn on/off the 4G radio and set band settings including the band ID and Earfcn/Frequency.' Below that, it lists 'Earfcn Range: B42 41590 - 43589, B43 43590 - 45589' and 'Frequency Range: B42 3400 - 3599.9 MHz, B43 3600 - 3799.9 MHz'.

Note: After configure any parameters of the device, you must click the “Save & Apply” button to save the configuration otherwise the configuration will not take effect.

◆ APN Setting-Bearer configure

The Bearer List is design for the operator to configure the APN. You can configure the only one APN for all the service classes, as follow:

The screenshot shows the 'Bearer Settings' page. At the top, there's a navigation bar with tabs: LTE, Network, Security, Applications, Management, Maintenance, and Status. Below this is a sub-navigation bar with tabs: Overview, ND&S, PLMN Selection, eNB Settings, Bearer Settings, SIM Card, and PIN Management. The 'Bearer Settings' tab is selected. The main content area has a 'Bearer List' table with columns: Index, APN Name, Class ID, IP Type, Priority, and Delete. A row is shown with Index 1, APN Name 'internet', Class ID 1, IP Type 'IPv4v6', and Priority 'Up'. There are 'Add' and 'Cancel' buttons below the table. At the bottom, there are 'Save & Apply' and 'Cancel Changes' buttons. On the right side, there's a 'Help' section with text: 'Bearer List: Setting up to 8 Bearer, The most length of APN Name is 64 bytes.'

And the operator also can configure two APNs for Manage and data service classes. As follow picture, the Management Data Class will be transport via the “internet” network and the Data Traffic Class will be transport via the “ctlte” network.

LTE Network Security Management Maintenance Status Exit

Overview ND&S PLMN Selection eNB Settings **Bearer Settings** SIM Card PIN Management admin

Bearer Settings

Bearer List

Index	APN Name	Class ID	IP Type	Priority	Delete
1	internet	1	IPv4v6	Up	Delete
2	ctite	2	IPv4v6	Up	Delete

Help

Bearer List:
Setting up to 8 Bearer, The most length of APN Name is 64 bytes.

And the CPE will obtain two different IP for two networks, as follow:

LTE Network Security Applications Management Maintenance **Status** Exit

System **Network** LAN admin

Network Status

PDN Info

PDN Index: 1
 APN: internet
 IP Address: 10.12.100.5
 DNS: 8.8.8.8 4.2.2.1
 IPv6 Address:
 IPv6 DNS:
 CID: 1

Route

Destination	Default Gateway	Genmask	Flags	Metric	Ref	Use	Iface
default	*	0.0.0.0	U	0	0	0	icc0.1121
10.1.1.0	*	255.255.255.0	U	0	0	0	br0
127.0.0.0	*	255.0.0.0	U	0	0	0	lo
192.168.0.0	*	255.255.255.0	U	0	0	0	br0

ARP

IP Address	HW type	Flags	HW Address	Mask	Device
119.84.87.7	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
192.168.0.100	0x1	0x2	78:2b:cb:e8:58:6f	*	br0
8.8.8.8	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
8.8.8.8	0x1	0x2	6c:ad:ef:14:ba:96	*	icc0.1121
94.245.121.253	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
106.120.167.26	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
165.254.27.83	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
184.25.56.76	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
220.181.131.226	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
10.3.0.14	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
220.181.156.118	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
106.120.167.7	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
4.2.2.1	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
4.2.2.1	0x1	0x2	6c:ad:ef:14:ba:96	*	icc0.1121

Help

PDN Info:
When the wanprotocol is PDN show PDN IP Map.

Route:
The routing table information.

ARP:
The ARP table information.

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admin

Network Status

PDN Info

PDN Index

2

APN

ctlte.mnc011.mcc200.gprs

IP Address

10.11.100.4

DNS

8.8.8.8 4.2.2.1

IPv6 Address

IPv6 DNS

CID

2

Route

Destination	Default Gateway	Genmask	Flags	Metric	Ref	Use	Iface
default	*	0.0.0.0	U	0	0	0	icc0.1121
10.1.1.0	*	255.255.255.0	U	0	0	0	br0
127.0.0.0	*	255.0.0.0	U	0	0	0	lo
192.168.0.0	*	255.255.255.0	U	0	0	0	br0

ARP

IP Address	HW type	Flags	HW Address	Mask	Device
192.168.0.100	0x1	0x2	78:2b:cb:e8:58:6f	*	br0
8.8.8.8	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
74.125.204.120	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
94.245.121.253	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
8.8.8.8	0x1	0x2	6c:ad:ef:14:ba:96	*	icc0.1121
101.199.103.180	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
220.181.131.226	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
10.3.0.14	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
74.125.204.94	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
165.254.146.203	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
4.2.2.1	0x1	0x2	6c:ad:ef:15:ba:97	*	icc0.1122
4.2.2.1	0x1	0x2	6c:ad:ef:14:ba:96	*	icc0.1121

Help

PDN Info:

When the wanprotol is PDN show PDN IP Map.

Route:

The routing table information.

ARP:

The ARP table information.

3.4. eNodeB Selection

The CPE would lock on the ND&S to connecting after the operator enabled the **Lock ND&S** when the Co-Channel Interference (CCI) is around.

◆ PLMN Selection

Setting “**Network Mode**” as **Nomadic**, then click the “**Search**” button, After the CPE searched the “**PLMN ID**”, select the applicable PLMN ID and click “**Add Info list**” button to add the PLMN ID to the PLMN-List.

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PLMN Selection

PLMN Selection

Network Mode

Nomadic

Search

PLMN ID

200 11

Add into list

Home PLMN-ID

200,01

Allow Roaming

☒ Enable

Equivalent PLMN-ID list

Index	MCC	MNC	Priority	Delete
1	200	11	Up	Delete

Add

Cancel

Save & Apply

Cancel Changes

Help

PLMN Selection:

Enable manual search. It will interrupt the current data network when searching available network.

Equivalent PLMN-ID list:

PLMN-ID configuration and priority setting. Equivalent PLMN-ID isn't configured, select Home PLMN to attach

◆ eNodeB Setting

After Enable the **Preferred eNB List** and configure the **Earfcn/PCI**, the CPE will scan the corresponding ND&S and connecting to

LTE—>**eNB Settings**—>**Enable Preferred eNB List**—>**Enable Lock ND&S to the preferred list**—>**add the Earfcn and PCI**—>**Save & Apply**

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Bearer Settings

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eNB Settings

Preferred eNB Settings

Preferred eNB List

☒ Enable

Lock ND&S to the preferred list

☒ Enable

Auto-Rescan Duration

Mins(15~65535)

Priority	Earfcn	PCI(0~503)	Delete
1	42990	3	Delete

Sorted eNB List

Index	Earfcn	PCI	RSRP(dBm)	RSRQ(dB)	RSSI(dBm)	CINR(dB)
1	42990	3	-94.7	-7	-79.9	29.2

eNB Settings:

UE selects eNB from the preferred eNBs preferentially only when enabled.

Earfcn Range:

B42 41590 - 43589

B43 43590 - 45589

Auto-Rescan Duration:

Range 15-65535 mins; 0 - timer is disabled!

3.5. Network Configuration

◆ Modify MTU Size

The default Operation Mode is Router, and the PC of the user that connected to device LAN port will obtain IP address via DHCP server of the device. The default MTU Size is 1428, user can modify the MTU Size if necessary

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Network | Security | Applications | Management | Maintenance | Status | Exit

Internet | LAN | VPN | QoS | DDNS | Traffic Control | admin

Internet Setup

Internet Connection

Connection Mode: ☒ Router / NAT ☐ L2 Bridge (GRE) ☐ L3 Bridge

Optional

Device Name:

Host Name:

Domain Name:

MTU:

IP Type: ☐ IPv4 ☐ IPv6 ☒ IPv4v6

DS-Lite Connection

DS-Lite Configuration: ☒ Disable ☐ Manual Config

AFTR IPv6 Address:

B4 IPv4 Address: 192.0.0. (Optional)

WAN IPv6 Address:

IPv6 WAN Default Gateway:

Help

Host Name:
Enter the host name provided by your ISP.

Domain Name:
Enter the domain name provided by your ISP.

DS-Lite Connection:
Enter the AFTR address information provided by your Internet Service Provider(ISP).

Save & Apply **Cancel Changes**

◆ Change model from Router to Bridge

The operation mode could be changed from Router to Bridge if necessary .Change model as follow picture: **Network→Internet→L3 Bridge→Save & Apply**

Network | Security | Management | Maintenance | Status | Exit

Internet | VPN | L2 Service | QoS | admin

Internet Setup

Internet Connection

Connection Mode: ☐ Router / NAT ☐ L2 Bridge (GRE) ☒ L3 Bridge

Optional

Device Name:

Host Name:

Domain Name:

MTU:

IP Type: ☐ IPv4 ☐ IPv6 ☒ IPv4v6

Help

Host Name:
Enter the host name provided by your ISP.

Domain Name:
Enter the domain name provided by your ISP.

Save & Apply **Cancel Changes**

The operator's PC which connected the LAN port of CPE will auto obtain the IP of APN Net when the CPE attached to the APN network, then you can connected to the APN network for

data services. And the PC should configure a static IP address as 10.1.1.x manual in order to visit the CPE managing page <http://10.1.1.1> .

3.6. Service Configuration-DMZ Setting

By enabling this option will make the specified local LAN host (DMZ IP) was exposed to the Internet, all ports can be accessed by other computers on the Internet.

The screenshot shows the 'Applications' tab in the web GUI, with the 'DMZ' sub-tab selected. The 'Demilitarized Zone (DMZ)' section is active. The 'DMZ Enable Status' is set to 'Enable' (radio button). The 'DMZ Host IP Address' is set to '192.168.0.100'. The 'Exclude Web Server Port', 'Exclude Remote Port', and 'Exclude Ping' options are all checked and set to 'Enable'. The 'Save & Apply' button is highlighted with a red box. A 'Help' section on the right explains that enabling DMZ will expose the specified host to the Internet.

3.7. System Maintenance

WEB GUI menu to configure the device in more details (see diagram below). The configuration is easy to use and self explanatory.

◆ Telnet Enable(for beta release)

The users can telnet to the CPE in the beta release when set Telnet Management as Enable All.

The screenshot shows the 'Management' tab in the web GUI, with the 'Device Management' sub-tab selected. The 'Device Management Setting' section is active. The 'Device Management Mode' is set to 'TR069'. The 'Remote connection(telnet&ssh)' option is checked and set to 'Enable'. The 'Access Control' is set to 'Unrestricted Access'. The 'Auto-Logout Timeout' is set to 'Enable' with a value of '20' minutes. The 'Save & Apply' button is highlighted with a red box. A 'Help' section on the right explains the 'Local', 'TR069', and 'Access Control' settings.

cmd shell and run command:

telnet 192.168.0.1

Login: admin

Password: root123

◆ TR069 Configuration

After setting the Device Management Mode as TR069, you must also configure the validity acs url for monitoring the device via standard TR-069 ACS systems.

Device Management Setting

Device Management

Device Management Mode: TR069

Device Management Control

Remote connection(telnet&ssh): ☒ Enable

Access Control: Unrestricted Access

Auto-Logout Timeout: Enable 20 (minutes:1 ~ 25)

Help

Local:
Means user will configure all the device setting locally.

TR069:
Means the device will be managed remotely using standard TR069 platform.

Access Control:
It defines the login restriction for Web and SSHD access, as well controls how hard RESET works.

Save & Apply Cancel Changes

TR069 Management Setting

TR069 Configuration

ACS URL: http://10.3.0.15:8080/im2000/acs

ACS Username:

ACS Password:

Re-enter Password:

Periodic Inform Enable: ☒

Periodic Inform Interval: 3600 seconds(90~604800)

Periodic Inform Time: 2001 - 01 - 01 T 00 : 00 : 00 (eg2000-01-01T01:01:01)

CPE Username: admin

CPE Password:

Re-enter Password:

ACS STUN Configuration

STUN Enable Status: ☒ Enable

Server Address:

Server Port: 3478 (0~65535)

Username:

Password:

Re-enter Password:

Minimum Keep Alive Period: 10 seconds(10~90)

Maximum Keep Alive Period: 90 seconds(10~90)

Help

TR069 Configuration
This part contains TR069 ACS server and ACS STUN server configuration.

Save & Apply Cancel Changes undefined

◆ Firmware Upgrade over HTTP

Select the **Default settings** to reset the CPE after upgrade

Click on the Browser button to select the firmware file to be uploaded to the device.

Click the” **Upgrade**” button to begin the upgrade process.

The screenshot shows the 'Firmware Management' page with the 'Maintenance' tab selected. Under 'Local Firmware Upgrade', the 'After flashing, reset to' section has 'Default settings' selected. The 'Please select a file to upgrade' section shows a file named 'AM4000D_V1...8_R1485.PRG' selected. The 'Upgrade' button is highlighted. The 'Remote Firmware Upgrade' section shows 'Update Method' set to 'None'. The 'Help' section provides instructions for both local and remote upgrades.

Please do not interrupt the upgrade process and continue to wait for the following pop window to appear. The CPE will reboot after upgrade successful.

The screenshot shows the 'Firmware Management' page with the 'Maintenance' tab selected. The 'Firmware Upgrade' section is highlighted. The 'WARNING' message states 'Upgrading firmware may take a few minutes. Do not turn off the power or press the reset button!'. The 'Upgrade successful' message states 'Upgrade successful. Equipment is rebooting now. Please wait a moment...'. The 'Help' section provides instructions for both local and remote upgrades.

◆ Change Password

You can select the language or modify the web login password via the Maintenance page.

The screenshot shows the 'Change Password' page within the 'Maintenance' menu. The 'General' sub-menu is selected. The page has a header with tabs: LTE, Network, Security, Applications, Management, Maintenance (highlighted), and Status. Below the header is a sub-menu bar with: General (highlighted), Firmware Upgrade, Config Management, Ping, and System Reset. The main content area is titled 'Change Password' and contains a form with four fields: Username (admin), Old Password (masked with dots), New Password (masked with dots), and Re-enter to Confirm (masked with dots). To the right of the form is a 'Help' section with three subsections: '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.), and 'Time Settings' (Choose the time zone you are in and Summer Time (DST) period. The device can use local time or UTC time.). Below the form is a 'Time Settings' section with fields for NTP Enable Status (checked), Time Zone / Summer Time (DST) (UTC+08:00 / last Sun Mar - last Sun Oct), NTP Server (0.pool.ntp.org), Use Local Host Time (Tue 24 Mar 2015 19:31:30), and Refresh Interval (720 minutes). Below that is a 'Language Management' section with a 'Language Selection' dropdown set to 'English'. At the bottom is an 'Auto-Refresh' section with a checked 'Auto-Refresh' checkbox. At the very bottom are 'Save & Apply' and 'Cancel Changes' buttons.

Change Password

Username: admin
Old Password:
New Password:
Re-enter to Confirm:

Time Settings

NTP Enable Status: ☒ Enable
Time Zone / Summer Time (DST): UTC+08:00 / last Sun Mar - last Sun Oct
NTP Server: 0.pool.ntp.org (e.g. time.nist.gov)
Use Local Host Time: Tue 24 Mar 2015 19:31:30 Sync
Refresh Interval: 720 (minutes: 5 ~ 1440)

Language Management

Language Selection: English

Auto-Refresh

Auto-Refresh: ☒ Enable

Save & Apply Cancel Changes

Help

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.

Time Settings:
Choose the time zone you are in and Summer Time (DST) period. The device can use local time or UTC time.

Language Management:
The language selection allows user to select the preferred language for Web GUI interface.

Auto-Refresh:
This option controls whether the Web page contains dynamic data will be automatically refreshed when the page is open.

◆ Load Factory Default

Click the "Restore" button will restore the device to original factory setting. User will need to reconfigure the authentication setting in order to get the device operational.

Maintenance → System Reset → Restore

The screenshot shows the 'System Reset' page within the 'Maintenance' menu. The 'General' sub-menu is selected. The page has a header with tabs: LTE, Network, Security, Applications, Management, Maintenance (highlighted), and Status. Below the header is a sub-menu bar with: General, Firmware Upgrade, Config Management, Ping, and System Reset (highlighted). The main content area is titled 'System Reset' and contains two sections: 'System Reboot' with a 'Reboot' button, and 'Reset Device Settings' with a 'Restore Factory Defaults' button. To the right of the form is a 'Help' section with two subsections: 'System Reboot' (Click the Reboot button to restart the device.) and 'Restore Factory Defaults' (This will restore the device to original factory setting. User will need to reconfigure the authentication setting in order to get the device operational.).

System Reset

System Reboot: Reboot

Reset Device Settings: Restore Factory Defaults Restore

Help

System Reboot:
Click the Reboot button to restart the device.

Restore Factory Defaults:
This will restore the device to original factory setting. User will need to reconfigure the authentication setting in order to get the device operational.

4. FAQ and Troubleshooting

1) My PC cannot connect to the CPE.

- Re-plug the PC Ethernet cable and check if the PC LAN connection is up or showing activity.
- Check if the system run LED is on. If it is not, check the power cord and make sure it is connected properly. Also verify that the AC power supply is available.
- If the PC LAN shows no activity and system run LED is off but the power cord is connected properly and there is AC supply, then it is likely the adapter is damaged. Please contact distributor to obtain replacement part.

2) My PC cannot acquire IP from the CPE.

- First check if the NIC is up and working properly. Then check the PC NIC configuration and make sure the DHCP is enabled.
- Open the MS-DOS window, enter “ipconfig /release” and “ipconfig /renew” commands and see if PC can obtain IP correctly.
- If the problem persists, please contact the operator or distributor for further diagnose.

3) My CPE networking is not working properly.

- You may want to check if the LTE connection is up and running properly. You can do this by login the WEB GUI and check the Interface Info page.
- You may want to perform a factory reset and see if the problem is being corrected. You can do this by log into the WEB GUI using “admin” password and perform restore the unit to default factory setting.
- If the problem cannot be corrected by factory reset, please contact the operator or distributor for further diagnose.

4) I forget the login password and like to reset the unit to factory default.

- Please contact the operator or distributor and give them the MAC address of the unit. The operator or distributor can issue you a RESET password for you to enter in the WEB login window.
- After the unit is reset to factory default, you can login using the default password.