



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
	- Panel antenna:
	B3_7 14dBi, B20 7dBi, B38_40_41 13dBi, B42_43 14dBi
	- 1 RJ45 10/100M LAN Port
ODU	- 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	> 23 or 27 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 lighting 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<= -118dBm 2 green LEDS: -118 dBm <=RSRP< -105 dBm 3 green LEDS:-105dBm<=RSRP< -95dBm 4 green LEDS:-95dBm<=RSRP< -85dBm 5 green LEDS:-85dBm<=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".

🔊 Log in		
Please ente Password	r your login password	
	Log in	

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 Appli	cations Management Maintenance Status	E Exit
Overview ND&S PLMN Selection	eNB Settings Bearer Settings SIM Card PIN Management	👃 admin
LTE Information		Help
- System Information		System Information:
Manufacturer		This section shows the basic device
Model Name		4G Radio hardware and firmware information.
Chip Model	SQN31X0	
Serial Number	KZT081FFF233	Radio Information:
IMEI	864423020000211	wireless information.
IMSI	200010001001310	
Duplexing Scheme	TDD	Connection:
Supported Band	42/43	This section shows the status of connectting for 4G Radio.
Firmware Version	3.3.2.0-18727	-
		Activity:
	07.05 / 00.07 dDm	snows the number of receiving and sending packets
ROR	-97.907-90.07 GBM	
ROD ROD	-90,9 dBm	
CINE	-7.23 0B	
CINK	11	
Bank Indication	1	
UL/DL Bandwidth	- 20000 / 20000 KHz	
UL/DL Frequency	3540000 / 3540000 KHz	
RRC State	active	
EMM State	registered	
CRNTI	114	
PCI	3	
eNodeB ID	3	
TX Power	-3.71 dBm	
UL/DL Throughput	0 / 9 Kbps	
Connection		
Media State	ATTACHED	
Connection Time	1min 52 sec	
SIM Card State	Ready	
Signal Quality	94%	
Network Description	internet	
Registered PLMN	20011	
Bearer Info	ID 5, QCI 7, RLC TM	
IPv4 Address	10.12.100.3	
IPv4 DNS	8.8.8.8 4.2.2.1	
IPv6 Address		
IPv6 DNS		
Activity		Ĩ
Sent	841,859 bytes / 10,295 packets	
Received	16,240,217 bytes / 12,177 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:

LTE Network Security Applications Management Maintenance Status	🖪 Exit
Overview ND&S PLMN Selection eNB Settings Bearer Settings SIM Card PIN Management	🖡 admin
ND&S	Help
Select 4G Radio 4G Radio OFF	ND&S: In this page, you can turn on/off the 4G radio and set band settings including the band ID and
Band ID Start Frequency(MHz) End Frequency(MHz) Start Earfcn End Earfcn Delete 42 3540 3540 42990 42990 Delete	Earfcn/Frequency. Earfcn Range: B42 41590 - 43589
Add Cancel	B43 43590 - 45589
Save & Apply Cancel Changes	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:

LTE Network Security Applications Management Maintenance Status	E Exit
Overview ND&S PLMN Selection eNB Settings Bearer Settings SIM Card PIN Management	👗 admin
Bearer Settings	Help
Bearer List Index APN Name Class ID IP Type Priority Delete 1 internet	Bearer List: Setting up to 8 Bearer,The most length of APN Name is 64 bytes.
Add Cancel Save & Apply Cancel Changes	

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 Mana	gement Maint	enance Status			🖪 Exit
Overview ND&S	B PLMN Selection	eNB Settings	Bearer Setting	SIM Card	PIN Management	🧍 admin
Bearer Settings	S					Help
- Bearer List						Bearer List:
Index APN N	2000			Tvpo Pri	ority Doloto	Setting up to 8 Bearer, The most
1 internet	t			/4v6 ✓ U	Delete	length of APN Name is 64 bytes.
2 ctite			2 V IP	/4v6 y U	n Delete	
		Add	ancel			
	Sa	ave & Apply	Cancel Changes			
					f -ll	
And the CPE	will obtain tw	o amerent	IP for two n	etworks,	as follow:	
LTE Network	Security Applic	cations Manag	jement Mainte	nance Sta	us	EXIL
System Netwo	rk LAN					admin 🥈 admin
Network Status	3					Help
- PDN Info						PDN Info:
PDN Index		1 💌				When the wanprotol is PDN show PDN IP Map
APN		internet				
IP Address		10.12.100.5				Route:
DNS		8.8.8.8 4.2.2.1				The routing table information.
IPv6 Address						ARP:
IPv6 DNS						The ARP table information.
CID		1				
Route						-
Destination	Default Catoway	Conmosk	Elogo Mot	ric Dof I	loo lfaca	
default	*	0.0.0.0	U 0		icc0.1121	
10.1.1.0	*	255.255.255.0	U 0	0 0	br0	
127.0.0.0 192.168.0.0	*	255.0.0.0 255.255.255.0	U 0 U 0	0 0	lo br0	
ADD						
IP Address	HW type	Flags	HW Address	Mask *	Device	
192.168.0.100	0x1	0x2 0	8:2b:cb:e8:58:6f	*	br0	
8.8.8.8	0x1	0x2 6	ic:ad:ef:15:ba:97	*	icc0.1122	
8.8.8.8	0x1 0x1	0x2 6 0x2 6	ic:ad:ef:14:ba:96 ic:ad:ef:15:ba:97	*	icc0.1121 icc0.1122	
106.120.167.26	0x1	0x2 6	c:ad:ef:15:ba:97	*	icc0.1122	
165.254.27.83	0x1	0x2 6	c:ad:ef:15:ba:97	*	icc0.1122	
184.25.56.76	0x1	0x2 6	ic:ad:ef:15:ba:97	*	icc0.1122	
10.3.0.14	0x1	0x2 6	cad:ef:15:ba:97	*	icc0.1122	
220.181.156.118	3 0x1	0x2 6	c:ad:ef:15:ba:97	*	icc0.1122	
106.120.167.7	0x1	0x2 6	c:ad:ef:15:ba:97	*	icc0.1122	
4.2.2.1	0x1	0x2 6	ic:ad:ef:15:ba:97	*	icc0.1122	
4.2.2.1	0x1	0x2 6	c:ad:ef:14:ba:96	*	icc0.1121	

TE Network Se	ecurity Appli	cations Ma	nagement	Mainten	ance	Status		E E
System Network	LAN							👗 adm
Network Status								Help
– PDN Info ————								PDN Info:
PDN Index		2 💌						When the wanprotol is PDN show
APN		ctite.mnc011	.mcc200.gpr	s				РОМ ГР Мар.
IP Address		10.11.100.4						Route:
DNS		8.8.8.8 4.2.	2.1					The routing table information.
IPv6 Address								ADD:
IPv6 DNS								The APP table information
		2						The Arce table mormation.
CID		2						
Destination Destination default * 10.1.1.0 * 127.0.0.0 *	fault Gateway	Genmask 0.0.0.0 255.255.25 255.0.0.0	Flag U 5.0 U U	s Metrio O O O	C Ref 0 0 0	Use 0 0 0	icc0.1121 br0 lo	
192.168.0.0 *		255.255.25	5.0 U	0	0	0	br0	
- ARP								
IP Address	HW type	Flags	HW Addr	ess	Ма	ask	Device	
192.168.0.100	0x1	0x2	78:2b:cb:e	8:58:6f	*		br0	
8.8.8.8	0x1	0x2	6c:ad:ef:1	5:ba:97	*		icc0.1122	
74.125.204.120	0x1	0x2	6c:ad:ef:1	5:ba:97	*		icc0.1122	
94.245.121.253	0x1	0x2	6c:ad:ef:1	5:ba:97	*		ICC0.1122	
8.8.8.8	Ux1	0x2	6c:ad:ef:14	4:Da:96	*		ICCU.1121	
101.199.103.180	UX1	0x2	oc:ad:ef:1	5:08:97 5:5e:07	*		ICC0.1122	
220.181.131.226	UX1	0x2	oc:ad:ef:1	5.08:97 5:bo:07	*		icc0.1122	
74 105 004 04	0x1	0x2	Science: 1	5.ba:97	*		icc0.1122	
165 254 146 202	0×1	0x2	Beradief 1	5.ba:07	*		icc0.1122	
100 LZ 19 190 ZU3	0.1	0x2	Record of 1	5.6a.97	*		icc0.1122	
4221	021							

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.

LTE Network Security Applic	ations Management Maintenance Status	🖪 Exit
Overview ND&S PLMN Selection	eNB Settings Bearer Settings SIM Card PIN Management	🌲 admin
PLMN Selection		Help
PLMN Selection		PLMN Selection:
Network Mode	Nomadic V Search	Enable manual search. It will interrupt
PLMN ID	200 11 V Add into list	searching available network.
Home PLMN-ID	200,01	Fauivalent PI MN-ID list:
Allow Roaming	✓ Enable	PLMN-ID configuration and priority setting. Equivalent PLMN-ID isn't
Equivalent PLMN-ID list		attach
Index MCC	MNC Priority Delete	
1 200	11 Up Delete	
	Add Cancel	
Sa	ave & Apply Cancel Changes	

• 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

LTE Network Security Applications Management Maintenance Status	E Exit
Overview ND&S PLMN Selection ENB Settings Bearer Settings SIM Card PIN Management	👗 admin
eNB Settings	Help
Preferred eNB Settings Preferred eNB List Lock ND&S to the preferred list	eNB Settings: UE selects eNB from the preferred eNBs preferentially only when enbaled.
Auto-Rescan Duration 0 Mins(15~65535) Priority Earfcn PCI(0~503) Delete 1 42990 3 Delete	Earfon Range: B42 41590 - 43589 B43 43590 - 45589
Add Cancel	Auto-Rescan Duration: Range 15-65535 mins; 0 - timer is disabled!
Save & Apply Cancel Changes	
Sorted eNB List Clear Last Found Channels	
Index Earfcn PCI RSRP(dBm) RSRQ(dB) RSSI(dBm) CINR(dB) 1 42990 3 -94.7 -7 -79.9 29.2	
Refresh eNB List	

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

LTE Network Security	Applications Management Maintenance Status	E Exit
Internet LAN VPN QoS	DDNS Traffic Control	👗 admin
Internet Setup		Help
Connection Mode	● Router / NAT ○ L2 Bridge (GRE) ○ L3 Bridge	Host Name: Enter the host name provided by your ISP.
Optional Device Name Host Name Domain Name MTU IP Type	Manual ✓ 1300 ○ IPv4 ○ IPv6 ● IPv4v6	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).
DS-Lite Connection DS-Lite Configuration AFTR IPv6 Address B4 IPv4 Address WAN IPv6 Address IPv6 WAN Default Gateway	Disable O Manual Config	
	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

LTE Network Security	Management Maintenance Status	🗲 Exit
Internet VPN L2 Servic	e QoS	🖡 admin
Internet Setup		Help
Internet Connection	○ Router / NAT ○ L2 Bridge (GRE)	Host Name: Enter the host name provided by your ISP.
- Optional		Domain Name: Enter the domain name provided by
Device Name Host Name		
Domain Name MTU	Default v 1500	
ІР Туре	○ IPv4 ○ IPv6 ● IPv4v6	
	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.

LTE Network Security	Applications Management Maintenance Status	s 🖻 Exit
Port Range Forwarding Port I	Forwarding DMZ UPnP Port Triggering	🐁 admin
Demilitarized Zone (DMZ)		Help
DMZ		DMZ:
DMZ Enable Status DMZ Host IP Address Exclude Web Server Port Exclude Remote Port	 Enable Disable 192.168.0. 100 Enable Enable 	Enabling this option will expose the specified host to the Internet. All ports will be accessible from the Internet.
Exclude Ping	Enable	
I	Save & Apply Cancel Changes	

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.

Device Management Help Device Management Setting Local: Device Management Local: Device Management Mode TR069 v Device Management Control TR069: Remote connection(telnet&ssh) Enable Access Control Unrestricted Access v Auto-Logout Timeout Enable v 20 (minutes:1 ~ 25)	TE Network Security Applications Management Maintenance Status	E Exi
Device Management Setting Help Device Management Local: Device Management Mode TR069 v Device Management Control Means user will configure all the device setting locally. Device Management Control TR069: Remote connection(telnet&ssh) Enable Access Control Unrestricted Access v Auto-Logout Timeout Enable v 20 (minutes:1 ~ 25)	Device Management TR069 Configuration	🥈 admir
Device Management Local: Device Management Mode TR069 ▼ Device Management Control Means user will configure all the device setting locally. Device Management Control TR069: Remote connection(telnet&ssh) Enable Access Control Unrestricted Access ▼ Auto-Logout Timeout Enable ▼ 20 (minutes:1 ~ 25) Access Control: It defines the login restriction for and SSHD access, as well control	Device Management Setting	Help
Device Management Mode TR069 v Means user will configure all the device setting locally. • Device Management Control TR069: Means the device will be management evice will be evic	- Device Mangement	Local:
Device Management Control TR069: Remote connection(telnet&ssh) Enable Access Control Unrestricted Access Auto-Logout Timeout Enable 20 (minutes:1 ~ 25) Access Control: It defines the login restriction for and SSHD access, as well control	Device Management Mode TR069 V	Means user will configure all the device setting locally.
Remote connection(telnet&ssh) Image: Enable Means the device will be manageremotely using standard TR069 Access Control Unrestricted Access Image: Platform Auto-Logout Timeout Enable 20 (minutes:1 ~ 25) Access Control It defines the login restriction for and SSHD access, as well control	Device Management Control	TR069:
Access Control Unrestricted Access v Auto-Logout Timeout Enable v 20 (minutes:1~25) It defines the login restriction for and SSHD access, as well control	Remote connection(telnet&ssh) I Enable	Means the device will be managed remotely using standard TR069
Auto-Logout Timeout Enable 20 (minutes:1~25) Access Control: It defines the login restriction for and SSHD access, as well control	Access Control Unrestricted Access 🗸	platform.
It defines the login restriction for and SSHD access, as well contr	Auto-Logout Timeout Enable 🔽 20 (minutes:1~25)	Access Control:
and SSHD access, as well contr		It defines the login restriction for Web
Save & Apply Cancel Changes how hard RESET works.	Save & Apply Cancel Changes	and SSHD access, as well controls how hard RESET works.

cmd shell and run command: telnet 192.168.0.1 Login: admin Password: root123

TR069 Configuration ٠

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.

LTE Network Security Applications Management Maintenance Status	🖪 Exit
Device Management TR069 Configuration	🗍 admin
Device Management Setting	Help
Device Management Mode TR069 V	Local: Means user will configure all the device setting locally.
Device Management Control Remote connection(telnet&ssh) Image: Access Control Unrestricted Access	TR069: Means the device will be managed remotely using standard TR069 platform.
Auto-Logout Timeout Enable 20 (minutes: 1 ~ 25) Save & Apply Cancel Changes	Access Control: It defines the login restriction for Web and SSHD access, as well controls how hard RESET works.
LTE Network Security Applications Management Maintenance Status	E Exit

Device Management TR069 Config	uration	🖡 admin
TR069 Management Setting		Help
TR069 Configuration		TR069 Configuration
ACS URL	http://10.3.0.15:8080/im2000/acs	This part contains TR069 ACS server and ACS STUN server configuration
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		1
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)	
Save & A	pply Cancel Changes undefined	

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• 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.

LTE Network Security Applications Management Maintenance Status	🖪 Exit
General Firmware Upgrade Config Management Ping System Reset	🤱 admin
Firmware Management	Help
Local Firmware Upgrade	Local Firmware Upgrade:
After flashing, reset to O No reset ● Default settings Please select a file to upgrade 选择文件 AM4000D_V18_R1485.PRG	Click on the <i>Browse</i> button to select the firmware file to be uploaded to the device.
Upgrade	Click the Upgrade button to begin the upgrade process which must not be interrupted.
Remote Firmware Upgrade	Remote Firmware Upgrade:
Update Method None 🗸	You need to fill in the connection configs of HTTP,FTP or TFTP server.
Save & Apply Cancel Changes	Click the Upgrade button to begin the upgrade process which must not be interrupted.

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.

LTE Network Security Applications Management Maintenance Status	🖪 Exit
General Firmware Upgrade Config Management Ping System Reset	🖡 admin
Firmware Management	Help
W A R N I N G Upgrading firmware may take a few minutes. Do not turn off the power or press the reset button!	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. Remote Firmware Upgrade: You need to fill in the connection configs of HTTP,FTP or TFTP server. Click the Upgrade button to begin the upgrade process which must not be interrupted.
Upgrade successful. Equipment is rebooting now. Please wait a moment	

Change Password

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

LTE Network Security Ap	plications Management	Maintenance	Status	🔁 Exit
General Firmware Upgrade C	Config Management Ping	System Reset	_	🖡 admin
Change Password				Help
Change Password				Old Password:
Username	admin			The password currently in use.
Old Password	•••••			New Password:
New Password	•••••			The new password length is 4 to 20
Re-enter to Confirm	•••••			a~Z Enter the new password a
Time Settings				second time to confirm it.
Time Settings				Time Settings:
NTP Enable Status	Enable			Choose the time zone you are in and Summer Time (DST) period. The
Time Zone / Summer Time (DST)	UTC+08:00 / last Sun M	ar - Iast Sun Oct 🗸]	time.
NTP Server	0.pool.ntp.org	(e.g. time.nist.gov)		Language Management:
Use Local Host Time	Tue 24 Mar 2015 19:31:3	30 Sync		The language selection allows user
Refresh Interval	/20 (minutes:5 ~	1440)		to select the prefered laguange for Web GUI interface
Language Management				
- Language Selection				Auto-Refresh:
Language	English 🗸			page contains dynamica data will be automatically refreshed when the page is open.
Auto-Refresh				
Auto-Refresh				
Auto-Refresh	Enable			
[Save & Apply Cancel C	hanges		

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.

LTE Network Security Applications Management Maintenance Status	E Exit
General Firmware Upgrade Config Management Ping System Reset	🌲 admin
System Reset	Help
System Reboot System Reboot Reboot	System Reboot: Click the Reboot button to restart the device.
Restore Factory Defaults Restore	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.

Maintance->System Rest->Restore

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.