

JATONTEC JT3300V LTE-A CAT7 Indoor CPE

User Manual v2.0



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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 human body to keep close contact with the device for long period of time while the transmitter is operating.

Protection from Rain and Lightning



The device needs to operate in an indoor environment where no rain or water leakage can be exposed to the device. 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, Authorization 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

This CPE unit can comply with Part 15B 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 90 & 90Z, Subpart E of the FCC Rules and Regulations. Any unauthorized modification or changes to this device may void the operator'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 operator's authority to operate this device and/or the manufacturer's warranty.

EC Conformance Declaration

Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment can meet the following conformance standards:

- EN 60950-1 (IEC 60950-1) - Product Safety
- EN 301 489-1, EN 301 489-17, EN 300 328 - EMC requirements for radio equipment

This device is intended for use in all European Community countries.

1. Overview

The JT3300V CPE is an advanced 4G dual mode and multiple port indoor Wi-Fi & SIP VoIP CPE product designed to enable quick and easy LTE data service deployment for residential and SOHO customers. It provides high speed LAN, Wi-Fi and VoIP integrated services to end users who need both bandwidth and multi-media data service in home or enterprise environment.



■ Operator Device Specification

Model	Description & Operator Interface
JT3300V	<ul style="list-style-type: none"> - Built-in LTE antenna: up to 6dBi (4x2, B42/43, Omni) - Built-in Wi-Fi antenna: up to 3~5dBi (2x2, 2.4GHz/5GHz Omni) - 2 RJ45 10/100M ETH, 1 RJ11/FXS Port - SYS, NET, RF (4 Level LEDs), 2.4G Wi-Fi, 5GHz Wi-Fi, LINE - 12V/1A DC Adapter - Dimensions: 151mm x 122mm x 161.7mm - Weight: < 500g

■ Radio Interface Specification

Frequency Bands	Band 42 & 43
Radio Access	3GPP E-UTRA Release 10
Operation Mode	TDD
Output Power	23dBm (B42/43)
Throughput	Category 7
SIM Support	SIM card slot (2FF)

■ Wi-Fi Interface

Radio Access	802.11b/g/n/ac (2.4GHz 300 Mbps, 5GHz 867Mbps)
Output Power	15 ± 1dBm
Antenna	3 ± 1dBi (2.4GHz) 5 ± 1dBi (5GHz)
Security	64/128-bit WEP, WPA/WPA2

2. Getting Started

■ 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
Main System unit	1
12V/ 1A DC Power Adapter	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.



IDU



Power adapter



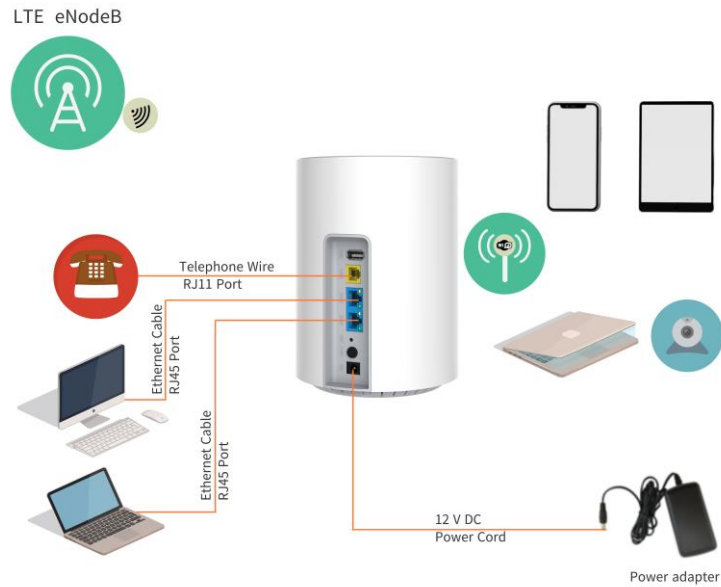
Ethernet cable

■ Installing and power on

To power on the device, the indoor CPE uses a 12V DC power supply from the adapter. All power adapters can operate in 100-240V AC range and therefore can be used in different countries. Once the device is powered, the operator should wait for about 2 minutes before the device becomes operational. The CPE SYS LED indicator will change from Blinking to Solid orange light to indicate the device has completed the startup procedure.

To connect PC, LAN switch or other type of Ethernet device to the CPE product, the operator should use standard CAT5 Ethernet cable and connect to the appropriate LAN port. Once connected, the corresponding CPE LAN Green LED indicator should light up.

To use the phone service, operator can simply plug the phone line to the CPE RJ11 port in the back. If the line is not registered or configured, a fast busy tone will be provided and the corresponding Line LED will be off.



■ **LED Display**

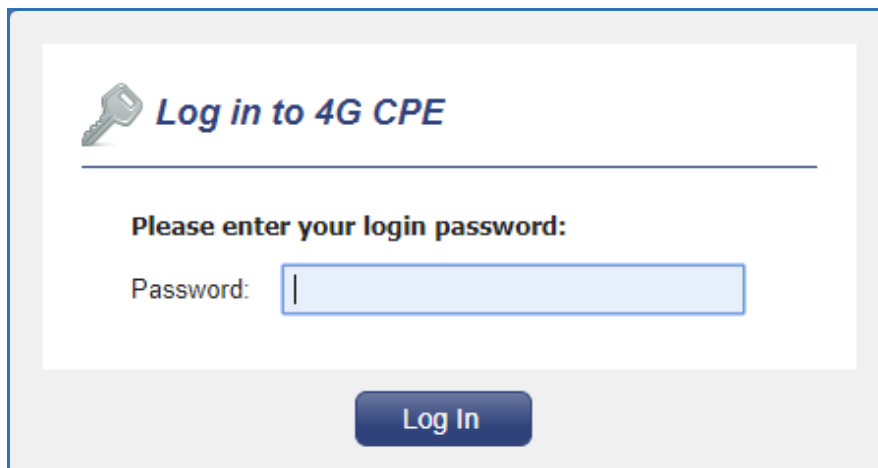
LED Indicator	Functions	Description
SYS	System indicator	Orange Color – Device is powered on and booting, Wireless access not ready. Blinking Orange – SIM card is error. Green Color —Network is available.
NET	WAN indicator	
RF	Wireless signal indicator	OFF – No wireless connection is established RF1: $-115\text{dBm} \leq \text{RSRP} < -110\text{dBm}$ RF2: $-110\text{dBm} \leq \text{RSRP} < -105\text{dBm}$ RF3: $-105\text{dBm} \leq \text{RSRP} < -97\text{dBm}$ RF4: $-97\text{dBm} \leq \text{RSRP}$
2.4G	2.4GHz Wi-Fi & WPS status indicator	Green Light – Wi-Fi is enabled and working. Blinking Orange – Device WPS is triggered and at work
5G	5GHz Wi-Fi & WPS status indicator	Green Light – Wi-Fi is enabled and working. Blinking Orange – Device WPS is triggered and at work
Line	POTS line status indicator	OFF – Line is not registered or provisioned. Green Color – The line is ready and registered Green Blinking – Voice call is in progress
LAN(Backface)	LAN port status indicator	OFF – No LAN cable connected Solid Green – The LAN port is up Blinking Green – LAN data transmission in progress


3. Managing CPE Device

The JT3300V offers rich management features which facilitate the task of service provider. It supports local management access, Telnet, WEB, and centralized remote OTA configuration, upgrades management and device monitoring via standard TR-069 ACS systems. The following describes the basic procedures for configuring the device for LTE operation.

■ WEB Login

It is a preferred to setup the CPE using a Web browser from a local PC connected to device LAN port. The operator should ensure that the connected PC has acquired IP address via DHCP from the device. After IP connectivity is established between the PC and CPE device, the operator may launch a Web browser and specify <http://172.16.1.1> 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 the default password is “[admin123](#)”.



 **Log in to 4G CPE**

Please enter your login password:

Password:

Log In

4. System Information

■ System Status

The menu shows the general system info of the CPE device. It includes system, general, WAN, LAN, Wi-Fi information.

The screenshot displays the '4G CPE' web interface. At the top right, it shows 'Software Version: V2.0.0B01' and user controls for 'admin', 'Logout', and 'Reboot'. A left-hand 'MENU' sidebar lists options like 'System Information', 'Wireless Configuration', 'Network Configuration', 'Wi-Fi Configuration', 'Service Configuration', 'VoIP Configuration', and 'System Maintenance'. The main content area is titled 'System Status' and is divided into several sections:

- System Information:** Manufacturer, Software Version (V2.0.0B01), Hardware Version (V1.0), Serial Number, MAC Address (6C:AD:EF:FF:17:02), System Current Time (2017-11-01 00:08:56), System Up Time (3 mins, 27 secs), and Operation Mode (Router).
- General Information:** Connect Status (DISCONNECTED), Network Operator, Technology (LTE), Connected Time, and Signal Strength (represented by a green bar and -97 dBm).
- WAN Information:** Connected Type (LTE PDN), IP Address (10.11.102.86), Subnet Mask (255.255.255.255), Default Gateway (10.11.102.86), and DNS Server (202.96.128.86, 202.96.134.33).
- LAN Information:** LAN IP Address (192.168.0.1) and Subnet Netmask (255.255.255.0).
- Wi-Fi Information (2.4GHz):** SSID (MyWiFi-FF1702 (ON)), Security Mode (WPA-PSK / WPA2-PSK), Wi-Fi Mode (802.11b/g/n Mixed), and Channel (Auto (Channel 12)).
- Wi-Fi Information (5GHz):** SSID (MyWiFi5G-FF1702 (ON)), Security Mode (WPA-PSK / WPA2-PSK), Wi-Fi Mode (802.11ac/an/a Mixed), and Channel (Auto (Channel 44)).

■ Network

The menu shows the general network status that includes PDN interface info.

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

System Status **Network** Statistics Info

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

— PDN Index#1 —

APN Name:
 IP Address: 10.11.102.86
 Subnet Mask: 255.255.255.255
 Default Gateway: 10.11.102.86
 DNS Server: 202.96.128.86 202.96.134.33

— PDN Index#2 —

APN Name: APN2
 IP Address:
 Subnet Mask: 255.255.255.255
 Default Gateway:
 DNS Server:

— PDN Index#3 —

APN Name: APN3
 IP Address:
 Subnet Mask: 255.255.255.255
 Default Gateway:
 DNS Server:

— PDN Index#4 —

APN Name: APN4
 IP Address:
 Subnet Mask: 255.255.255.255
 Default Gateway:
 DNS Server:

■ Statistics Info

The menu shows the CPE device traffic statistics and memory usage information.

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

System Status Network **Statistics Info**

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

— Traffic Statistics —

Interface	Rx Packet	Rx Byte	Tx Packet	Tx Byte
APN #1	8	424	34	2783
APN #2	-	-	-	-
APN #3	-	-	-	-
APN #4	-	-	-	-
LAN	916	98987	1468	1248636
Wi-Fi 2.4GHz	0	0	0	0
Wi-Fi 5GHz	0	0	0	0

— Memory —

Memory Total: 125848 kB
 Memory Left: 68528 kB

5. LTE Configuration

Interface Info

The LTE interface info GUI gives detailed LTE information about the radio connection, the UL/DL Bandwidth, UL/DL Frequency, the receiving signal strength of the device by the LTE Info WEB GUI.

Software Version: V2.0.0B01

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Interface Info Radio Settings PDN PLMN Selection Advanced PIN Management

Radio Info

Connection State: **CONNECTED**

Connected Time: 5 mins, 41 secs

Band ID: 42 Bandwidth: 20 MHz

UL EARFCN: 42690 DL EARFCN: 42690

UL Frequency: 3510000 KHz DL Frequency: 3510000 KHz

RSRP (dBm): -98, -101, -130, -143 RSRQ (dB): -6, -6, -26, -22

CINR (dB): 15.3, 12, -13.8, -14.3 RSSI (dBm): -72, -75, -82, -81

C-RNTI: 0 RRC State: IDLE

Cell Resel Priority: 7 SNonIntraSearch: 31

Thresh Serving Low (dB): 31 SINtraSearch: 31

Cell Selection Rx Level: 30 TAC: 49, 50

Cell ID: 36353 PCI: 3

Transfer Mode: 2 Data Roaming: HOME

TX Power: 0 dBm PLMN Status: CAMPING

PLMN ID: 46088 Service Provider: -

CA Info

Index	Band	EARFCN	Frequency/Bandwidth	PCI	RSSI (dBm)	RSRP (dBm)	RSRQ (dB)	CINR (dB)
-								

Module Info

Chip Model: GCT7423 SIM Card State: READY

Duplexing Scheme: TDD IMSI: 460880000000013

Serial Number: KZT3300V1702 IMEI: 864423020006556

Firmware Version: 0.3.2.6

Radio Settings

The LTE radio can be enabled or disabled via 4G Radio setting. The radio can also be reset via Reconnect.

Software Version: V2.0.0B2551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Interface Info Radio Settings PDN PLMN Selection Advanced PIN Management

Radio

Radio Enable Status: Enable

Apply Cancel

■ PDN

This menu is used to configure the operator APN profile. You can configure single or multiple APNs for the operator network. The below shows an example of two APN configuration.

The screenshot shows the '4G CPE' configuration interface. The 'PDN' tab is selected, and the 'APN Selection' dropdown is set to '# 1'. The 'APN Settings' section includes the following fields:

- Enable: Enable
- APN Name:
- Authentication Type:
- Network Type:
- MTU: (800-1580)
- Default Gateway: Enable
- APN Type:

Buttons for 'Save & Commit', 'Apply', and 'Cancel' are visible. Below the settings is an 'APN List' table:

APN Name	Enable	Mode	Default Gateway	APN Type	LAN Port
(null)	Enable	NAT	Enable	TR069 + VoIP	--
APN2	Disable	NAT	--	--	--
APN3	Disable	NAT	--	--	--
APN4	Disable	NAT	--	--	--

The user can view the APN status info in the System Information - Network menu.

■ PLMN Selection

The user can add and configure the PLMN list to restrict the CPE to attach. The CPE will attach to network according to the PLMN priority assigned. It is recommended to use Auto selection for normal user.

The screenshot shows the '4G CPE' configuration interface. The 'PLMN Selection' tab is selected. The 'Network Search' section includes the following fields:

- Operators:
- Power Scan:
- Data Roaming: Enable

The 'PLMN Search Type' section includes a table:

Search Type	Value	Operate
Band	--	<input type="button" value="+"/> <input type="button" value="🗑"/>
EARFCN	42290	<input type="button" value="+"/> <input type="button" value="🗑"/>
EARFCN Range	--	<input type="button" value="+"/> <input type="button" value="🗑"/>

Buttons for 'Apply' and 'Cancel' are visible at the bottom.

Software Version: V2.0.0B2551

admin Logout Reboot

4G CPE

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Interface Info
Radio Settings
PDN
PLMN Selection
Advanced
PIN Management

— Network Search —

Operators: MANUAL

MCC: 460

MNC: 00

Power Scan: First Detected Cell

Data Roaming: Enable

— PLMN Search Type —

Search Type	Value	Operate
Band	--	+ -
EARFCN	42290	+ -
EARFCN Range	--	+ -

Apply
Cancel

The “First Detected Cell” scan will allow you to quickly connect to good cell when they are first found instead of search the best cell. The ZUC encryption support is only required when your core network (EPC) force to use the ZUC encryption for access authentication.

User can also configure the scan band or EARFCN for the PLMN search. Data roaming option can be configured or disabled.

Band Setting ✕

Band Support:

B42 B43

Add

EARFCN Setting ✕

Band Select: B42 (41590~43589)

EARFCN:

(eg: 1200,1201,...)

Add

EARFCN Range Setting ✕

Band Select: B42 (41590~43589)

EARFCN Range:

(eg: 1200~1300,1400~1500,...)

Add

■ Advanced

Software Version: V2.0.0B2551

admin Logout Reboot

4G CPE

Interface Info Radio Settings PDN PLMN Selection **Advanced** PIN Management

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

— EMM Timer —

T3402: 12 1 minute

T3411: 5 2 seconds

— PSM Timer —

Mode: Disable

T3324: 5 2 seconds

T3412: 1 10 hours

— Location Service —

LCS Mode: Disable

LPP Mode: Disable

— UE Mode —

Mode: PS mode 2

— Operation Mode —

Mode: CAT 7/6/4 (2x2 MIMO, CA)
CAT 5 (4x4 MIMO, UL QAM64)
CAT 7/6/4 (2x2 MIMO, CA)

Apply Cancel

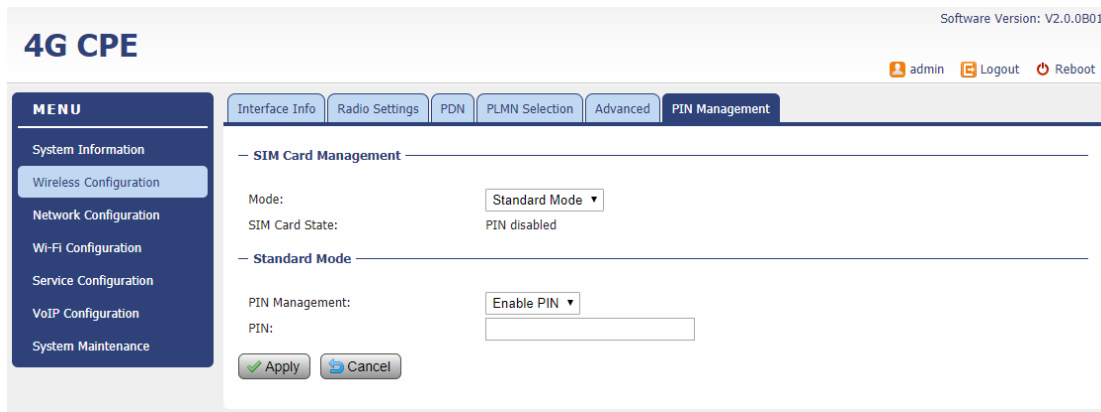
In this menu, you can configure advanced options for the CPE operation.

Fast scan will allow you to quickly connect to good cell when they are first found instead of search the best cell. The ZUC encryption support is only required when your core network (EPC) force to use the ZUC encryption for access authentication. The operation mode allows you to select the UE capability for receiving and transmitting. Depending on the hardware implementation, 4x4 MIMO or 2x2 MIMO & CA can be selected for downlink operation. If the RF hardware supports 2TX, then 2Tx operation can be enabled.

In addition, the PSM timer and location service UE settings can also be configured for advanced users. Default settings should be used for normal operation.

■ PIN Management

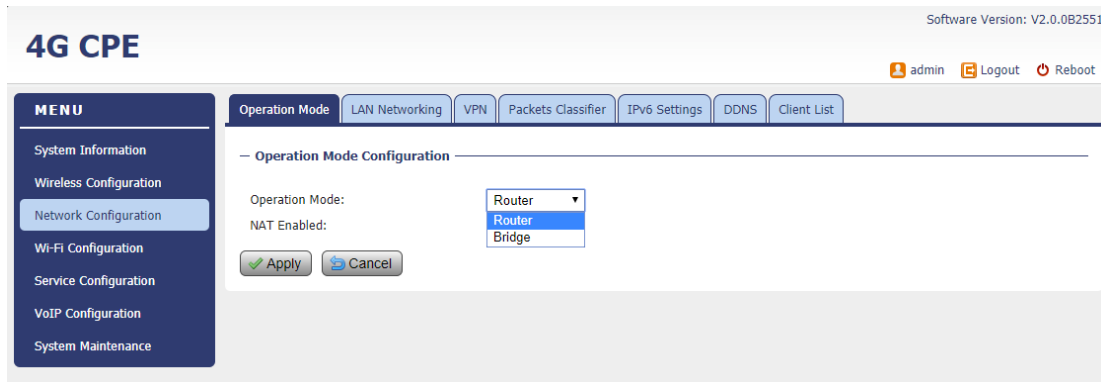
The PIN Management menu is used to view the SIM card status and perform PIN code management for SIM card. You can disable or enable the SIM card PIN check on the CPE to bind the SIM card inserted.



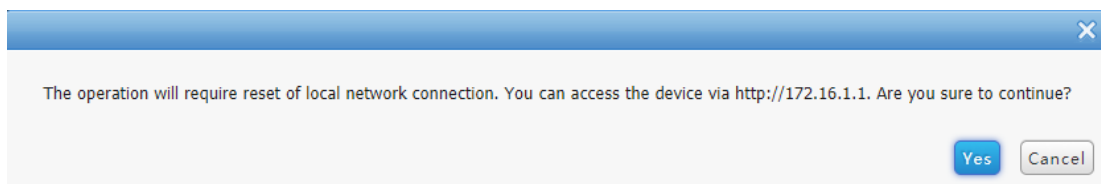
6. Network Configuration

■ Operation Mode Setting

The default device Operation Mode is Router, and the PC connected to device LAN port will obtain IP address via DHCP client.



The device operation mode could be changed from Router to Bridge if necessary as shown by the following diagram:



In Bridge mode, the PC which connected the LAN port of the CPE will obtain the IP directly from

the network. However, the device WEB GUI may still be accessed via port 8080 from remote side if remote management is enabled. For local LAN access, the user or operator can configure LAN PC with a static IP address as 172.16.1.x and login the WEB GUI via <http://172.16.1.1>.

■ LAN Networking

The LAN setting allows user to specify the device LAN IP, DHCP server setting, Local DNS and 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.

4G CPE
Software Version: V2.0.0801

admin Logout Reboot

MENU
 System Information
 Wireless Configuration
Network Configuration
 Wi-Fi Configuration
 Service Configuration
 VoIP Configuration
 System Maintenance

Operation Mode
LAN Networking
VPN
Packets Classifier
IPv6 Settings
DDNS
Client List

LAN Setup

IP Address: . . .

Subnet Mask: . . .

MAC Address: 6C:AD:EF:FF:17:02

DHCP Configuration

DHCP Type:

Start IP Address: . . .

End IP Address: . . .

Lease Time: (Minutes: 1 ~ 4320)

DNS Server Address Mode:

DNS Proxy:

Statically Assigned

IP Address	MAC Address
<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>	<input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/>
<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>	<input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/>
<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>	<input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/>

Setup Options

802.1d Spanning Tree:

LLTD:

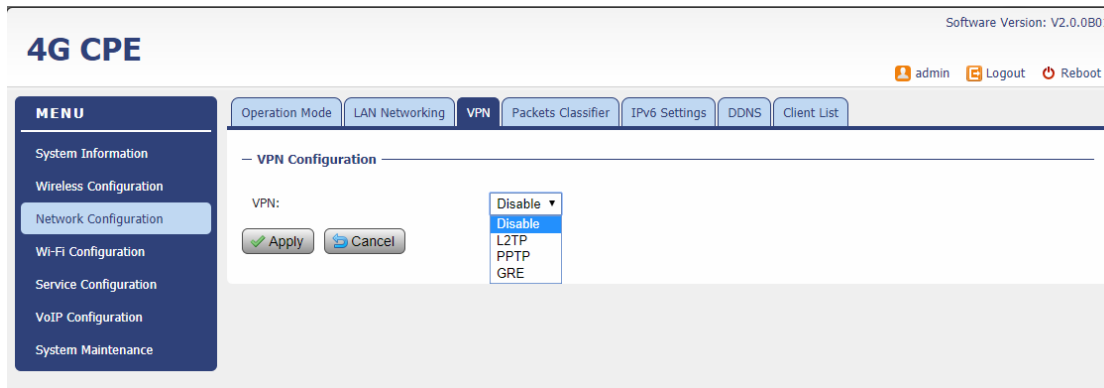
IGMP Proxy:

Router Advertisement:

■ VPN Setting Under Router Mode

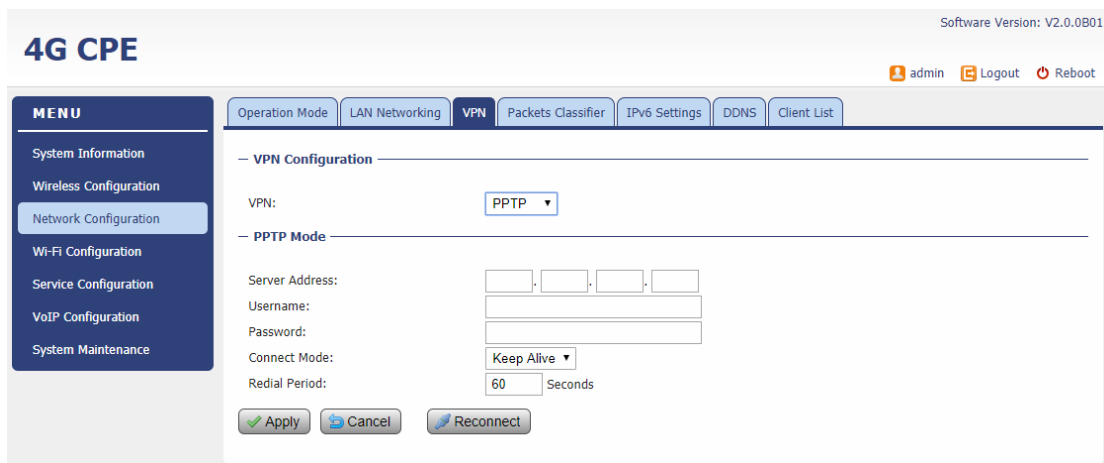
This section allows user to configure VPN service for selected connection mode. In router mode, PPTP, L2TP and GRE can be selected. In L2 Bridge mode, only L2 GRE can be configured.

The router mode VPN configuration is shown below.



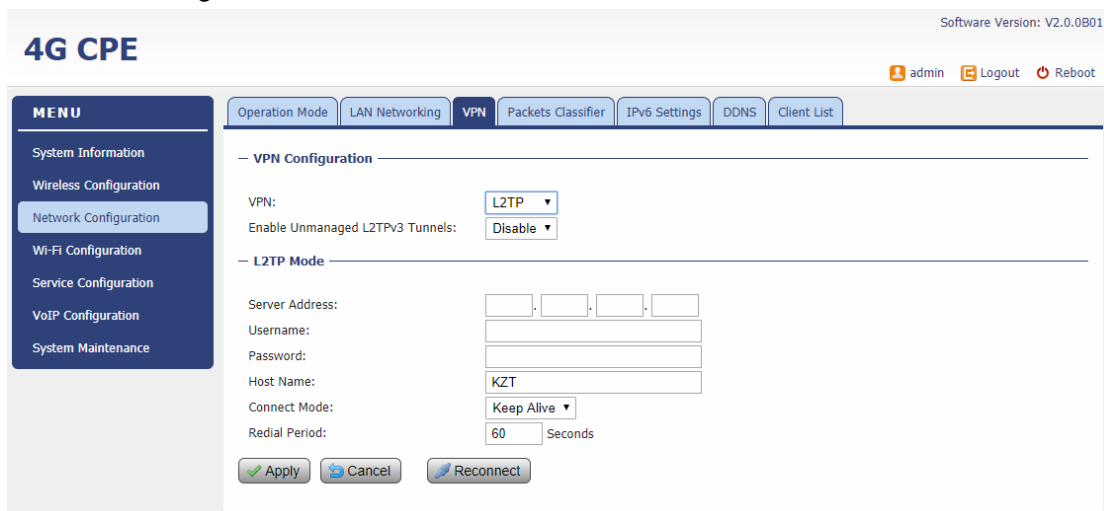
The screenshot shows the '4G CPE' web interface. At the top right, it says 'Software Version: V2.0.0B01'. Below that are links for 'admin', 'Logout', and 'Reboot'. The main navigation bar includes 'Operation Mode', 'LAN Networking', 'VPN', 'Packets Classifier', 'IPv6 Settings', 'DDNS', and 'Client List'. The 'VPN' tab is selected. On the left is a 'MENU' sidebar with options like 'System Information', 'Wireless Configuration', 'Network Configuration', etc. The main content area is titled 'VPN Configuration'. It features a 'VPN:' label followed by a dropdown menu currently set to 'Disable'. The dropdown menu is open, showing options: 'Disable', 'L2TP', 'PPTP', and 'GRE'. Below the dropdown are 'Apply' and 'Cancel' buttons.

The PPTP configuration under router mode is shown below.



The screenshot shows the '4G CPE' web interface with the 'VPN' tab selected. The 'VPN:' dropdown is now set to 'PPTP'. Below it is the 'PPTP Mode' section. It contains fields for 'Server Address' (four input boxes), 'Username' (text input), 'Password' (text input), 'Connect Mode' (dropdown set to 'Keep Alive'), and 'Redial Period' (input box with '60' and 'Seconds' label). At the bottom are 'Apply', 'Cancel', and 'Reconnect' buttons.

The L2TP configuration under router mode is shown as follows.



The screenshot shows the '4G CPE' web interface with the 'VPN' tab selected. The 'VPN:' dropdown is now set to 'L2TP'. Below it is the 'L2TP Mode' section. It contains fields for 'Server Address' (four input boxes), 'Username' (text input), 'Password' (text input), 'Host Name' (input box with 'KZT'), 'Connect Mode' (dropdown set to 'Keep Alive'), and 'Redial Period' (input box with '60' and 'Seconds' label). There is also an 'Enable Unmanaged L2TPv3 Tunnels:' dropdown set to 'Disable'. At the bottom are 'Apply', 'Cancel', and 'Reconnect' buttons.

The L2 GRE configuration under router mode is shown below.

The screenshot shows the '4G CPE' web interface with the 'VPN' tab selected. The 'VPN Configuration' section shows 'VPN' set to 'GRE' and 'Tunnel Layer' set to 'Layer 3'. Below this is the 'Add GRE Tunnel' section with input fields for Tunnel Destination IP Address, Local GRE Interface IP Address, Subnet Mask (255.255.255.0), Remote GRE Interface IP Address, Remote Private IP Address (0.0.0.0), Subnet Mask (255.255.255.0), Key (0 ~ 4294967295), and Checksum (Enable). At the bottom is the 'GRE Configuration List' table.

Tunnel DEST IP	GRE I/F IP	GRE R/F IP	Private Address	Key	Checksum	Operation
N/A						

■ VPN Setting Under L2 Bridge Mode

Under the L2 Bridge connection mode, L2 GRE or L2TP can be configured as follows.

The screenshot shows the '4G CPE' web interface with the 'VPN' tab selected. The 'VPN Configuration' section shows 'VPN' set to 'L2TP' and 'Enable Unmanaged L2TPv3 Tunnels' set to 'Enable'. Below this is the 'L2TP Mode' section with 'Encapsulation' set to 'IP' and 'Interface Status' set to 'DOWN'. A table for endpoint configuration is shown below.

	Local Endpoint	Peer Endpoint
Tunnel ID	<input type="text"/>	<input type="text"/>
Session ID	<input type="text"/>	<input type="text"/>
Internet IP Address	<input type="text" value="0.0.0.0"/>	<input type="text" value="0.0.0.0"/>
Cookie (Optional)	<input type="text"/>	<input type="text"/>
Offset	<input type="text" value="0"/>	<input type="text" value="0"/>
Layer2 Specific Header	<input type="text" value="Default"/>	--
VLAN Configuration	<input type="text" value="VLANs Passthrough"/>	--

4G CPE Software Version: V2.0.0B01

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

Operation Mode VPN **Packets Classifier** IPv6 Settings DDNS

— VPN Configuration —

VPN: GRE

Tunnel Layer: Layer 2

Apply Cancel

— Add GRE Tunnel —

Tunnel Destination IP Address: [] [] [] []

Key: [] (0 ~ 4294967295)

Checksum: Enable

Apply Cancel

— GRE Configuration List —

Tunnel DEST IP	GRE I/F IP	GRE R/F IP	Private Address	Key	Checksum	Operation
N/A						

Apply Cancel

■ Packets Classifier

This configuration menu allows user to tag DSCP or TOS value for CPE local data (Management) and LAN port data (Data).

4G CPE Software Version: V2.0.0B01

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Operation Mode LAN Networking VPN **Packets Classifier** IPv6 Settings DDNS Client List

— QoS Configuration —

DSCP/TOS Select: Disable

Apply Cancel

4G CPE Software Version: V2.0.0B01

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Operation Mode LAN Networking VPN **Packets Classifier** IPv6 Settings DDNS Client List

— QoS Configuration —

DSCP/TOS Select: DSCP

Device Data DSCP: 0 (0~63)

Voice Media DSCP: 0 (0~63)

Data Traffic DSCP: 0 (0~63)

Apply Cancel

Software Version: V2.0.0B01

4G CPE

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Operation Mode
LAN Networking
VPN
Packets Classifier
IPv6 Settings
DDNS
Client List

— QoS Configuration —

DSCP/TOS Select: TOS

Device Data TOS: 0 (0,2,4,8,16)

Voice Media TOS: 0 (0,2,4,8,16)

Data Traffic TOS: 0 (0,2,4,8,16)

Apply
Cancel

■ IPv6 Setting

On this page, user configure the IPv6 operation setting for the CPE device.

Software Version: V2.0.0B01

4G CPE

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Operation Mode
LAN Networking
VPN
Packets Classifier
IPv6 Settings
DDNS
Client List

— IPv6 Connection Type —

IPv6 Operation Mode: Disable

Apply
Cancel

Software Version: V2.0.0B01

4G CPE

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Operation Mode
LAN Networking
VPN
Packets Classifier
IPv6 Settings
DDNS
Client List

— IPv6 Connection Type —

IPv6 Operation Mode: IPv4/IPv6 Dual-Stack

— DHCPv6 Address Settings —

DHCPv6 Autoconfiguration Mode: Stateless

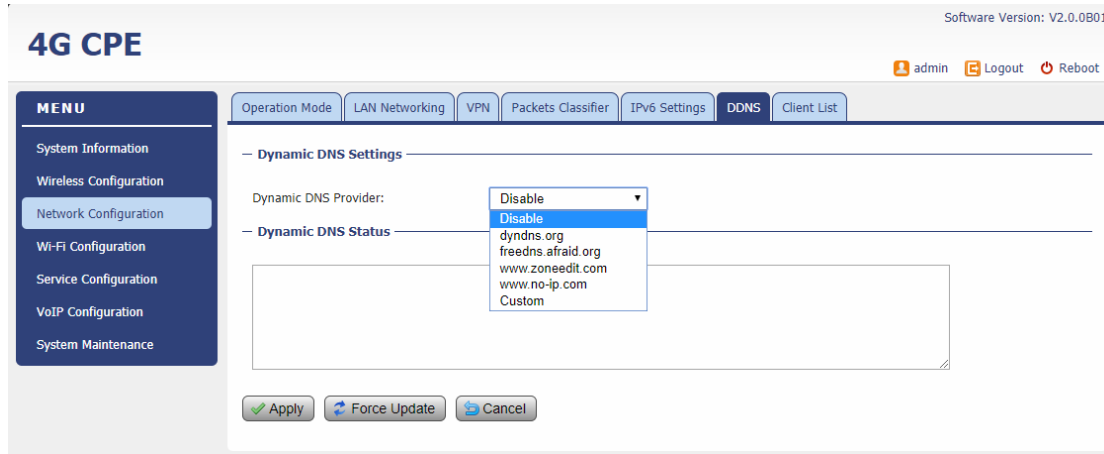
DNS Server Address Mode: Auto

DNS Server:

Apply
Cancel

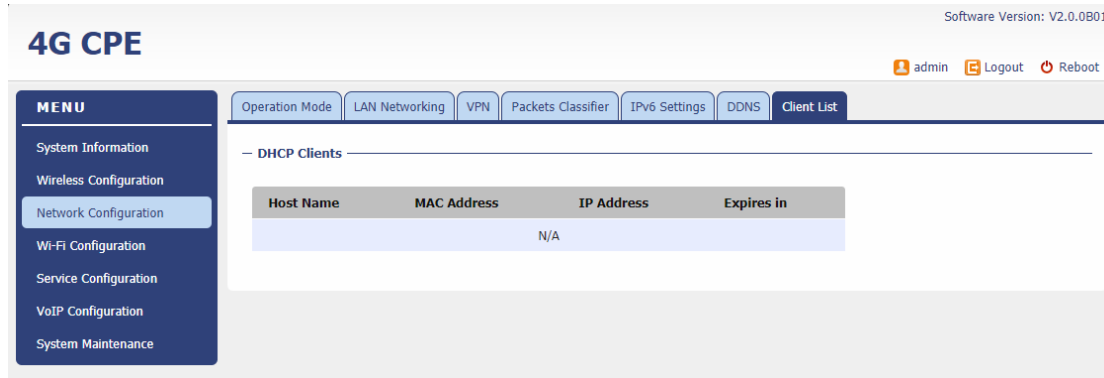
■ DDNS Setting Under Router Mode

This configuration menu allows user to configure use of different DDNS service for router mode operation.



■ Client List

This shows all the LAN clients that are connected to the CPE device.



7. Wi-Fi Configuration

■ Network Settings

In the Wi-Fi configuration, the operator can modify the default SSID and select the desired Security Policy to protect device Wi-Fi access. For easy configuration, the operator can use one of the following three recommended common security policies for setup.

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

Wi-Fi 2.4GHz Wi-Fi 5GHz

Network Settings MAC Filter WPS Settings Client Info

— Wi-Fi Network —

Wi-Fi Radio Status: Enable

Network Name (SSID1):

Hidden Isolated

Password:

Visible Passwords

Security Mode:

Network Mode:

Frequency (Channel): (Channel: 11)

Channel Bandwidth:

— Common Settings —

TX Power:

Maximum STAs: (0 ~ 32, 0: Unrestricted)

Country Code:

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

Wi-Fi 2.4GHz Wi-Fi 5GHz

Network Settings MAC Filter WPS Settings Client Info

— Wireless Network —

Wi-Fi Radio Status: Enable

Network Name (SSID1):

Hidden Isolated

Password:

Visible Passwords

Security Mode:

Network Mode:

Frequency (Channel): (Channel: 52)

Channel Bandwidth:

VHT BandWidth:

— Common Settings —

TX Power:

Maximum STAs: (0 ~ 32, 0: Unrestricted)

Country Code:

■ MAC Filter

Wi-Fi Mac filter allows to provide black or white list capability to manage the Wi-Fi client access.

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

Wi-Fi 2.4GHz Wi-Fi 5GHz

Network Settings **MAC Filter** WPS Settings Client Info

MAC Address Filter

SSID: MyWiFi-FF1702

Enable MAC Address Filter:

Filtering Mode:

Filters List

No.	Name	MAC Address	Active	Delete
<input type="button" value="Add"/>				

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

Wi-Fi 2.4GHz Wi-Fi 5GHz

Network Settings **MAC Filter** WPS Settings Client Info

MAC Address Filter

SSID: MyWiFi5G-FF1702

Enable MAC Address Filter:

Filtering Mode:

Filters List

No.	Name	MAC Address	Active	Delete
<input type="button" value="Add"/>				

■ WPS setting

The WPS setting allows user to enable or disable 2.4GHz or 5GHz WiFi WPS service.

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

Wi-Fi 2.4GHz Wi-Fi 5GHz

Network Settings MAC Filter **WPS Settings** Client Info

WPS Configuration

WPS:

Software Version: V2.0.0B01

4G CPE

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

Wi-Fi 2.4GHz
Wi-Fi 5GHz

Network Settings
MAC Filter
WPS Settings
Client Info

— WPS Configuration —

WPS Enable Status: Disable ▾

■ Client Info

This lists all the Wi-Fi clients. (2.4GHz and 5GHz) that are connected to the CPE.

Software Version: V2.0.0B01

4G CPE

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

Wi-Fi 2.4GHz
Wi-Fi 5GHz

Network Settings
MAC Filter
WPS Settings
Client Info

— Wireless Network —

Index	MAC Address	IP Address	Channel Bandwith
-			

Software Version: V2.0.0B01

4G CPE

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

Wi-Fi 2.4GHz
Wi-Fi 5GHz

Network Settings
MAC Filter
WPS Settings
Client Info

— Wireless Network —

Index	MAC Address	IP Address	Channel Bandwith
-			

8. Service Configuration

■ Port Forwarding

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

4G CPE Software Version: V2.0.0B2551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Port Forwarding Packet Filtering UPnP DMZ Setting Security Setting

— Port Forwarding Settings —

Port Forwarding:

WAN Port Range: ~ (1 ~ 65535)

Protocol:

LAN IP Address: . . .

LAN Port Range: ~ (1 ~ 65535)

Comment:

— Current Virtual Servers in system —

No.	WAN Port Range	Protocol	LAN IP Address	LAN Port Range	Comment
N / A					

■ Packet Filtering

This allows user to create packet filter to control the client access.

4G CPE Software Version: V2.0.0B2551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Port Forwarding Packet Filtering UPnP DMZ Setting Security Setting

— Basic Settings —

Packet Filtering:

Default Policy:

— Create Filter —

Source MAC address (Optional):

Dest IP Address (Optional):

Source IP Address (Optional):

Protocol:

Day: Every Day Mon Tue Wed Thu Fri Sat Sun

Time: 24 Hours -

Action:

Comment:

— Current filters in system —

No.	Source MAC address	Dest IP Address	Source IP Address	Protocol	Dest Port Range
Others would be dropped					

■ UPnP

This menu allows user to configure the UPnP application for on-demand “DMZ” support. The current forwarding rules created can be viewed and cleared if required.

Software Version: V2.0.0B2551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Port Forwarding Packet Filtering **UPnP** DMZ Setting Security Setting

– UPnP Configuration –

UPnP Enable: Enable

Advertisement Interval (30~1800s):

Port:

– UPnP Portmap Table –

Internal IP Address	Internal Port	External IP Address	External Port	Protocol	Description
--					

Apply Restart Cancel

■ DMZ Setting

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.

Software Version: V2.0.0B2551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Port Forwarding Packet Filtering UPnP **DMZ Setting** Security Setting

– DMZ Settings –

DMZ Settings:

DMZ IP Address: . . .

Exclude Web Server Port

Apply Cancel

■ Security Setting

This allows to configure security protection and ALG options.

Software Version: V2.0.0B2551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

Port Forwarding Packet Filtering UPnP DMZ Setting **Security Setting**

– Security Settings –

Enable the Firewall:

Drop ICMP from WAN:

Block SYN Flood:

– ALG –

FTP ALG: Enable

PPTP ALG: Enable

SIP ALG: Enable

Apply Cancel

9. VoIP Configuration

In this configuration page, the operator requires to enter the SIP operator name, account and password information if he desires to configure the VoIP networking. The register status check box must be enabled to allow device SIP registration.

The SIP register and proxy server configuration should be performed by the network operator via administration management interface. The SIP account status is displayed for operator information. When the SIP line is registered and ready, the Line LED in the front panel will be light up. If the device VoIP function is not working properly, the operator is advised to contact the network operator for assistance.

■ SIP

This page allows user to configure various SIP settings such as SIP register and proxy server, as well as SIP protocol parameters.

The screenshot displays the VoIP Configuration page for a 4G CPE device. The page is titled "4G CPE" and shows the "SIP" configuration section. The software version is V2.0.0B2551. The user is logged in as "admin".

Menu: System Information, Wireless Configuration, Network Configuration, Wi-Fi Configuration, Service Configuration, VoIP Configuration (selected), System Maintenance.

Navigation: SIP, Number Analysis, Call, DSP, Enhanced Services, Line Features, Port, Module Management.

User Configurations:

Port Status	Receive Port	User Name	Account	Password
Unregistered	5060		Administrator

Buttons: Apply, Cancel

Register Configurations:

Register Status: Enable Register

Registrar Address:

Registrar Receiving Port: (0~65534)

Register Period: (30~7200s)

Local Hostname:

Use Registrar as Hostname: Enable

Buttons: Remove Binding, Apply, Cancel

Proxy Configurations:

Use Registrar as Proxy: Enable

Proxy Status: Enable Proxy

Proxy Address:

Proxy Receiving Port: (0~65534)

Keep-Alive status: Enable Keep-Alive

Keep-Alive Period: (10~600s)

Buttons: Apply, Cancel

SIP Protocol Parameter Configurations:

Hook Flash:

Max Forwards: (1~100)

Max Auth: (1~5)

Supported: 100rel

User Agent: Product Lable, MAC Address, Version

Use Tel URL: Enable

Buttons: Apply, Cancel

■ Number Analysis

This page allows user to create rules to manipulate the dialled digits. The SIP device is collects dial numbers from external phone or fax. Dialled digits are analysed before being sent out to other element in a VoIP network. Dial numbers can be modified according to specific needs. Rules can be setup to modify a dial number, if it meets certain condition.

4G CPE Software Version: V2.0.082551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration**
- System Maintenance

SIP Number Analysis Call DSP Enhanced Services Line Features Port Module Management

— Call Route Configuration —

Index	Prefix	Source	MinLen	MaxLen	Type	Route Addr	ChgInd
-------	--------	--------	--------	--------	------	------------	--------

Index:

Number Prefix:

Min length of number: (1~23)

Max length of number: (1~23)

Route Address: (IP:Port)

Change Index: (0~65535)

— Number Change Configuration —

Index	Type	Position	Length	Number
-------	------	----------	--------	--------

Index:

Type:

Position: (0~23)

Length: (1~23)

Number:

■ Call

Call configuration section allows user to configure the dial plan, SIP processing of hold and hook flash, and various call timers which are common in VoIP processing.

The screenshot displays the '4G CPE' configuration interface. At the top right, it shows 'Software Version: V2.0.082551' and user options: 'admin', 'Logout', and 'Reboot'. A navigation bar includes tabs for 'SIP', 'Number Analysis', 'Call', 'DSP', 'Enhanced Services', 'Line Features', 'Port', and 'Module Management'. A left-hand 'MENU' sidebar lists various configuration categories, with 'VoIP Configuration' highlighted. The main content area is divided into three sections:

- Dial Plan(DigitMap) Configuration:** Features a 'Dial Plan' text input field containing the pattern `*68|*XX.T|*XX.#|XX.T|XX.#|****` and an 'IP Dialing' checkbox labeled 'Enable'. 'Apply' and 'Cancel' buttons are present.
- Call Parameter Configuration:** Includes dropdown menus for 'Port Select Mode in Group' (set to 'Early Release First'), 'SIP Call Hold Mode' (set to 'Set SDP C address to 0'), and 'Send SIP Hook Flash' (set to 'Yes'). 'Apply' and 'Cancel' buttons are present.
- Call Timer Configuration:** Lists four timers with input fields and units: 'Ringback Timer' (120 Second(1~255)), 'Ring Timer' (125 Second(1~255)), 'Busy Timer' (40 Second(1~255)), and 'Offhook Warning Timer' (60 Second(1~255)). 'Apply' and 'Cancel' buttons are present.

■ DSP

Voice is sampled and coded into digital bit stream, before they are packetized into IP packets. The page allows user to set various DSP processing configurations for audio codecs and fax handling by the SIP device.

Software Version: V2.0.082551

admin Logout Reboot

4G CPE

SIP Number Analysis Call **DSP** Enhanced Services Line Features Port Module Management

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration**
- System Maintenance

DSP Configurations

DTMF Transfer Mode:

Echo Cancellation:

Silence Suppression:

DSP Gain: dB(-24~24)

Support Codec: PCMA PCMU G.721
 G.722 G.723 G.729

Preferred Codec:

Packetization Period:

G723 Rate: 6.3kbps encoding rate 5.3kbps encoding rate

RFC2833 Payload: (96~127)

Call Id(FSK) Type:

RTP Start Port: (2~65000)

Drop 2833 Event Packet:

Region:

Fax Configurations

Fax Mode:

Max Rate:

Port Offset: (1~9)

Send Nat T38:

■ Enhanced Services

This page allows user to configure various supplementary voice services and define service activation codes for the supplementary services. The activation code is required in order to work properly with the soft switch. The default service codes are displayed below.

4G CPE
Software Version: V2.0.082551

admin
Logout
Reboot

MENU

SIP
Number Analysis
Call
DSP
Enhanced Services
Line Features
Port
Module Management

— Supplementary Service Subscription —

<input checked="" type="checkbox"/> Call Waiting	<input checked="" type="checkbox"/> Call Transfer	<input checked="" type="checkbox"/> Caller ID
<input checked="" type="checkbox"/> Call Forward All	<input checked="" type="checkbox"/> Call Forward Busy	<input checked="" type="checkbox"/> Call Forward No Answer
<input checked="" type="checkbox"/> Do Not Disturb	<input checked="" type="checkbox"/> Speed Dial	<input checked="" type="checkbox"/> Hot Line
<input type="checkbox"/> Block CID	<input checked="" type="checkbox"/> Blind Call Transfer	<input checked="" type="checkbox"/> Call Park
<input checked="" type="checkbox"/> Call Pick Up	<input checked="" type="checkbox"/> 3WC	<input checked="" type="checkbox"/> Data Call
<input type="checkbox"/> Voice Mail		

Apply
Cancel

— Service Codes Configuration —

Call Forward All Act:	<input type="text" value="*72"/>
Call Forward All Deact:	<input type="text" value="*73"/>
Call Forward Busy Act:	<input type="text" value="*90"/>
Call Forward Busy DeAct:	<input type="text" value="*91"/>
Call Forward No Answer Act:	<input type="text" value="*92"/>
Call Forward No Answer Deact:	<input type="text" value="*93"/>
Do Not Disturb Act:	<input type="text" value="*78"/>
Do Not Disturb Deact:	<input type="text" value="*79"/>
Speed Dial Act:	<input type="text" value="*74"/>
Speed Dial Use:	<input type="text"/>
Hot Line Act:	<input type="text" value="*52"/>
Hot Line Deact:	<input type="text" value="*53"/>
CW Act:	<input type="text" value="*56"/>
CW Deact:	<input type="text" value="*57"/>
CW Per Call Act:	<input type="text" value="*71"/>
CW Per Call Deact:	<input type="text" value="*70"/>
Block CID Act:	<input type="text" value="*67"/>
Block CID Deact:	<input type="text" value="*66"/>
Block CID Per Call Act:	<input type="text" value="*81"/>
Block CID Per Call Deact:	<input type="text" value="*82"/>
Blind Call Transfer Act:	<input type="text" value="*68"/>
Call Park Act:	<input type="text" value="*98"/>
Call Pick Up Act:	<input type="text" value="*99"/>
Conference ID:	<input type="text" value="conf"/>
Data Call:	<input type="text"/>

Apply
Cancel

■ Line Features

This page is used to configure user specific parameters for device line supplementary services. Black and White list control is also supported for outbound calling. These settings will remain even their associated features are deactivated, so that users are not required to set them next time.

Software Version: V2.0.0B2551

4G CPE

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

SIPNumber AnalysisCallDSPEnhanced ServicesLine FeaturesPortModule Management

— Call Forward Settings —

Cfwd All Dest:

Cfwd Busy Dest:

Cfwd No Ans Dest:

Cfwd No Ans Delay: s(5~150)

— Hot Line Settings —

Hot Line Dest:

Hot Line Delay: s(0~9)

— Callout Right Configuration —

Control Mode:

WhiteList:

BlackList:

■ Port

Port configuration defines physical and electrical layer parameters, such as port transmit power, min and max hook time, fax control and polarity reverse settings.

Software Version: V2.0.0B2551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration**
- System Maintenance

SIP Number Analysis Call DSP Enhanced Services Line Features **Port** Module Management

— Port Attribute [apply to ports] —

Port Status:

Port Gain:

— Port Attribute [apply to device] —

Encoding Mode: (Modification will not take effect until system reset)

Min Hook Time:

Max Hook Time:

— Port Application Attribute —

Port Application: Fax Polarity Reverse

— Private Number —

Number:

■ Module Management

The VoIP software can be restarted to make the VoIP settings take effect. The default setting in the flash can also be reloaded to overwrite the change in the current memory.

Software Version: V2.0.0B2551

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration**
- System Maintenance

SIP Number Analysis Call DSP Enhanced Services Line Features Port **Module Management**

— Restart SIP Protocol —

Protocol Type:

Protocol Status:

— Reset VoIP Setting —

Load VoIP Default Setting:

10. System Maintenance

■ General Setting

The menu allows user to configure the WEB GUI login password, time and language setting.

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

General Setting | NTP Setting | Auto Update | Maintenance | Diagnosis

— Language Settings —

Select Language: English

Apply Cancel

— Administrator Settings —

User Account: admin

Old Password:

New Password:

Confirm Password:

Apply Cancel

— Device Management Setting —

Enable TR069 Management: Enable

Apply Cancel

— Device Management Control —

Web Admin Management: Enable All

Specified Remote IP Address:

HTTP Port for Remote Access: 80 (1 ~ 65535)

HTTPs Enable: Enable

HTTPs Port for Remote Access: 443 (1 ~ 65535)

Allow User SIP Account Configuration: Enable

Allow User SIP Server Configuration: Enable

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

Apply Cancel

■ TR069

The menu allows user to configure the necessary setting for TR069 management of the CPE device.

Software Version: V2.0.0B2551

admin Logout Reboot

4G CPE

General Setting **TR069** NTP Setting Auto Update Maintenance Diagnosis

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- Service Configuration
- VoIP Configuration
- System Maintenance

— TR069 Configuration —

ACS URL:

ACS Username:

ACS Password:

Periodic Inform Enable: Enable

Periodic Inform Interval: (seconds: 90~604800)

Periodic Inform Time: (e.g. 2000-01-01T01:01:01)

CPE Username:

CPE Password:

— Load ACS Certificate —

ACS Certificate Status: N / A

Size (Byte): N / A

Certificate Path: No file chosen

■ NTP Setting

The menu allows user to configure the NTP setting for the CPE device.

Software Version: V2.0.0B01

admin Logout Reboot

4G CPE

General Setting **NTP Setting** Auto Update Maintenance Diagnosis

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance

— NTP Settings —

NTP Client: Enable

Current Time:

Time Zone:

NTP Server:

e.g. time.nist.gov
ntp0.broad.mit.edu
time.stdtime.gov.tw

NTP synchronization(Hours): (1~300)

■ Auto Update

The user can select the Auto Update device's firmware. Remote upgrade via FTP or HTTP are supported today. Auto upgrade can be triggered either during WEB login or via regular polling at specified time interval.

Software Version: V2.0.0801

4G CPE

admin Logout Reboot

General Setting NTP Setting **Auto Update** Maintenance Diagnosis

— Auto Update Settings —

Auto Update Status:

Software Version: V2.0.0801

4G CPE

admin Logout Reboot

General Setting NTP Setting **Auto Update** Maintenance Diagnosis

— Auto Update Settings —

Auto Update Status:
 Auto Update Method:
 Http Url:
 (e.g. http://www.a.com/fw.img)

Software Version: V2.0.0801

4G CPE

admin Logout Reboot

General Setting NTP Setting **Auto Update** Maintenance Diagnosis

— Auto Update Settings —

Auto Update Status:
 Auto Update Method:
 FTP Server Address:
 Port: (0 ~ 65535)
 Username:
 Password:
 Firmware Name:

■ Maintenance

This menu allows user to perform firmware upgrade via WEG GUI with option to reset to factory setting. It can also configure the remote upgrade using FTP, TFTP or HTTP.

4G CPE Software Version: V2.0.0801

admin Logout Reboot

MENU

- System Information
- Wireless Configuration
- Network Configuration
- Wi-Fi Configuration
- VoIP Configuration
- System Maintenance**

General Setting NTP Setting Auto Update **Maintenance** Diagnosis

— Firmware Upgrade over HTTP —

Location: No file chosen

— Firmware Upgrade over FTP —

FTP Server Address:

Port: (0 ~ 65535)

Username:

Password:

Firmware Name:

— Configuration File Management —

Config file location: No file chosen

Import & Overwrite SIP Account: Yes

— Restart the Device —

Restart the Device:

— Load Factory Default —

Load Factory Default: (Device Will Reboot)

■ Iperf

This menu allows user to configure iPerf testing using WEB GUI interface. Both TCP and UDP tests can be supported. Remote iPerf server is required to conduct the tests.

The screenshot displays the '4G CPE' web interface. At the top right, the software version is 'V2.0.0801'. Below this, there are links for 'admin', 'Logout', and 'Reboot'. The main navigation menu on the left includes 'System Information', 'Wireless Configuration', 'Network Configuration', 'Wi-Fi Configuration', 'VoIP Configuration', and 'System Maintenance'. The 'Diagnosis' tab is active, showing sub-tabs for 'Iperf' and 'Ping'. The 'Iperf Settings' section contains the following fields:

- Client/Server: Client (dropdown)
- Server Address: [text input]
- Port: 5001 (range 0 ~ 65535)
- Measurement Time (sec.): 20 (range 10 ~ 60)
- Protocol Type: TCP (dropdown)
- Parallel Client Threads: 1 (range 1 ~ 10)

Below the settings are 'Start' and 'Stop' buttons. The 'Result' section is currently empty, with a 'Clear' button at the bottom.

■ Ping

This menu allows user to perform PING tests using WEB GUI interface. Both IPv4 and IPv6 can be supported.

The screenshot displays the web management interface for a 4G CPE device. At the top right, the software version is V2.0.0801. The user is logged in as 'admin', with options for 'Logout' and 'Reboot'. The main navigation menu on the left includes System Information, Wireless Configuration, Network Configuration, Wi-Fi Configuration, Service Configuration, VoIP Configuration, and System Maintenance. The 'Diagnosis' tab is active, showing sub-options for 'Iperf' and 'Ping'. The 'PING Test' configuration area includes a 'Ping:' input field, a 'Start' button, and three settings: 'Ping Count' (5, range 1-20), 'Packet Size (byte):' (64, range 1-1500), and 'Ping Timeout (sec.):' (10, range 1-20). A large empty box is provided for test results.

11. 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 SYS 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 CPE SYS LED is off but the power cord and ETH cable are connected properly and there is AC supply, then it is likely the power adapter is damaged. Please contact distributor to obtain replacement part.

2) My PC cannot acquire IP from the CPE.

- First check if the Network card is up and working properly. Then check the PC Network card configuration and make sure the DHCP is enabled.
- To release and renew the correct IP address, please unplug the Ethernet cable from PC and wait for about 5 seconds, then connect it again.
- If the problem persists, please contact the operator or distributor for further diagnoses.

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 “admin123” 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 diagnoses.

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

- You may press and hold the RESET button in the back of the unit for 5 seconds. The unit will reset and reboot. Please wait until the unit finishes rebooting to regain access the device WEB GUI using default login credentials.
- After device reset, if the device cannot connect to the network, please contact the operator or distributor for further support. Additional device provision may be required.