LTE CPE (ALR-U series) User Manual

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Note:

Operating temperature: -30° C — 60° C.

1. About this Manual

The content of this User Manual has been made as accurate as possible. However, due to continual product improvements, specifications and other information are subject to change without notice.

2. Product Overview

This CPE supports LTE Band 3/7/20/31 (Subject to the configuration of LTE module) and it supports popular operating systems like Windows, Linux and Mac.

Please refer to the Quick Start Guide that is part of the CPE supply. Once you have identified the place for CPE, insert USIM card supplied by your service provider at the appropriate place, plug in the adapter in the AC socket and DC in the power port of CPE. Switch on the power Off/On switch and after few minutes the CPE should attach itself to the LTE network. It is as simple as that. It is advised to read this manual at leisure to make best use of the CPE.

3. Configuring the CPE

The basic settings in WebGUI consist of three main parts named Home, Diagnostics, Settings, LTE. You can login to WebGUI as follows, and configure the settings according to your requirements.

Connect the PC to CPE using the Ethernet cable. Use any one of the three Ethernet ports on the CPE. Power on the device and waiting for about one minutes until the device finished initializing. Please ensure that USIM card has been inserted into USIM slot in CPE.

You can also connect the PC to CPE by WiFi, choose the correct WiFi SSID and input the accurate password as the label shows. The default WiFi SSID is ice.net-XXXXXX, XXXXXX denotes the last six digits of the CPE's MAC address.

3.1 Login

Open your Web browser and enter 192.168.0.1 in the address bar;

Login window will popup;

When prompted for User name and password, enter the following username and password.

Username/Password: admin/admin

LTE CF	PE (ALR-U-series) User Manual		
Login	Login		
Username:	admin		
Password:	•••••		
	Login Clear		

3.2 Dashboard

After successful login, the following screen will appear and you will see four main menus on the top bar of the WebGUI.

The bars at the top right corner indicate the received signal level, connection status and USIM icon displays the status of USIM., Click "Logout", the screen will turn to login window.

From this page, you can also know 4G status, Wi-Fi status, WAN Info, LAN Info, Data Traffic and Device&SIM Info. You can see the dashboard page as figure 3-2-1.

Werlegen dekning I No	ND0			4G 🏭 🥸	User Manual Lo
Dashb	oard	Status	s	ettings	4G
4G	4G Status: Frequency Band: Cell ID (PCI): Signal Strength (RSRQ: SINR:	Connected 3 (1800 MHz) 25 RSRP): -96 dBm -7 dB 22 dB	Wi-Fi	Network Name (Security Mode: Password: Channel:	SSID): ice.net-U270-2058 WPA2PSK n8y7m2ua 1 (auto)
WAN Info	IP: Netmask: Gateway: ISP DNS: MAC Addr:	100.115.122.140 255.255.255.248 100.115.122.137 115.168.254.1 34:BA:9A:10:E5:91	LAN Info	IP: Netmask: MAC Addr:	192.168.0.1 255.255.255.255.0 00:0C:43:76:20:77
Data Traffic	Received Traffic* (Sent Traffic* (UL): Fotal Traffic* (DL+ Session Time: traffic since last re or reconnection of	DL): 461 KB 98 KB UL): 559 KB 00:01:00 eset, restart the device Reset	Device & SIM Info	Device Model: IMEI: Router Version: LTE Version: UICCID: IMSI:	ALR-U270 863867020598619 CPE2_U270_ICE_v1.3.5 ATL2_AT_2.1.24 89861114100210033585 460110120011303

Figure 3-2-1 Dashboard Page

3.3 Status

On this page, you can see WAN Status, WiFi&LAN Status, 4G Status, Software, Device List and UPnP.

WAN Status	WAN Status		
WIEI LAN Status	IP Address	100.121.140.120	
WIFT LAIN Status	Primary DNS	115.168.254.1	
LTE Status	Secondary DNS	115.168.254.2	
Software			
Device List			
UPnP			

Figure 3-3-1 Status

3.3.1 WAN Status

From the WAN Status, WAN IP Address, WAN Primary DNS and WAN Secondary DNS information can be displayed

WAN Status		
IP Address	100.112.125.211	
Primary DNS	115.168.254.1	
Secondary DNS	115.168.254.2	

Figure 3-3-1-1 WAN Status

3.3.2 WiFi&LAN Status

From this page, you can know the WiFi LAN Status such as SSID, Channel, Security, Key, LAN IP and DHCP Server.

WiFi LAN Status		
WiFi Status	Enabled	
Network Name(SSID)	ice.net-040678	
Frequency (Channel)	Auto (Channel 12)	
Security Mode	WPA2-PSK	
Password	m2qpn12a	
LAN IP	192.168.0.1	
DHCP Server	192.168.0.2-192.168.0.254	

Figure 3-3-2-1 WiFi LAN Status

3.3.3 4G Status

Clicking on the "4G Status", you can see the LTE information such as Connection Status, USIM Status, IMEI, IMSI, RSRP, RSRQ, RSSI, SINR, Localization and Frequency.

LTE Status		
Connection Status	Connected	
USIM Status	Ready	
IMEL	358760132131231	
IMSI	460110120613559	
RSRP	-101 dB	
RSRQ	-9 dB	
RSSI	-81 dBm	
SINR	16 dB	
Localization	25	
мімо	Open loop MIMO	
UICCID	89861114230210814450	
Band	3	
Frequency	1825	

Figure 3-3-3-1 LTE Status

3.3.4 Software

This page is used to display IDU software version ,LTE software version and DTB version.

Software		
IDU Software Version	CPE2_U270_ICE_v1.3.5	
LTE Software Version	ATL2_AT_2.1.23	
DTB Software Version	1.21.2	

Figure 3-3-4-1 Software

3.3.5 Device List

All clients connect to U270 can be displayed. You can see the users' information, include hostname, MAC address, IP address and expires time.

Device List				
Hostname	MAC Address	IP Address	Expires Time	
4gtest Device 1	D4:BE:D9:3A:0C:D2 7C:DD:90:0B:E3:8F	192.168.0.2 192.168.0.11	23:35:44	

Figure 3-3-5-1 Device List

3.3.6 UPnP

The UPnP function is disabled in default; you should enable it on the system security page (3.4.3.2) before using it. The new rules that you added will be shown on this page.

UPnP				
Protocol	OutPort	IP Address	InPort	

Figure 3-3-6-1 UPnP

3.4 Settings

The setting menu consists of three main menus named Basic Settings, Advanced Settings and System Settings.

Home	Status	Settings	LTE
Basic Settings	LAN Settings		
LAN Settings	IP Address	192.168.0.1	
WiFi Settings	Subnet Mask	255.255.255.0	
Multiple SSID	DHCP	Enabled 💌	
WPS Settings			
Advanced Settings	Start IP Address	192.168.0.2	
System Settings	End IP Address	192.168.0.254	
	Lease Time	86400	
	Static IP 1	MAC:	IP:
	Static IP 2	MAC:	IP:
	Static IP 3	MAC:	IP:
	Static IP 4	MAC:	IP:
	Static IP 5	MAC:	IP:
	Apply		

Figure 3-4-1 Settings

3.4.1 Basic Settings

Basic Settings	LAN Settings	
LAN Settings	IP Address	192.168.0.1
WiFi Settings	Subnet Mask	255,255,255,0
Multiple SSID		
WPS Settings	DHCP	Enabled 🞽
Advanced Settings	Start IP Address	192.168.0.2
System Settings	End IP Address	192.168.0.254
	Lease Time	86400
	Static IP 1	MAC: IP:
	Static IP 2	MAC: IP:
	Static IP 3	MAC: IP:
	Static IP 4	MAC: IP:
	Static IP 5	MAC: IP:
	Apply	

Figure 3-4-1-1 Basic Settings

3.4.1.1 LAN Settings

Clicking on the "LAN Settings" tab will take you to the "LAN Settings" header page. On this page, all settings for the internal LAN setup of the CPE router can be viewed and changed.

Address	192.168.0.1	
ubnet Mask	255.255.255.0	
НСР	Enabled 💌	
tart IP Address	192.168.0.2	
nd IP Address	192.168.0.254	
ease Time	86400	
atic IP 1	MAC:	IP:
atic IP 2	MAC:	IP:
atic IP 3	MAC:	IP:
atic IP 4	MAC:	IP:
tatic IP 5	MAC:	IP:

Figure 3-4-1-1-1 LAN Settings

IP Address - Enter the IP address of your router (factory default: 192.168.0.1).

- Subnet Mask An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.
- DHCP Enable or Disable the DHCP. If you disable the DHCP function, Client cannot get valid IP address from CPE automatically. But you can configure the address of your PC manually to connect CPE.
- Start IP Address Specify an IP address for the DHCP server to start with when assigning IP address. The default start address is 192.168.0.2.
- End IP Address Specify an IP address for the DHCP Server to end with when assigning IP address. The default end address is 192.168.0.254.
- Lease Time The Lease Time is the amount of time a network user will be allowed connection to the router with their current dynamic IP address. Enter the amount of time in minutes and the user will be "leased" this dynamic IP address. After the time is up, the user will be assigned a new dynamic IP address automatically.
- Static IP IP/MAC binding function, the system will assign a fixed IP address to the MAC according to the rules.

[©] Note:

- 1. If you change the IP Address of LAN, you must use the new IP address to login to the CPE router.
- 2. If the new LAN IP address you set is not in the same subnet, the IP address pool of the DHCP server will change at the same time, while the Virtual Server and DMZ Host will not take effect until they are re-configured.

3.4.1.2 WiFi Settings

Clicking on "WiFi Settings" will take you to the following header and on this page you can configure the WiFi settings and WiFi security.

• WiFi Settings

You can set the WiFi status, configure the WiFi standard, configure the network name and select the WiFi channel from 1 to 13.

WiFi Status	Enabled 💌
WiFi Standard	11b/g/n mixed mode
Network Name(SSID)	ice.net-338888
Frequency (Channel)	Auto (Channel 11)
Broadcast SSID	Enabled Obsabled
AP Isolation	○ Enabled ④ Disabled
Channel BandWidth	○ 20 MHz
WiFi Security	
Security Mode	WPA2-PSK
WPA Algorithms	◯ TKIP ④ AES ◯ TKIP/AES
Password	ms2a42za
Key Renewal Interval	3600 Seconds (0 ~ 4194303)

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Figure 3-4-1-2-1 WiFi Settings

> WiFi Status: Enabled(default)/Disabled

The wifi status is enabled in default; you can only connect to the device by CAT-5 Ethernet cable if it is disabled.

> WiFi Standard:

The router can be operated in five different wireless modes:"11b/g mixed mode", "11b only", "11g only", "11n only", "11b/g mixed mode","11b/g/n mixed mode".

WiFi Standard	11b/g/n mixed mode 🔹
Network Name(SSID)	11b only 11g only
Frequency (Channel)	11h only 11b/g mixed mode
	11b/g/n mixed mode

Figure 3-4-1-2-2 WiFi standard

Network Name(SSID)

To identify your wireless network, a name called the SSID (Service Set Identifier) is used. You can set it to anything you like and you should make sure that your SSID is unique if there are other wireless networks operating in your area.

Frequency (Channel)

This field determines which operating frequency will be used for WiFi. It is not necessary to change the wireless channel unless you noticed the interference problems with other access points nearby.

Broadcast \$SID Auto (Channel 1) 2412 MHz (Channel 1) 2412 MHz (Channel 1) AP Isolation 2417 MHz (Channel 2) Channel BandWidth 2422 MHz (Channel 3) Channel BandWidth 2432 MHz (Channel 4) 2432 MHz (Channel 5) 2437 MHz (Channel 6) WiFi Security 2437 MHz (Channel 7) Security Mode 2447 MHz (Channel 8) WPA Algorithms 2452 MHz (Channel 10) Password 2467 MHz (Channel 11) Yampa Key Renewal Interval 3600 Seconds (0 ~ 41)	Broadcast SSID Auto (Channel 1) 2412 MHz (Channel 1) 2412 MHz (Channel 1) AP Isolation 2417 MHz (Channel 2) Channel BandWidth 2422 MHz (Channel 4) 2432 MHz (Channel 4) 2432 MHz (Channel 4) 2432 MHz (Channel 5) 2432 MHz (Channel 6)	
Broadcast SSID 2412 MHz (Channel 1) AP Isolation 2417 MHz (Channel 2) Channel BandWidth 2422 MHz (Channel 3) WiFi Security 2432 MHz (Channel 6) WiFi Security 2447 MHz (Channel 7) Security Mode 2447 MHz (Channel 8) WPA Algorithms 2452 MHz (Channel 10) Password 2467 MHz (Channel 11) Key Renewal Interval 3600 Seconds (0 ~ 419)	Broadcast SSID 2412 MHz (Channel 1) AP Isolation 2417 MHz (Channel 2) Channel BandWidth 2422 MHz (Channel 4) With Scounity 2432 MHz (Channel 4)	
AP Isolation 2417 MHz (Channel 2) 2422 MHz (Channel 3) 2427 MHz (Channel 3) Channel BandWidth 2427 MHz (Channel 4) WiFi Security 2432 MHz (Channel 5) WiFi Security 2437 MHz (Channel 6) Security Mode 2447 MHz (Channel 7) Security Mode 2452 MHz (Channel 7) WPA Algorithms 2457 MHz (Channel 10) Password 2467 MHz (Channel 11) Veq Renewal Interval 3600	AP Isolation 2417 MHz (Channel 2) 2422 MHz (Channel 3) 2427 MHz (Channel 4) 2427 MHz (Channel 4) 2432 MHz (Channel 5) 2432 MHz (Channel 5)	
All resolution 2422 MHz (Channel 3) Channel BandWidth 2427 MHz (Channel 4) WiFi Security 2437 MHz (Channel 5) WiFi Security 2437 MHz (Channel 7) Security Mode 2447 MHz (Channel 7) WPA Algorithms 2452 MHz (Channel 10) Password 2462 MHz (Channel 11) 2467 MHz (Channel 12) 2472 MHz (Channel 13) Key Renewal Interval 3600 Seconds (0 ~ 4194)	At Isolation 2422 MHz (Channel 3) Channel BandWidth 2427 MHz (Channel 4) VATE Scounity 2432 MHz (Channel 5)	
Channel BandWidth 2427 MHz (Channel 4) WiFi Security 2432 MHz (Channel 5) Security Mode 2442 MHz (Channel 7) WPA Algorithms 2452 MHz (Channel 8) Password 2467 MHz (Channel 10) Key Renewal Interval 3600 Seconds (0 ~ 4194)	Channel BandWidth 2427 MHz (Channel 4) 2432 MHz (Channel 5) 2437 MHz (Channel 5)	
WiFi Security 2432 MHz (Channel 5) WiFi Security 2437 MHz (Channel 6) 2442 MHz (Channel 7) 2447 MHz (Channel 7) Security Mode 2442 MHz (Channel 8) WPA Algorithms 2452 MHz (Channel 9) Password 2467 MHz (Channel 11) Password 2467 MHz (Channel 12) Key Renewal Interval 3600 Seconds (0 ~ 4194)	2432 MHz (Channel 5) WiFi Security	
WiFi Security 2437 MHz (Channel 6) Security Mode 2442 MHz (Channel 7) WPA Algorithms 2452 MHz (Channel 8) Password 2452 MHz (Channel 10) AE 2452 MHz (Channel 10) AE 2452 MHz (Channel 11) Password 2462 MHz (Channel 12) Key Renewal Interval 3600 Seconds (0 ~ 4194)	WiEi Soonnitz: 2427 MHz (Channel C)	
2442 MHz (Channel 7) Security Mode 2447 MHz (Channel 8) WPA Algorithms 2452 MHz (Channel 9) Password 2462 MHz (Channel 10) Password 2467 MHz (Channel 11) Key Renewal Interval 3600 Seconds (0 ~ 4194)	WIFISecurity [2457 WHZ (Channello)	
Security Mode 2447 MHz (Channel 8) WPA Algorithms 2452 MHz (Channel 9) Password 2462 MHz (Channel 10) Password 2467 MHz (Channel 11) Very Renewal Interval 2467 MHz (Channel 12) Seconds (0 ~ 4194)	2442 MHz (Channel 7)	
WPA Algorithms 2452 MHz (Channel 9) 2457 MHz (Channel 10) AES Password 2462 MHz (Channel 11) 2467 MHz (Channel 12) 2467 MHz (Channel 12) 2472 MHz (Channel 13) Seconds (0 ~ 41943)	Security Mode 2447 MHz (Channel 8)	
WPA Algorithms 2457 MHz (Channel 10) AES Password 2462 MHz (Channel 11) 2467 MHz (Channel 12) Very Renewal Interval 2472 MHz (Channel 13) 2472 MHz (Channel 13)	2452 MHz (Channel 9)	
Password 2462 MHz (Channel 11) 2467 MHz (Channel 12) 2472 MHz (Channel 13) Key Renewal Interval 3600 Seconds (0 ~ 41943)	WPA Algorithms 2457 MHz (Channel 10)	AES
Password 2467 MHz (Channel 12) 2472 MHz (Channel 13) 2472 MHz (Channel 13) Key Renewal Interval 3600 Seconds (0 ~ 419430)	2462 MHz (Channel 11)	
Key Renewal Interval 2472 MHz (Channel 13) 3600 Seconds (0 ~ 419430)	Password 2467 MHz (Channel 12)	
Key Renewal Interval 3600 Seconds (0 ~ 419430)	2472 MHz (Channel 13)	
	Key Renewal Interval 3600 Seconds (0	~ 4194303

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Figure 3-4-1-2-3 Frequency (Channel)

Broadcast SSID: Enabled(default)/Disabled

When wireless clients search the local area for wireless networks to associate with, they will detect the SSID broadcast of the router. If you disabled this feature, the WiFi of the router is invisible.

> **AP Isolation:** Enabled/Disabled(default)

This function can isolate wireless stations on your network from each other. Wireless devices will be able to communicate with the router but not with each other.

Channel Bandwidth: 20MHz, 20/40MHz

• WiFi Security

Setting the wireless security and encryption to prevent the router from unauthorized access and monitoring. Default security mode is WPA2-PSK and the default password is unique (Figure 3-4-1-2-1), you can modify the security mode and password you like from this page.

Security Mode: Disabled, OPENWEP, SHAREDWEP, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK

a) WEP Security Mode

Security Mode: OPEN, SHARED

- Key Format: Hexadecimal and ASCII formats are provided. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length. ASCII format stands for any combination of keyboard characters in the specified length.
- Default Key: Anyone of Key 1, Key 2, Key 3 and Key4 with 2 kinds of key format.

WiFi Security		
Security Mode	OPENWEP	•
Default Key	Key 1 🔻	
WEP Keys	Key 1 : 12345678	ASCII V
	Key 2 :	Hex •
	Key 3 :	Hex •
	Key 4 :	Hex •
Apply		

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Figure 3-4-1-2-4 OPENWEP

WiFi Security		
Security Mode	SHAREDWEP	•
Default Key	Key 2 🔻	
WEP Keys	Key 1 :	ASCII V
	Key 2: 12345678	Hex •
	Key 3 :	ASCII V
	Key 4 :	Hex •

Figure 3-4-1-2-5 SHAREDWEP

- b) WPA Security Mode
- Security Mode: WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK
- **WPA Algorithms**: TKIP, AES, TKIPAES
- ► Keywords: 8 ~ 63 ASCII characters
- ➢ Key Renewal Interval: 0∼4194303s

WiFi Security	
Security Mode	WPA2-PSK
WPA Algorithms	◯ TKIP
Password	m2m4m8fd
Key Renewal Interval	3600 Seconds (0 ~ 4194303)
Apply	

Figure 3-4-1-2-6 Default WiFi Security

WiFi Security	
Security Mode	WPA-PSK
WPA Algorithms	◯ TKIP
Password	m2m4m8fd
Key Renewal Interval	3600 Seconds (0 ~ 4194303)
Apply	

Figure 3-4-1-2-7 WPA-PSK

WiFi Security	
Security Mode	WPA-PSK/WPA2-PSK •
WPA Algorithms	◯ TKIP
Password	m2m4m8fd
Key Renewal Interval	3600 Seconds (0 ~ 4194303)

Figure 3-4-1-2-8 WPA-PSK/WPA2-PSK

3.4.1.3 Multiple SSID

From this page, you can add the multiple SSID of the router, the maximum rule count is 5. Click on the "Add New" button, you can configure the SSID information.

ID	SSID	Hidden SSID	Isolated	Security Mode	WPA Algorithms	Password
Edit De	Delete	Cancel	Add	New		
		<u> </u>		(Note:	maximum rule cour	nt is 5)

Figure 3-4-1-3-1 Multiple SSID page

Multiple SSID list	
SSID	1234
Hidden SSID	○ Enabled ④ Disabled
Isolated	○ Enabled ④ Disabled
Security Mode	WPA2-PSK
WPA Algorithms	◯ TKIP ④ AES ◯ TKIP/AES
Password	1234567890
Apply Cancel Back	

Figure 3-4-1-3-2 Add New Rule

The new rules will be shown on the rule table, you can delete the rules that you have selected or add new rules sequentially (Figure 3-4-1-3-3). Connect any WiFi SSID by the correct password on the rule table, you would be able to access to the router.

)	SSID	Hidden SSID	Isolated	Security Mode	WPA Algorithms	Password			
	1234	Disabled	Disabled	WPA2P5K	AES	1234567890			
	abcde	Disabled	Disabled	WPAPSK	TKIP	1q2w#E\$R			
	a1b2c3d4	Disabled	Disabled	WPAPSK/WPA2 PSK	TKIP/AES	00000000			
Dele	Cancel	Add Nev	v						_
				(Note:	maximum rule coun	it is 5)	USB-KEY DIAL	۵	^
							无线网络连接	^	
							ALR-U772-8912	已连接	
							ALR-U772-531C	- 41	
							WLCHEN-PC_Network		
							ATEL-501		
							MERCURY_4D36	.atl	Е
							WIFI_AP_035880	.atl	
							1234	.atl	μ

Figure 3-4-1-3-3 Rule Table

3.4.1.4 WPS Settings

You can setup security easily by choosing PIN or PBC method to do WiFi Protected Setup. On this page, you can modify WPS settings. This feature can make your wireless client within a few minutes automatically synchronized with the AP devices and establish the connection via WiFi.

- WPS method- Push the button (default), Enter the PIN of client device, Use the PIN of the device.
- > **WPS Status-** The real-time information of WPS processing while the wireless client tries to communicate with WiFi each other.

> PBC Mode

(1) Press the WPS button of the CPE directly;

(2) Then CPE and wireless client will automatically complete the interaction and connect via WiFi if these two devices can match with each other.

> Enter the PIN of client device

Wireless clients choose enrollee mode, the wireless client software will randomly generate a PIN code. Then click on the tool interface "PIN" button.
Input the PIN code which got from the wireless client and click the "Apply" button on this "WPS" configuration page.

> Use the PIN of the device

(1) Create the random PIN by clicking the "Generate" button, and share this PIN to wireless client.

(2) In the wireless client choice registrar model, and the input device of the PIN code.

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WPS Settings		
WPS Status	Idle	
Please choose a WPS method	d to join a wireless network:	
Push the button (PBC)		
O Enter the PIN of client dev	vice	
Client PIN:		
O Use the PIN of the device		
IDU PIN:	33601038	Generate
Apply		

Figure 3-4-1-4-1 WPS page

3.4.1.5 UPNP

You should enable the UPnP feature firstly before you use this function.

UPnP	
UPnP	Enabled •
Apply	

Figure 3-4-1-5-1 UPNP page

3.4.2 Advanced Settings

Basic Settings	MAC Filtering Settings	
Advanced Settings	MAC Filtering	Disabled 💌
MAC Filtering	Default policy - the packet that don't match with any rule would be:	Allow 💙
IP/Port Filtering	Apply	
Content Filtering	СРРУ	
Port Forwarding		
Virtual Server		
VPN Passthrough		
Demilitarized Zone		
Dynamic DNS		
Routing		
Wireless Clients		
Backup & Restore		
System Settings		
NTP		
IP Whitelist		
System Settings		
System Settings		

Figure 3-4-2-1 Advanced Settings

3.4.2.1 MAC Filtering

This function is a powerful security feature that allows you to specify which

wireless client users are not allowed to surf the Internet.

MAC Filtering Settings	
MAC Filtering	Disabled 💌
Default policy - the packet that don't match with any rule would be:	Allow 💌
Apply	

Figure 3-4-2-1-1 MAC Filtering page

The default MAC filtering setting is disabled, so you should enable it before you begin to configure the filter. Then click the "Add New" button, you can configure the rules you like (Figure 3-4-2-1-3).

Default Policy: The packets that don't match with any rules would be "Allow/Deny". If you choose the "Allow" button here, the MAC address that you add would be dropped. Otherwise, only the MAC addresses on the rule table can be accepted.

The new rules will be shown on the rule table, here you can delete the rules that you have selected and add new rules sequentially. The maximum rule count is 10. (Figure 3-4-2-1-4)

MAC Filt	ering Settings	
MAC Filter	ng Er	nabled 💌
Default pol	cy - the packet that don't match with any rule would be:	low 💌
Rule Tab	le	
ID	Source MAC address	Action
	Others would be accepted	
Apply	Delete Add New (Note: maximum rule count	is 10)

Figure 3-4-2-1-2 Enable MAC Filtering function

Add Rule		
Source MAC address	A0:00:BE:24:E9:BA	
Action	Drop 💌	
Apply Back		

Figure 3-4-2-1-3 Add Rule

AC Filterin	g Settings	
MAC Filtering	E	nabled 💌
Default policy - t	he packet that don't match with any rule would be: A	llow 💌
Rule Table	Source MAC address	Action
	A0:00:BE:24:E9:BA	Drop

Figure 3-4-2-1-4 Rule Table

3.4.2.2 IP/Port Filtering

From this page, you can configure the IP/Port filter to forbid relevant users to login the router device.

The default IP/Port filter setting is disabled, so you should enable it before you begin to configure the filter. Then clicking the "Add New" button, you can configure the settings you like (Figure 3-4-2-2-3).

Default Policy: The packets that don't match with any rules would be "Dropped/Accepted". If you choose "Dropped" here, the action of the new rule would be "Accept". Otherwise, the action turns to be "Drop" and the packet that don't match with any rules would be accepted.

IP & Port Filtering Settings	
IP/Port Filtering	Disabled 💌
Default policy - the packet that don't match with any rule would be:	Accepted 💌
Apply	

Figure 3-4-2-2-1 IP/Port filtering page

IP & Port Filtering Settings	
IP/Port Filtering	Enabled 💌
Default policy - the packet that don't match with any rule would be:	Accepted 💌
Rule Table	
ID Dest IP Address Source IP Address Protocol Dest Port F	Range Source Port Range Action
Others would be accepted	
Apply Delete Add New (Note: maximum rule co	unt is 10)

Figure 3-4-2-2 Enable IP/Port Filtering function

- Dest IP Address The IP address of a website that you want to filter (Such as google 74.125.128.106).
- Source IP Address The IP address of PC. (Such as 192.168.0.2).
- Protocol- TCP, UDP, ICMP

- Dest Port Range- To restrict Internet access to the single user, you can set a fixed value, such as 21-21.
- Source Port Range- 1~65535

Action- Accept, Drop

The new rules will be shown on the rule table, you can delete the rules that you have selected or add new rules sequentially (Figure 3-4-2-2-4). The maximum rule count is 10.

Add Rule	
Dest IP Address	74.125.128.106
Source IP Address	192.168.0.2
Protocol	TCP 🗸
Dest Port Range	21 - 21
Source Port Range	1 - 65535
Action	Drop 💙
Apply Back	

Figure 3-4-2-2-3 Add New Rule

IP &	Port Filtering S	ettings				
IP/P	ort Filtering			Enal	oled 💌	
Defa	ult policy - the packe	t that don't match v	vith any rule v	would be: Acc	epted 💌	
Rul	e Table					
10	Dest IP Address	Source IP Address	Protocol	Dest Port Range	Source Port Range	Action
1	74.125.128.106	192.168.0.2	ТСР	21 - 21	1 - 65535	Drop
2	- 1	192.168.0.2	UDP	80 - 80	-	Drop
з 🛛	74.125.128.106	-	ICMP	-	-	Drop
		Others	would be ac	cepted		
A	oply Delete	Add New (Note: maximi	um rule count is	10)	

Figure 3-4-2-2-4 Rule Table

3.4.2.3 Content Filtering

From this page, you can configure the URL filter and the content filtering schedule.

• Content Filtering

It is a function that forbids users to login the URL or keyword on the rule table. You can configure the settings you like by clicking the "Add New" button.

The new rules will be shown on the rule table, you can delete the rules that you have selected or add new rules sequentially (Figure 3-4-2-3-4). The maximum rule count is 8.

Delete Add New	lote: maximum rule count is 8	
Content Filtering Sched	ule	
Schedule	Disabled 💌	

Figure 3-4-2-3-1 Content Filtering page

Content Filtering Settings	
Address URL or Keyword	www.baidu.com
Add Back	

Figure 3-4-2-3-2 Add New Rule

• Content Filtering Schedule

Here you can configure the schedule to define when the rules take effect. This feature is disabled in default, you should enable it first and then configure the date and time, such as working time. Click the "Apply" button; you can see the new rule on the content filtering page.

Content Fil	tering Schedule			
Schedule		Enabled 💌		
Date	Everyday			
	Mon	✓ Tue	Ved Wed	Thu
	Fri	Sat	Sun	
Time	OEverytime			
	At a defined time	From 09 💌 h 00 💌	/ min. To 18 🛩 h 00	min.
Apply				

Figure 3-4-2-3-3 Configure Filtering Schedule

	Ad	dress URL or Keyword		Selec
1		www.baidu.com		
2		www.google.com		
Delete	Add New Note: m	aximum rule count is 8		
Schedule		Enabled 💌		
Date	Everyday			
	Mon	Tue	Wed	Thu
	🗹 Fri	Sat	🗌 Sun	
Time	OEverytime			
mile				

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Figure 3-4-2-3-4 Content Filtering Rules

3.4.2.4 Port Forwarding

Clicking on the header of the "Port Forwarding" button will take you to the "Port Forwarding" header page (Figure 3-4-2-4-1). Clicking on the "Add New" button, you can configure IP address, port range to achieve the port forwarding purpose.

Rule Table			
ID	IP Address	Port Range	Protocol
Select All	Delete Add New		
		(Note: maximum rule	count is 20)

Figure 3-4-2-4-1 Port Forwarding page

Port Forwarding Settings	
IP Address	192.168.0.2
Port Range	5100 -5200
Protocol	TCP&UDP 🛩
Apply Back	TCP&UDP TCP UDP

Figure 3-4-2-4-2 Port Forwarding Setting

- > **IP Address-** The IP address of the PC running the service application;
- > **Port Range-** You can enter a range of service port or set a fixed value;
- **Protocol-** UDP, TCP, TCP&UDP.

The new rules will be shown on the rule table, you can delete the items that you

have selected or add new rules by clicking the "Add New" button here. The maximum rule count is 20.

ID	IP Address	Port Range	Protocol
1	192.168.0.2	5100 - 5200	TCP + UDP
2	192.168.0.3	7777 - 8888	TCP
3	192.168.0.4	10010 - 10020	UDP
Select All	Delete Add New		
		(Note: maximum rule	e count is 20)

Figure 3-4-2-4-3 Rule Table

3.4.2.5 Virtual Server

Clicking on the header of the "Virtual Server" button will take you to the "Virtual Server" header page (Figure 3-4-2-5-1). It is a feature that similar to port forwarding, clicking on the "Add New" button, you can configure IP address, public port, private port and protocol to achieve the virtual server function.

			8	Rule Table
otocol	Private Port	Public Port	IP Address	ID
C	Private Port	Public Port	IP Address	Delete

Figure 3-4-2-5-1 Virtual Server page

Address	192.168.0.4
ublic Port	5100
rivate Port	5200
rotocol	TCP&UDP 🖌
Apply Back	TCP&UDP TCP UDP

Figure 3-4-2-5-2 Virtual Server Setting

- > **IP Address-** The IP address of the PC running the service application;
- Public Port- The port of server-side;
- > **Private Port-** The port of client-side, it can be same with the public port;
- **Protocol-** UDP, TCP, TCP&UDP.

The new rules will be shown on the rule table, you can delete the items that you have selected or add new rules by clicking the "Add New" button here. The maximum rule count is 20.

ID	IP Address	Public Port	Private Port	Protocol
1	192.168.0.4	5100	5200	TCP + UDP
2	192.168.0.22	1111	2222	ТСР
3	192.168.0.3	1220	1230	UDP

Figure 3-4-2-5-3 Rule Table

3.4.2.6 VPN Passthrough

A virtual private network (VPN) is a point-to-point connection across a private or public network (Internet).

VPN Passthrough allows the VPN traffic to pass through the router. Thereby we can establish VPN connections to remote network. For example, VPNs allow you to securely access your company's intranet at home. There are three main kinds of the VPN tunneling protocol, PPTP, L2TP and IPSec.

VPN Passthrough		
L2TP Passthrough	Enable 💌	
IPSec Passthrough	Enable 💌	
PPTP Passthrough	Enable 💌	
Apply		

Figure 3-4-2-6-1 VPN Passthrough

Note: VPN Passthrough does not mean the router can create a VPN endpoint. VPN Passthrough is a feature that allows VPN traffic created by other endpoints to "pass through" the router.

3.4.2.7 Demilitarized Zone

From this page, you can configure a De-militarized Zone (DMZ) to separate internal network and Internet.

> DMZ IP Address- The IP address of your PC. (such as 192.168.0.3)

DMZ Settings	
DMZ	Disabled 🗸
DMZ IP Address	
Apply	

Figure 3-4-2-7-1 DMZ page

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DMZ Settings	
DMZ	Enabled 💌
DMZ IP Address	192.168.0.3
Apply	

Figure 3-4-2-7-2 DMZ Setting

3.4.2.8 Dynamic DNS

The dynamic DNS function is disabled in default, you can choose the dynamic DNS provider to configure the DDNS settings.

DDHS Status	Disabled
Dynamic DNS Provider	Disabled 🛛 🖌
	Disabled
User Name	www.no-ip.com
Password	www.dyndns.org www.zoneedit.com
Domain Name	www.treedns.atraid.org

Figure 3-4-2-8-1 Dynamic DNS setting

3.4.2.9 Routing

From the rule table, you can see the default route information. Clicking on the "Add New" button, you can configure the static routing setting. The new rules will be shown on the rule table, here you can delete the rules that you have selected or add new rules sequentially. The maximum rule count is 10. (Figure 3-4-2-9-3)

Destination	Netmask	Gateway	Flags	Metric	Ref	Use	Interface
55.255.255.255	255.255.255.255	0.0.0.0	5	0	0	0	LAN(br0)
39.255.255.250	255.255.255.255	0.0.0.0	5	0	0	0	LAN(br0)
92.168.0.0	255.255.255.0	0.0.0.0	1	0	0	0	LAN(br0)
0.0.0.0	255.0.0.0	0.0.0.0	1	0	0	0	lte0(lte0)
mic Routing Se	ettings		,				
ol	Disa	able 💌					
	55.255.255.255 39.255.255.250 92.168.0.0 0.0.0.0 hte Add New mic Routing So	35.255.255.255.255 255.255.255.255.255 39.255.255.255 255.255.255.255 30.0.0 255.255.255 30.0.0 255.255.255 30.0.0 255.255.255 30.0.0 255.255.255 30.0.0 255.255.255 30.0.0 255.0.0.0 ite Add New (Note: maximur mic Routing Settings Dist	35.255.255.255.255 255.255.255.255 0.0.0 39.255.255.255.250 255.255.255.255 0.0.0 22.168.0.0 255.255.255.0 0.0.0.0 0.0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0.0 255.0.0 0.0.0.0 .0.0 255.0.0 0.0.0.0 .0.0 .0.0.0 0.0.0.0 .0.0 .0.0 0.0.0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0	35.255.255.255.255 255.255.255.255 0.0.0.0 5 39.255.255.255.255 255.255.255 0.0.0.0 5 0.0.0.0 255.255.255.0 0.0.0.0 1 0.0.0.0 255.0.0.0 0.0.0.0 1 ite Add New (Note: maximum rule count is 10) mic Routing Settings ol Disable 💌	35.255.255.255 255.255.255.255 0.0.0.0 5 0 39.255.255.255.255 0.0.0.0 5 0 02.168.0.0 255.255.255.0 0.0.0.0 1 0 0.0.0.0 255.0.0.0 0.0.0.0 1 0 te Add New (Note: maximum rule count is 10) mic Routing Settings ol Disable	35.255.255.255 255.255.255 0.0.0.0 5 0 0 39.255.255.250 255.255.255 0.0.0.0 5 0 0 20.168.0.0 255.255.255 0.0.0.0 1 0 0 0.0.0.0 255.0.0.0 0.0.0.0 1 0 0 te Add New (Note: maximum rule count is 10) 0 mic Routing Settings Disable 🗸 1 1	35.255.255.255 255.255.255 0.0.0.0 5 0 0 0 39.255.255.255 255.255.255 0.0.0.0 5 0 0 0 22.168.0.0 255.255.255.0 0.0.0.0 1 0 0 0 0.0.0.0 255.0.0.0 0.0.0.0 1 0 0 0 te Add New (Note: maximum rule count is 10) 0 0 0 mic Routing Settings Disable

Figure 3-4-2-9-1 Rule Table

Static Routing Settin	gs	
Destination	192.168.0.2	
Range	Host 💌	
Gateway	192.168.0.1	
Interface	LAN	
Apply		

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Figure 3-4-2-9-2 Configure the static routing settings

- Destination: The address of the network or host that assigned by the static route;
- Range: Host/Net;
- Gateway : This is the IP address of the gateway device that is used to contact between the router and the network or host;
- Interface: LAN/WAN/Custom;
- RIP: Enable the RIP, every 30 seconds, the system will update and learn the routing information nearby automatically.

Ru	le table							
No	Destination	Netmask	Gateway	Flags	Metric	Ref	Use	Interface
1	255.255.255.255	255.255.255.255	0.0.0.0	5	0	0	0	LAN(br0)
2	239.255.255.250	255.255.255.255	0.0.0.0	5	0	0	0	LAN(br0)
3	192.168.0.0	255.255.255.0	0.0.0.0	1	0	0	0	LAN(br0)
4	10.0.0.0	255.0.0.0	0.0.0.0	1	0	0	0	lte0(lte0)
Dy	namic Routing S	ettings						
Pro	tocol	RIF	v					
A	pply							

Figure 3-4-2-9-3 New rule table

3.4.2.10 Wireless Clients

From the "Wireless Clients" page, you can see the detail information of the connected wireless devices, such as IP address, MAC address, MCS, RSSI and so on. You can also kick the selected users by clicking the "Kick" button, then the connection between the wireless clients and the router will be disconnect immediately.

The users that you kicked will be shown on the kicked wireless stations, you can restore them if you need.

Conn	ected Wireless	Stations				
ID	IP Address	MAC Address	MCS	RSSI0	RSSI1	Select
1 Ref Kicke	192.168.0.2 resh ed Wireless State e select MAC Addres	7C:DD:90:0B:E3:8F tions ss of Wifi client device to	7 o restore:	-51	-51	Kick
ID			Mac Addr	ess		Select
						Restore

Figure 3-4-2-10-1 Connected Wireless Stations

ID	IP Address	MAC Address	MCS	R S SIO	RSSI1	Select
Refre	sh					Kick
Kicke	d Wireless Stati	ons				
Kicke	d Wireless Stati	ons				
<mark>Kicke</mark> Please	d Wireless Stati select MAC Address	ons of Wifi client device	to restore:			
Kicke Please ID	d Wireless Stati select MAC Address	ons s of Wifi client device	to restore: Mac Addre:	35		Select
Kicke Please ID 1	d Wireless Stati select MAC Address	ons s of Wifi client device 94:	to restore: Mac Addre: :39:E5:D7:0	ss 1:EB		Select

Figure 3-4-2-10-2 Kicked Wireless Stations

3.4.2.11 IP Whitelist

From this page, you can set the IP Whitelist. When IP whitelist is active the device shall only access the websites that have been whitelisted specifically through configuration.

IP Whitelist Settings	
IP Whitelist Settings	Disabled 💌
Apply	

Figure 3-4-2-11-1 IP Whitelist page

IP Whitel	ist Settings		
IP Whitelist	Settings	Enabled 💌	
Apply Rule Tabl	e		
ID		IP Address	
Delete	Add New (No	ote: maximum rule count is 10)	

Figure 3-4-2-11-2 Enable IP whitelist function

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IP Whitelist Settings		
IP Address	115.239.210.27	
Apply Back		

Figure 3-4-2-11-3 Add new rule

IP Whitelist Settings	Enabled 💙	
Apply		
Rule Table	ID Address	
	115 220 210 27	

Figure 3-4-2-11-4 Rule Table

3.4.2.12 Bridge Mode

The default LTE Bridge mode is disabled. You can enable and change the device to bridge mode.

LTE Bridge Setting		
LTE Bridge Enable	Disable 💌	
Apply		

Figure 3-4-2-12-1 LTE Bridge Setting page

LTE Bridge Setting		
LTE Bridge Enable	Enable	
Apply		

Figure 3-4-2-12-2 Enable bridge mode

3.4.3 System Settings

Basic Settings	Firmware Upgrade	
Advanced Settings	Router Upgrade:	浏览 未选择文件。
System Settings	Apply	
Firmware Upgrade	LTE Upgrade:	浏览
Device Security		
Factory Reset	Apply	
	Remote Upgrade	
	🗹 Remote Firmware Upgrade	Apply
	Upgrade Status	The current firmware version is the latest one
		Check Upgrade

Figure 3-4-3-1 System Settings

3.4.3.1 Firmware Upgrade

Local Upgrade

On this page, you can upgrade the current Router version and LTE Version from the local PC. 100s is needed to complete the whole upgrade process, and then the device will reboot automatically.

Firmware Upgrade		
Router Upgrade:	浏览 未选择文件。	
Apply		
LTE Upgrade:	浏览 未选择文件。	
Apply		

Figure 3-4-3-1-1 Firmware Upgrade

Remote Upgrade

After the device detects the new router and LTE version from Web server, the device will upgrade the new version automatically, or the device will upgrade the new version after you click the "Upgrade" button.

Keniote Opgrade	
🗹 Remote Firmware Upgrade	Apply
Upgrade Status	The current firmware version is the latest one
	Check Upgrade

Figure 3-4-3-1-2 Remote Upgrade

Note:

1) The firmware version must be suitable for the corresponding hardware;

2) Please make sure the adequate and stable power supply while upgrading.

3.4.3.2 Device Security

• Device Password:

The default password is admin, you can enter $1\sim32$ characters for 2 times as your new password. Then you would logout automatically and you should login to the system by the new password.

Device Settings		
Username	admin	
New Password	••••	(32 characters max.)
Repeat Password		(32 characters max.)
Apply		

Figure 3-4-3-2-1 Device Settings

• System Security Settings

You can configure the system security settings to protect the device itself from the external attacking.

System Security Settings	
Remote Management (via WAN)	Disabled •
Remote Management (via Wi-Fi)	Enabled •
HTTPS Web Login	Disabled •
Respond to PING on WAN	Disabled •
SPI Firewall	Disabled •
Apply	

Figure 3-4-3-2-2 System Security Settings page

Remote management(via WAN)

You can access to the router via WAN IP address and achieve the remote control function when the remote management feature is enabled.

Remote management(via Wi-Fi)

The users on the wireless client are able to manage the WebGUI in default; you can disable this feature here.

Respond to PING on WAN

It is allowed to ping on WAN in default, you can disable it here.

> SPI Firmware

Enable this feature to enhance protection to all the wired and wireless PCs against intruders and most known Internet attacks.

HTTPS Web Login

This function allows the users to login the system by the https protocol method.

3.4.3.3 Reset&Reboot

From this page, you can click the "Restore" button to load default to the factory setting and click the "Reboot" button to reboot the device.

Factory Reset	
Click button to restore default settings	Restore
Device Reboot	

Figure 3-4-3-3-1 Factory Reset

3.4.3.4 Scheduled Reboot

Clicking on the header of the "Scheduled Reboot" tab will take you to the "Scheduled Reboot" page. From this page, you can configure the time that the device reboots.

Date	Mon Tue Wed Thu Fri Sat Sun
Time	0 h 0 min

Figure 3-4-3-4-1 Scheduled Reboot

For example, choose "Mon" for "Date" and set 14h30min for "Time", the device will reboot automatically at the 14:30 on Monday.

3.4.3.5 NTP

From this page, you can set the Current Time, Time Zone, NTP Server and NTP synchronization. When the device obtains the WAN IP, the current time will synchronize with the NTP server automatically.

NTP Settings	
Current Time	Mon Jan 19 15:05:44 GMT 2015 Sync with host
Time Zone:	(GMT+08:00) China Coast, Hong Kong 💌
NTP Server	time.nist.gov ex:time.stdtime.gov.tw time.nist.gov ntp0.broad.mit.edu
NTP synchronization(hours)	24
Apply	

Figure 3-4-3-5-1 NTP Setting

3.4.3.6 Backup & Restore

Clicking the "Backup" button, the current settings will be saved as a data file to the local PC. You can restore the device configuration from the files that you saved.

Backup & Restore Settings		
Backup device configuration	Backup	
Restore device configuration from file	浏览 未选择文件。	Restore

Figure 3-4-3-6-1 Backup & Restore

3.4.3.7 Watchdog

Clicking on the header of the "Ping Watchdog" tab will take you to the "Ping Watchdog" page. From this page, you can configure "Ping Watchdog" feature.

LTE PING Enable	Disabled 💌	
URL or IP address to ping	no.pool.ntp.org	
Number of ICMP Request per ping group	5	
Wait time of the ICMP Request(s)	3	
Amount of fail ICMP to consider "FAIL" situation	3	
Wait time between ping groups(min)	3	

Figure 3-4-3-7-1 Ping Watchdog page

LTE PING Enable	Enabled 🚩	
URL or IP address to ping	no.pool.ntp.org	
Number of ICMP Request per ping group	5	
Wait time of the ICMP Request(s)	3	
Amount of fail ICMP to consider "FAIL" situation	3	
Wait time between ping groups(min)	3	



- URL or IP address to ping: the default URL is "no.pool.ntp.org", you can also change it to other URL what you want to ping;
- Number of ICMP Request per ping group: the default value is 5, you can also change it to other values, the maximum value is 9;
- Wait time of the ICMP Request(s): the default value is 3, you can also change it to other values;
- Amount of fail ICMP to consider "FAIL" situation: the default value is 3, you can also change it to other values;
- Wait time between ping groups(min): the default value is 3, you can also change it to other values, the minimum value is 3.

According to the default status, it means ping URL "no.poolntp.org", the number of ICMP Request per ping group is 5, wait time of the ICMP Request(s) is 3 seconds, wait time between ping groups(min) is 3 minutes, if amount of fail ICMP is 3 or more than 3, the LTE module will reboot automatically.

3.4.3.8 System Log

This function is used to display system information. Click "Refresh" key, system log can be refreshed. Clear key can clear all information.

System Log	
You can see some system information here	
[15/01/01,01:00:24]Boot Finished;	
[15/01/01,01:01:46]Load system defaults;	
[15/01/01,01:02:17]Rebooting;	
[15/01/01,01:00:25]Boot Finished;	
[15/01/01,01:04:38]Power off;	
[15/01/01,01:00:24]Boot Finished;	
[15/01/01,01:00:25]Boot Finished;	
[15/01/01,01:05:13]Load system defaults;	
[15/01/01,01:05:32]Rebooting;	
[15/01/01,01:00:25]Boot Finished;	
[15/01/01,01:01:31]Load system defaults;	
[15/01/01,01:01:49]Rebooting;	
[15/01/01,01:00:25]Boot Finished;	
[15/01/01,01:00:25]Boot Finished;	
[15/01/01,01:00:25]Boot Finished;	
[15/01/01,01:00:24]Boot Finished;	·
▲	1
Refresh Clear	

Figure 3-4-3-8-1 System Log

3.5 4G

Click on the "4G" button, you can see four parts as below: Bridge Settings, APN Settings, LTE Connection Settings and PIN Management.

Dashboard	Status	Settings	LTE
Bridge Settings	LTE Bridge Setting		
APN Settings	LTE Bridge Enable	Disable 💌	
LTE Connection Settings	Apply		
PIN Management			

Figure 3-5-1 4G

3.5.1 APN Settings

The default APN mode is automatic and APN is NULL, if you want to configure the LTE APN, you should choose the manual mode, and then you can configure the APN settings by clicking on the "Add New" button (Figure 3-5-1-2).

Mode	Auto O Manual	
Host Name	Sweden 💙	
АРN Туре	IPv4 V	
Profile Name	NULL	
APN		
Authentication	None 💙	
User Name		
Password		

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Figure 3-5-1-1 LTE APN page

From the "Host Name" option, you can choose the APN that you had configured, then click "Set as default" to make it take effect.

APN Settings	
Mode	🔿 Auto 🛛 💿 Manual
Host Name	Add New V Cancel
АРМ Туре	IPv4 💌
Profile Name	CMCC
APN	1234
Authentication	PAP 💌
User Name	ATEL
Password	••••

Figure 3-5-1-2 APN Configuration

APN Settings	
Mode	○ Auto
Host Name	CMCC 🗸 Add New
APN Type	IPv4 V
Profile Name	CMCC
APN	1234
Authentication	PAP 💌
User Name	ATEL
Password	••••
Set as default Save	Delete

Figure 3-5-1-3 Choose the user-defined APN

3.5.2 PIN Management

From this page, you can see the USIM card status and PIN status.

The default PIN status is disabled; you can input the correct PIN to enable the PIN function. The maximum PIN attempts are 3, otherwise you must enter PUK to reset the PIN code. The USIM will be invalid after the unsuccessful attempts for 10 times.

- PIN Management: Enter the correct PIN to enable or disable the PIN function, PIN code should be 4 to 8 digits;
- Remember PIN: The system will remember the PIN code of the USIM and verify the USIM automatically if the save PIN function is enabled.
- PIN change: You can input the current PIN code 1 time and the new PIN code for 2 times to change the PIN code. PIN code should be 4 to 8 digits.
- PUK Management: Input the correct PUK code and the new PIN code for 2 times to reset the PIN code. The PIN code should be 4 to 8 digits.

USIM Card Status	USIM Ready
PIN Status	Disabled
Remaining PIN Attempts	3
PIN Lock	💿 Enable 🔿 Disable
Remember PIN	O Enable 💿 Disable

Figure 3-5-2-1 PIN Management page

PIN Management		
USIM Card Status	USIM Ready	
PIN Status	PIN Enabled	
Remaining PIN Attempts	3	
PIN Lock	Enable 💿 Disable	
Remember PIN	🔿 Enable 💿 Disable	
Apply		
	PIN change	
Current PIN		
New PIN		
Confirm New PIN		
Apply		

Figure 3-5-2-2 Enable the PIN

PIN Management	
	PUK Management
Current PUK	
Remaining PUK attempts	10
New PIN	
Confirm New PIN	
Apply	

Figure 3-5-2-3 PUK Management page