CLM920

User Manual



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1. Copyright and Disclaimer

This user manual cannot be reproduced for any purpose.

2. Introduction

The CLM920 ASR is a 4G indoor customer premise device with excellent wireless access performance and comprehensive routing capabilities to deliver wireless broadband data to end users. It converts high-speed TDD / FDD signals into WiFi signals over a local area network (LAN). Wireless and wired devices (including cell phones, laptops, tablets and other smart devices) can be accessed simultaneously.

3. Products Features and Specifications

3.1 Product Functions

- ✧ 4G to WIFI, 4G to LAN
- ✧ Supports WAN/LAN ports
- ✧ DL 150Mbps, UL 50Mbps
- ✧ IPV4/IPV6 support
- ✧ 2.4G, WIFI Rate: 72Mbps
- ✧ Access to up to 10 devices
- ✧ SSID broadcast function, support hidden WIFI
- ✧ Port Filtering, Port Mapping, Watchdogs
- ✧ Supports Locked Frequency Bands
- ✧ Support FOTA remote upgrade function
- ✧ Support TCP/UDP/PPP/HTTP/NITZ/NDIS/NTP/HTTPS/PING/PAP/CHAP protocols

3.2 Basic specifications

sports event	clarification	note
sizes	216mm (H) x 140mm (W) x 38mm (D)	Weight: approx. 190g
Input Voltage	Input: 100V~240V AC Output: 12V DC/1A	
SIM card	Micro Sim	
LED indicator	Power Light ×1 WIFI light × 1 Ethernet port status indicator × 1 Mobile data connection status (LTE) light × 1 Signal strength indicator × 3	
Ethernet port	RJ45×1, 10/100 M Adaptive, LAN/WAN	

	Adaptive	
USB port	USB 2.0 interface × 1	Debugging, upgrading, capturing device logs
power switch	No buttons, power on and off	
reset button	Long press for more than 5 seconds to restore factory settings	
operating temperature	-10°C ~ 45°C	
Storage temperature	-25℃ ~ 70℃	
Operating humidity	5% ~ 95%	

3.3 4G / 3G technical specifications

sports event	clarification
wireless access technology	FDD-LTE/TDD-LTE/WCDMA
(radio) band	CLM920 JR3 CN： FDD LTE: B1/B3/B5/B8 TDD LTE: B34/B38/B39/B40/B41 WCDMA: B1/B5/B8 CLM920 JR3 EU: FDD LTE: B1/B3/B7/B8/B20/B28 TDD LTE: B38/B40/B41 WCDMA: B1/B8 CLM920 JR3 NA: FDD LTE: B2/B4/B5/B7/B28/B66 TDD LTE: B38/B40/B41 WCDMA: B2/B4/B5
data rate	FDD-LTE: 150 Mbps DL / 50Mbps UL TDD-LTE: 130Mbps DL/ 35Mbps UL HSPA+: 21 Mbps DL / 5.76 Mbps UL WCDMA PS: 384Kbps DL / 384Kbps UL
receiver sensitivity	3GPP compliant
Maximum output power	LTE FDD: 23dBm±2dB; LTE TDD: 23dBm±2dB; WCDMA: 24dBm +1dB/-3dB; TD-SCDMA: 24dBm +1dB/-3dB; GSM B5/8: +33 ±2dBm (Power class 4); GSM B2/3: +30 ±2dBm (Power class 1);
Antenna type	external antenna
Antenna Gain	3-5dBi

3.4 WiFi Specifications

sports event	clarification
(an official) standard	IEEE 802.11b/g/n/
channel bandwidth	20MHz
frequency	2.4G
TXRX	2T2R
MIMO	DL:2X2
peak rate	72Mbps
modem	DSSS/CCK,OFDM
receiver sensitivity	-85dBm in 802.11b -70dBm in 802.11g -66dBm in 802.11n
Maximum output power	802.11b: 17±3dBm 802.11g: 15±2dBm 802.11n: 14±2dBm
Antenna type	external antenna
Antenna Gain	2-3dBi
Maximum number of user connections	10

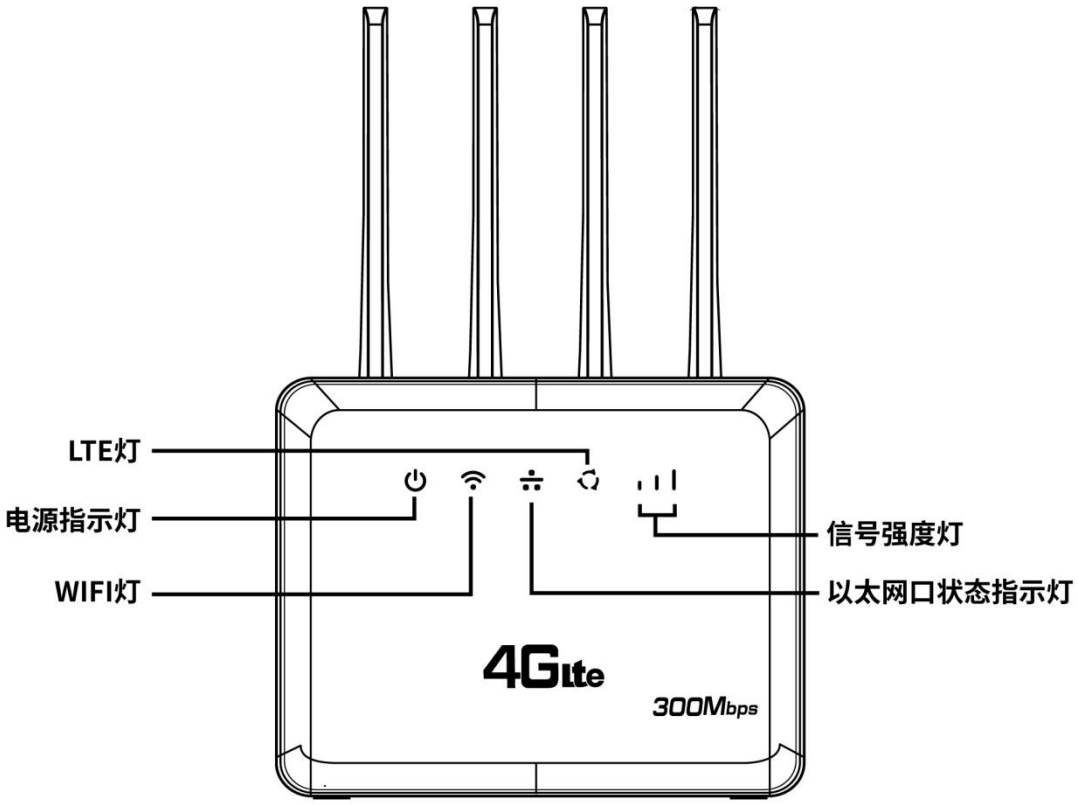
3.5 Software specifications

sports event	clarification
multilingualism	Chinese/English
IP protocol	IPv4/IPv6
SIM Management	PIN code management
Network Connection Management	Auto/Manual
NAT	port forwarding
firewalls	IP/MAC/URL Filter access control SYN Flood TCP port scan Death of Ping
diagnostic procedure	TCP Dump Ping (name) Trace route

statistical data	LTE Status connection time System startup time device status DHCP Client List WiFi Station List LTE Status Firewall Status
safeguard	Date and time settings reopen Restore Factory Settings Restore/Backup Configuration File

4. Appearance description

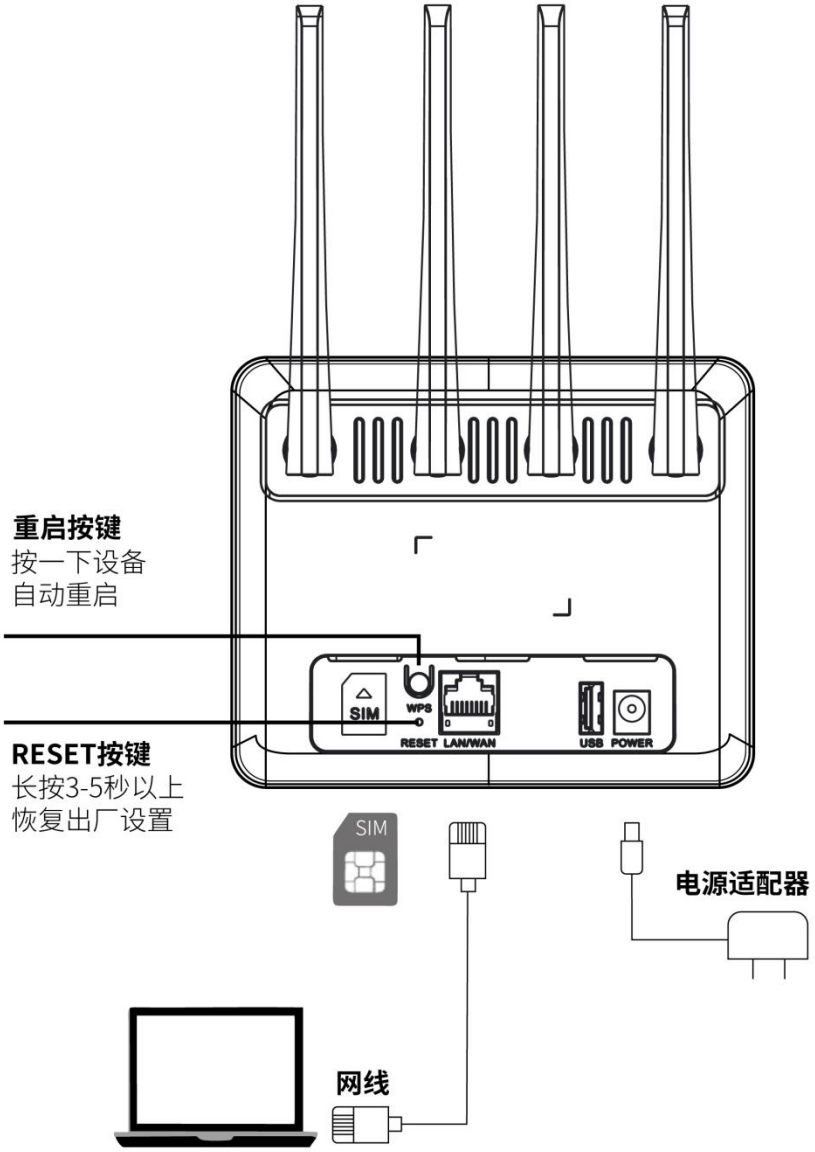
4.1 LED Indicator Description



name (of a thing)	state of affairs	descriptive
Power indicator	Ever Bright	The power supply is normal.
WIFI Light	Ever Bright	When connected to the power supply, the light is always on, indicating that the wireless is normal
	slow flash	Access to data WiFi hotspot
	go out (of fire)	Turns off when power is applied, indicating that the wireless function is off or malfunctioning

Mesh Port Lights	slow flash	The device is connected
	go out (of fire)	Device not connected
3G/4G Indicator	flash	
	slow flash	Connection successful
	go out (of fire)	Connecting to the network or not connecting to the network
signal strength lamp	Ever Bright	Corresponding range signal values in wireless router mode
	vague (of speech)	Search the Web
	go out (of fire)	network failure

4.2 Hardware Interface Description



connector	descriptive
Power	Input: 100V-240V AC Output: 12V DC/1A
keystrokes	(WPS) Restart button, RESET button

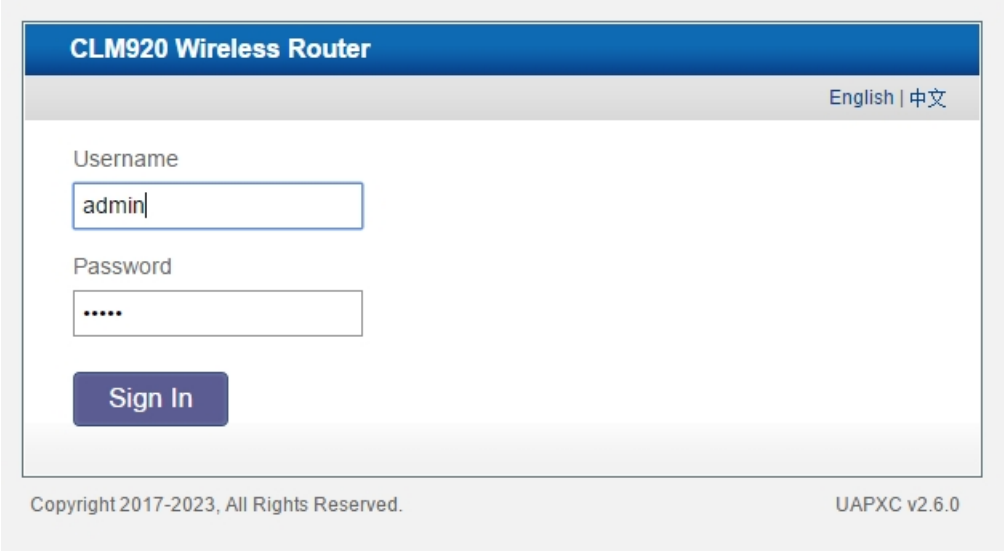
SIM Card Slot	Supports Micro Sim medium cards (small cards require card sleeves)
RJ45 Interface	2*LAN line access
USB	Connect USB cable for debugging

5、Description of the use of equipment management page

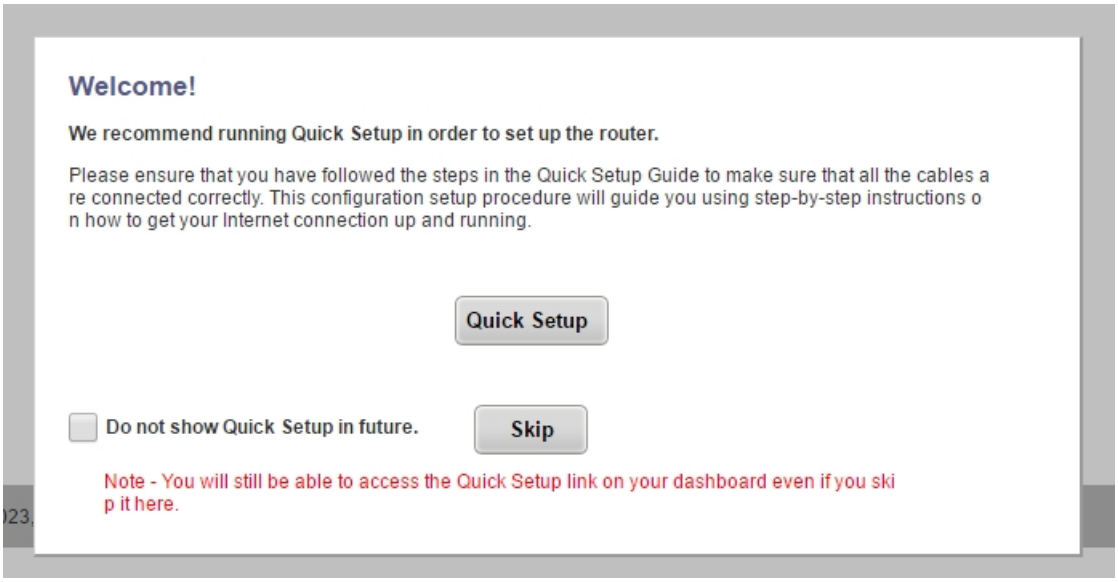
The interface for users is the device management page, and the following section describes how to configure device functions on the device management page.

5.1 Login to the device management page

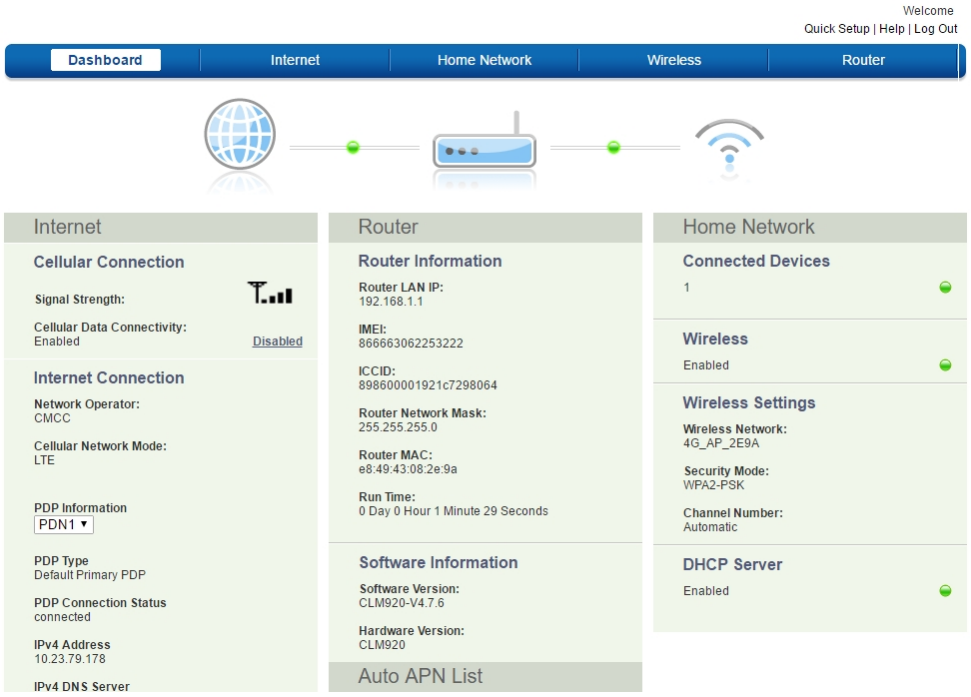
Open the browser, enter the default gateway IP address, the default is: 192.168.1.1, login password is admin



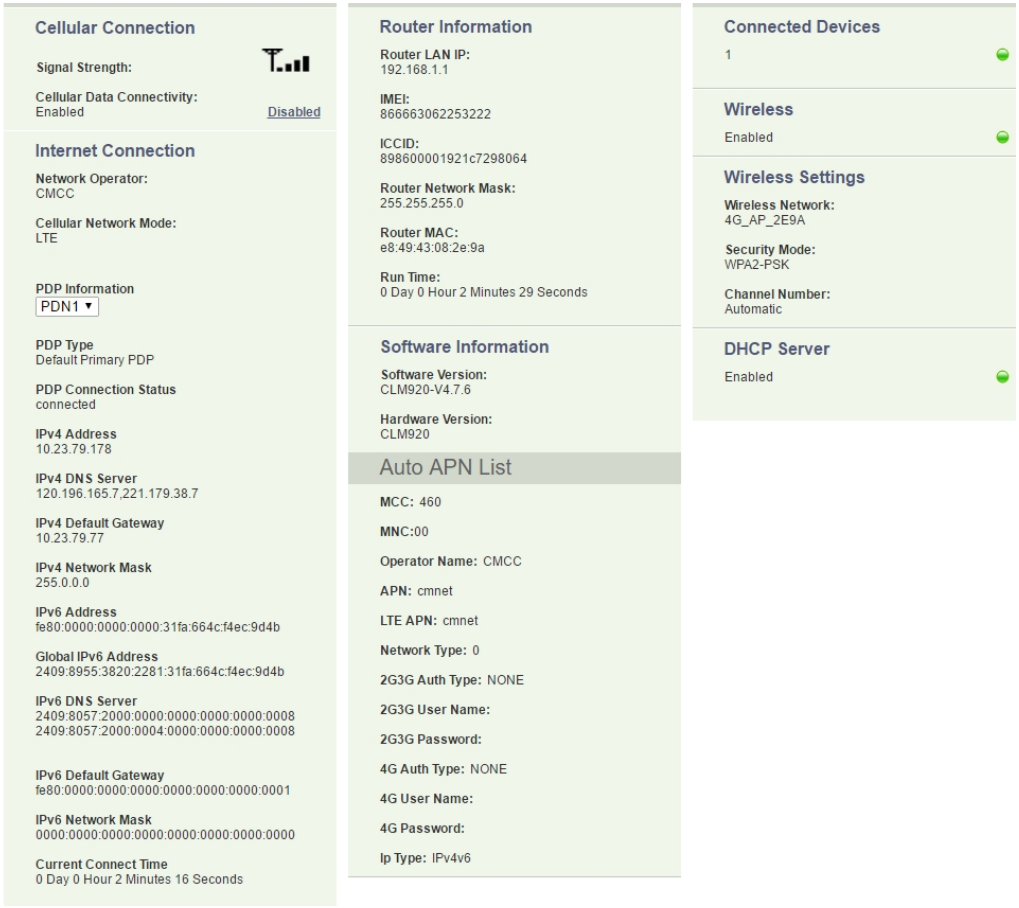
After logging in, go to this page and click "Quick Settings" or "Skip".



5.2 Home Panel Connector Ports



5.3 CPE Terminal Basic Information and Status

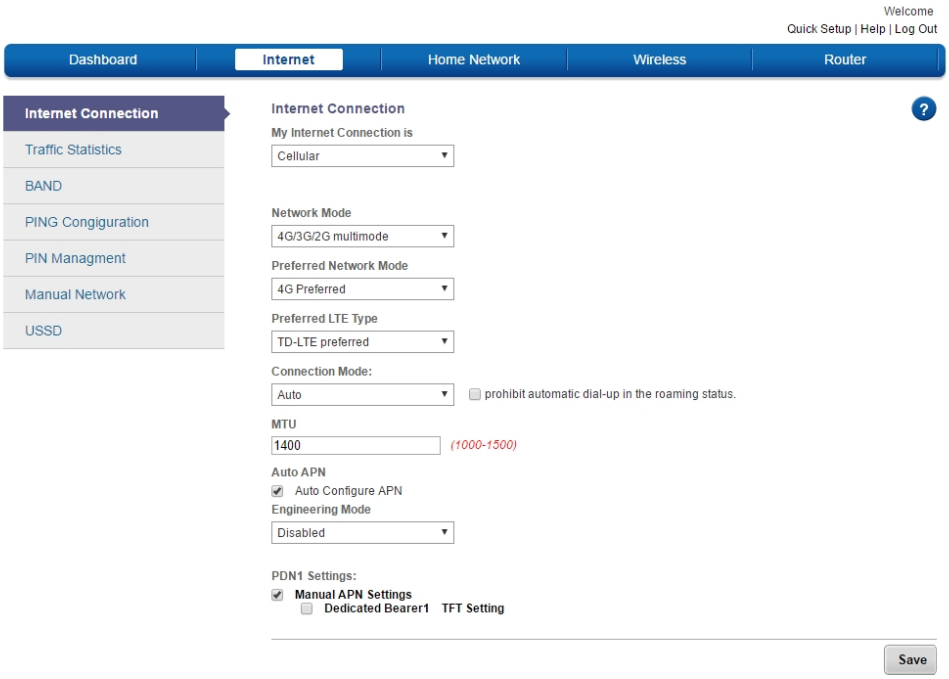


5.4 Internet

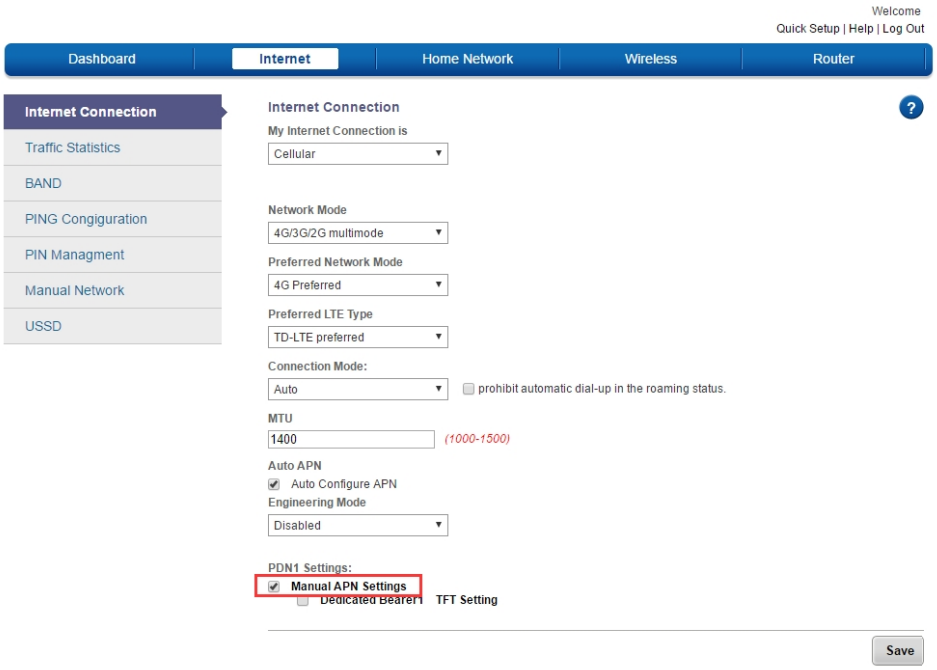
5.4.1 Internet Connection APN Configuration

The Internet Connection screen mainly refers to the LTE dialing related setup functions. You can select the preferred network mode, for example, LTE working mode or WCDMA working mode. You can set MTU parameter, configure auto APN adaptation and so on.

APN setting function, the device has preset APN settings of most carriers, and the APN can be matched automatically by setting it to auto select mode. If the SIM card is special, it may not be able to match automatically, then you can set the APN manually, you need to remove the checkbox of auto-matching APN first, and then set it manually. If you still can't access the network after setting the APN according to the SIM card operator's requirement, you can try to modify the authentication type, the two authentication types are different, you can try both.



Mobile network parameter settings include: network search method, Internet connection, APN, BAND band, ping setting, PIN code management, manual network selection, USSD.

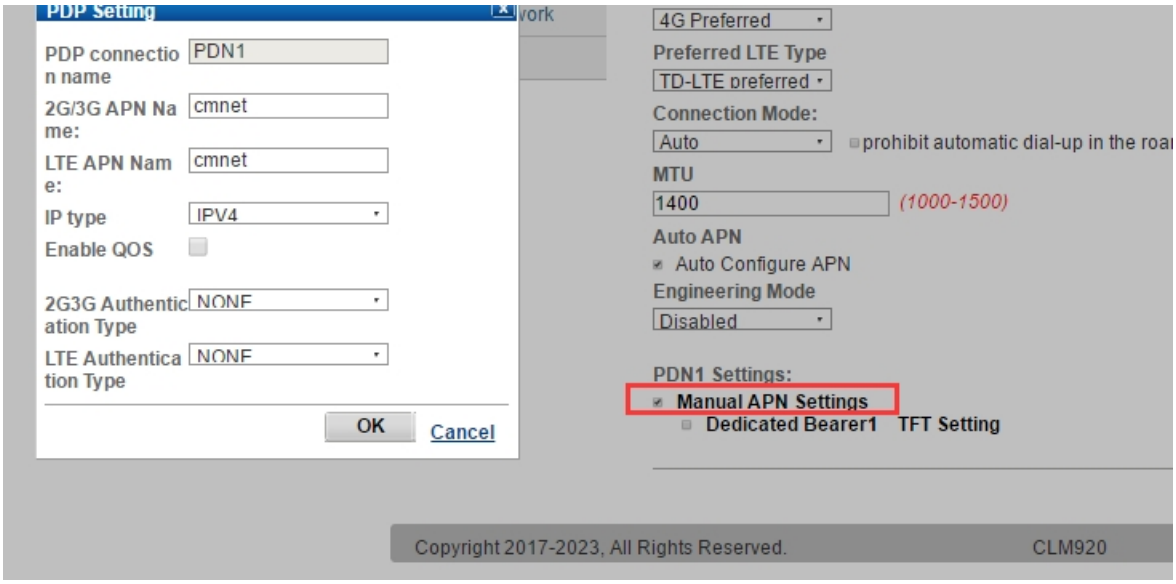


The default mode is "Auto", the device recognizes the SIM card operator information and selects the appropriate APN parameters from the device's preset APN list for network authentication.

Users can also select "Manually Set APN" mode to add customized APN configuration, and the customized APN configuration can also be set as the default APN configuration. Steps to add APN configuration in "Manually Set APN" mode:

- Enter "Profile Name", enter "APN Information", and select "Authentication Method" (these three items are required and mandatory).

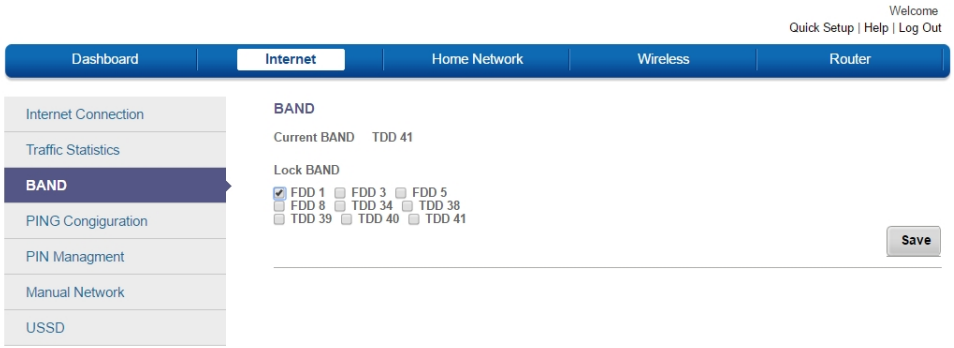
- Enter "User Name" and "Password" (optional)
- Click <Confirm> and wait for the pop-up box to indicate success.
- If you want to configure the custom APN as default, you need to select the new configuration in the drop-down box of "Configuration File", then click <Set Default>, and wait for the pop-up box to indicate success.



You can delete the customized APN configuration in "Manual" mode, select the non-default configuration in the "Profile" drop-down box, and then click <Delete>, the page prompts for success.

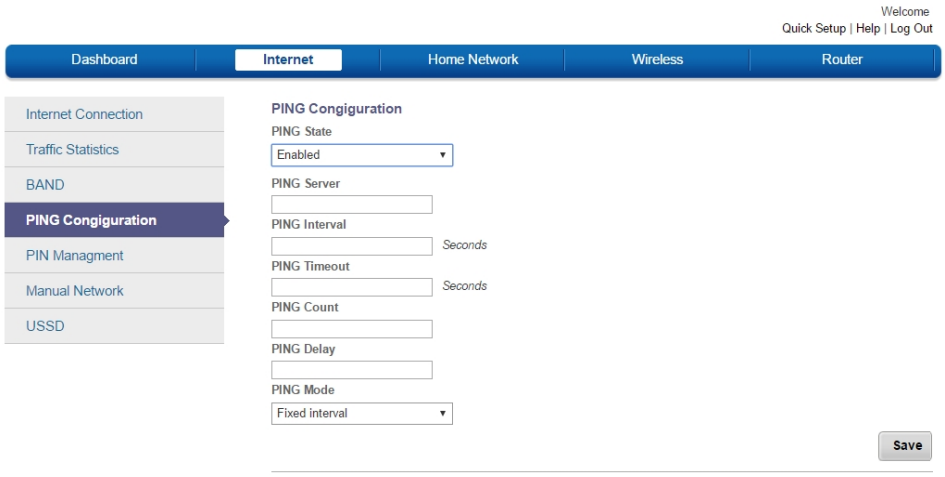
Note that the default APN configuration cannot be deleted in Manual mode and needs to be modified to a non-default configuration before deletion.

5.4.2 BAND LTE bands



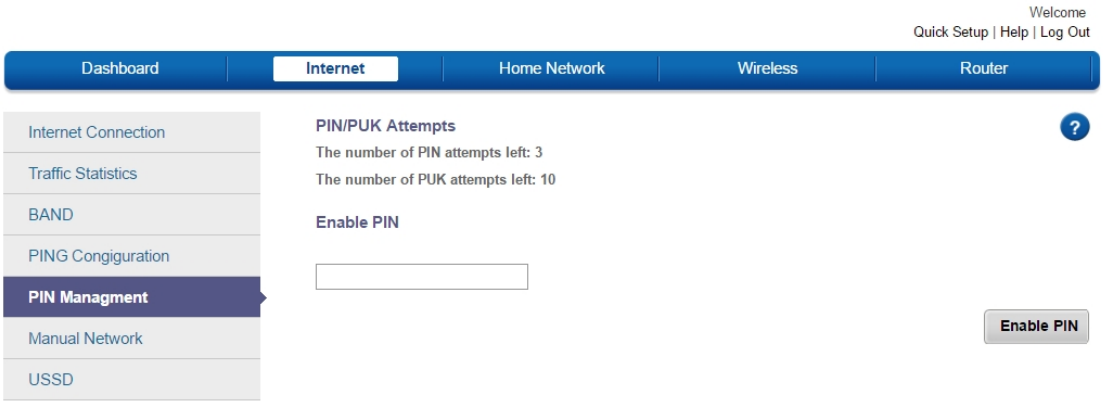
Check the frequency bands to be locked, click <Apply>, the device will reboot, the configuration takes effect, and the device performs the network search and resides in the network again.

5.4.3 ping settings



The Ping setting allows you to configure the device to automatically reboot without network or reboot at a fixed time. (Disabled by default)

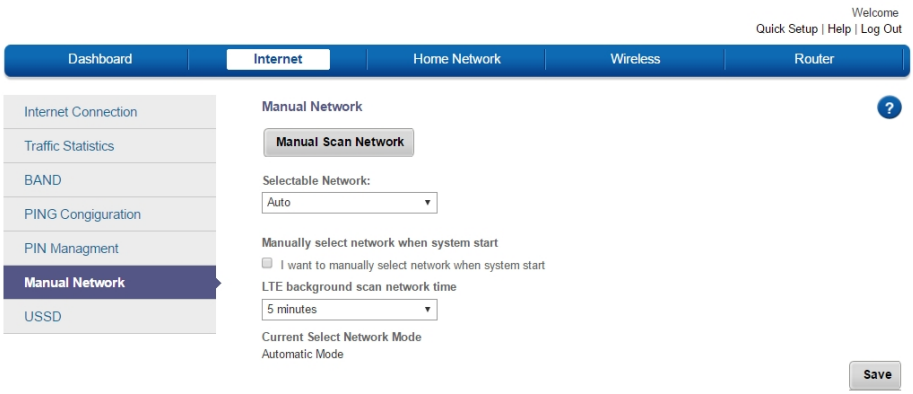
5.4.4 PIN code management



The PIN management interface provides SIM card PIN management functions, enabling, disabling, and verifying SIM PINs.

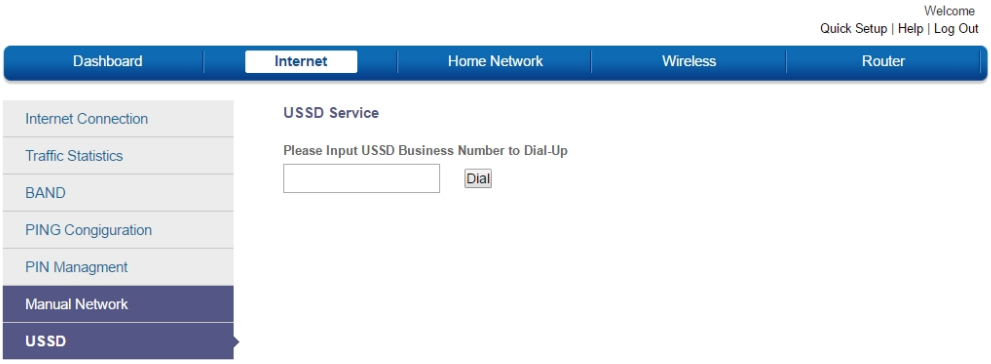
function, which provides a certain degree of security for the use of SIM cards.

5.4.5 Manual net selection



Manual Network Selection Interface For special SIM cards, you can manually search networks and select networks that can be registered.

5.4.6 USSD Settings



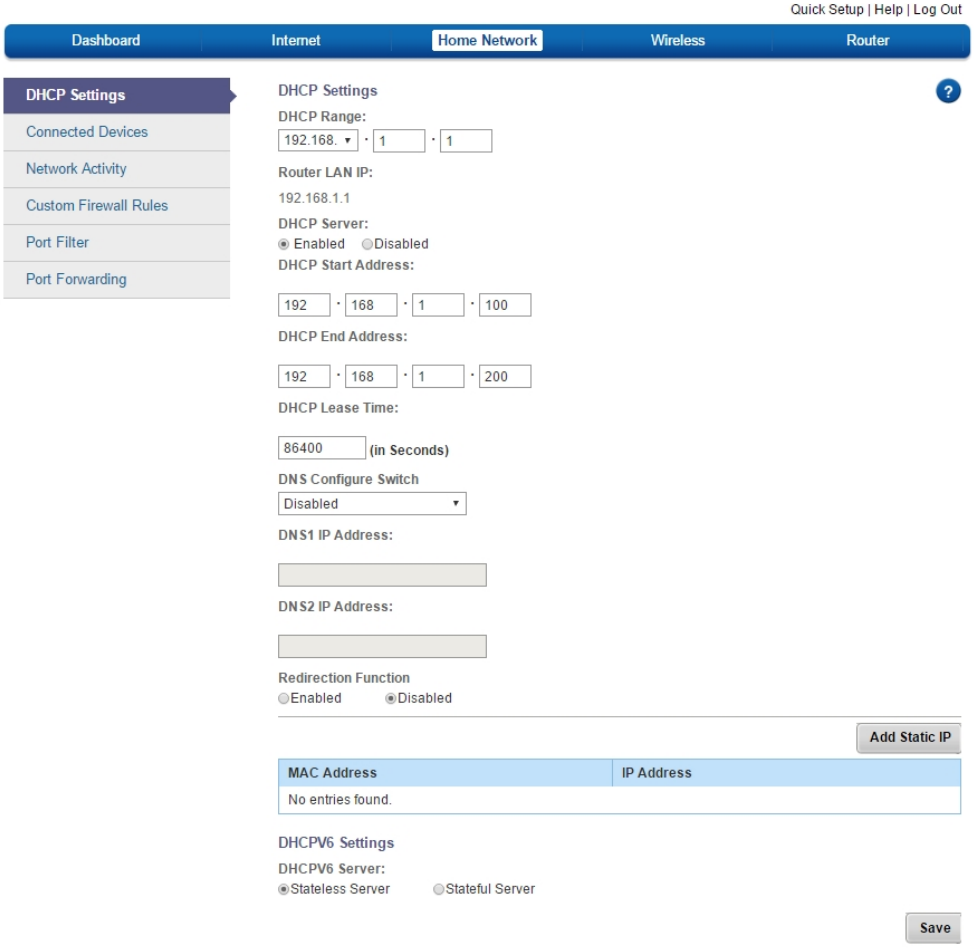
For some SIM cards, USSD dialing can be initiated from the USSD interface if the USSD function is required.

The USSD information is also displayed here.

5.5 home network

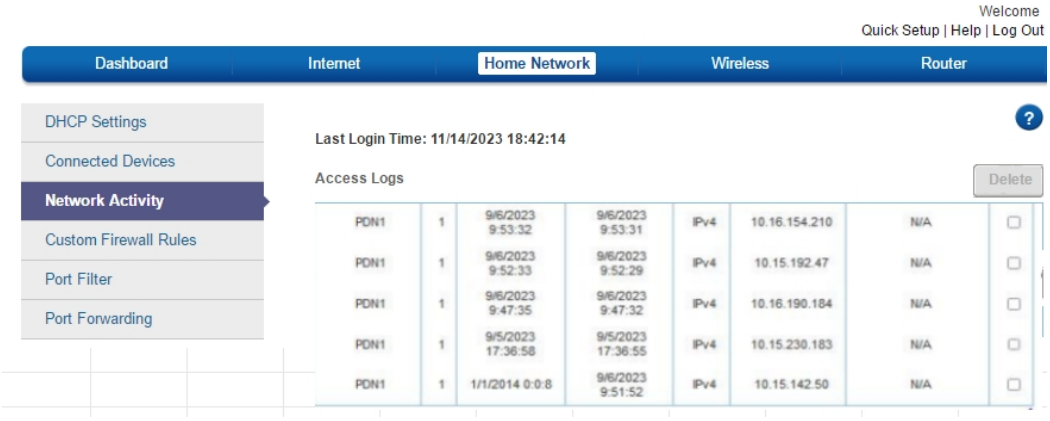
5.5.1 DHCP Settings

This page allows you to configure the gateway address of the device as well as the IP address of the connected devices and the number of connected devices, which may be limited to
The WiFi device's connection is controlled, etc.



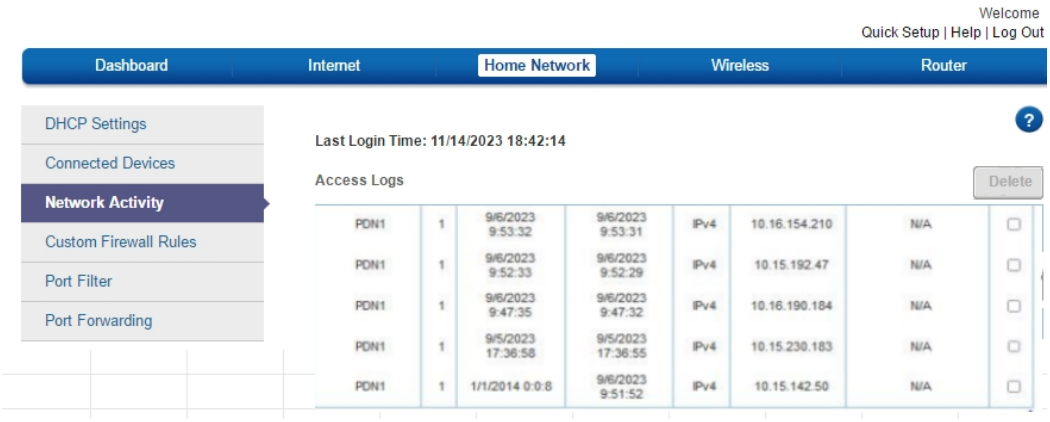
5.5.2 Connected Devices

The interface shows a list of devices that have been connected via USB or WIFI.



5.5.3 Logging Interface

The log mainly records the time of dial-up connection, and the time of wireless terminal connection.

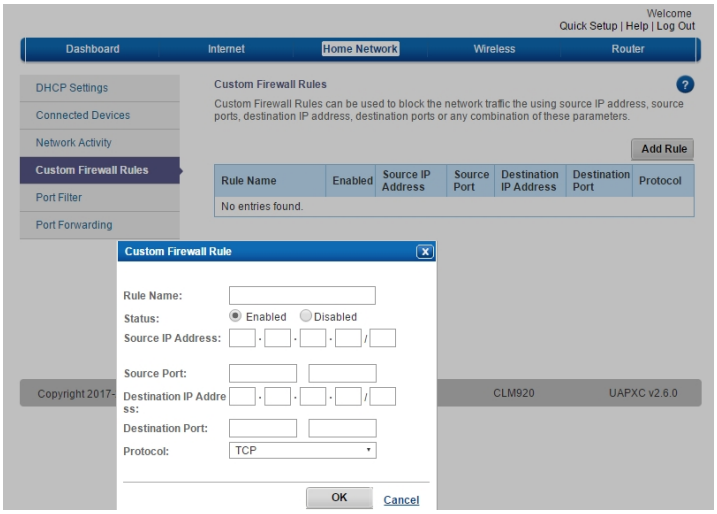


5.5.4 User firewall rules

The firewall interface provides certain security management features for specific IP and port packets.

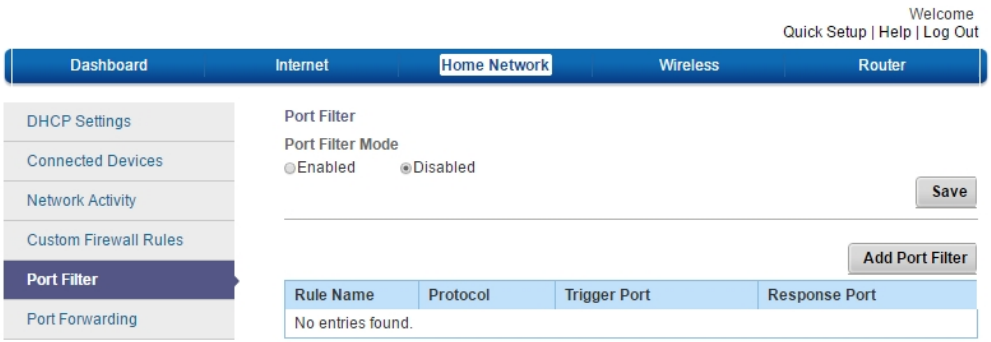
Control the setup by setting the source IP address (port), the destination IP address (port), or any combination of these parameters.

backup access network



5.5.5. Port Filtering

The Port Filtering screen provides the ability to manage packets by port.



5.5.6 Port Mapping

The Port Mapping interface provides the ability to map an external network port to an internal network port that is not accessible.

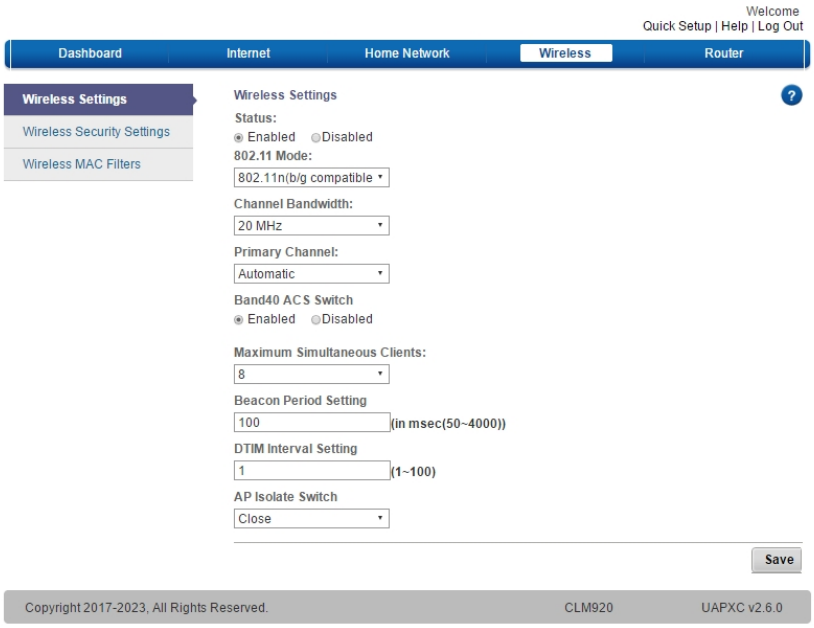


5.6 Wireless

5.6.1 Wireless Setup

You can set the wireless operating mode, channel bandwidth, channel, maximum number of connected clients, etc., and can adjust the WIFI

Some of the parameters of the



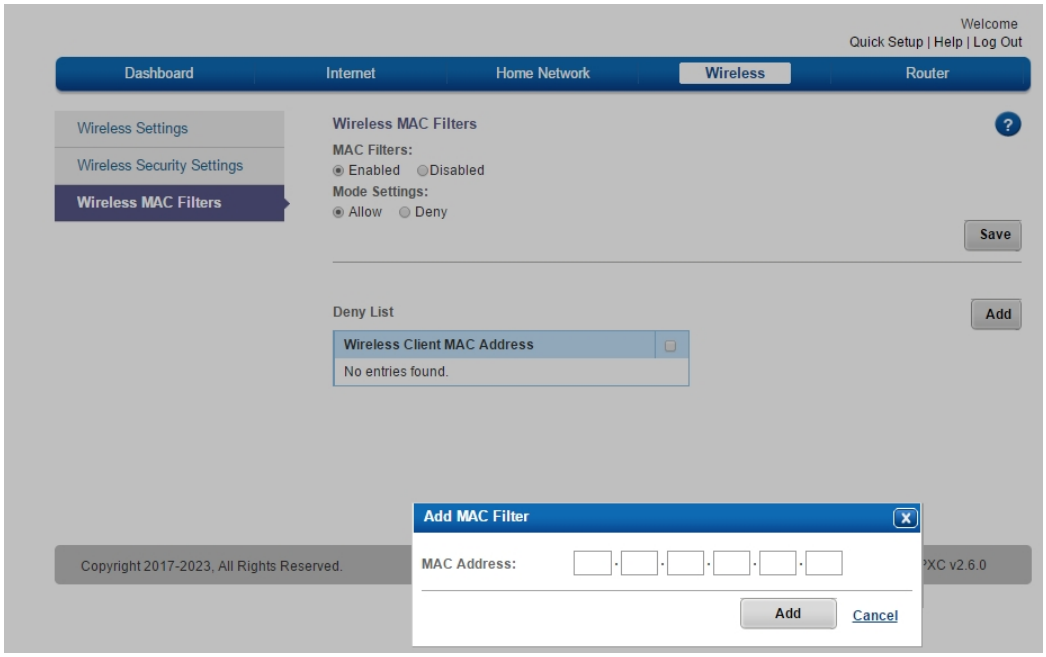
5.6.2 Wireless security settings

You can set the WIFI AP SSID name, wireless encryption method password and so on.



5.6.3 Wireless MAC Filtering

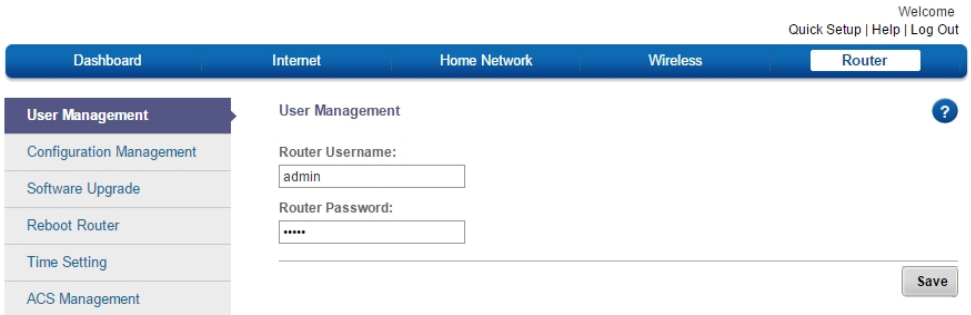
Provides whitelist and blacklist modes for filtering by wireless MAC address, and you can add and delete lists.



5. 7 Router management

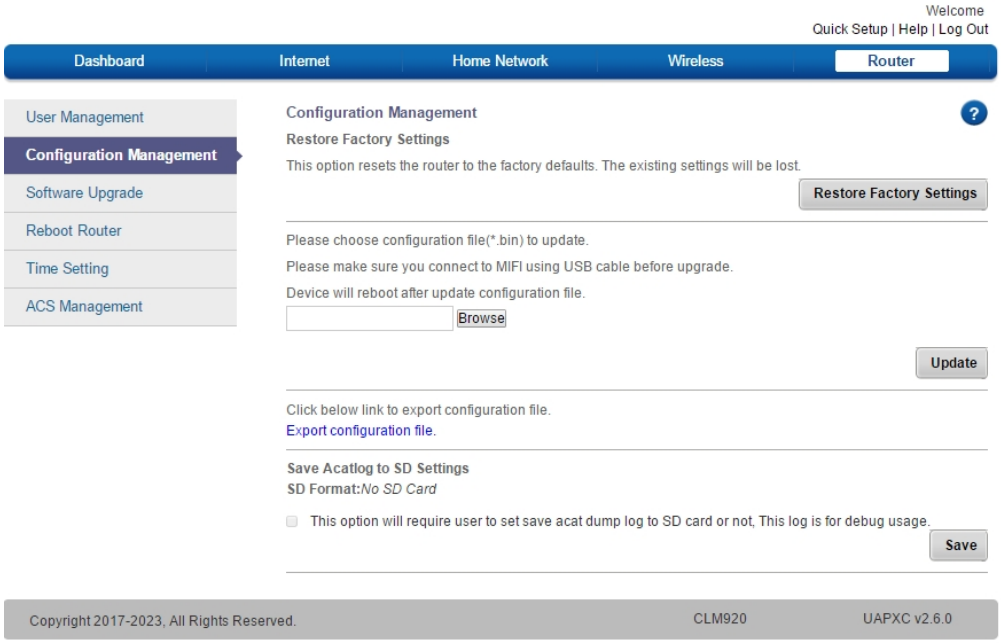
5.7.1 User management

You can set to change the user name and password.



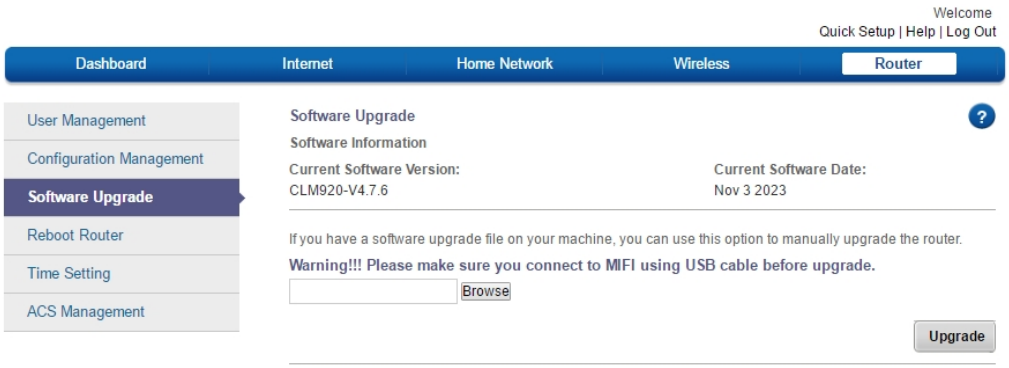
5.7.2 Configuration management

Can be used to restore factory setting operation.



5.7.3 Software upgrades

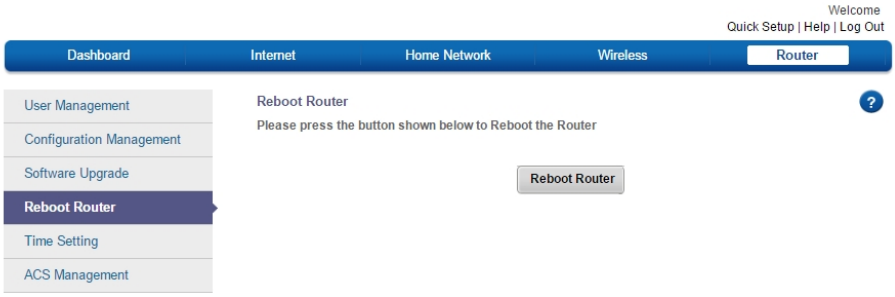
Software upgrade is mainly used to upgrade the software version of the device.



5.7.4 Rebooting the Router

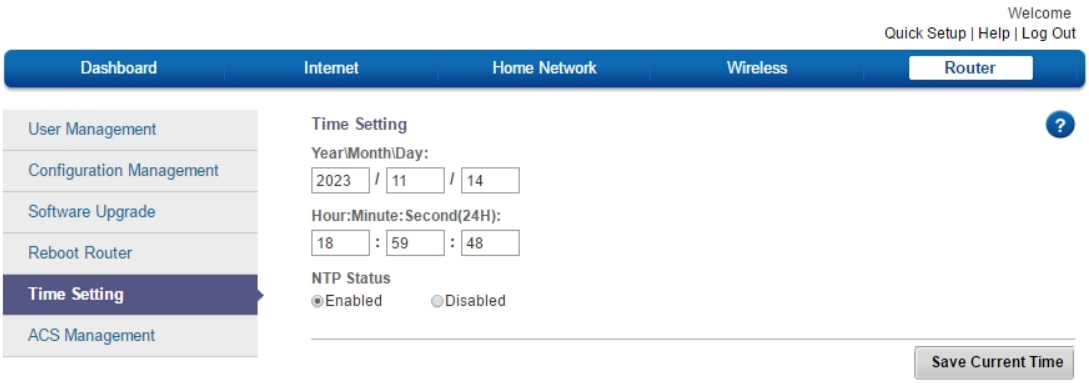
Reboot the device. There are some items in the page setup that require a reboot of the device to take effect. If the settings are not

can be used, it is recommended to reboot the device here.



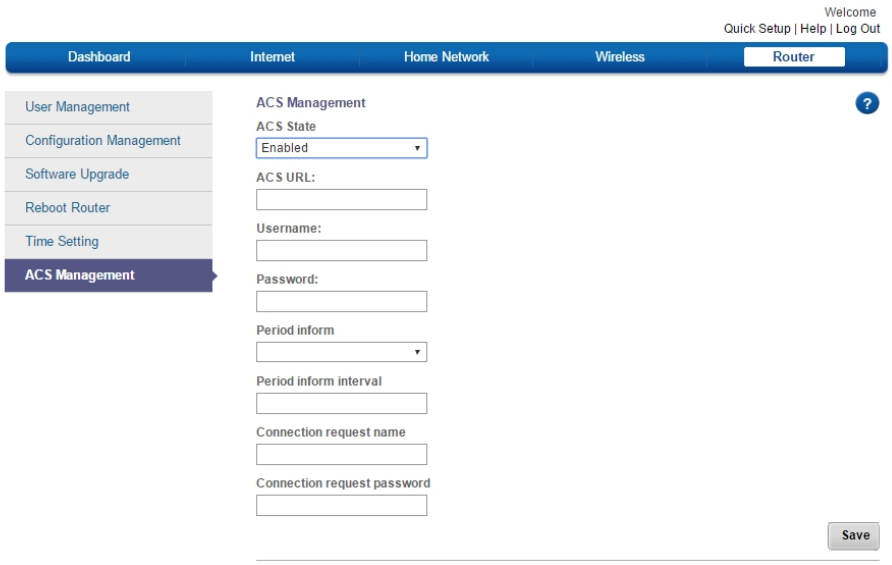
5.7.5 Time settings

You can set the system time manually or set the system to automatically synchronize the network time function.



5.7.6 ACS management

Provides a remote management server setup interface for the wireless router.



5.8 Frequently Asked Questions

5.8.1 What if I forget my username and password? (How do I reset the router?)

If you forget the user name and password, or make a mistake during the setup process and can't enter the background interactive interface of the device, you can press and hold the RESET button on the device for 10 seconds while the router is powered on, and release it to restore the router to the factory state.

5.8.2 Can't find the router's WIFI signal?

Connect your computer to the LAN port through the network cable, log in to the router management interface and select Advanced Settings -> WLAN Settings -> WALN Basic Settings page, WLAN Function Enable/Disable, make sure this option is selected as Enable. If you do not have a computer, you can also reset the router, see Question 1 for details.

5.8.3 Router signal light is on, there is data transmission, but Internet access is slow?

Please move the router to another location, such as near a window, to ensure

better reception of the 4G signal. Re-power on the router and let the router reboot.

Minimize the distance from the router to reduce intervening obstructions.

5.8.4 Why can't the device read the SIM card when the card is changed during router operation?

The device does not support SIM card hot-plugging, and the plugging and unplugging action should be performed when the router is powered off.

5.8.5 Why is the Internet slow when using wireless?

①If the signal is weak or the number of users is large in the user's location, it will affect the 4G download rate, please consult the SIM card provider for details.

② Please check if other users in the router are doing big data download.

③ Please check whether there are strong magnetic fields or strong electric field interference sources around the router, such as microwave ovens, refrigerators, etc.

④ Distance between the WIFI location and the device used and the presence of obstructions, signal attenuation.