

5G Wi-Fi6 CPE Rout

U200 Series

User Manual



V2.0

Be Honest & Do Best

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1. Introduction

1.1. Overview

U200s series 5G commercial CPE adopts Qualcomm solution IPQ5018 with dual-core ARM Cortex-A53@1GHz, which can ensure the excellent performance and fast data communication rate. It supports NR (SA&NSA), TDD-LTE and FDD-LTE cellular network, it comes with 1x1Gigabit WAN/LAN port, 3x1Gigabit LAN port and 2.4G+5G dual-band WiFi6. This device is suitable for home and commercial scenarios that require rapid deployment of WiFi hotspots and wired broadband networks, it brings you high speed WiFi wherever you want.

1.2. Features

- High Performance processor IPQ5018, dual-core ARM Cortex-A53@1GHz.
- Ultra-fast 5G speed up to 2.4Gbps,supports 5G/4G/3G full networks and SA&NSA modes. Built-in 4 cellular antennas ensure the best signal is received wherever it is placed.
- Super-fast WiFi up to 3600Mbps, U200s series CPE supports WiFi6 AX3000 and the WiFi speed is up to 3600Mbps (2400Mbps on 5GHz and 573Mbps on 2.4GHz)
- Multiple Ethernet ports: 1*gigabit WAN/LAN(configurable) port, 3*gigabit LAN ports, connect more Ethernet devices.
- Automated failover/failback back up among Ethernet, Cellular and Wi-Fi.
- Support connect to PUSR cloud to to achieve centralized device management and remote monitoring
- Support WPA3 encryption to protect your data.

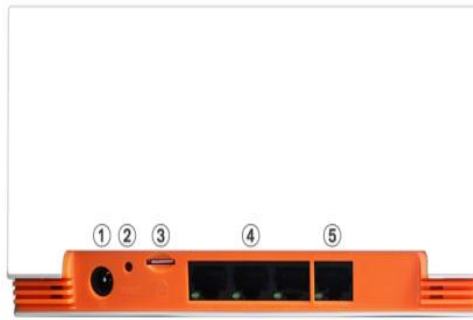
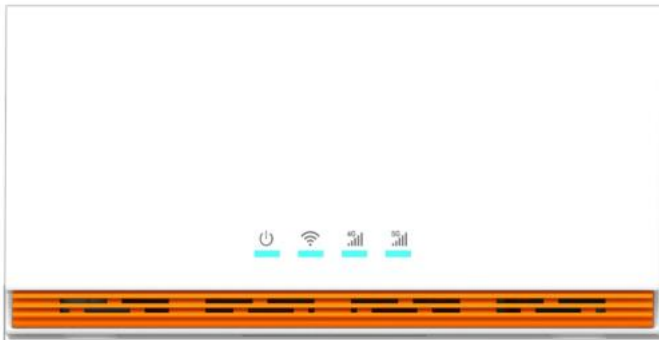
1.3. Specification

Model		U200S	U200L	U200C
Feature		5G + WiFi6	4G + WiFi6	WiFi6
CPU	Processor	IPQ5018,Dual-core ARM Cortex-A53@1GHz		
	Memory	RAM: 512M,DDR3 Flash: 128M		
Cellular	Cellular module	Qualcomm Snapdragon X62/RM520NGLAA	EM05GFA	--

	Frequency Bands	5G NRSA/NSA: n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n75/n76/n77/n78/n79 LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/ B30/B32/B66/B71 LTE TDD: B34/B38/B39/B40/B41/B42/B43/B48 WCDMA: B1/B2/B4/B5/B8/B19	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B18/B19/B20/B25/B26/B28/B66/B71 LTE TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19	--
	Rate	5G SA Sub-6: Max. 2.4 Gbps (DL)/Max. 900 Mbps (UL) 5G NSA Sub-6: Max. 3.4 Gbps (DL)/Max. 550 Mbps (UL) LTE-FDD: Max. 1.6 Gbps (DL)/Max. 200 Mbps (UL) HSPA+ : Max. 42Mbps (DL)/Max. 5.76Mbps (UL)	LTE-FDD: Max.150Mbps (DL)/Max. 50 Mbps (UL) WCDMA: Max.42Mbps (DL)/Max. 5.76Mbps (UL)	--
	Antennas	4* 5G internal antennas, 3DBI	2*4G internal antennas, 3DBI	--
	MIMO	4*MIMO	2*MIMO	
	SIM slot	1*Nano SIM	1*Nano SIM	--
WiFi	Wi-Fi Chipsets	2.4G: IPQ5018 5GHz: Qualcomm QCN6102		
	Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax		
	Frequency Bands	2.4G: 2.412GHz - 2.484GHz 5.8G: 5.15GHz ~ 5.85GHz		
	Rates	2.4G: 574 Mbps 5.8G: 2402 Mbps		
	End users	Up to 128		
	Antennas	2*internal antennas, 3DBI		
	Encryptions	WPA/WPA2, WPA3		
	Tx power	Up to 27dBm(Configurable according to different country)		
Ethernet	WAN/LAN	1* Gigabit WAN/LAN(RJ45), auto MDI/MDIX		

	LAN	3* Gigabit LAN(RJ45), auto MDI/MDIX		
Power supply	Standard Power	12V/2A		
	Consumption	Average: 600mA/12V Max: 1100mA/12V		
	Connector	DC socket 5.5*2.1		
Physical characteristics	Dimension	180*90.73*90.93		
	Housing	ABS Material		
	Installation	Desktop,		
	Operating Temperature	0°C~+55°C		
	Weight	493.1g	493.1g	493.1g
	Humidity	1%-95% (No-condensing)		
Other interface	Reset button	Press and hold for 5-15s to reset to factory settings		
	Indicators	Power, WiFi, 4G, 5G		
Software	WiFi mode	AP/router/repeater		
	WAN connectivity	DHCP/PPPoE/Static IP		
	MAC Clone	√		
	Cellular relevance	APN settings, PDP(IPv4/IPv4v6),SIM authentication settings, PIN settings, network detection, AT command		
	WiFi relevance	AP isolation, SSID hiding, 802.11r, signal level selection		
	LAN interface	DHCP server		
	Black/white list	√		
	IP blinding	√		
	Firmware upgrade	WebUI upgrade, online upgrade		
	Backup/restore	Backup current settings and restore the backup settings (Export/Import Configuration)		
Time setting	Manual/auto			

1.4. Button & Indicator



- ① DC Socket
- ② RESET
- ③ SIM Slot
- ④ LAN
- ⑤ WAN/LAN

Item	Description
Reset button	Press and hold for 5-15s to reset to factory settings.
Power	After power on: on Not powered on: Off Abnormal power on: off
WiFi	WiFi enabled: always on WiFi Off: Long Off WiFi connection successful: flashing rapidly
4G	4G networking: flashing lights Failed to connect to the internet: lights off Connected 5G: Turn off the lights
5G	Connected 5G: flashing lights Failed to connect to the internet: lights off 4G networking: lights off
Gigabit LAN port	Insert Ethernet cable: green light on Data communication: yellow flashing Unplugged Ethernet cable: Off
WAN/LAN port	Insert Ethernet cable: green light on Data communication: yellow flashing Unplugged Ethernet cable: Off

1.5. Dimension

Unit: mm

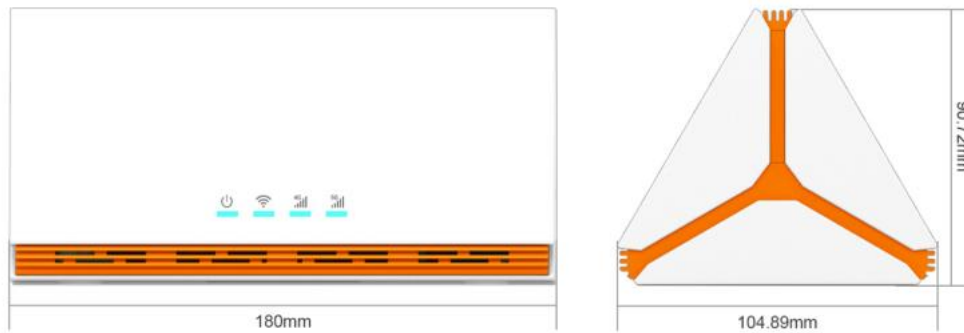
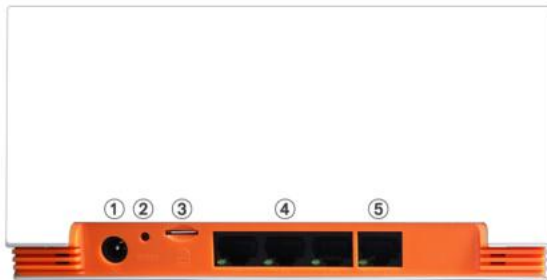


Figure 1. Dimension of U200s

2. Get Started

2.1. Hardware interface introduction



- ① DC Socket
- ② RESET
- ③ SIM Slot
- ④ LAN
- ⑤ WAN/LAN

2.2. Quick test

2.2.1. Login setting page

Connect PC to the LAN port of the AP controller, and set the IP to static IP, such as 192.168.1.101. The IP should be on the same network segment as the AP device.

You can test whether the network is connected by ping 192.168.1.1

```

命令提示符
Microsoft Windows [版本 10.0.22621.2715]
(c) Microsoft Corporation。保留所有权利。

C:\Users\86189>ping 192.168.1.1

正在 Ping 192.168.1.1 具有 32 字节的数据:
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64

192.168.1.1 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失),
    往返行程的估计时间(以毫秒为单位):
        最短 = 1ms, 最长 = 1ms, 平均 = 1ms

C:\Users\86189>

```

Figure 2. Ping command

Enter the default IP address of the CPE 192.168.1.1 in the browser, and the browser will navigate to login page. The username and password are both admin.

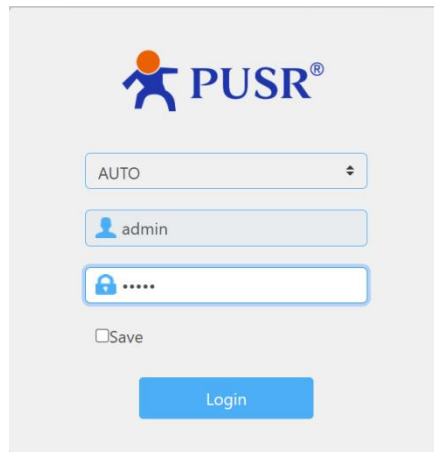
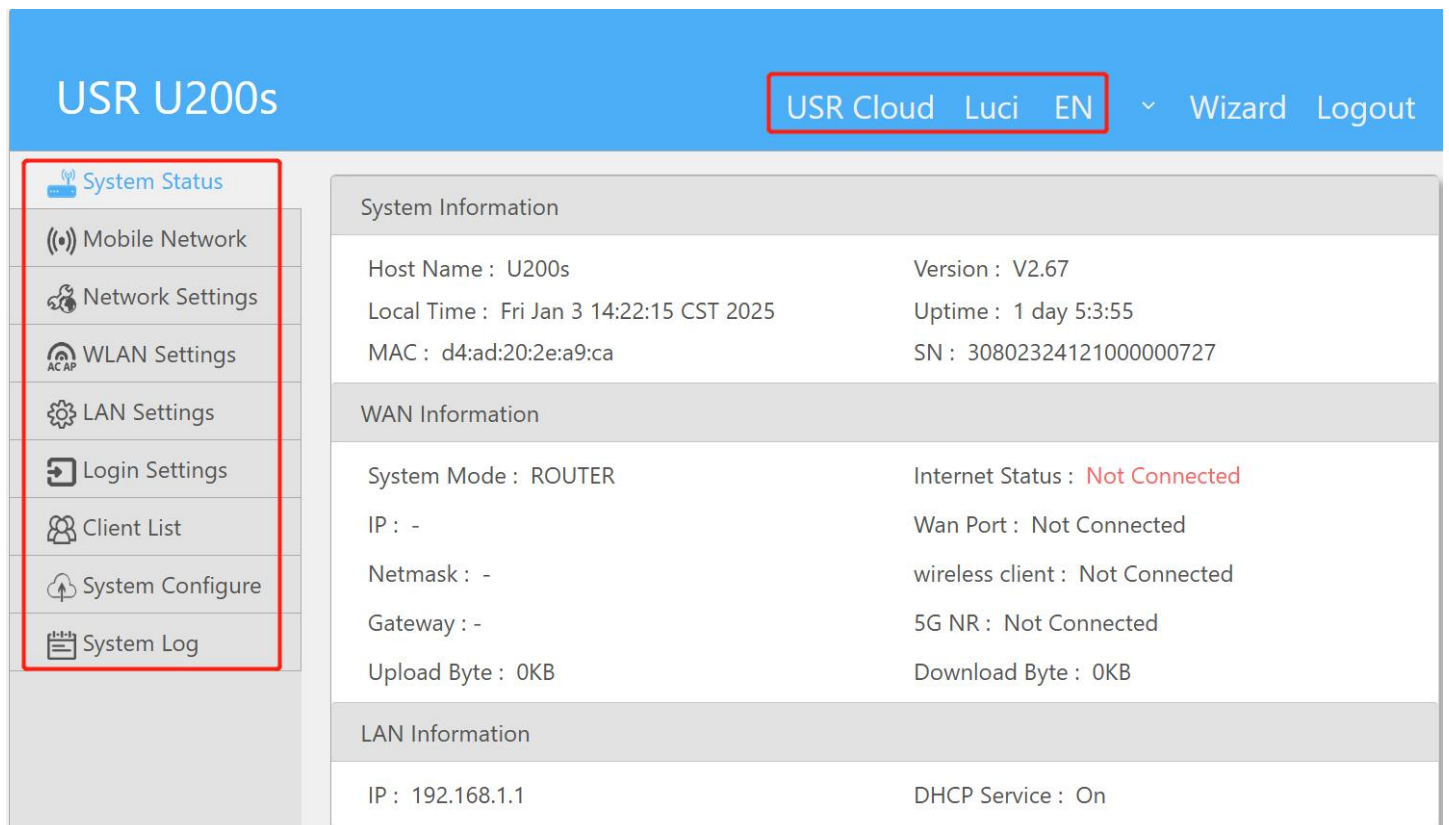


Figure 3. Login page

2.2.2. Brief introduce of the webpage

The left column is divided into 9 menu pages: System status, mobile network, Internet settings, WLAN settings, LAN settings, Login settings, client list, upgrade and system log.

There are three auxiliary options in the upper right corner: PUSR cloud, Luci, language, as shown in the following figure.



System Information	
Host Name : U200s	Version : V2.67
Local Time : Fri Jan 3 14:22:15 CST 2025	Uptime : 1 day 5:3:55
MAC : d4:ad:20:2e:a9:ca	SN : 30802324121000000727

WAN Information	
System Mode : ROUTER	Internet Status : Not Connected
IP : -	Wan Port : Not Connected
Netmask : -	wireless client : Not Connected
Gateway : -	5G NR : Not Connected
Upload Byte : 0KB	Download Byte : 0KB

LAN Information	
IP : 192.168.1.1	DHCP Service : On

Figure 4. Overview of the web page

3. Configuration and parameter details

3.1. System status

This interface displays the basic information of the router, including 4 major blocks: system information, WAN port information, LAN port information, WLAN information. The specific information is shown in the figure below.

The screenshot shows the 'System Status' page. The left sidebar contains the following menu items: System Status (highlighted with a red box), Mobile Network, Network Settings, WLAN Settings, LAN Settings, Login Settings, Client List, System Configure, and System Log. The main content area is organized into four sections:

System Information	
Host Name : U200s	Version : V2.67
Local Time : Fri Jan 3 15:28:54 CST 2025	Uptime : 1 day 5:8:0
MAC : d4:ad:20:2e:a9:ca	SN : 30802324121000000727

WAN Information	
System Mode : ROUTER	Internet Status : Connected
IP : 192.168.22.130	Wan Port : Connected
Netmask : 255.255.255.0	wireless client : Not Connected
Gateway : 192.168.22.1	5G NR : Not Connected
Upload Byte : 40.9 KiB	Download Byte : 137.8 KiB

LAN Information	
IP : 192.168.1.1	DHCP Service : On

WLAN Information	
2.4G	5G
SSID : U200s-A9CA	SSID : U200s-A9CA-5G

Figure 5. System status

3.2. Mobile network

This function block displays the basic information of mobile network, including SIM information, 5G model information, 5G band, 4G LTE band, 3G WCDMA band.

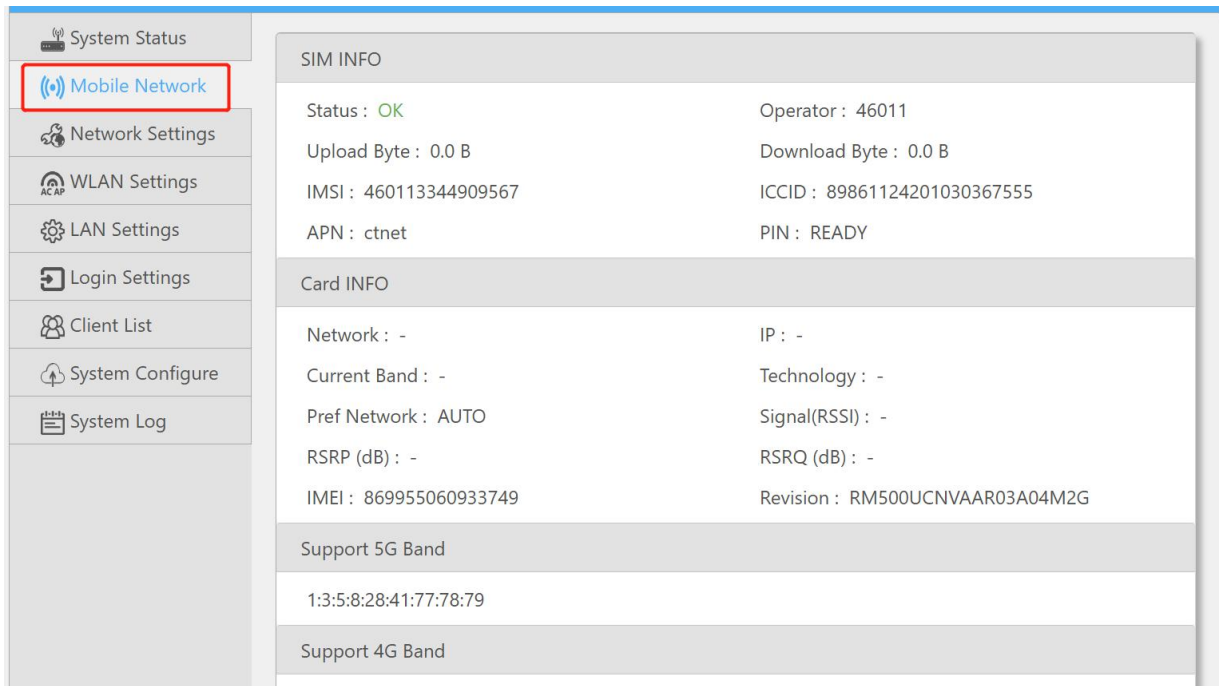


Figure 6. Mobile network

3.3. Network settings

On this page, users can set the network-dependent parameters of the CPE: Mode selecting, Ethernet settings, WAN settings, Wireless connect and other options.

3.3.1. Mode selecting

There are 2 modes that can be selected: Router mode and AP mode.

Router mode: In this mode, the WAN port supports DHCP client, static IP, PPPoE. For LAN port, it supports DHCP service to assign IP addresses to terminal network devices.

AP mode: In this mode, WAN and LAN are bridged together, and DHCP service is turned off. If users need connect to Internet via cellular, the CPE should work in ROUTER mode. The CPE need connect to other router or AC to get access to the Internet.

Note: If users need to log into the web page of U200, set the PC to static IP such as 192.168.1.101. The IP should be on the same network segment as the AP device.

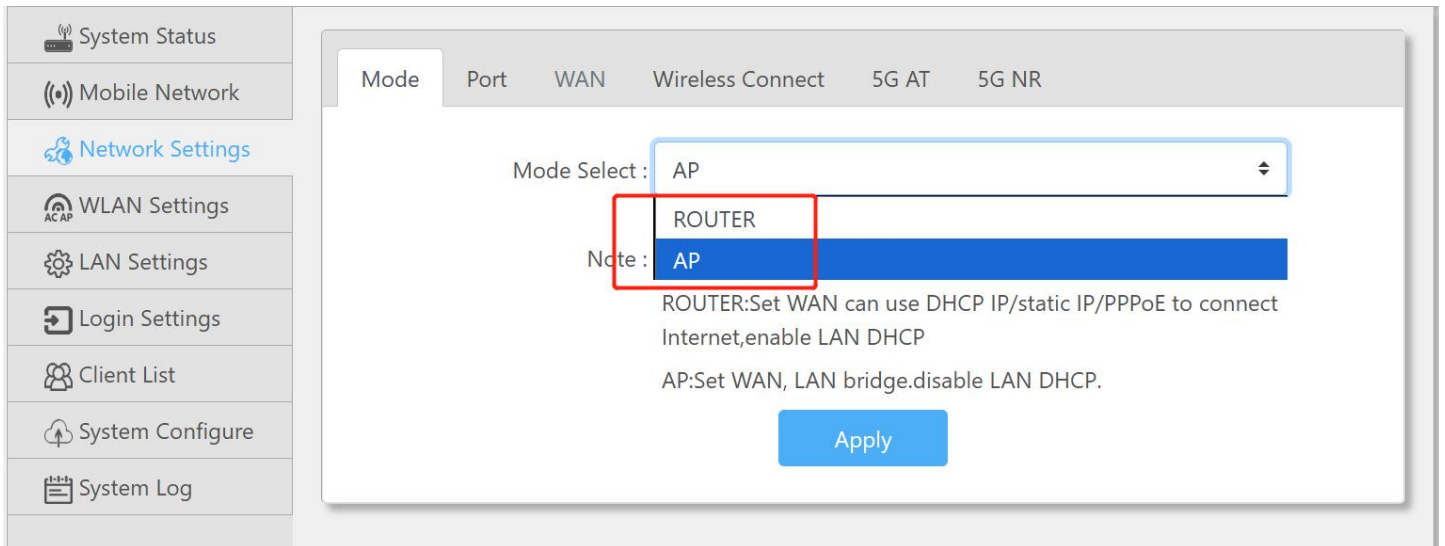


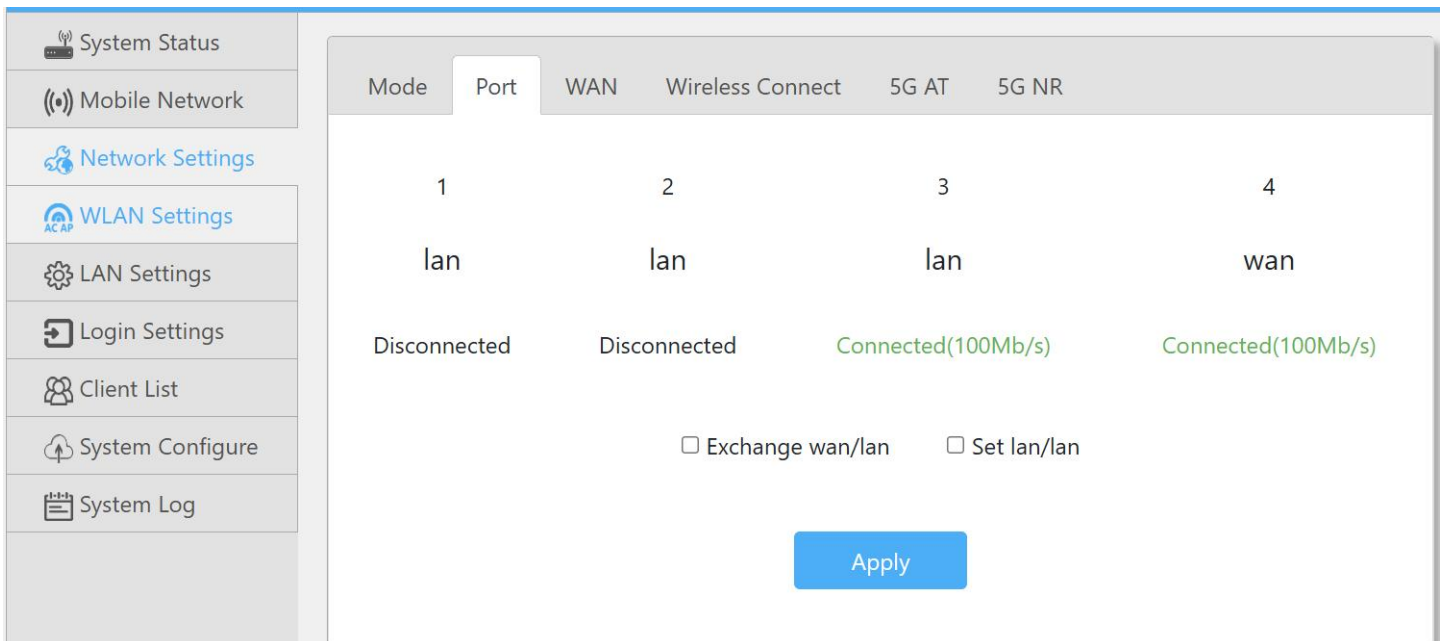
Figure 7. Mode settings

3.3.2. Ports status checking

In this function block, users can implement WAN/LAN switching, and can monitor whether the Ethernet port is connected to a device.

[Set lan/lan]: checked means set all 4 ports to LAN port.

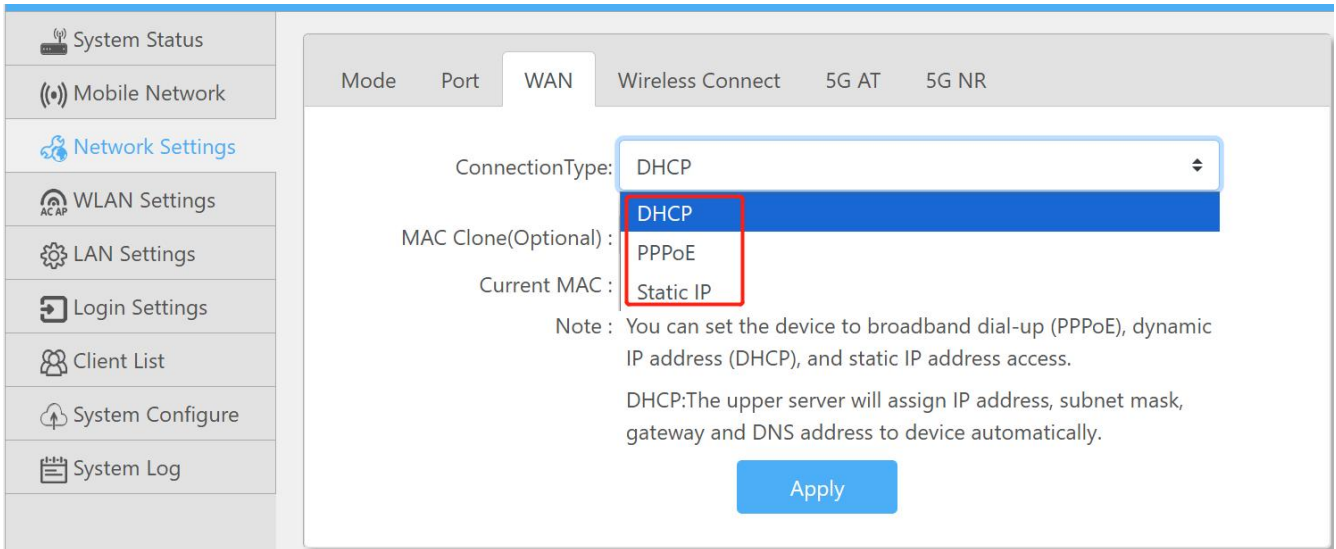
[Exchange wan/lan]: Checked means port4 is LAN port and the other 3 ports is WAN port.



3.3.3. WAN settings

On this page, users can set parameters of WAN port to get access to Internet, including DHCP client, static IP, and PPPoE.

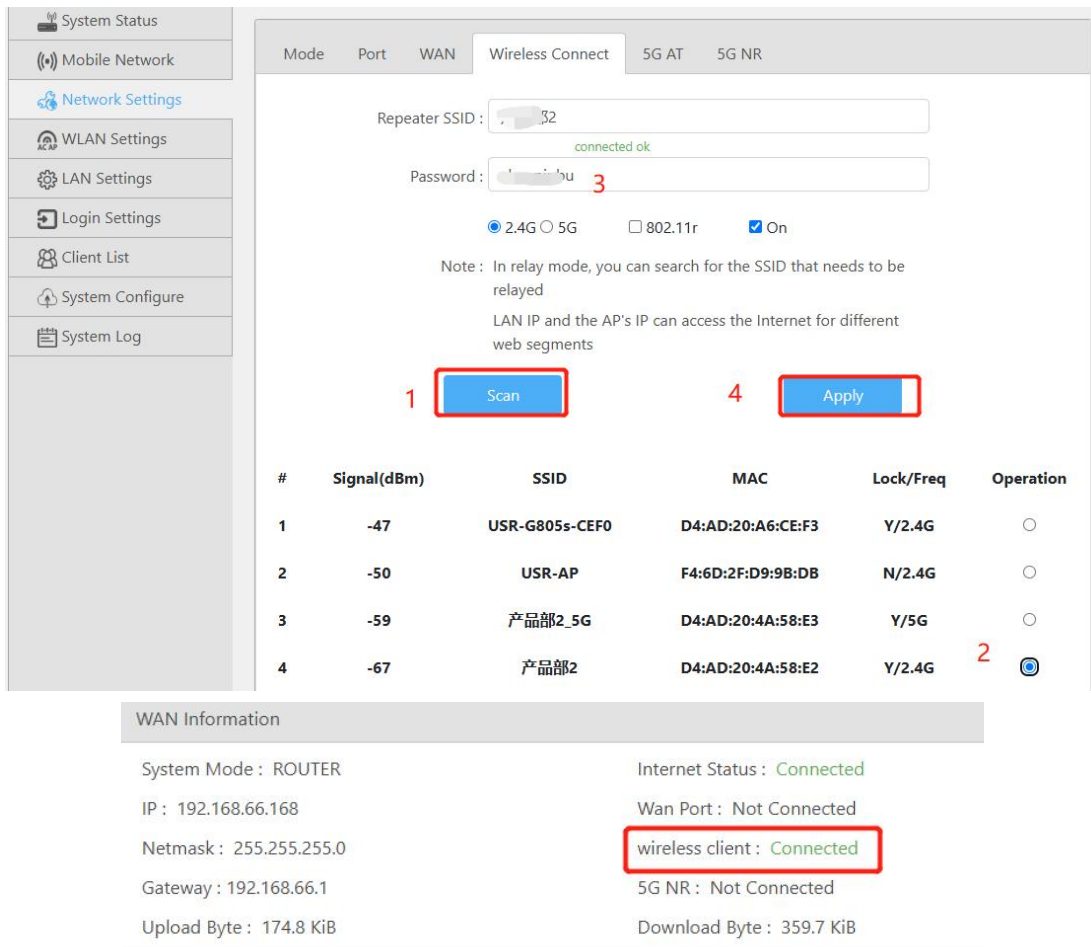
MAC clone: Replace the AC's MAC address with this MAC.



3.3.4. Wireless connect

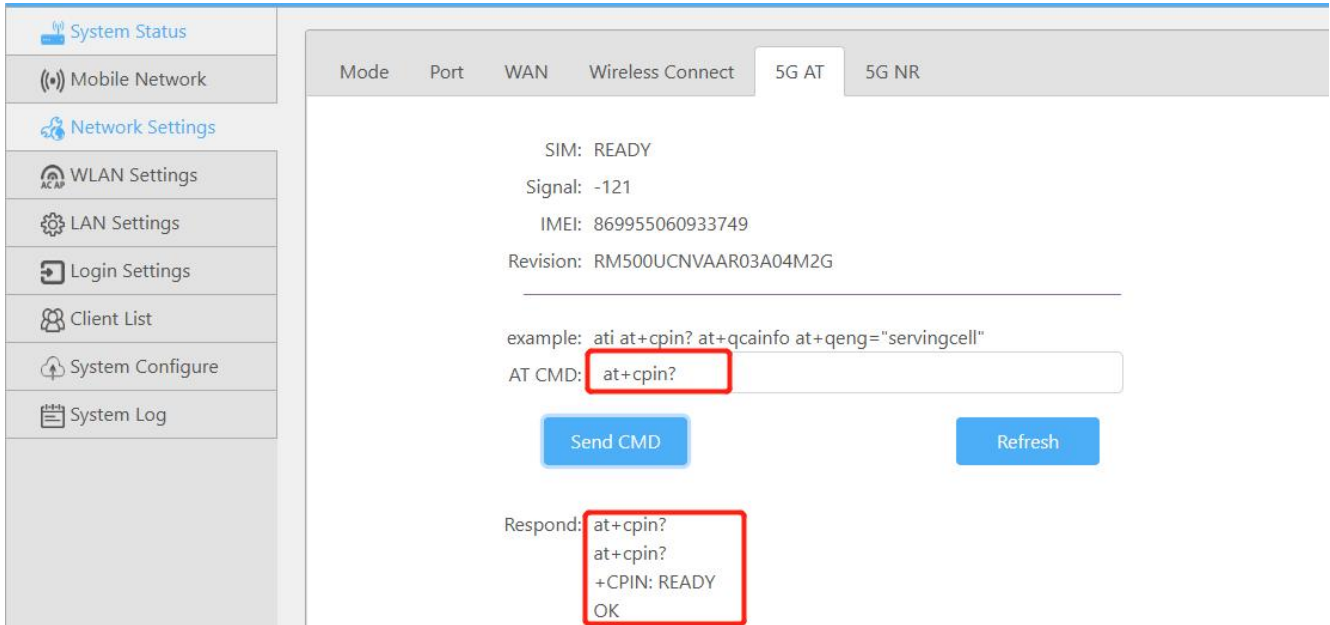
Click <SCAN>, it will display the Wi-Fi SSID nearby, check the needed SSID, enter the password, select the needed frequency, check "Turn on", then click "Apply".

Note: In repeater mode, the LAN IP and the WAN IP should be in the different network segment, or the terminal devices can not access to the Internet.



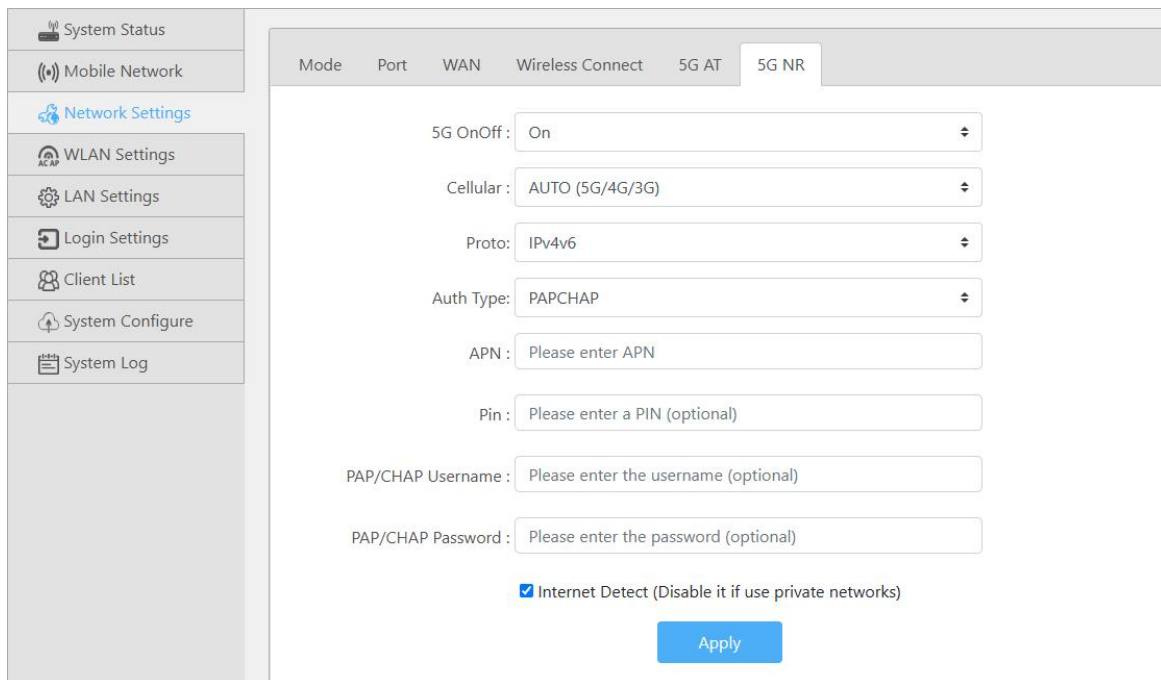
3.3.5. 5G AT

To get information or settings of 5G module via sending AT command.



3.3.6. 5G NR

Settings of 5G module.



Items	Description	Default value
5G OnOff	Turn on/Turn off 5G NR.	On
Cellular		AUTO(5G/4G/3G)
PDP	IPv4v6: If the SIM card supports IPv4 and IPv6 together, please select this option. IPv4: If the SIM card supports IPv4 only, please select this option.	IPv4v6

Auth Type	Authentication method: PAPCHAP: support PAP and CHAP authentication protocol both. PAP: Select PAP authentication type. CHAP: Select CHAP authentication type. None: There is no need of authentication.	PAPCHAP
APN	The APN information which is based on the SIM card	None
PIN	If a PIN code has been set on the card, please enter the correct PIN code.	None
PAP/CHAP Username	Username of the authentication protocol.	None
PAP/CHAP Password	Password of the authentication protocol.	None
Internet Detect	Detect the Internet connection with PING command, if fails, the cellular module will reboot and dial again.	Checked

3.4. WLAN settings

It includes 3 parts in this function block: 2.4G settings, 5.8G settings, Signal selecting.

3.4.1. 2.4G settings

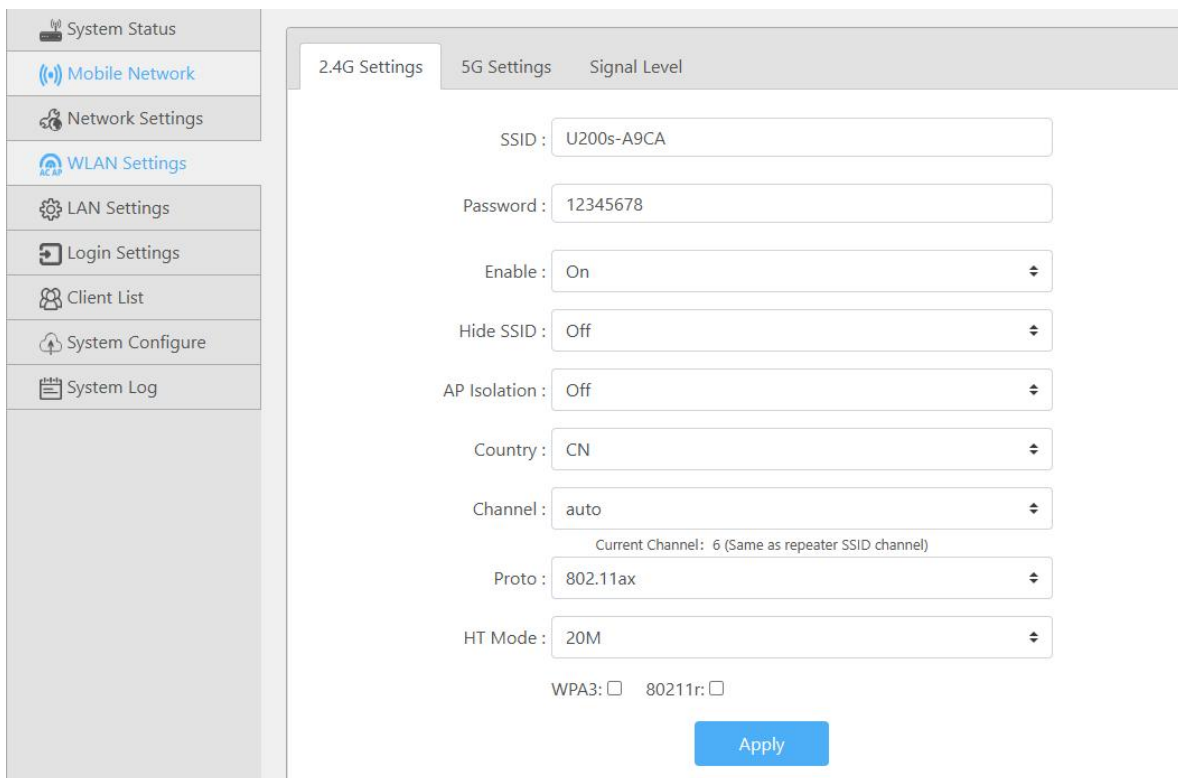
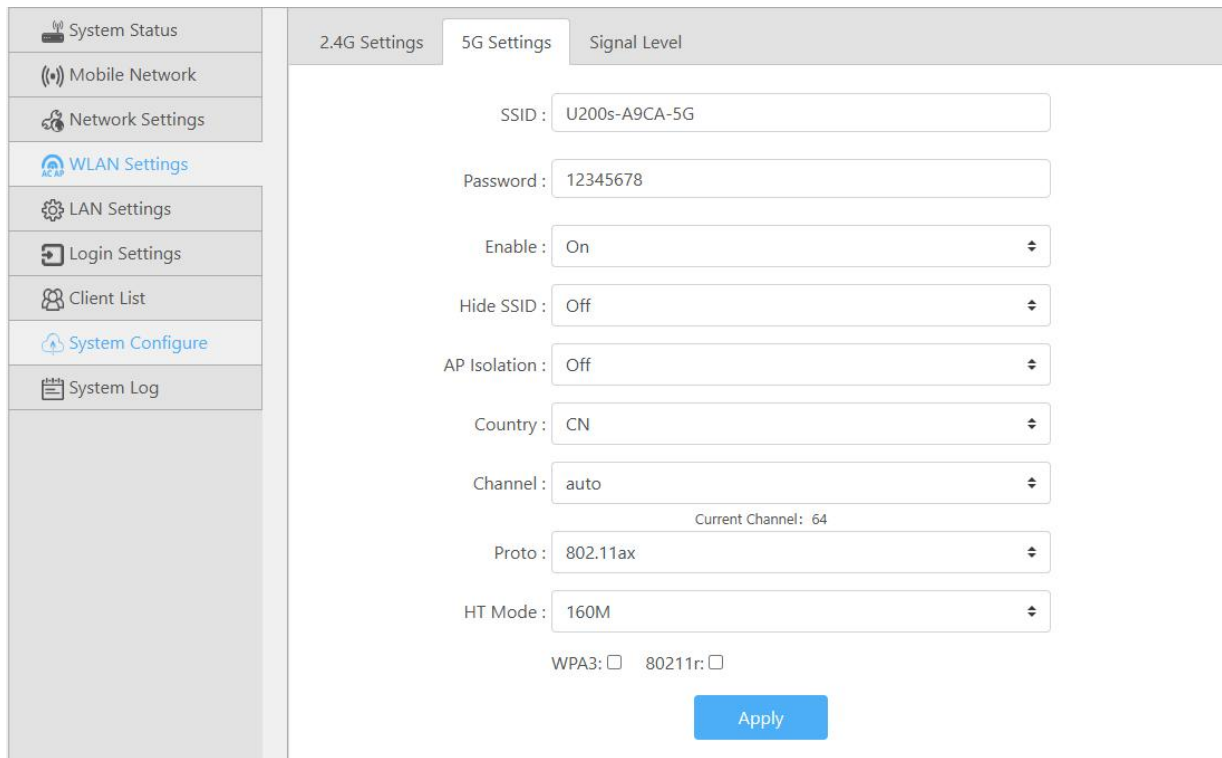


Figure 8.

Items	Description	Default value
SSID	Set the SSID of AP device, the maximum length is up to 22 characters.	U200s-XXXX
Password	Length: 8~32, it can be characters and numbers. Users can leave it blank, it will open to all users.	12345678

Wi-Fi enable	Turn on / turn off the Wi-Fi function.	On
Hiding SSID	Turn on / turn off the SSID. After enabling this function, users will not be able to detect the SSID.	Off
AP Isolation	Turn on: STAs connected to this AP cannot access each other. Turn off: STAs connected to this AP can access each other.	Off
channel	Channel 1~ 13 can be selected, or user can leave it to auto.	auto
Protocol	802.11ax/n/g/b.	802.11ax
HT Mode	20M/40M/20M40M auto	20M
WPA3 Encryption	Enable WPA3 enhanced encryption protocol.	Not checked
80211r	Turn on / turn off 802.11r protocol.	Not checked

3.4.2. 5G settings

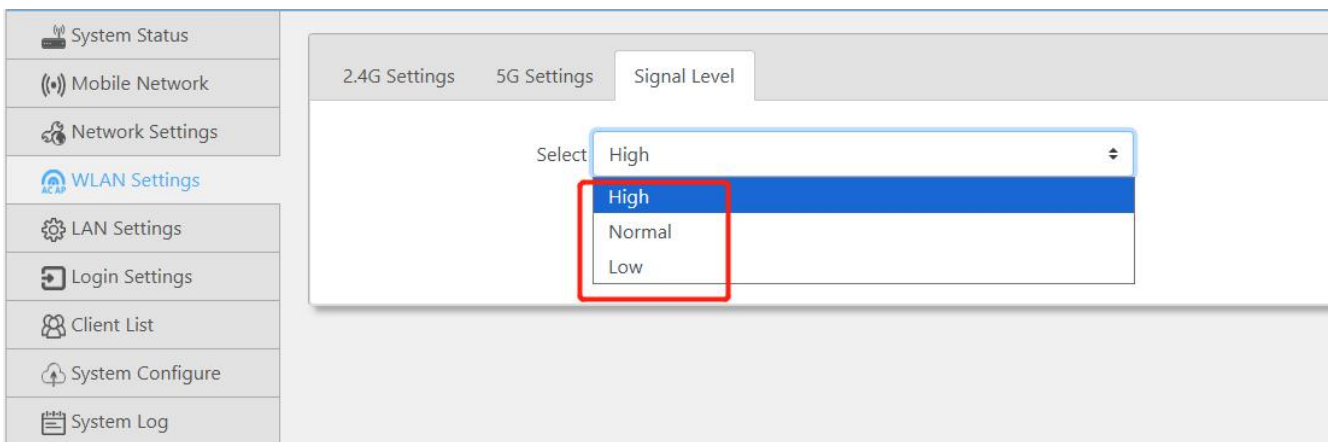


Items	Description	Default value
SSID	Set the SSID of AP device, the maximum length is up to 22 characters.	U200s-XXXX-5G
Password	Length: 8~32, it can be characters and numbers. Users can leave it blank, it will open to all users.	12345678
Wi-Fi enable	Turn on / turn off the Wi-Fi function.	On
Hiding SSID	Turn on / turn off the SSID. After enabling this function, users will not be able to detect the SSID.	Off
AP Isolation	Turn on: STAs connected to this AP cannot access each other. Turn off: STAs connected to this AP can access each other.	Off

Country	CN/US	CN
Channel	Select different countries, corresponding to different channel information.	auto
IEEE 802.11	802.11ax/ac/ (n/a) /a	802.11ax
HT Mode	20M/40M/80M/160M	160M
WPA3 Encryption	Enable WPA3 enhanced encryption protocol.	Not checked
80211r	Turn on / turn off 802.11r protocol.	Not checked

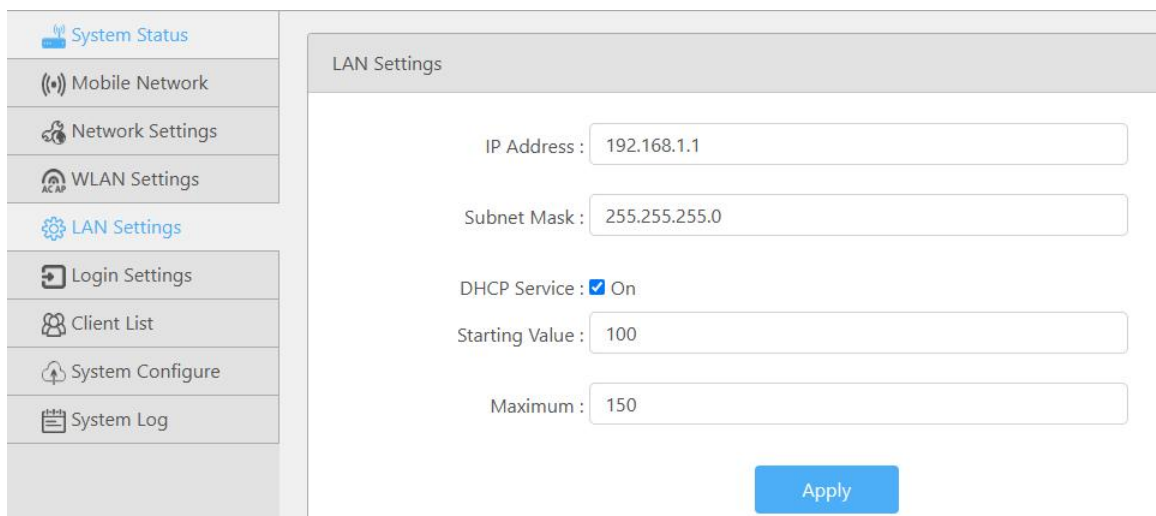
3.4.3. Signal selecting

Users can choose (High)/(Normal)/(Low) signal strength based on requirements.



3.5. LAN network settings

This function block is used to set the LAN IP address of the U200 CPE, with the setting options as shown in the following diagram, and the configuration instructions as in Table 3.



Items	Description	Default value
IP address	The LAN IP of U200.	192.168.1.1
Subnet Mask	Subnet mask of U200's LAN port.	255.255.255.0

DHCP service	After enabling DHCP, the U200 can assign IP addresses to terminal devices. The IP addresses start from the "initial value" and can be allocated up to the "maximum number" set. Only available in ROUTER mode	On
--------------	---	----

3.6. Login settings

This function is used to change the login password of logging web page. The password length is up to 15. The username is admin, and can't be changed. The USR Cloud is on by default.

Login Settings

User Name :

Old Password :

New Password :

USR Cloud : On
USR Cloud implement remote management, add this Device Information

Note : Change password in this page. Password can not be empty, and the maximum password length is 15.

[Apply](#)

3.7. Client list

Client list has 3 submenus: DHCP client, WiFi client, DHCP static, and black/white list.

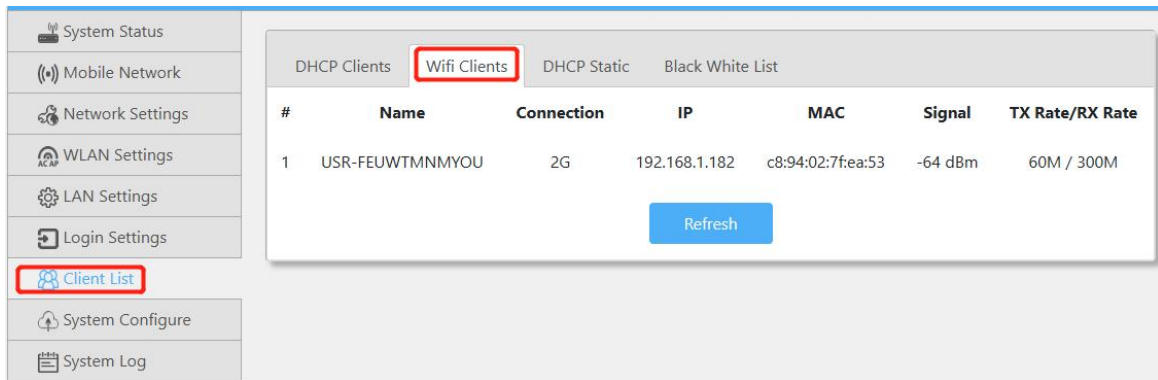
DHCP client: Clicking on "refresh" button will display the information of network terminal devices that have obtained IP addresses through the router's DHCP service, as shown in the following figure.

The screenshot shows a web interface with a sidebar on the left and a main content area. The sidebar contains menu items: System Status, Mobile Network, Network Settings, WLAN Settings, LAN Settings, Login Settings, Client List (highlighted with a red box), System Configure, and System Log. The main content area has tabs for DHCP Clients (highlighted with a red box), Wifi Clients, DHCP Static, and Black White List. Below the tabs is a table with the following data:

#	Name	Connection	IP	MAC
1	USR-FEUWTMNMYOU	2G	192.168.1.182	c8:94:02:7f:ea:53
2	*	eth	192.168.1.136	00:0e:c6:72:70:e0

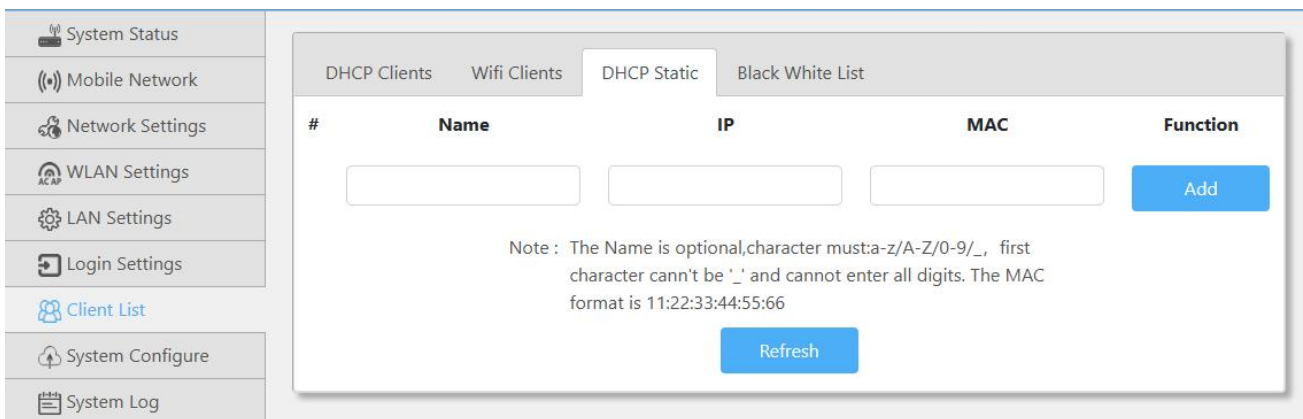
Below the table is a blue "Refresh" button.

Wireless clients: It displays the clients connected to the AP device via wireless. Click "Refresh" to update the latest client list.



IP Binding: Enter the IP address and MAC address of the device that needs to be bound, then click on <Add>.

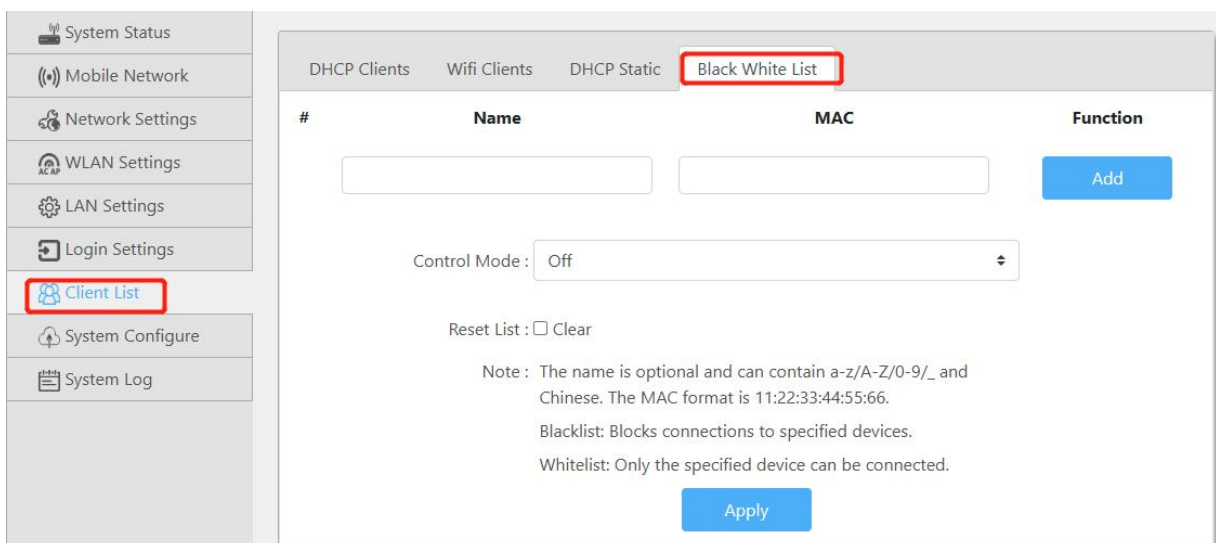
Click on <Refresh> to view the devices that have already been bound.



Black/white list:

Black List: when in blacklist control mode, the CPE refused the WiFi/wireless connection from the device in black list.

White list: when in whitelist control mode, the CPE just allow the WiFi/wireless connection from the device in white list.



Items	Description	Default value
Name	Users can define the name by themselves.	None

MAC	The MAC address that need be controlled.	None
Control mode	Whitelist: Enable whitelist function. Blacklist: Enable blacklist function. Off: Don't enable blacklist or whitelist function.	Off
Reset list	Clear the device in whitelist or blacklist.	

3.8. System configuration

This functional block includes five submenus: [Firmware Upgrade], [Backup/Restore Configuration], [Date/Time], [Restart], [Restore Factory Settings] and [VLAN].

3.8.1. Firmware upgrading

Select firmware file-> Click upgrade, U200 series device support upgrading firmware in local or online.

Upgrade firmware in local: choose the firmware file and click update to upgrade the new firmware.

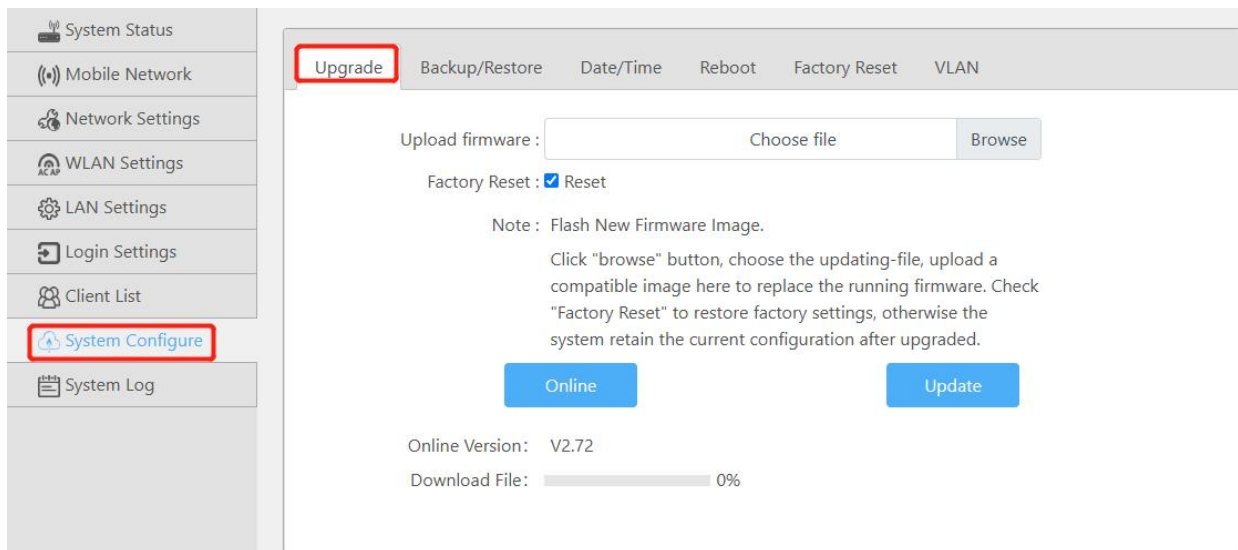


Figure 9. Update in local

Upgrading firmware online.

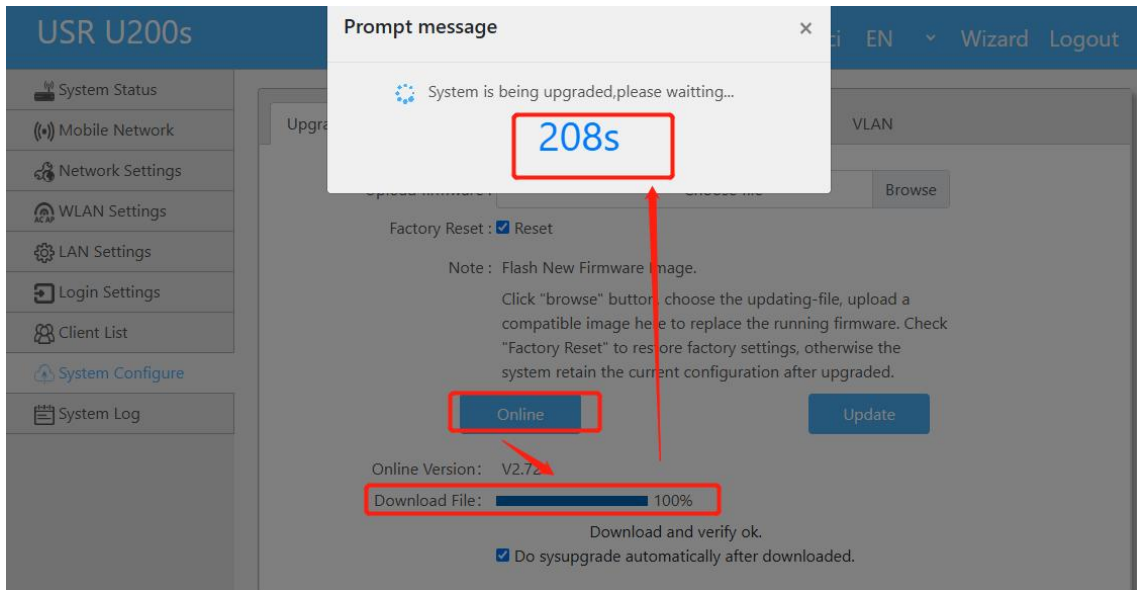
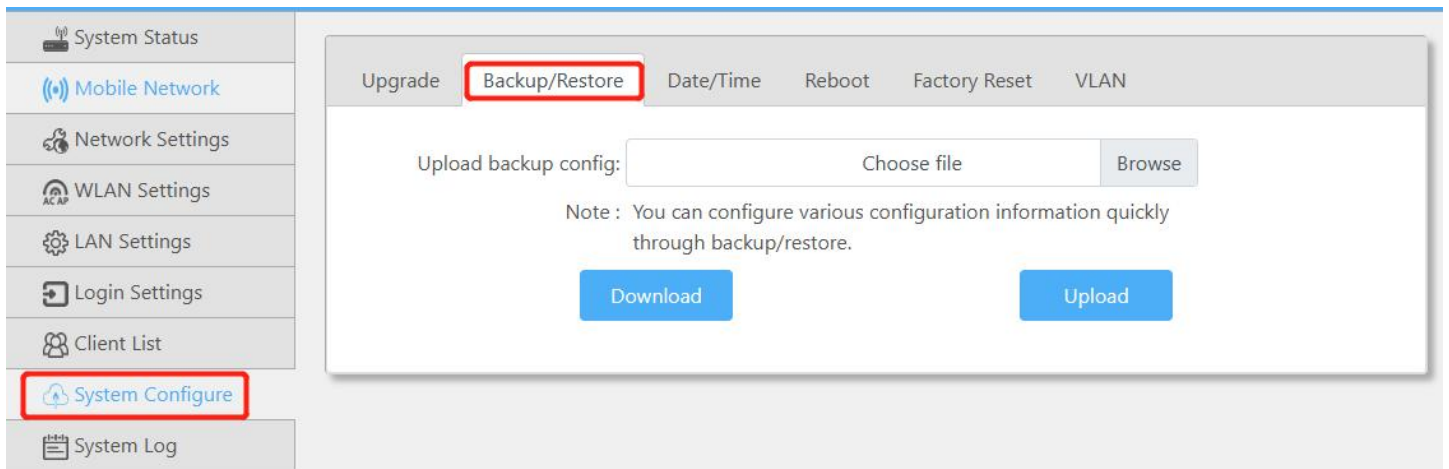


Figure 10. Update online

3.8.2. Backup/Restore configuration

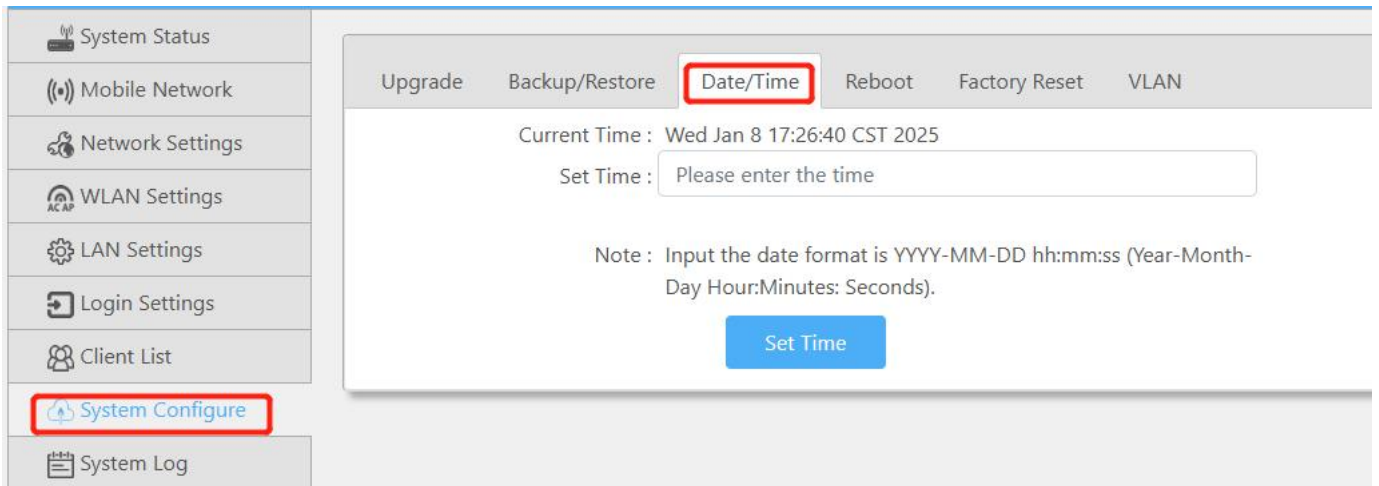
This function is used to back up the current parameters of U200 device, and it also allows the import of previously saved parameters, making it convenient for users to configure settings.



Items	Description
Backup parameters	Click the <Backup Configuration> button to save the current settings to a file.
Import backup file	Click <Browse> to select the configuration file. Click <Import Configuration>, and in the prompt box, click <OK> to upload the settings to U200 and restart.

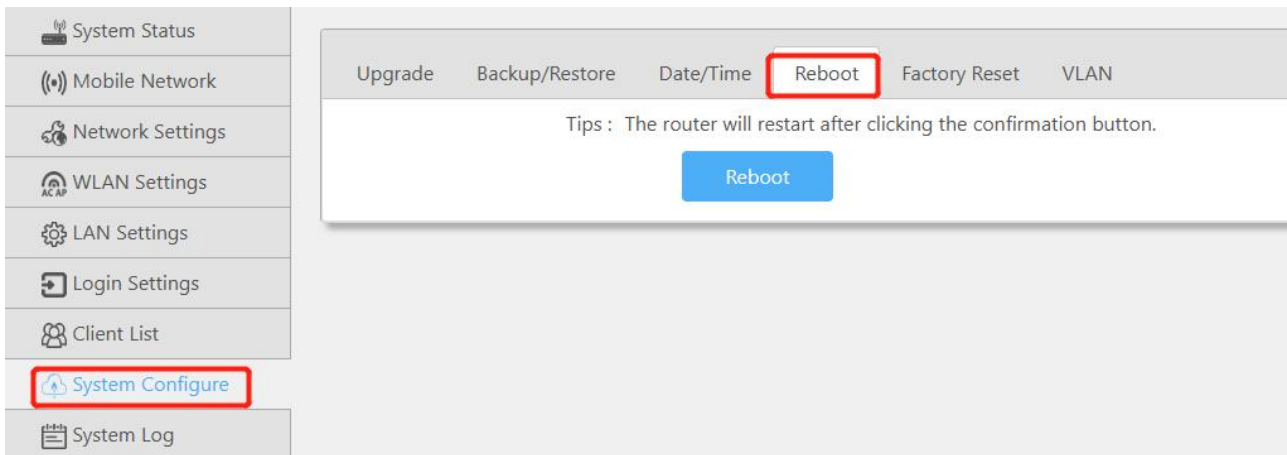
3.8.3. Time & Date

Set the time and date of the U200.



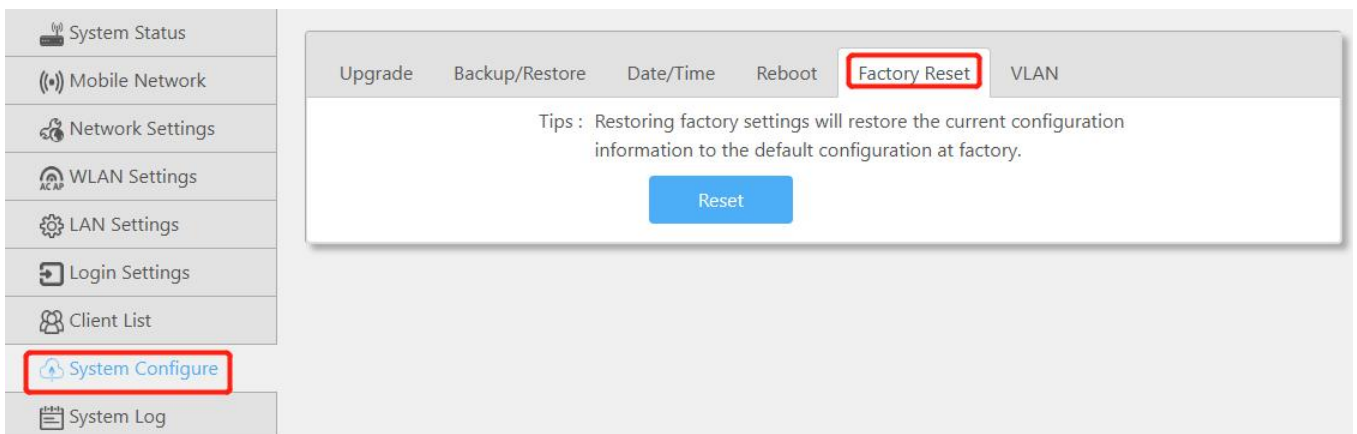
3.8.4. Reboot

Reboot the CPE device.



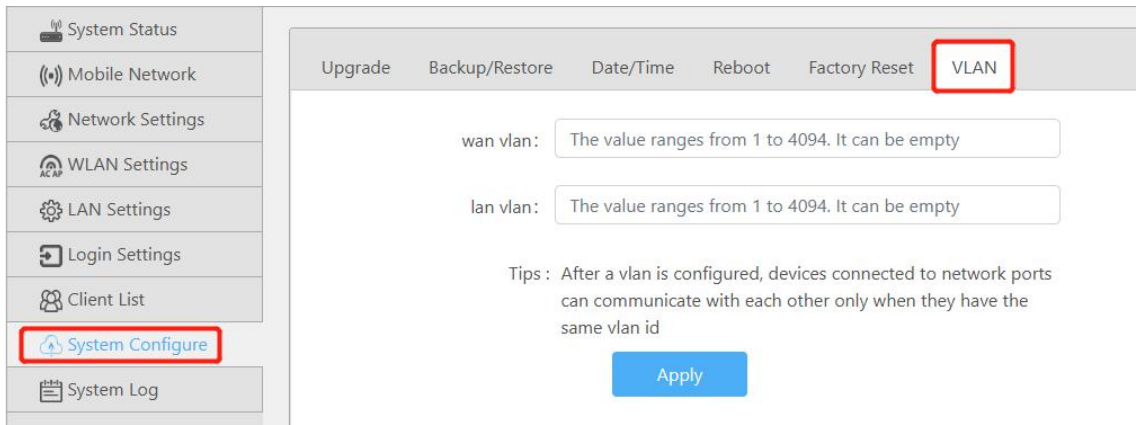
3.8.5. Reset to factory setting

Reset to factory settings.



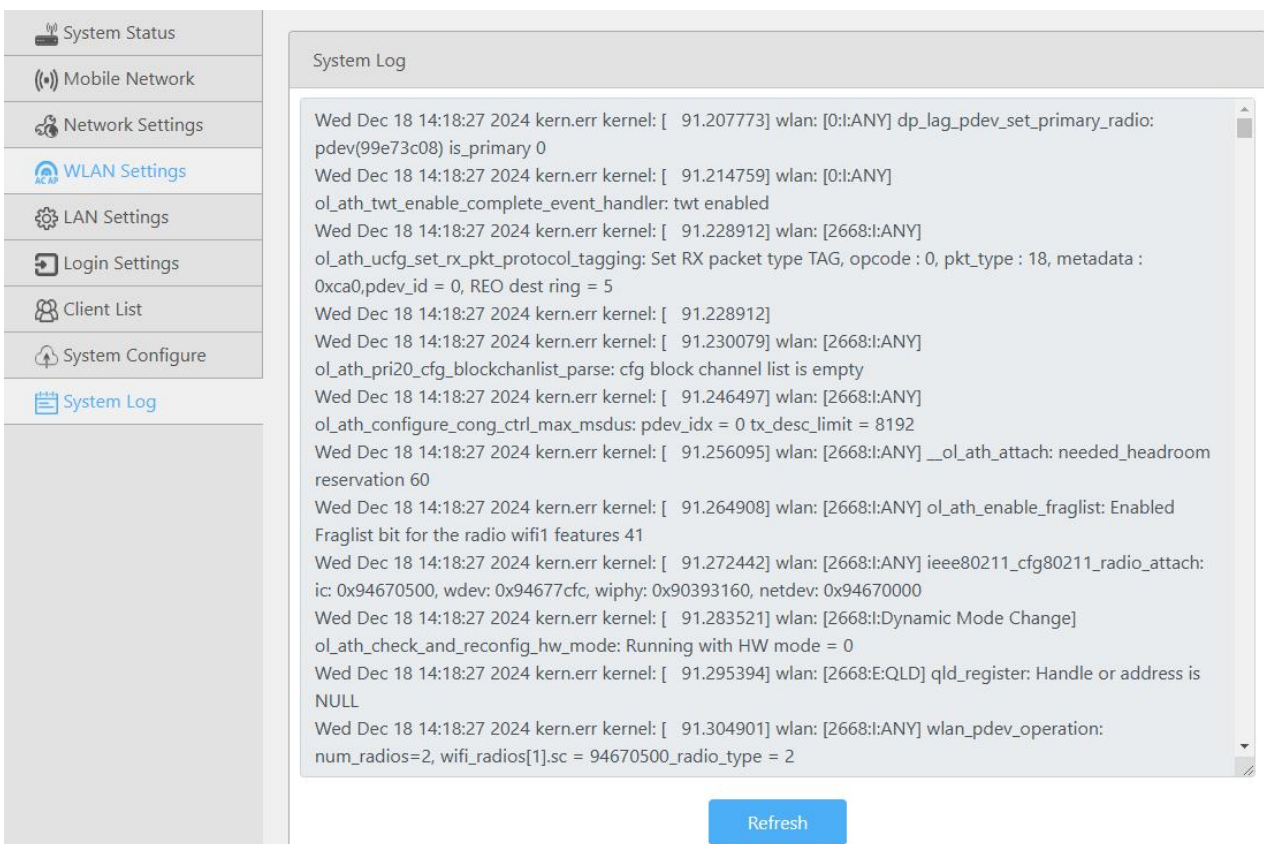
3.8.6. VLAN

When the VLAN ID is set, only packets with the same VLAN ID are allowed to pass through the CPE device. This function need used with other VLAN device such as Ethernet switch.



3.9. System log

To check the system log.



4. PUSR cloud management

U200 series device support centralized management such as configured the CPE, check the operation status of the CPE via PUSR cloud.

Login website: mp.usriot.com

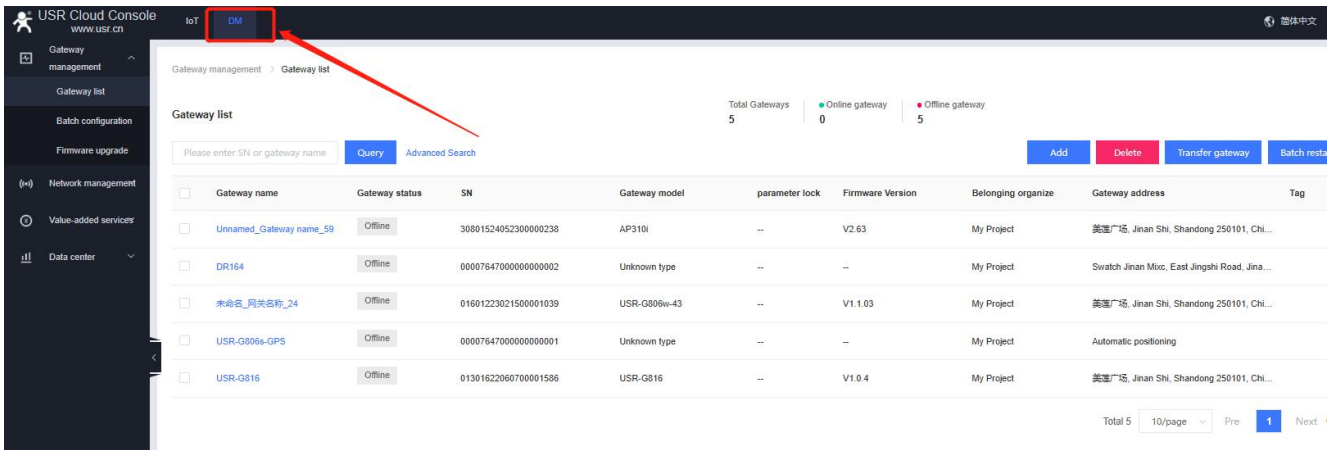


Figure 11. Click DM

4.1. Add U200 device in DM platform

1> Add U200 using SN and MAC. Users can get the SN and MAC on the back label or on the GUI of the U200.

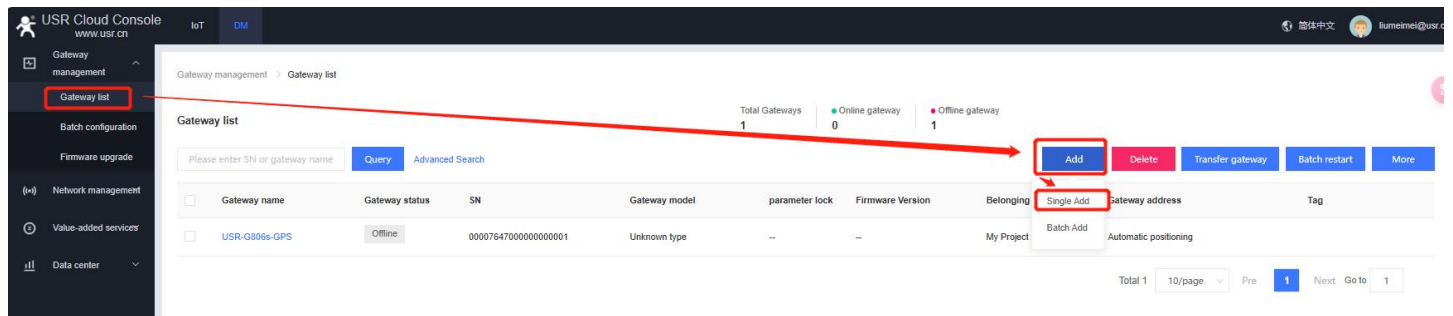


Figure 12. Add device

Add Gateway

Gateway name: U200S

Belonging organize: My Project

SN: 308023241211 SN does not support, click here

MAC / IMEI: d4ad202e...

Positioning method: Manual positioning Automatic positioning

Gateway address: 250101, Lbia Qu, Jinan Shi, Shandong, China [Map](#)

Tag: [Add tags](#)

Network monitoring:

USR data transparency:

[Save](#)

Figure 13. Add U200S

2> Add CPE device successfully.

Note: The CPE must get access to the Internet to get online on the DM platform.

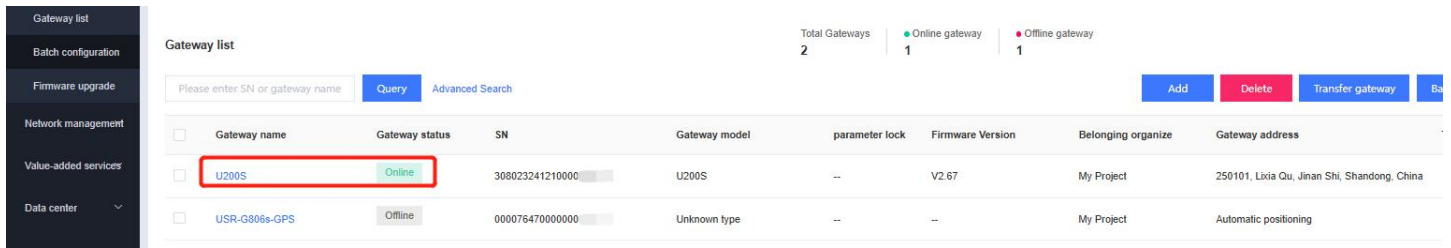


Figure 14. Get online

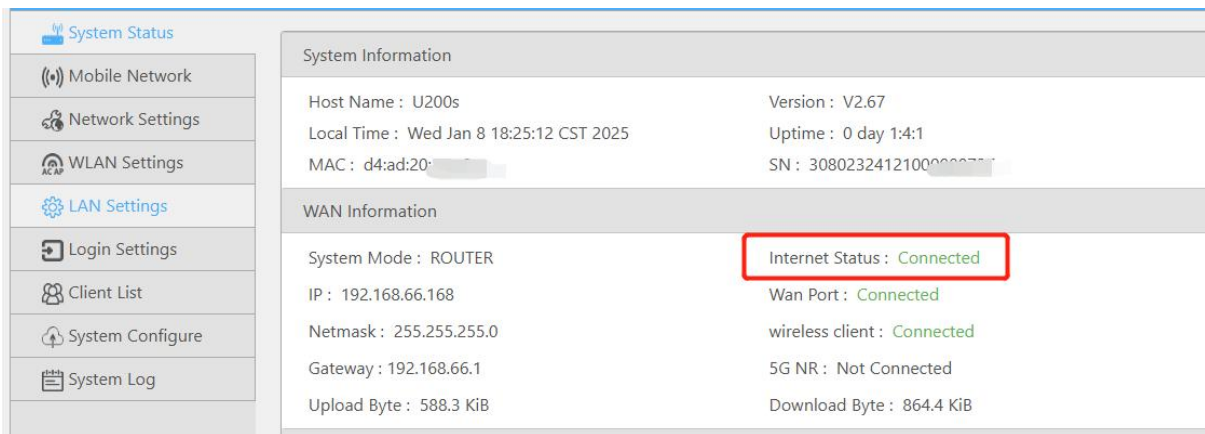
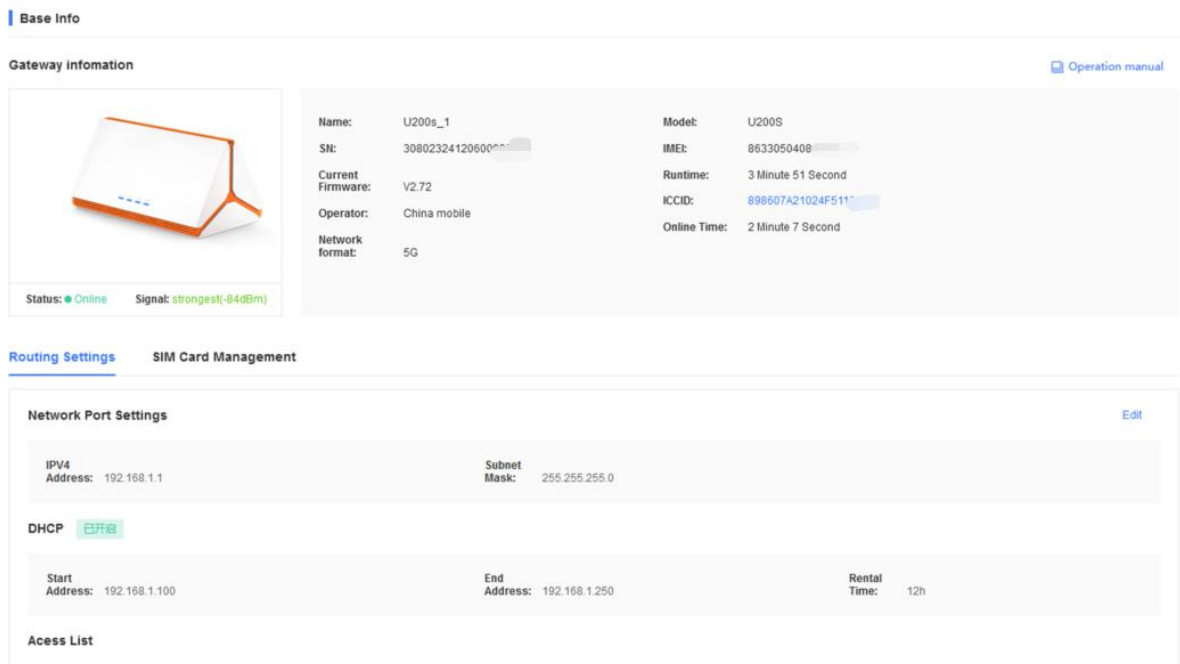


Figure 15. Internet status of CPE

4.2. Check the details of the CPE

Click the gateway name, and navigate to the details page.



Get access to the configuration page

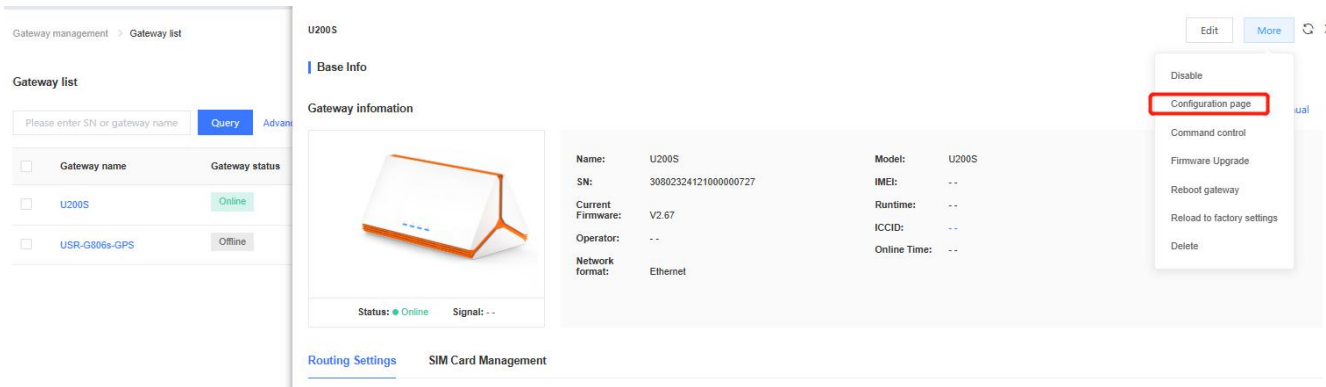


Figure 16. Access to configuration page

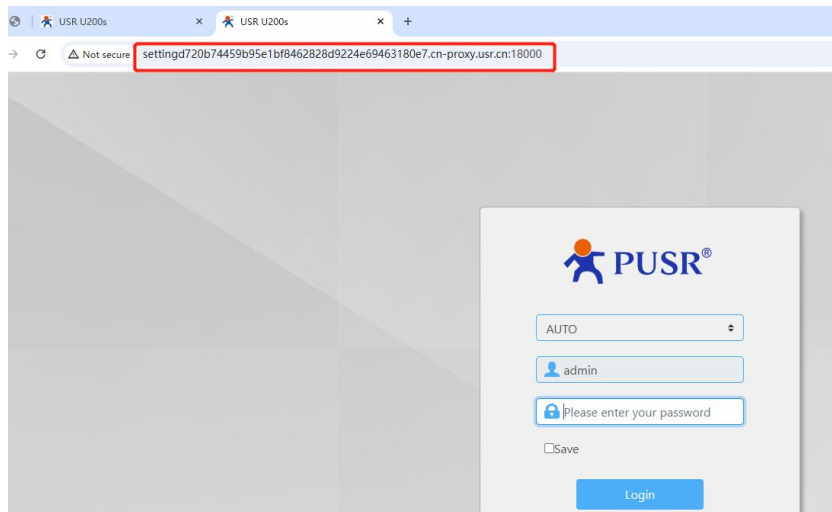
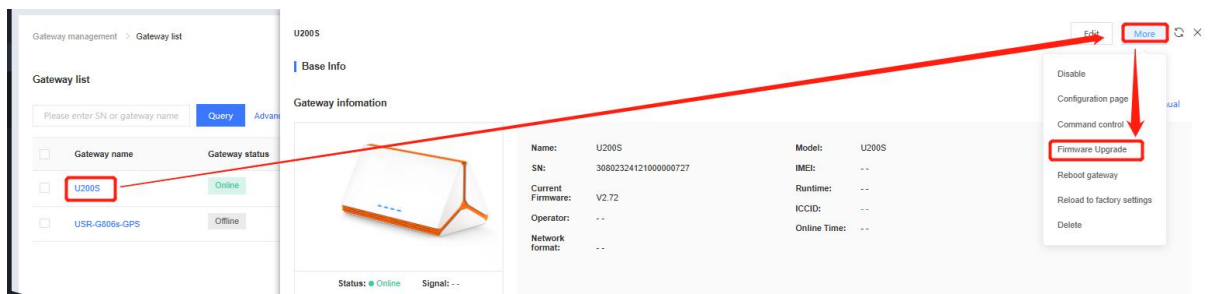
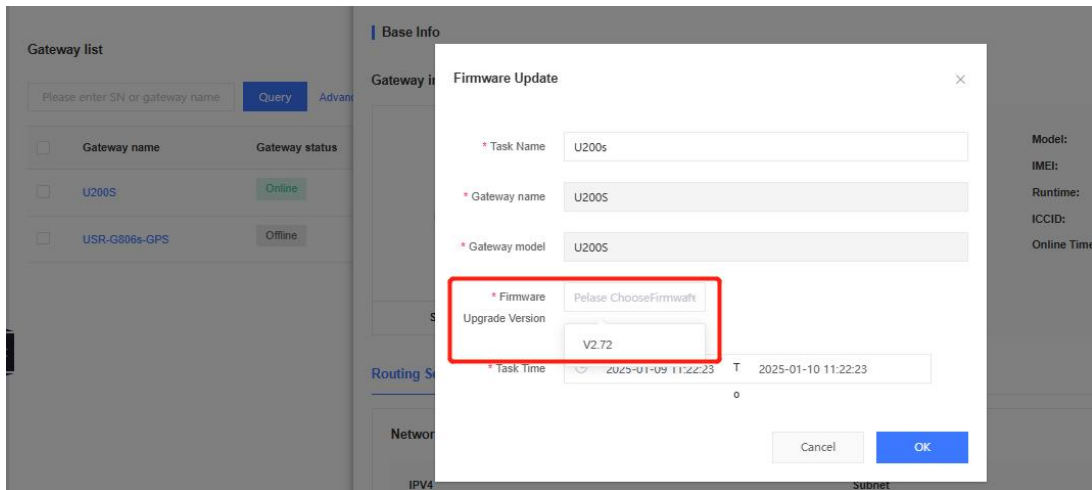


Figure 17. Login page

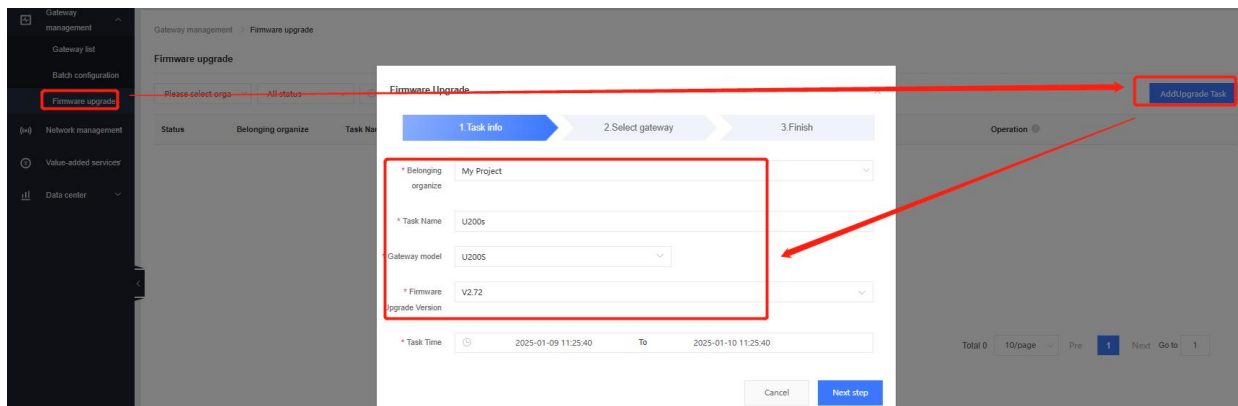
4.3. Firmware upgrading via PUSR Cloud

U200s supports upgrading firmware via PUSR cloud remotely.





Users can also upgrade firmware in the following picture.



5. Warranty

6. Contact Us

Jinan USR IOT Technology Limited

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8. Revision History

Version	Date	Author	Description
V1.0.0	2023-11-17		Established
V1.0.1	2024-01-29	May Liu	Translation



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