

Wi-Fi6 AX3000

AP310i Series

User Manual



V2.0

Be Honest & Do Best

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Content

1. Introduction	- 4 -
1.1. Overview.....	- 4 -
1.2. Features.....	- 4 -
1.3. Specification	- 5 -
1.4. Button & Indicator	- 7 -
1.5. Dimension	- 7 -
2. Get Started	- 8 -
2.1. Hardware interface introduction.....	- 8 -
2.2. Quick test.....	- 8 -
2.2.1. Login setting page	- 8 -
2.2.2. Brief introduce of the webpage	- 9 -
3. Configuration and parameter details	- 10 -
3.1. System status.....	- 10 -
3.2. Mobile network	- 12 -
3.3. Internet accessing settings	- 12 -
3.3.1. Mode selecting.....	- 12 -
3.3.2. Ethernet port setting	- 13 -
3.3.3. WAN settings	- 13 -
3.3.4. Wireless repeater	- 13 -
3.3.5. 5G AT	- 14 -
3.3.6. 5G NR	- 14 -
3.4. WLAN settings.....	- 15 -
3.4.1. 2.4G settings.....	- 16 -
3.4.2. 5G settings.....	- 17 -
3.4.3. Signal selecting	- 17 -
3.5. LAN network settings.....	- 18 -
3.6. Login settings	- 18 -
3.7. Client list.....	- 19 -
3.8. Software upgrading	- 20 -
3.8.1. Firmware upgrading	- 20 -
3.8.2. Backup	- 21 -

3.8.3. Time & Date	- 21 -
3.8.4. Reboot.....	- 22 -
3.8.5. Reset to factory setting.....	- 22 -
3.9. System log	- 22 -
4. Warranty.....	- 23 -
5. Contact Us.....	- 23 -
6. Disclaimer.....	- 24 -
7. Revision History.....	- 24 -

1. Introduction

1.1. Overview

AP/NR310i is a ceiling-mounted AX3000 Wi-Fi 6 dual-band AP, with the option for 5G NR. The product is based on a powerful Qualcomm wireless core, with a strong power of 25dBm and external antennas to achieve greater coverage. It supports IEEE 802.11a/b/g/n/ac/ax protocols, with a maximum Wi-Fi access rate of up to 3000Mbps. It comes with 512MB of RAM (supporting customizable options from 256MB to 1GB).

NR310i is equipped with a full-band 5G Sub-6GHz M.2 module designed for IoT/eMBB applications. It adopts 3GPP Release 16 technology and automatically adapts to 5G NR NSA and SA networking. It is backward compatible with 4G/3G and can provide backup for wired broadband and cellular broadband networks. It can also provide network access for Wi-Fi users in scenarios without wired broadband access through 5G broadband.

The excellent performance and stability of the product come not only from the high-end Qualcomm core platform but also from the expertise of our professional R&D team in hardware and software design. The product can be widely used in industries and scenarios such as enterprise offices, education and training, smart healthcare, apartment dormitories, exhibition halls, and conference rooms.

1.2. Features

- AX3000 Wi-Fi 6, M.2 5G SA/NSA Sub 6GHz Router(NR310i).
- 5G NR Router employs 3GPP Rel. 16 technology, it supports both 5G NSA and SA modes, covers all the main stream carriers worldwide.
- Supports the Wi-Fi 6(802.11ax) standard, 2.4GHz and 5GHz dual-frequency UL/DL MU-MIMO, enabling AP to send data to multiple terminals at the same time.
- Fat and Fit AP in one, Fit AP mode managed uniformly by the wireless controller (AC), Fat AP mode independent web page management.
- 2.5G Ethernet port. Using 2.5Gbps Ethernet port, compared with Gigabit port, the speed is greatly improved.
- Set WAN/LAN port as WAN to enable NR310i use the landline internet from WAN, and 4G/5G connection works as a backup to provide a sustained and reliable internet connection for you.
- Automated failover/failback back up among Ethernet, Cellular and Wi-Fi.
- Multiple SSID.

1.3. Specification

Table 1. Parameters table

Mobile(Optional)	
5G NR Module	Qualcomm Snapdragon X62
Frequency Bands	5G NR SA: 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
	5G NR 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
	LAA:B46
	WCDMA:B1/B2/B4/B5/B8/B19
Data Transmission Rates	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)
	5G NSA mmWave: Max. 4.0 Gbps (DL)/Max. 1.4 Gbps (UL)
	LTE-FDD: Max. 1.6 Gbps (DL)/Max. 200 Mbps (UL)
	HSPA+ : Max. 42Mbps (DL)/Max. 5.76Mbps (UL)
Antennas	Internal high gain antenna*4
SIM Card	1 x Mini SIM(2FF), Push-push type
Wi-Fi Interface	
Wi-Fi Chipsets	2.4GHz: Qualcomm IPQ5018 (Dual-core ARM Cortex-A53@1GHz)
	5GHz: Qualcomm QCN6102
Memory	Flash:SPI NAND 128MB + SPI NOR 8MB
	RAM:512MB DDR3L SDRAM
Wi-Fi Standards	2.4 GHz: IEEE802.11b/g/n/ax

	5.8 GHz: IEEE 802.11a/n/ac/ax
Frequency	2.4 GHz(2.412GHz - 2.484GHz)
	5 GHz(5.15GHz ~ 5.85GHz)
Antennas	Internal high gain antenna*4
Wi-Fi Security	Open, WPA, WPA2PSK TKIPAES,WAP2 EAP.WPA3
Operating Modes	Wireless router mode
	Access point mode
	Repeater mode
End Users	256
Wi-Fi Data Rates	802.11a : up to 54 Mbps
	802.11b : up to 11 Mbps
	802.11g : up to 54 Mbps
	WiFi 4 (802.11n) : up to 300 Mbps
	WiFi 5 (802.11ac) (1024QAM) : up to 1733 Mbps
	WiFi 6 (802.11ax) (2.4GHz) : up to 574 Mbps
	WiFi 6 (802.11ax) (5GHz) : up to 2402 Mbps+4804Mbps
TX Power	24dBm
Ethernet Interface	
WAN	1 x 2.5Gigabit WAN RJ45, 10/100/1000 Mbps, auto MDI/MDIX
LAN	1 x 1Gigabit LAN RJ45, 10/100/1000 Mbps, auto MDI/MDIX
Mode	Full or Half Duplex (Auto-Sensing)
Power Supply	
Power Input	48V PoE input over WAN
Power Consumption	15W
Standard	IEEE 802.3at standard
Physical Characteristics	
Housing	Plastic
Dimension	190*190*42mm(L*W*H)
Installation	Ceiling mounting
Operating Temperature	0°C ~ +40°C

Storage Temperature	-40°C ~ +70°C
Ingress Protection	IP30
Weight	500g
Software	
Network Protocols	IPv4/IPv6,HTTP,DHCP,NAT,PPPoE
Network Security	Access Control, DMZ, Port Forwarding, SPI firewall, Filtering (IP & MAC & Domain),IP & MAC Binding
VPN Client	IPSec Client, PPTP VPN Client, L2TP VPN Client
Others	
Button	Press and hold 5s to restore factory Settings
Indicators LED	WAN,LAN, Internet

1.4. Button & Indicator

Item	Description
WPS button	Holding for 5s to reset to factory settings.
Indicator	Blue: Can access Internet successfully. Red: Can't access Internet successfully.

1.5. Dimension

Unit: mm

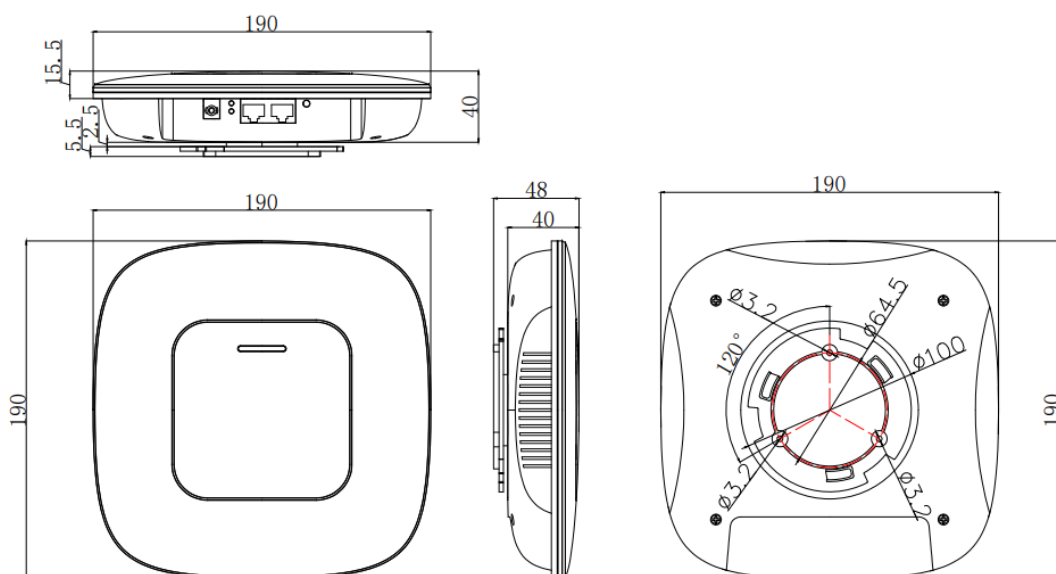


Figure 1. Dimension of AP310i

2. Get Started

2.1. Hardware interface introduction



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

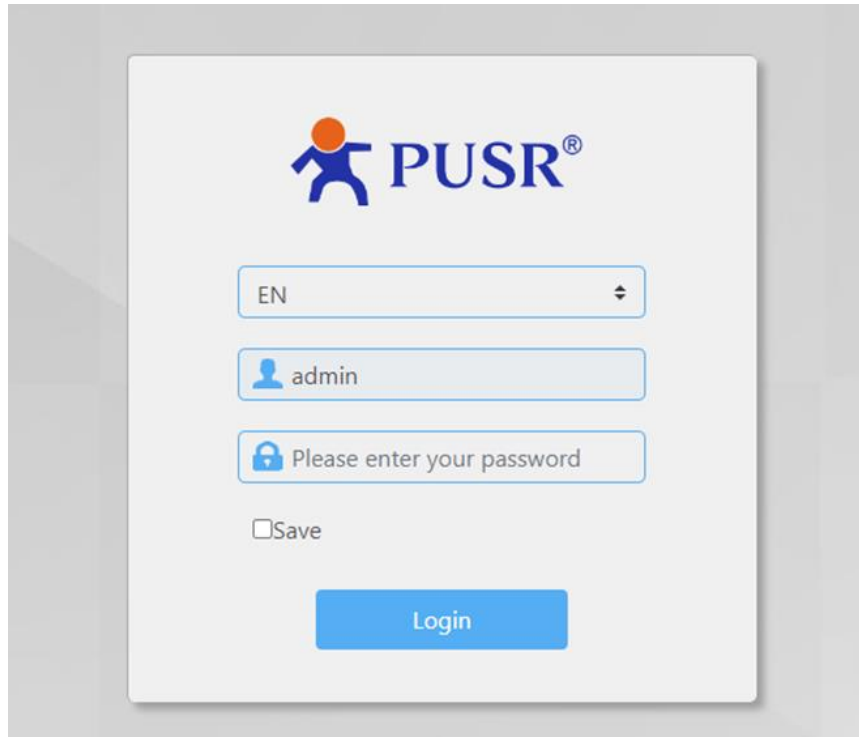
正在 Ping 192.168.1.1 具有 32 字节的数据:
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64
来自 192.168.1.1 的回复: 字节=32 时间=1ms TTL=64

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 AP 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.

USR AP310i

USR Cloud Luci EN Wizard Logout

System Status

- Mobile Network
- Network Settings
- WLAN Settings
- LAN Settings
- Login Settings
- Client List
- Upgrade
- System Log

System Information

Host Name : AP310i	Version : V2.09-11-geecee5d
Local Time : Sat Jan 27 17:35:53 CST 2024	Uptime : 0 day 2:32:48
MAC : d4:ad:20:f9:4a:94	SN : 01601724011602571901

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
------------------	-------------------

WLAN Information

2.4G	5G
SSID :USR-4A93-2.4G	SSID :USR-4A93-5G
Passwd : www.pusr.com	Passwd : www.pusr.com
Channel :11	Channel :40
Rate : 286.8 Mb/s	Rate : 2.4019 Gb/s

Figure 4. Overview of function

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.

System Status Mobile Network Network Settings WLAN Settings LAN Settings Login Settings Client List Upgrade System Log	System Information Host Name : AP310i Local Time : Tue Jan 30 19:30:19 CST 2024 MAC : d4:ad:20:f9:4a:94 Version : V2.09-11-geecee5d Uptime : 0 day 0:3:4 SN : 01601724011602571901 WAN Information System Mode : ROUTER IP : 192.168.5.228 Netmask : 255.255.255.0 Gateway : 192.168.5.1 Upload Byte : 29.0 KiB Internet Status : Connected Wan Port : Not Connected wireless client : Connected 5G NR : Not Connected Download Byte : 43.5 KiB LAN Information IP : 192.168.1.1 DHCP Service : On WLAN Information 2.4G SSID :USR-4A93-2.4G Passwd : www.pusr.com Channel :6 Rate : 286.8 Mb/s 5G SSID :USR-4A93-5G Passwd : www.pusr.com Channel :36 Rate : 2.4019 Gb/s
---	---

Figure 5. Router mode

System Status Mobile Network Network Settings WLAN Settings LAN Settings Login Settings Client List Upgrade System Log	System Information Host Name : AP310i Local Time : Tue Jan 30 20:25:04 CST 2024 MAC : d4:ad:20:f9:4a:94 Version : V2.09-11-geecee5d Uptime : 0 天 0:18:4 SN : 01601724011602571901 WAN Information System Mode : AP IP : 192.168.1.235 Netmask : 255.255.255.0 Gateway : 192.168.1.1 Upload Byte : 1.7 MiB Internet Status : Connected Wan Port : Not Connected wireless client : Not Connected 5G NR : Not Connected Download Byte : 59.4 MiB LAN Information IP : 192.168.2.1 DHCP Service : Off WLAN Information 2.4G SSID :USR-4A93-2.4G Passwd : www.pusr.com Channel :11 Rate : 286.8 Mb/s 5G SSID :USR-4A93-5G Passwd : www.pusr.com Channel :36 Rate : 2.4019 Gb/s
---	--

Figure 6. AP mode

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.

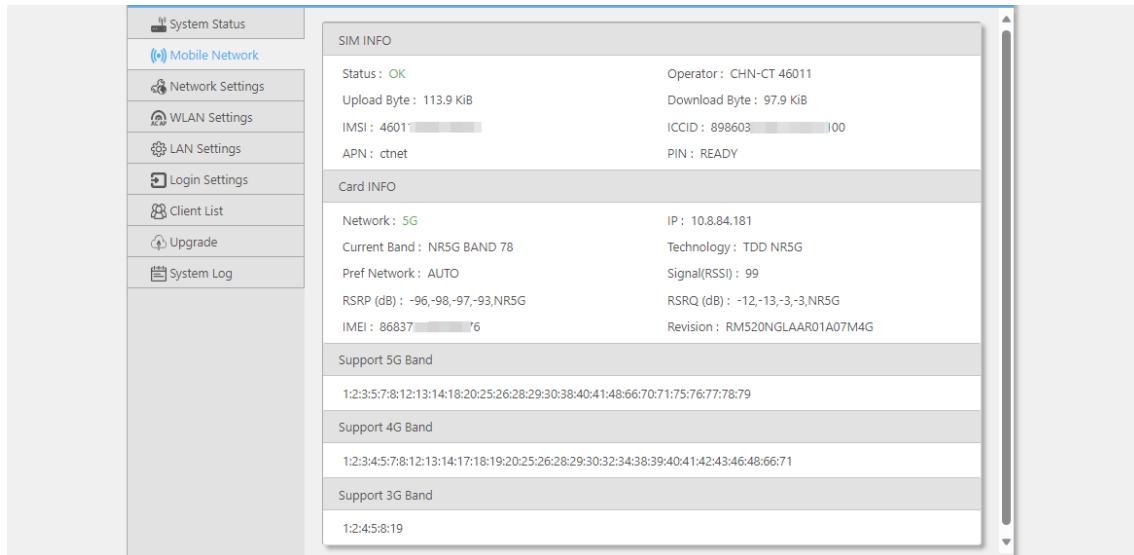


Figure 7. Mobile network

3.3. Internet accessing settings

Users can set the router: Mode selecting, Ethernet settings, WAN settings, Wireless repeater.

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.

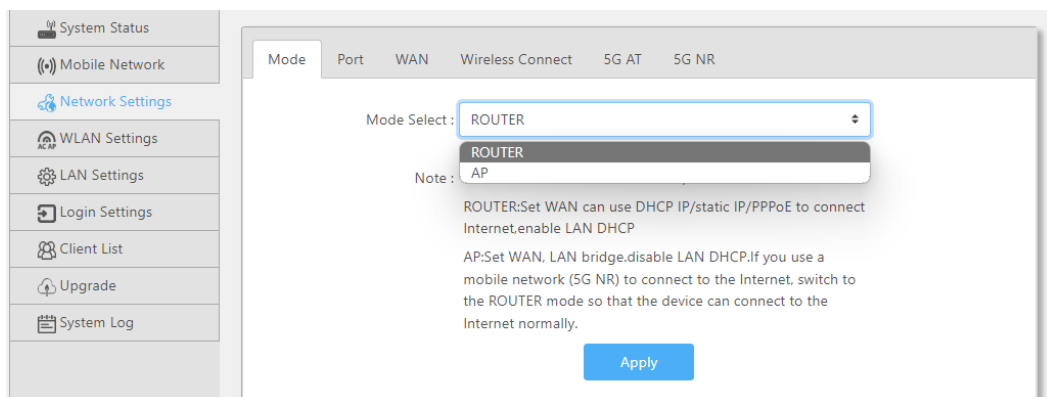


Figure 8. Mode selecting

3.3.2. Ethernet port setting

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

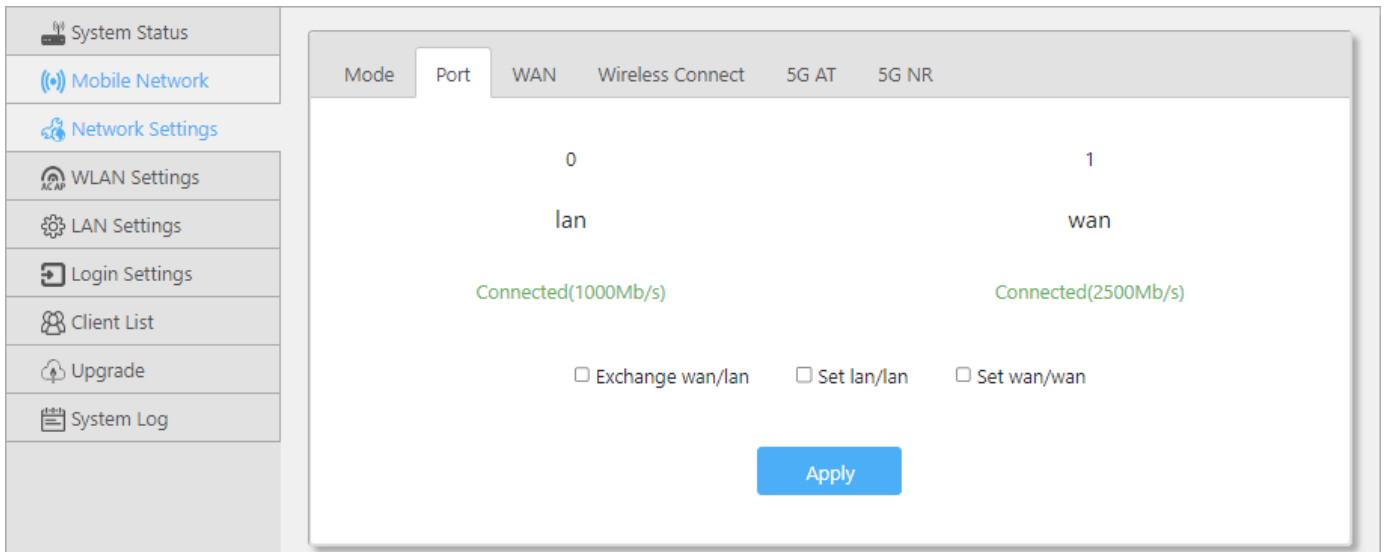


Figure 9. Ethernet port settings

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.

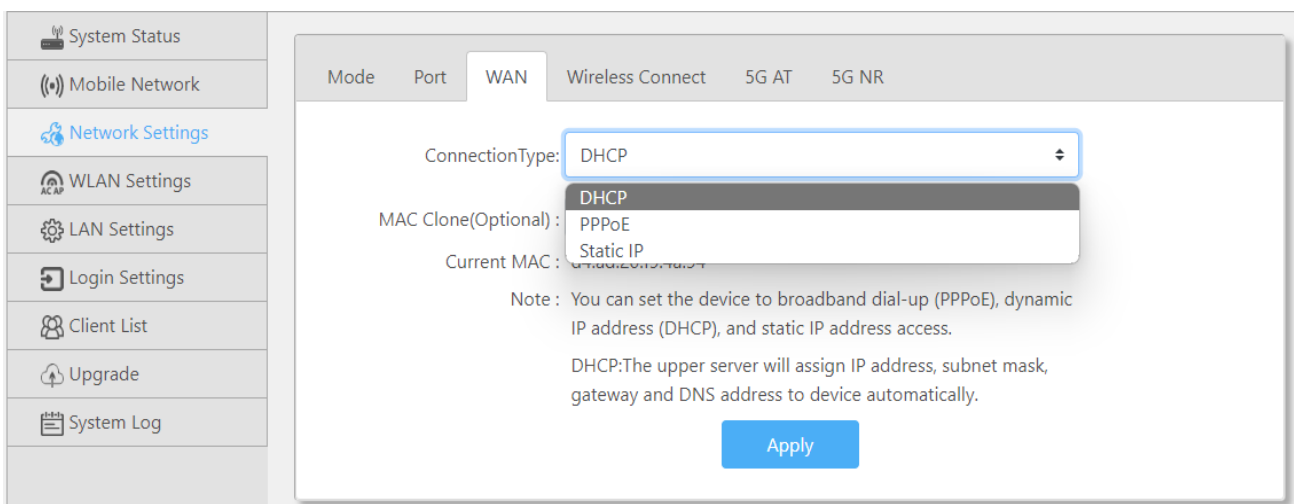


Figure 10. WAN settings

3.3.4. Wireless repeater

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" .

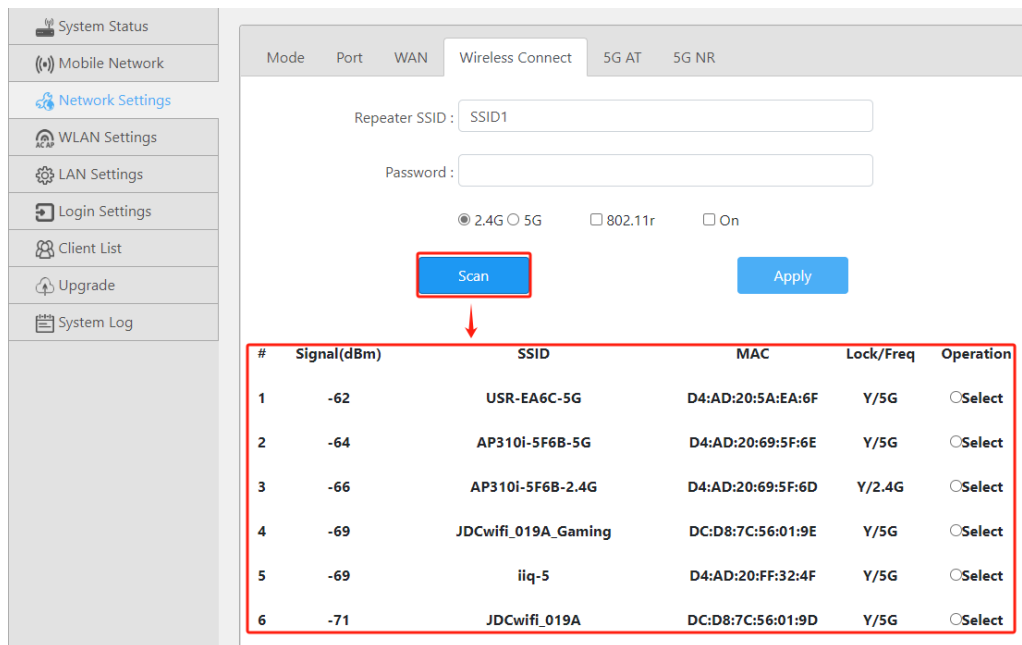


Figure 11. Wireless repeater

3.3.5. 5G AT

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

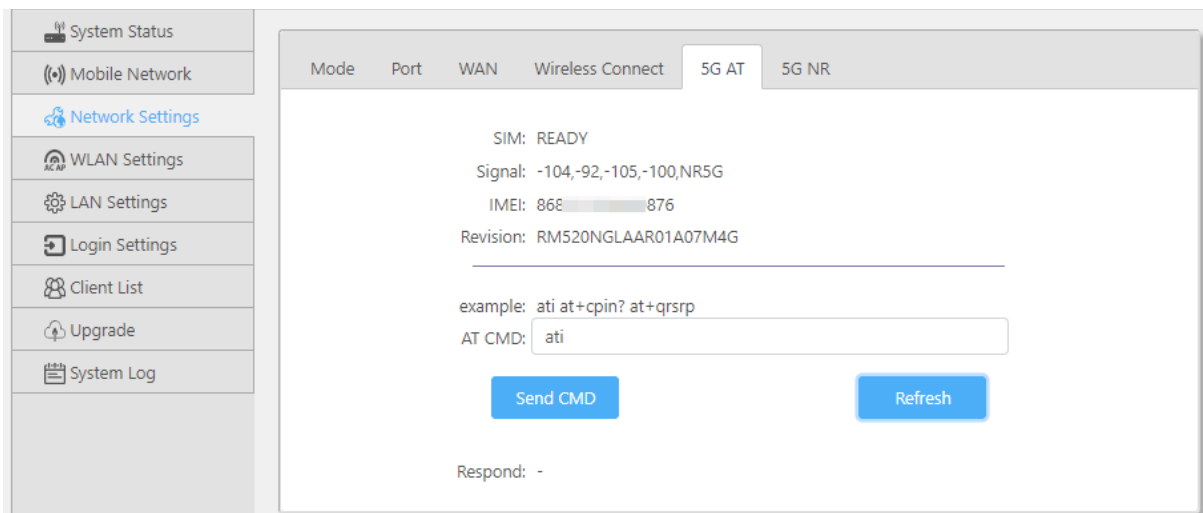


Figure 12. 5G AT

3.3.6. 5G NR

Settings of 5G module.

Figure 13. 5G NR

Table 2.

Items	Description
5G enable	Turn on/Turn off 5G NR.
Station selecting	Select the right base station.
APN	Enter the APN of the SIM card.
Pin code	If a PIN code has been set on the card, please enter the correct PIN code.

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

The screenshot displays the 'USR AP310i' web interface. The top navigation bar includes 'USR Cloud', 'Luci', 'EN', 'Wizard', and 'Logout'. The left sidebar lists various system settings. The '2.4G Settings' tab is active, showing configuration options for the 2.4GHz Wi-Fi network. The SSID is set to 'USR-4A93-2.4G' and the password is 'www.pusr.com'. The 'Enable' option is set to 'On'. Other settings like 'Hide SSID', 'AP Isolation', 'Country', 'Channel', 'Proto', and 'HT Mode' are also visible, along with checkboxes for 'WPA3: Strong Encryption' and '80211r'.

Figure 14. 2.4G settings

Table 3.

Items	内容
SSID	Set the SSID of AP device, the maximum length is up to 22 characters.
Password	Length: 8~32, it can be characters and numbers. Users can leave it blank, it will open to all users. Default: www.pusr.com
Wi-Fi enable	Turn on / turn off the Wi-Fi function.
Hiding SSID	Turn on / turn off the SSID. After enabling this function, users will not be able to detect the SSID.
AP Isolation	Turn on: STAs connected to this AP cannot access each other. Turn off: STAs connected to this AP can access each other.
channel	Channel 1~ 13 can be selected, or user can leave it to auto.
IEEE 802.11	802.11ax/n/g/b.
Bandwidth	HT20/HT40.
WPA3 Encryption	Enable WPA3 enhanced encryption protocol.
80211r	Turn on / turn off 802.11r protocol.

3.4.2. 5G settings

The screenshot shows the '5G Settings' tab in the USR AP310i web interface. The left sidebar contains navigation links: System Status, Mobile Network, Network Settings, WLAN Settings (highlighted), LAN Settings, Login Settings, Client List, Upgrade, and System Log. The main content area has three tabs: 2.4G Settings, 5G Settings (active), and Signal Level. The 5G Settings form includes the following fields and options:

- SSID: USR-4A93-5G
- Password: www.pusr.com
- Enable: On
- Hide SSID: Off
- AP Isolation: Off
- Country: CN
- Channel: auto
- Proto: 802.11ax
- HT Mode: Default
- WPA3: ☐ Strong Encryption
- 80211r: ☐
- Apply button

Figure 15. 5G settings

Table 4.

Items	Description
SSID	Set the SSID of AP device, the maximum length is up to 22 characters.
Password	Length: 8~32, it can be characters and numbers. Users can leave it blank, it will open to all users. Default: www.pusr.com
Wi-Fi enable	Turn on / turn off the Wi-Fi function.
Hiding SSID	Turn on / turn off the SSID. After enabling this function, users will not be able to detect the SSID.
AP Isolation	Turn on: STAs connected to this AP cannot access each other. Turn off: STAs connected to this AP can access each other.
channel	Channel 36、40、44、48、52、56、60、64、149、153、157、161、165 can be selected, or user can leave it to auto.
IEEE 802.11	802.11ax/ac/ (n/a) /a
Bandwidth	HT20/HT40/HT80/HT160
WPA3 Encryption	Enable WPA3 enhanced encryption protocol.
80211r	Turn on / turn off 802.11r protocol.

3.4.3. Signal selecting

Users can choose (Energy Saving)/(Normal)/(Penetration) signal strength based on requirements.

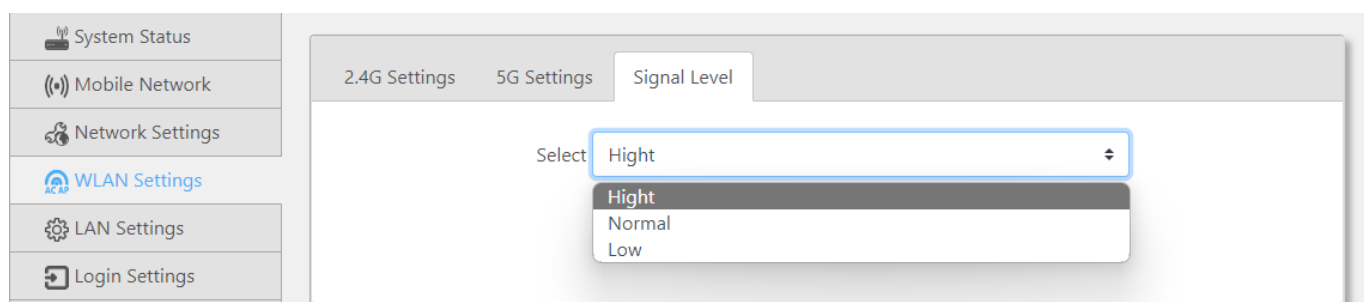


Figure 16. Signal level

3.5. LAN network settings

This function block is used to set the LAN IP address of the AC200/1000, with the setting options as shown in the following diagram, and the configuration instructions as in Table 3.

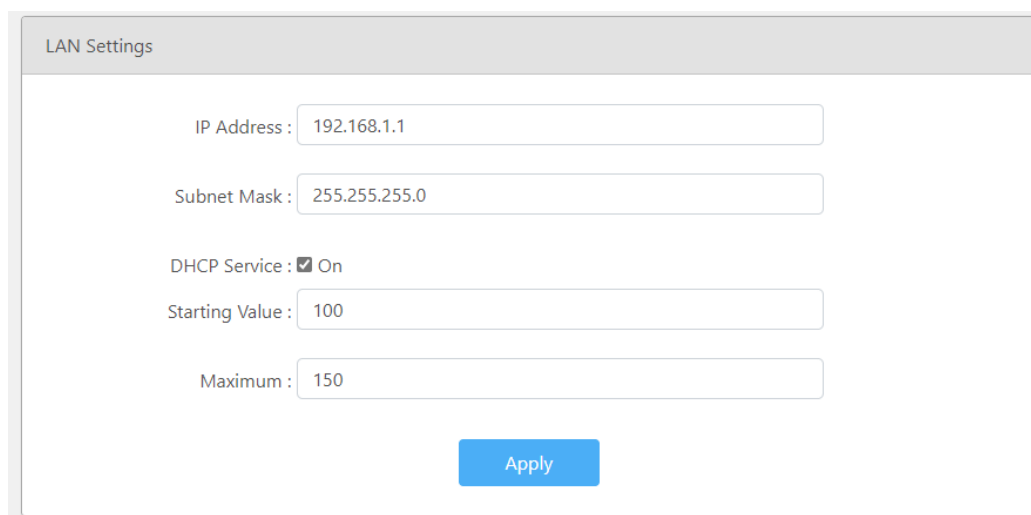


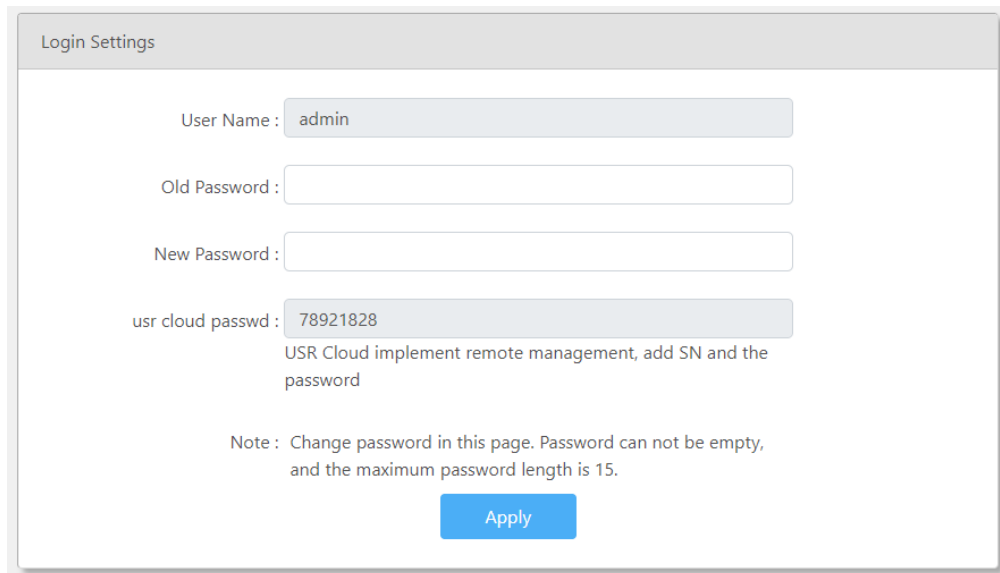
Figure 17. LAN settings

Table 5.

Items	Description
IP address	The LAN IP of the AC200/1000. The default is 192.168.10.1
Subnet Mask	Subnet Mask of AC200/1000's LAN port.
DHCP service	After enabling DHCP, the AC200/1000 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.

3.6. Login settings

This function is used to change the login password of a webpage.



Login Settings

User Name : admin

Old Password :

New Password :

usr cloud passwd : 78921828
 USR Cloud implement remote management, add SN and the password

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

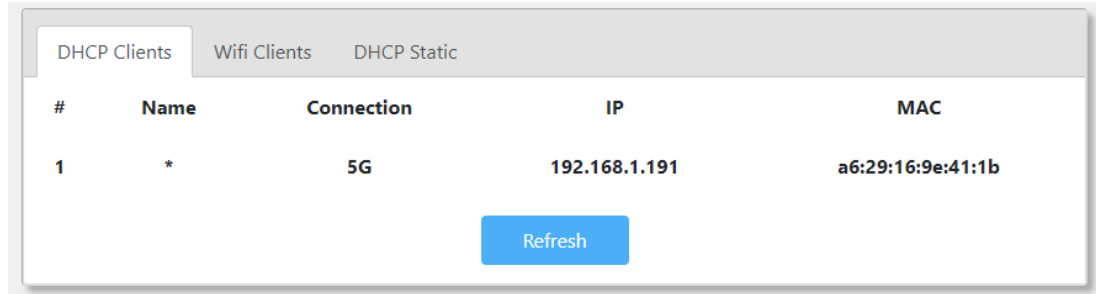
[Apply](#)

Figure 18. Login password

3.7. Client list

Client list has 3 submenus: DHCP List wireless clients and IP Binding.

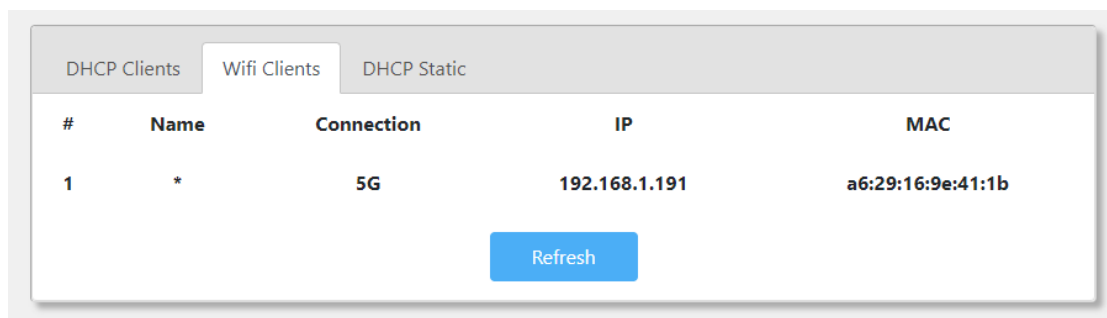
DHCP List: Clicking on “refresh” button will display the information of computers that have obtained IP addresses through the router's DHCP service, as shown in the following figure.



DHCP Clients Wifi Clients DHCP Static				
#	Name	Connection	IP	MAC
1	*	5G	192.168.1.191	a6:29:16:9e:41:1b
Refresh				

Figure 19. DHCP client

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



DHCP Clients Wifi Clients DHCP Static				
#	Name	Connection	IP	MAC
1	*	5G	192.168.1.191	a6:29:16:9e:41:1b
Refresh				

Figure 20. Wi-Fi clients

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.

The screenshot shows the 'DHCP Static' tab selected. The interface includes a table with headers: #, Name, IP, MAC, and Function. Below the table, there are three input fields corresponding to these headers, followed by an 'Add' button. A note below the inputs specifies that the Name is optional and follows certain character rules, and the MAC format is 11:22:33:44:55:66. A 'Refresh' button is located at the bottom.

Figure 21. IP binding

3.8. Software upgrading

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

3.8.1. Firmware upgrading

Select firmware file-> Click upgrade

The screenshot shows the 'Upgrade' tab selected. The 'Upload firmware' section has a 'Choose file' button and a 'Browse' button. Below this is a 'Factory Reset' checkbox with the label 'Reset'. A note provides instructions on how to use the 'Browse' button and the 'Factory Reset' checkbox. There are two buttons: 'Online' and 'Update'. At the bottom, it shows the 'Online Version' as V2.09-9 and a 'Download File' progress bar.

Figure 22. Firmware upgrading

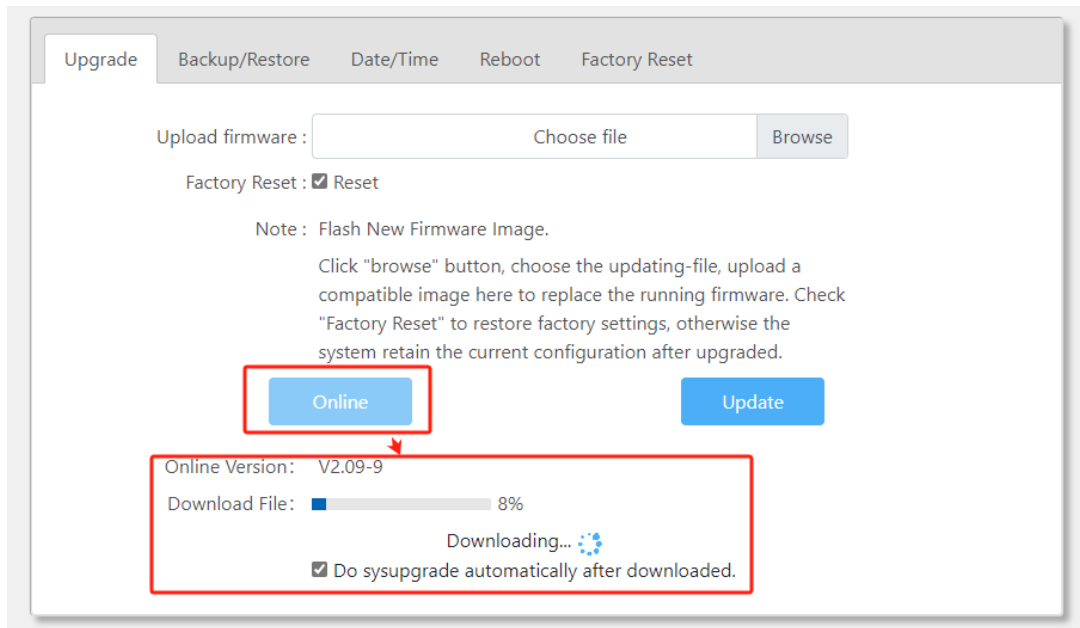


Figure 23. Firmware upgrading online

3.8.2. Backup

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

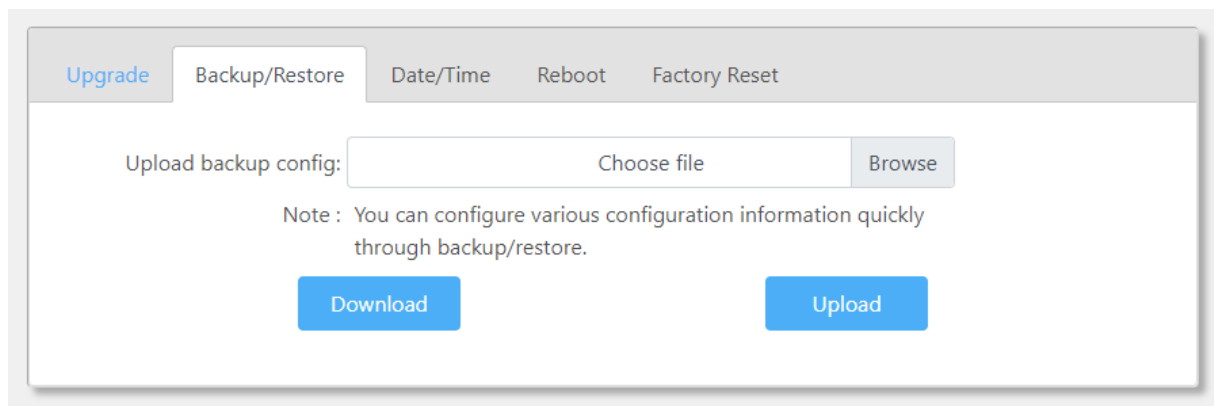


Figure 24. Backup

Table 6.

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 AC200/1000 and restart.

3.8.3. Time & Date

Set the time and date of the AP(NR)310i.

Figure 25. Time & Date

3.8.4. Reboot

Reboot the AP device.

Figure 26. Reboot

3.8.5. Reset to factory setting

Reset to factory settings.

Figure 27. Reset to factory

3.9. System log

To check the system log.

系统日志

```

Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.312718] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 1
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.322786] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 1
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.332859] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 7
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.342926] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 7
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.353003] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 7
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.363069] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 7
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.373135] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 1
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.383204] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 1
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.393273] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 1
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.403344] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 7
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.413413] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 7
Mon Nov 13 10:56:51 2023 kern.err kernel: [ 70.423480] wlan: [1671:l:MBSSIE]
ol_ath_ema_sanitize_vendor_ie_config: vendor_ie_size: 0 ven_ie_size_nibble: 0

```

刷新

Figure 28. System log

4. Warranty

5. Contact Us

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7. 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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