

Reyee Home Wi-Fi Router ReyeeOS 1.219

User Manual



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1 Fast Internet Access

1.1 Connecting to the Router

You can open the management page and complete Internet access configuration only after connecting a mobile phone or PC to the router. You can connect a mobile phone or PC to the router in either of the following ways.

• Wired Connection

Connect a local area network (LAN) port of the router to the network port of the PC, and configure **Obtain an IP address automatically** on the PC.

• Wireless Connection

On a mobile phone or laptop, search for a Wi-Fi network **@Reyee-s**XXXX (XXXX is the last four digits of the MAC address of each device). The default SSID and login address can be found on the bottom label of the router.

1.2 Logging in

After a PC connects to a router in the initial state, the configuration wizard page pops up. If the configuration page does not pop up, enter the device IP address into the address bar of the browser to navigate to the login page, and then enter the password for login.

Item	Default Value
Device IP address (http or https)	192.168.110.1
Username/Password	No username and password are required at your first login and you can configure the router directly.

Table 1-1 Default Configuration

Enter the IP address of the router (default: 192.168.110.1) or <u>https://192.168.110.1</u> in the address bar of your browser, and press Enter. The login page is displayed.

• Supported browsers: Google Chrome, and Internet Explorer 9 to 11. If an

unsupported browser is used, you may encounter various errors or problems such as garbled text or formatting errors.

🕕 Note

If you enter <u>https://192.168.110.1</u> in the address bar of your browser, and press Enter, the following page will be displayed. Click **Advanced** > **Continue to**

192.168.110.1(unsafe) to open the login page.

←	C	▲ Not secure https://192.168.110.1	10	to	Ф
		A			
		A			
		Your connection isn't private			
		Attackers might be trying to steal your information from 192.168.110.1 (for example	e,		
		passwords, messages, or credit cards).			
		NET_ERR_CERT_AUTHORITY_INVALID			
		Hide advanced Go b	ack		
		This server couldn't prove that it's 192.168.110.1 ; its security certificate is not			
		trusted by your computer's operating system. This may be caused by a			
		misconfiguration or an attacker intercepting your connection.			
		Continue to 192.168.110.1 (unsafe)			

If you forget your password and enter the incorrect password to log in, you will need to wait for 10 minutes after each 10 unsuccessful attempts.

The password is incorrect.
The password is incorrect.
Input error 3 times, there are 7 remaining opportunities. If
it exceeds 10 times, it will be locked for 10 minutes.
 1.You can try using a Wi-Fi password. 2.If the router is bound with the App, you can click Settings > Advanced > Management Password on the App to get the management password. 3.If the password is still incorrect, you can restore the device to factory settings and reconfigure the management password.
Log In
Forgot Password? English ~

If you forget the IP address or password, hold down the **Reset** button for more than 10 seconds to restore factory settings. After restoration, you can use the default IP address and password to log in.

🛕 Caution

Restoring factory settings will delete existing configuration and you are required to configure Internet access again at your next login. Therefore, exercise caution when performing this operation.

If you choose to retain the configuration while restoring the device to its factory settings, the device will be reset to its default configurations while retaining the network settings, Wi-Fi parameters, and time zone configuration.

If the router in the initial state detects that the IP address of the primary router is 192.168.110.1, the router automatically changes its own IP address to 192.168.111.1 to avoid an IP address conflict. You may fail to log in to the router during the IP address change, but can reconnect to the Wi-Fi network and complete configuration one minute later.

1.3 Internet Access Mode

Router supports two Internet access modes: primary router mode and secondary router mode. In the secondary router mode, the device can access the Internet through either wired connection or wireless repeating.

Primary Router Mode: This mode is suitable for network creation. The router connects to the Internet through wired connection, and can manage secondary routers. You are advised to select the device with the best performance as the primary router. The primary router can work in PPPoE mode, Dynamic Host Configuration Protocol (DHCP) mode, and static IP address mode.

Secondary Router Mode: On an available network, the router can be connected to the primary router through either wired or wireless connection to expand the Wi-Fi coverage and increase the number of LAN ports and wireless access devices.

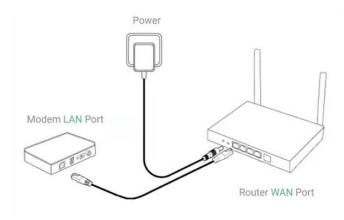
🕕 Note

Wired connection can greatly improve the network stability. You are advised to use wired connection.

1.4 Primary Router Mode

1.4.1 Getting Started

Connect the router to a power supply and connect the LAN port of a modem to the WAN port of the router.



Configure the Internet connection type according to requirements of the local Internet Service Provider (ISP). Otherwise, the Internet access may fail due to improper configuration. You are advised to contact your local ISP to confirm the Internet connection type:

Figure out whether the Internet connection type is PPPoE, DHCP mode, or static IP address mode.

- In the PPPoE mode, a username, a password, and possibly a service name are needed.
- In the static IP address mode, an IP address, a subnet mask, a gateway, and a DNS server need to be configured.

1.4.2 Configuration Steps

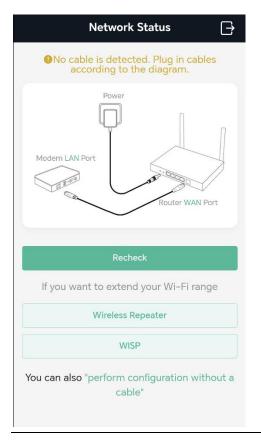
1. Configuring the Internet Connection Type

Click **Start Setup** and select the Internet connection type confirmed by the carrier.

• **DHCP**: The router detects whether it can obtain an IP address via DHCP by default. If the router connects to the Internet successfully, you can click **Next** without entering an account.

🛕 Caution

- If the IP address delivered by the primary router is also 192.168.110.0, the router automatically changes the IP address of its LAN interface to 192.168.111.1 to avoid conflicts. Do not change the configuration of the primary router by mistake. You can differentiate routers by checking the router model and Wi-Fi information on the home page.
- If the Ethernet cable is unplugged, you are prompted to connect the Ethernet cable first. Click **perform configuration without a cable** below to configure and connect the Ethernet cable.



- **PPPoE**: Click **PPPoE**, and enter the username, password. Click **Next**.
- **Static IP**: Enter the IP address, subnet mask, gateway, and DNS server, and click **Next**.

Inte	ernet
	DHCP Recommended 🔾
Internet:	
DHCP	~
Dynamically Ass IP 172.17.96.147	igned IP Address
Subnet Mask 255.255.254.0	
Gateway 172.17.96.1	
DNS Server 172.30.44.20 192.168.5.28	
Previous	Next

2. Configuring a Wi-Fi Network

(1) **Dual-Band Single SSID**: After this function is enabled, the 2.4G SSID will be consistent with the 5G SSID and the 5G band will be preferred. The 2.4G signal is strong but easily interfered by various wireless signals. The 5G band boasts fast speed, low latency and less interference. The dual-band integration is abled by default. You are advised to disable this function. After configuring a 5G SSID, you can get a better Internet experience by accessing the 5G band in an unobstructed location near the device. You can also enable **Dual-Band Single SSID** in the meanwhile. The 5G-capable client will access 5G radio preferentially after the function is enabled. For details, see <u>2.3</u>.

🚺 Note

- The terms "2.4G" and "5G" mentioned in this document only refer to the channels with the frequency of 2.4GHz and 5GHz, and have nothing to do with the 5G (fifth generation) Mobile Communication Technology.
- (2) **Setting the SSID and Wi-Fi password**: The device has no Wi-Fi password by default, indicating that the Wi-Fi network is an open network. You are advised to configure a

complex password to enhance the network security. The password must be a string of 8 to 64 characters, which can contain uppercase and lowercase letters, digits, and English characters but cannot contain special characters such as single quotation marks ('), double quotation marks ("), or spaces. The SSID (5G) is the name of the 5G radio. If the dual-band integration is enabled, set only one SSID.

- (3) **Setting the country or region**: The Wi-Fi channel may vary from country to country. To ensure that a client searches for a Wi-Fi network successfully, you are advised to select the actual country or region.
- (4) **Setting time zone**: Set the system time. The network time server is enabled by default to provide the time service. You are advised to select the actual time zone.
- (5) Click **Next**. The Wi-Fi network will be restarted. You need to enter the new Wi-Fi password to connect to the new Wi-Fi network.

i Settings

1.4.3 Verification and Testing

You can access the Internet after connecting to the Wi-Fi network. Log in to the management page (the default address is 192.168.110.1). The main page shows the Internet connection status and real-time upstream and downstream traffic data.

🕕 Note

• The mobile phone view of the configuration may not be fully displayed on the vertical screen. You can view the complete network diagram on the horizontal screen.



🕕 Note

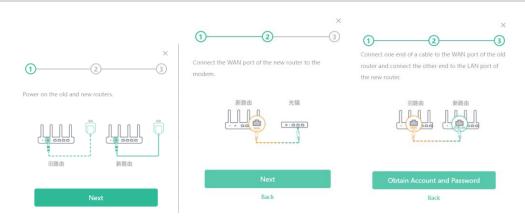
If the homepage shows that there is no Internet connection, please ensure that the WAN port is properly connected to the network cable. If the connection is established and you are still experiencing connectivity problems, you may click on **Click for more information** to access the **Network Check** page to perform a thorough diagnosis of your network.



1.4.4 Forgetting the PPPoE Account

- Obtain the username and password from the old device.
 - a Click from the old device
 - b Connect the old and new routers to a power supply and start them.
 - c Connect the WAN port of the new router to the modem.
 - d Connect one end of a cable to the WAN port of the old router and connect the other end to the LAN port of the new router.
 - e Click **Obtain Account and Password**. The new router automatically fetches the PPPoE account of the old router.

Internet						
DHCP Recommended						
Internet:						
PPPoE		~]				
* Username						
Enter the broadband ac	count provided by ISF	2				
* Password						
Enter the broadband pa	ssword provided by	×~				
Service Name (Optional) Provided by I Forgot Username and F Obtain the username and pas	Password?	ce.				
Previous	Next					



1.5 Secondary Router Mode

1.5.1 Getting Started

- Before configuring the secondary router, configure the primary router and test that the primary router can access the Internet.
- The router supports both wireless and wired connection. If an Ethernet cable is available, you are advised to connect the secondary router to the primary router through the wired connection.
- If no Ethernet cable is available, place the secondary router in a place where it can scan at least two-bar Wi-Fi signal of the primary router.

1.5.2 Configuration Steps

1. Wired Connection

- (1) Connect to the primary router: Use an Ethernet cable to connect the WAN port of the secondary router to the LAN port of the primary router.
- (2) power the secondary router on. Wait for the SYS LED on the secondary router to be steady on. Then, press the Reyee Mesh button on the primary router to enable wired connection. The default SSID and password of the secondary router are automatically synchronized to be the same as those on the primary router.

🕕 Note

Make sure that the secondary router is in the factory default state. If the secondary router has been configured, please first restore it to factory default settings by pressing and holding the reset hole for 10 seconds, and then repeat Step 2.

2. Wireless Connection by using the Reyee Mesh function

- (1) Place the second router within 2 meters of the primary router, power it on and wait for it to start up.
- (2) Press the Reyee Mesh button on the primary router to complete the wireless Reyee Mesh networking in 2 minutes. The SSID and password of the secondary router are automatically synchronized with those of the primary router.
- (3) Place the secondary router in a location where the Wi-Fi signal needs to be extended, and power it on.

🛕 Caution

No Ethernet cable is required in the wireless repeater mode. The wireless network stability can be affected by many factors. Therefore, the wired connection is recommended.

3. Wireless Connection by Web configuration

Connect the router to a power supply and log in the Web configuration page, for details, you can see <u>1.1 Connecting to the Router</u> and <u>1.2 Logging in</u>

click **Start Setup** without connecting an Ethernet cable.

Network Status 🕞
No cable is detected. Plug in cables according to the diagram.
Power Modem LAN Port
Recheck
If you want to extend your Wi-Fi range
Wireless Repeater
WISP
You can also "perform configuration without a cable"

- Wireless Repeater
- (1) Select Wireless Repeater.

Wireless repeater mode: Click **Wireless Repeater**, and the SSID of the primary router, and enter the Wi-Fi password to connect to the primary router.

 In wireless repeater mode, only Wi-Fi signals are extended and the DHCP function is disabled. The IP addresses of all clients connected to the primary and secondary routers are assigned by the primary router. If the device connects to the primary router in wireless repeater mode, the WAN port of the device keeps unchanged. If WAN cable is plugged in, the device automatically switches to the wired repeater mode.

Scan		Enter Password	
SSID Filtering	G	Enter the Wi-Fi password	
5G RuiJie-ChengDu	High		
5G RuiJie-ChengDu	High	Primary Router SSID	
5G RuiJie-ChengDu	High	* Password	
5G HUAWEI_H112_8915_5G	High	Enter a password.	
5G RuiJie-ChengDu	High		
G RuiJie-ChengDu	High		
56 RuiJie-ChengDu	High		
56 RuiJie-ChengDu	High		
5G RuiJie-ChengDu	High	Previous	1
5G RuiJie-ChengDu	High	Previous	Next

- (2) Click **Next**. On the **Set Wi-Fi** page that opens, enter the Wi-Fi SSID and password:
 - You can select **Same as Primary Router Wi-Fi**, in which Wi-Fi SSID and password will be same as the primary router Wi-Fi, or
 - Select **New Wi-Fi** to set new Wi-Fi SSID and password.

Enter management password for the extender:

 Click Same as Wi-Fi Password to set the Management Password same as the Wi-Fi Password.

S	Set Wi-Fi
Local Router Wi-Fi	
• Same as Primary Rout	er Wi-Fi 🛛 New Wi-Fi
* SSID (2.4G)	
RuiJie-ChengDu	
* SSID (5G)	
RuiJie-ChengDu	
Wi-Fi Password	
ChengDu@rj	
Management Password	Same as Wi-Fi Passwor
* Management Passw	ord (Remember the password.)
ChengDu@rj	۲
	High
Previous	Next

(3) Choose the **Country/Region** and **Time Zone.** You are advised to choose the correct country or region, as well as the appropriate time zone.

Set Country/	Region Code
Country/Region/Time Z	Cone
* Country/Region	
China (CN)	~
* Time Zone	
(GMT+8:00)PRC	~
Previous	Next

• WISP:

In this mode, the device enables multiple users to share Internet connection from WISP. The LAN port devices share the same IP from WISP through Wireless port. While connecting to WISP, the Wireless port works as a WAN port. The Ethernet port acts as a LAN port

🕕 Note

In the WISP mode, the device still supports routing and DHCP. The clients connected to the primary router are assigned IP addresses by the primary router; the clients connected to the secondary router are assigned IP addresses by the secondary router.

(1) Click **WISP**. Select the Wi-Fi of the primary router.



- (2) Enter the password of the primary router Wi-Fi.
 - Select DHCP and the extender will automatically obtain an IP address.
 - o If the primary router cannot assign IP addresses, select **Static IP**.
 - In the PPPoE mode, a username, a password, and possibly a service name are needed.

Enter Passw	ora	Enter Password	
the Wi-Fi password		Enter the Wi-Fi password	
•		Primary Router SSID	
ary Router SSID		RuiJie-ChengDu	
iJie-ChengDu		* Password	
ssword		Enter a password.	
ter a password.			
		Select an Internet acess mode.	
an Internet acess mode.		Internet:	
		Static IP	\sim
ternet:		* IP	
PPPoE	^	Example: 192.168.23.2	
PPPoE		* Subnet Mask	
DHCP		255.255.255.0	
Static IP		* Gateway	
Enter the broadband passw	ord provid 🐱	Example: 192.168.1.1	
ervice Name		DNS Server	
		Example: 8.8.8.8, each separated by	/ a comn
(Optional) Provided by ISP			
(Optional) Provided by ISP Previous Enter Password	Next	Previous Enter Password	Next
Previous			Next
Previous Enter Password the Wi-Fi password ary Router SSID iJie-ChengDu ssword		Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu	
Previous Enter Password the Wi-Fi password hary Router SSID hiJie-ChengDu	d	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password	
Previous Enter Password the Wi-Fi password ary Router SSID iJie-ChengDu ssword ter a password.	d	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password.	Next
Previous Enter Password he Wi-Fi password ary Router SSID Jie-ChengDu word er a password. an Internet acess mode.	d	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode.	
Previous Enter Password he Wi-Fi password ury Router SSID lie-ChengDu word er a password. an Internet acess mode. ernet: DHCP	d ©	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE	
Previous Enter Password he Wi-Fi password rry Router SSID Jie-ChengDu word er a password. an Internet acess mode. ernet:	d ©	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet:	
Previous Enter Password he Wi-Fi password ary Router SSID Jie-ChengDu word er a password. an Internet acess mode. ernet: DHCP	d ©	Enter the Wi-Fi password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE * Username Enter the broadband account provise	
Previous Enter Password he Wi-Fi password ary Router SSID Jie-ChengDu word er a password. an Internet acess mode. ernet: DHCP	d ©	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE * Username	ded by I
Previous Enter Password he Wi-Fi password ury Router SSID lie-ChengDu word er a password. an Internet acess mode. ernet: DHCP	d ©	Enter the Wi-Fi password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE * Username Enter the broadband account provid * Password	ded by I
Previous Enter Password Inter Passwo	d ©	Enter the Wi-Fi password Frimary Router SSID RuiJie-ChengDu Password Enter a password. Select an Internet acess mode. Internet: PPPoE Username Enter the broadband account provid Password Enter the broadband password provide	ded by I

0

- (3) Click **Next**. On the **Set Wi-Fi** page that opens, enter the Wi-Fi SSID and password and management password for the extender.
 - You can select **Same as Primary Router Wi-Fi**, in which Wi-Fi SSID and password will be same as the primary router Wi-Fi, or
 - Select **New Wi-Fi** to set new Wi-Fi SSID and password.

Enter management password for the extender:

 Click Same as Wi-Fi Password to set the Management Password same as the Wi-Fi Password.

Set Wi-Fi	
Local Router Wi-Fi	
• Same as Primary Router Wi-Fi O New Wi-F	i
* SSID (2.4G)	
RuiJie-ChengDu	
* SSID (5G)	
RuiJie-ChengDu	
Wi-Fi Password	
ChengDu@rj	
Management Password Same as Wi-Fi	Password
* Management Password (Remember the pas	ssword.)
Length: 8-64 characters.	0
Previous Next	

(4) Choose the **Country/Region** and **Time Zone.** You are advised to choose the correct country or region, as well as the appropriate time zone.

Set Country/	Region Code
ountry/Region/Time Z	one
* Country/Region	
China (CN)	~
* Time Zone	
(GMT+8:00)PRC	~
Previous	Next

(5) Click **Next** to complete the configuration.

1.5.3 Verification and Testing

You can access the Internet after connecting to the Wi-Fi network of the primary router.

1.5.4 Manage the Device After Successful Setup

After successful setup, you can manage the router by accessing its web interface.

1. Connecting the Device

Connect your smartphone or PC to the router via a wired or wireless connection.

(i) Note

If the router is in WISP mode, you are advised to connect your PC to the router via a wired connection.

• Wired Connection

Connect your PC to the LAN/WAN port of the router using an Ethernet cable, and configure **Obtain an IP address automatically** on the PC.

• Wireless Connection

On your smartphone or PC, search for and connect to the Wi-Fi network of the router.

2. Logging In to the Web Interface

• Login using the default IP address

Enter the default IP address (192.168.110.1) or <u>https://</u> 192.168.110.1 in the address bar of your browser, and press **Enter**. The login page is displayed. For details, see <u>1.2</u> <u>Logging in.</u>

• Login using an obtained IP address

If you fail to log in using the default IP address, you can obtain an IP address from the primary router for login. The steps are as follows:

- a Log in to the web interface of the primary router to find the current IP address of the router.
- b Enter this IP address in the address bar of your browser, and press **Enter**. The login page is displayed.

If you encounter any issues during this process, feel free to seek help from the official website at www.ireyee.com or reach out to customer service by emailing <u>techsupport@ireyee.com</u>.

1.6 Mesh Pairing

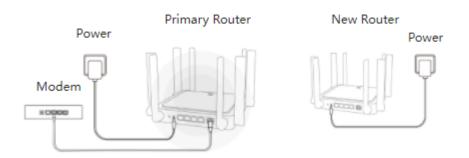
To extend the Wi-Fi coverage, the routers can be connected to the primary router through either wired or wireless connection to build a wireless network that supports seamless roaming. You can press the **Mesh** button to automatically search for new routers around and perform automatic pairing, or log in to the router management page to select a new router for pairing. After the mesh pairing, the secondary router will synchronize the Wi-Fi settings (SSID and password) of the primary router, and the original Wi-Fi (SSID) will disappear. Up to 6 (1+5) routers are supported.

1.6.1 Performing Mesh Pairing through the Mesh Button

- (1) Make the primary router connect to the Internet.
- (2) Place the new router 2 meters (around 6.5ft) away from the primary router and power on the new router. The system LED of the new router starts to blink slowly.

🕕 Note

After the new router is powered on, the SYS LED of M18 and M32 turns orange.



(3) Press the Reyee Mesh button on the primary router.

The Reyee Mesh indicator on the primary router will blink slowly, indicating that the primary router is searching nearby routers for pairing. The Reyee Mesh indicator on the secondary router will also blink slowly, indicating the secondary router is being paired with the primary router. In about 2 minutes, the Reyee Mesh indicators on both routers will be steady on, indicating Mesh pairing is complete.

🚺 Note

During Mesh paring through the Mesh button, the Reyee Mesh indicator of M18 and M32 sequentially illuminate in four cells.

(4) Place the secondary router in an area where the Wi-Fi signal is weak or nonexistent, and power it on again

Wait for 3 to 5 minutes until the Reyee Mesh indicator on the secondary router turns solid on. The original SSID of the secondary router (@Reyee-sXXXX) will disappear and both routers will broadcast the same SSID, indicating that Mesh networking succeeds.

1.6.2 Configuring Mesh Pairing on the Management Page

Mobile Phone View: Choose Home > +Add Mesh Router > next.

PC View: Choose **Home** > **+Add Mesh Router** > **next** > **next**.

You can set up a wireless network that supports seamless roaming by mesh networking.

1. For quick pairing, please place the new router about 2 meters away from the primary router and connect the new router to the power supply. After pairing, place the new router where the Wi-Fi coverage is needed.

2. The system LED of the new router starts to blink. Wait for 2 to 3 minutes until the LED turns solid on.

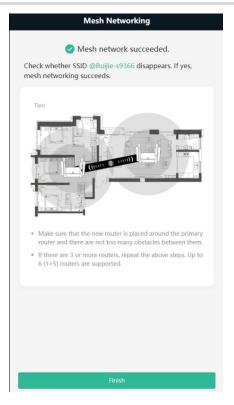
3. After the new router is started, click **next** for the primary router to search for devices that can be paired. It takes one or two minutes to select the target device and perform the pairing.

← Mesh Networking		
Select Device		Pairing
R6 MAC: ec:b9:70:f2:46:0a	\$ \$	Please wait for 1 to 2 minutes.
No Device Available?		

4. After the Mesh pairing, place the new router where you want to have Wi-Fi coverage and then power on the router.

🛕 Caution

- Make sure that the new router is around the primary router and there are not too many obstacles between them.
- If there are 3 or more routers, repeat the above steps. Up to 6 (1+5) routers are supported.



1.6.3 Managing Secondary Router

Mobile Phone View: Choose **More** > **Switch to PC view** > **More** > \blacksquare **Repeaters**.

PC View: Choose **More** > Here **Repeaters** or click the secondary router in the networking diagram on the home page.

🛕 Caution

• To ensure the effect of seamless roaming, the Wi-Fi configuration of the secondary router must be consistent with that of the primary router and cannot be modified independently.

Click **Manage**, and the secondary router management page will pop up. You can make detailed settings for the secondary router.

	Reyce	Nume Hostenine Repet SN: C102M2001204 IP: 102.168.110.213 # 8.6 MAC EC302/07-228.19 Software Ver: Reperf0 1.219.3013	(O Reboot
Basics	👔 Repeater List	Overview Online Clients WEAN ~ Work Mode Advanced ~ Diagnostics ~ System ~	
😤 WLAN 🗠	1.0.000		
Work Mode	Repeater List	Device Details	
🖶 Repeaters	Action Ho	Model: R6 Hostname: Reyre 2, SN: G1QP94H007804 MAC: EC88705E2819 Uptime: 2 minutes 29 seconds Systime: 2023-06-16 01:59:03	
⊘ Security ~		Hardware Ver: 1.00 Software Ver: ReyeeOS 1.219.1813	
UPN v	C Manage O Reboot	Wi-Fi	
🗄 Advanced 🚽	10/page -		
② Diagnostics ~ ~		Primary Wi-Fit @Reyee-uD8E4 Cuest Wi-Fit Security: Tes Security: Tes	
😨 System 🔗		Ethernet status	
		Connected Connected	
« Collapse			

Click on the gray area on the right to close the page.

	Reyee	Hostname: Reyee • R6 MAC: EC:89:70:F2:28:19	SN: G1QP94H007804 IP: 192.168.110.213 Software Ver: Reyee/OS 1.219.1813		(U) Reboot
🕀 Basics 🗠	Repeater List	Overview Online Clients WLAN ~ Work Mod			
Work Mode	Repeater List	Device Details			
El Repeaters	C Action H	Model: R6 MAC: EC897072228:19 Hardware Ver: 1.00 Wi-Fi	Hostname: Reyee & Uptime: 2 minute: 29 seconds Software Ver: ReyeeOS 1.219.1813	5%: G1QP94H007804 Systime: 2023-06-16 0159:03	
Advanced · Diagnostics ·	10/page	Primary Wi-Fi: @Reyee-sDBE4 Security: Yes	Guest Wi-Fit: Security: Ves		
≆ System v		Ethernet status			
		101 1036	LANI LANZ LANI WAN 192.166.110.2	B ESST SCOR	
51 DMDie		E101.8000			

To log in to the web management system of the secondary router directly, you need to know its IP address. Connect your mobile phone or computer to the Wi-Fi network broadcast by the router. Enter the IP address of the secondary router in the address bar of the browser to access the web management system.

Reyee	1 Home	Clients	Internet	ି Wi-Fi	-B- -B- More	English ~	٩	8
thermet ↑	650.00bps 13.75Kbps		R6		Wireless wired	+ Add Mesh Router		
Device Details Model: R6 MAC: EC:B9:70:F2:26:98 Hardware Ver: 1.00 Wi-Fi			Reyee & 2 days 3 hours 8 minut ReyeeOS 1.219.1813	es 19 seconds	SN: G1QF Systime: 2023-	994H00703A 96-16 02:00:26		
Primary Wi-Fi: R6 Security: No				i-Fi: rity: Yes				
Connected Disconnected								

🚺 Note

Choose **More** > **Repeaters** to view the IP address of the secondary router in the Repeater List of the primary router.

Reyee		1 Home	Clients			(in the second s	More			M 0 8
👔 Repeater List										0
Repeater List							IP/MAC/	Hostname/SN/SoftWare Ver C	List Filtering	Batch Action ~
C Action	Hostname 0	IP 0	MAC 0	Status 0	Model 0	Uplink Info 0	Clients	Software Ver	SN 0	Channel
📋 🚳 Manage 🔿 Reboot	Reyee	192.168.110.213	EC:89:70:F2:28:19	Online	RG	Wired Detail	0	ReyeeO5 1.219.1813	G1QP94H007	6,116
1 10/page -										Total 1
	Repeater List Repeater List Action @ Manage © Reboox	Repeater List Repeater List Action Mostname 8 @ Manage © Reboot: Reyver	Repeater List If office Action Hostname 0 IP 0 Manage © Reload Reyre 192.168.110.213	Repeter List If one Clients Action Hostname © IP © MAC © Manage © Reloct. Reyre 192.164.110.213 EC897.076228.19	Repeater List If P © MAC © Status © Action Hostname © IP © MAC © Status © Ø Manage © Reload: Reyee 192.168.110.213 EC6920722819 Online	Repeater List If Clocks Reference Action Hostname 0 IP 0 MAC 0 Status 0 Model 0 @ Manage © Reload: Reyre 192.168.110.213 EC0970722819 Online R6	Repeter List Cleans Internet Will it Action Hostname 0 IP 0 MAC 0 Status 0 Model 0 Uptick late 0 @ Manage © Relocat Reyre 192:05.110.213 ECE0707228.19 Online Rd Wined Inval	Norme Clients Internet Will More If Repeter List Implant Implant Implant Implant Action Hestname 6 IP 6 MAC 6 Status 6 Mored 5 Uplink Info 6 Clients 6 Implant Implant 7 Implant 7 Status 6 Mored 5 Uplink Info 6 Clients 7 Implant 7 Implant 7 Implant 7 Implant 7 Implant 7 Implant 7	Normality Home Clearly Internet Will More Image: Clearly Imag	Normal Home Clients Internet Wi-II More Image: Properties List Image: Properties List Image: Properties List Image: Properties List Image: Action Hostname 0 IP 0 MAC 0 Status 0 Model 0 Uplink Info 0 Clients 0 Software Ver Status Image: Properties List Image: Properties List Image: Properties List Image: Properties List Software Ver Status Image: Properties List Image: Properties List Image: Properties List Image: Properties List Software Ver Status Image: Properties List Image: Properties List Image: Properties List Image: Properties List Software Ver Status

1.6.4 Enabling Reyee Mesh

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Reyee Mesh.

PC View: Choose **More** > Advanced > Reyee Mesh.

Reyee Mesh is enabled on the device by default. You are advised to enable the function.

After Reyee Mesh is enabled, and the secondary router is connected, press the Reyee Mesh button on the primary router, and the secondary router will automatically join the network.

🚺 Note

- After Reyee Mesh is enabled, press the Reyee Mesh button on the primary router, and the secondary router will automatically join the network when connected to the primary router.
- After Reyee Mesh is disabled, the bridged slave router will still be connected.

1.6.5 Troubleshooting

- Please make sure that the new router is powered on and around the primary router.
- Please make sure that the new router is around the primary router and there are not too many obstacles between them.
- Please make sure that the new router supports mesh networking.
- Press the **Reset** button for at least 10 seconds. Try again after the system LED blinks fast.
- Please make sure that Reyee Mesh is enabled on the primary router. (This function is enabled by default.)
- Change the channel on the 5GHz band of the primary router to a non-DFS channel, such as Channel 36.

2 Wi-Fi Network Settings

2.1 Changing the SSID and Password

On mobile phone: Choose **Wi-Fi > Wi-Fi Settings**.

Click the target Wi-Fi network.

PC View: Choose More > **WLAN** > Wi-Fi > Wi-Fi Settings/Guest Wi-Fi/Smart Wi-Fi.

Change the SSID and password of the Wi-Fi network, and click **Save**.

🛕 Caution

After the configuration is saved, all online clients will be disconnected from the Wi-Fi network. Users need to enter the new password to connect to the Wi-Fi network.

2.2 Hiding the SSID

2.2.1 Overview

Hiding the SSID can prevent unauthorized users from accessing the Wi-Fi network and enhance network security. After this function is enabled, the mobile phone or PC cannot search out the SSID. Instead, you have to manually enter the correct SSID and password.

2.2.2 Getting Started

Remember the SSID so that you can enter the correct SSID after the function is enabled.

2.2.3 Configuration Steps

On mobile phone: Choose **Wi-Fi > Wi-Fi Settings**.

Click the target Wi-Fi network.

PC View: Choose More > **WLAN** > Wi-Fi > Wi-Fi Settings/Guest Wi-Fi/Smart Wi-Fi.

Turn on Hide SSID and click Save.

🛕 Caution

After the configuration is saved, you have to manually enter the SSID and password before connecting any device to the Wi-Fi network. Therefore, exercise caution when performing this operation.

← Wi-Fi	រ
Advanced Settings \sim	
Effective Time	
All Time 🗸	
(This Wi-Fi can only be used during the effective period.)	[
Hide SSID (The SSID is hidden and must be manually entered.)	
Client Isolation (Prevent wireless clients of this Wi-Fi from communicating with anothe)r.	h one
Band Steering (The 5G-supported client will access 5G radio preferentially.)	
XPress (The client will enjoy faster speed,)	
Home Internet Wi-Fi	BB More

🕕 Note

Users need to manually enter the SSID and password each time they connect to a hidden Wi-Fi network. Take an Android-based device as an example: To connect it to a hidden Wi-Fi network, choose **WLAN > Add network > Network name**, enter the Wi-Fi name, select **WPA/WPA2** from the **Security** dropdown list, enter the password, and click **Connect**.

2.3 Enabling Band Steering

🛕 Caution

Before enabling the band steering, you must enable the dual-band integration.
 Because the client can automatically choose to steer to either band only when the 2.4G and 5G bands use the same SSID.

On mobile phone: Choose **Wi-Fi > Wi-Fi Settings**.

Click the target Wi-Fi network.

```
PC View: Choose More > WLAN > Wi-Fi > Wi-Fi Settings/Guest Wi-Fi/Smart Wi-Fi.
```

Click **Band Steering**. The 5G-capable client will access 5G radio preferentially after this function is enabled.

÷	Wi-	Fi	G	\leftarrow	Wi-Fi	i	
<i>i</i> Tip: Chang reconnect	jing configuration require	es a reboot and clients	s will be	with one and	othe)r.		anneating
Wi-Fi Settir	ngs			Band Steering (The 5G-sup	ported client will acces	ss 5G radio pre	ferentially.)
Dual-Band Sin The 2.4G and 5G	gle SSID bands use the same SSID.			XPress (The client v	vill enjoy faster speed.))	0
* SSID EW1800G)	K PRO			Wi-Fi6 (802.11ax H	igh-Speed Wireless Co	nnectivity.) ⑦	0
Security			~				
Advanced Settin	gs ~				Save		
℃ Home	Internet	Wi-Fi	More	Home	Internet	Wi-Fi	More

2.4 Adding a Wi-Fi Network

2.4.1 Overview

The router supports three types of Wi-Fi networks: primary Wi-Fi network, guest Wi-Fi network, and smart Wi-Fi network, and only one Wi-Fi network can be configured for each type.

- **Primary Wi-Fi**: The primary Wi-Fi network is listed in the first line of the page and is enabled by default.
- **Guest Wi-Fi**: This Wi-Fi network is provided for guests and is disabled by default. It supports user isolation, that is, access users are isolated from each other. They can only access the Internet via Wi-Fi, but cannot access each other, improving security.

You can set rate limits for the guest Wi-Fi network, and any device connected to the guest Wi-Fi network will have its Internet speed limited accordingly.

• Smart Wi-Fi: The smart Wi-Fi network is disabled by default. Smart clients can connect

to the smart Wi-Fi network for long. You can set an effective time for the smart Wi-Fi network which will only be enabled during the set effective time.

2.4.2 Configuration Steps

On mobile phone: Choose **Wi-Fi > Wi-Fi Settings**.

The page displays the primary Wi-Fi network, guest Wi-Fi network, and smart Wi-Fi network from top to bottom. Click **Add Wi-Fi VLAN** and set the SSID and password.

PC View: Choose More > **WLAN** > Wi-Fi > Wi-Fi Settings/Guest Wi-Fi/Smart Wi-Fi.

← Wi-Fi	G	େ Wi-Fi ି
Wi-Fi Settings		
Dual-Band R6	Open >	 Tip: Changing configuration requires a reboot and clients will be reconnected.
Guest Wi-Fi		Guest Wi-Fi
+ Add Wi-Fi VLAN		_
Smart Wi-Fi		Enable
+ Add Wi-Fi VLAN		
		Dual-Band Single SSID
		The 2.4G and 5G bands use the same SSID.
		* SSID
		@Ruijie-guest-CC5C
		Security
		WPA/WPA2-PSK v
		* Wi-Fi Password
		245
Home Internet Wi-Fi	BB More	Home Internet Wi-Fi More

• **Effective Time:** For the host Wi-Fi network and Smart Wi-Fi, options include Weekdays, Weekends, All Time and Custom. When Custom is selected, you can select a custom effective time. This Wi-Fi can only be used during the effective period.

The guest Wi-Fi network can be turned off as scheduled. Options include Never Disable, Disable 1 Hour Later, Disable 6 Hours Later, Disable 12 Hours later and Other Time. When the time expires, the guest network is off. • Client Isolation/Guest Isolation: This feature is supported by Wi-Fi Settings, Guest Wi-Fi and Smart Wi-Fi.

You can enable **Client Isolation** in **Wi-Fi Settings** and **Smart Wi-Fi** to prevent wireless clients of this Wi-Fi from communicating with each other.

You can enable **Guest Isolation** in **Guest Wi-Fi** to enable wireless clients on the Guest Wi-Fi to access the Internet, and to prevent them from accessing the intranet and from communicating with each other.

	Advanced Settings ~		
Effective Time	Other Time	~	
Effective Time	All Time	\sim	(This Wi-Fi can only be used during the effective period.)
Hide SSID	(The SSID is hidden and m	iust be n	nanually entered.)
Guest Isolation	(Prohibit local access.)		

• **Speed Limit:** You can set a rate limit for the Guest Wi-Fi.

You can enable **Speed Limit**, and set the **MaxiMum Up Rate** and **MaxiMum Down Rate**.

Guest Wi-Fi		
Enable		
Dual-Band Single SSID	The 2.4G and 5G bands use the same	SSID.
* SSID	@Ruijie-guest-CC5C	
Security	WPA/WPA2-PSK	~
* Wi-Fi Password	•••••	<i>ک</i> یرد
Speed Limit		
* MaxiMum Up Rate	100	Kbps
* MaxiMum Down Rate	200	kbps

• Wi-Fi6: You can enable Wi-Fi6 to enjoy high-speed Internet access.

Hide SSID (The SSID is hidden and must Guest Isolation (Prohibit local access.) Band Steering (The 5G-supported client will preferentially.) XPress	t be manually entered.)
(The SSID is hidden and must Guest Isolation (Prohibit local access.) Band Steering (The 5G-supported client will preferentially.) XPress	
(Prohibit local access.) Band Steering (The 5G-supported client will preferentially.) XPress	
Guest Isolation (Prohibit local access.) Band Steering (The 5G-supported client will preferentially.) XPress	
(The 5G-supported client will preferentially.) XPress	I access 5G radio
Band Steering (The 5G-supported client will preferentially.) XPress	access 5G radio
	access 5G radio
preferentially.) XPress	l access 5G radio
XPress	
(The client will enjoy faster sp	
	peed.)
Wi-Fi6	
(802.11ax High-Speed Wirele	ess Connectivity.) 🕐
Save	

2.4.3 Verification and Testing

A client can search out the new Wi-Fi network and the Wi-Fi page displays information about the new Wi-Fi network.



2.5 Configuring the Wi-Fi Blocklist or Allowlist

2.5.1 Overview

Wi-Fi blocklist: Clients in the Wi-Fi blocklist are prevented from accessing the Internet. Clients that are not added to the Wi-Fi blocklist are free to access the Internet.

Wi-Fi allowlist: Only clients in the Wi-Fi allowlist can access the Internet. Clients that are not added to the Wi-Fi allowlist are prevented from accessing the Internet.

2.5.2 Configuration Steps

Mobile Phone View: Choose More > Switch to PC view > More > <a>WLAN >Blocklist/Allowlist.

PC View: Choose **More** > **WLAN** > **Blocklist/Allowlist**.

(1) Select the blocklist mode and click **Add**. The default mode is blocklist mode.

In the pop-up dialog box, enter the MAC address and remarks of the client to be blocklisted. The device displays information about the connected clients. Select a client, and it will be added to the blocklist automatically. Click **OK** to save the configuration. The client will be disconnected and prevented from connecting to the Wi-Fi network.

🛕 Caution

This configuration prevents some devices from connecting to the Wi-Fi network. Exercise caution when performing this operation.

🕕 Note

To use this function, you must disable the randomized MAC address on the mobile device. The following example shows how to disable the randomized MAC address on an Android device.

Open the WLAN page of your device, press and hold the SSID broadcast by the router, and then choose **Modify network** > **Privacy** > **Use device MAC** to complete the configuration.

□ ⁴ .11 ≈ >	◎ 额考除27% ■ 11:02	oo an	🖹 27% 🗊 11:03	© %	₿發素業27%€011:03		
\leftarrow wlan	?	← EW1800GX PRO		\leftarrow EW1800GX PR	0		
WLAN		Privacy	randomized > MAC >	Privacy	Use device MAC >		
Network acceleration	Off >	Advanced settings		Advanced settings			
More settings	>	Proxy	None >	Proxy	None >		
CONNECTED		IP settings	Dynamic >	IP settings	Dynamic >		
EW1800GX PRO Connected (good quality)							
AVAILABLE	EW180						
RuiJie-ChengDu Saved, encrypted (availab	Forget Modify network						
R6 Saved (no Internet access	.) Î			_			
Meituan-City Encrypted				Privacy			
CTTC Encrypted				Use randomized MAC	0		
HUAWEI_H112_8915 Encrypted	6 🗟			Use device MAC	•		
HUAWEI_H112_8915_ Encryoted	5G 🚯 🗟	CANCEL	SAVE	CANCE			
) <			0 0	4		
Blocked	MLAN Client		WI-FI.	+	Add	🗓 Batch Delete	
	MAC		Remark		Act	ion	
			No Data				
Add					×		
	* MAC	Example: 00:11:22	:33:44:55				
	Remark						
			C	Cancel	ОК		

(2) Click **Delete**. The client can connect to the Wi-Fi network again.

Block	ed WLAN Clients		+ Add 🗇 Batch Delete
Up to	64 members can be added.		
	MAC	Remark	Action
	F2:11:34:23:56:21	test	Edit Delete

2.6 Optimizing the Wi-Fi Network

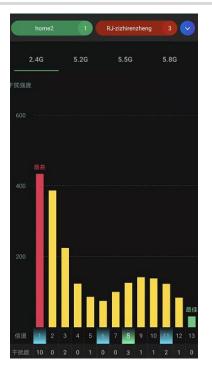
2.6.1 Overview

The device detects the surrounding wireless environment and selects the appropriate configuration upon power-on. However, network stalling caused by wireless environment changes cannot be avoided. Restarting the router is a convenient and effective method to cope with network stalling. The router supports scheduled restart. For details, see <u>5.6</u>. You can also analyze the wireless environment around the router and select appropriate parameters.

2.6.2 Getting Started

Install Wi-Fi Moho or other Wi-Fi scanning app on the mobile phone and check interference analysis results to find out the best channel.

User Manual



2.6.3 Configuration Steps

• Optimizing the radio channel

Mobile Phone View: Choose **More** > **Channel Transmit Power**.

PC View: Choose **More** > **WLAN** > **Radio Frequency**.

Choose the best channel identified by Wi-Fi Moho or other Wi-Fi scanning App. Click **Save** to make the configuration take effect immediately. Excess clients connected to a channel can bring stronger wireless interference.

🕕 Note

The available channel is related to the country or region code. Select the local country or region.

🛕 Caution

The Wi-Fi network will restart after the radio channel is changed. Therefore, exercise caution when performing this operation.

\leftarrow	Channel Transmit Power	S
	p: Changing configuration requires a reboot and ients will be reconnected.	
Radio	Frequency	
2.4G Chan	nel	
Auto		^
Auto		
1 (2.4	12GHz)	
2 (2.4	17GHz)	1

• Optimizing the channel bandwidth

Mobile Phone View: Choose More> Country(Region)/Channel Bandwidth.

PC View: Choose **More** > **WLAN** > **Radio Frequency**.

If the interference is severe, choose a lower channel bandwidth to avoid network stalling. You can select 20MHz and 40MHz bandwidths for the 2.4GHz band, or 20MHz, 40MHz and 80MHz for the 5GHz band. The default value is "Auto", indicating that the bandwidth will be automatically selected based on the wireless environment.

The Wi-Fi network speed is more stable when the channel bandwidth is smaller, and a larger channel bandwidth makes the device more prone to interference. You are advised to select 20MHz bandwidth for the 2.4GHz band.

After changing the channel bandwidth, click **Save** to make the configuration take effect immediately.

🛕 Caution

After the change, the Wi-Fi network will restart, and clients need to reconnect to the W-Fi network. Therefore, exercise caution when performing this operation.

User Manual

← Count	ry(Region)/C	hannel Banc	dwidth 🕻
	anging configurati will be reconnecte		oot and
Radio Fre	quency		
Country/Re	gion		
China (C	IN)		~
2.4G Chann	el Bandwidth		
Auto			^
Auto			
20MHz			
40MHz			
	Sav	/e	
合		((:-	88
Home	Internet	Wi-Fi	More

• Optimizing the transmit power

Mobile Phone View: Choose **More** > **Channel Transmit Power**.

PC View: Choose **More** > **WLAN** > **Radio Frequency**.

A greater transmit power indicates a larger coverage and brings stronger interference to surrounding wireless routers. The default value is **Auto**, indicating automatic adjustment of the transmit power. In a scenario in which routers are installed densely, a lower transmit power is recommended.

🛕 Caution

After the change, the Wi-Fi network will restart, and clients need to reconnect to the W-Fi network. Therefore, exercise caution when performing this operation.

← Channel Transmit Power	S
<i>i</i> Tip: Changing configuration requires a reboot and clients will be reconnected.	
Radio Frequency	
2.4G Channel	
Auto	
Current Channel 6 (2.437GHz)	
Transmit Power O Auto Lower Low Medium H	igh
5G Channel	,
Home Internet Wi-Fi Mo	D • •

2.7 Configuring the Healthy Mode

Mobile Phone View: Choose **More** > **Healthy Mode** > **Healthy Mode**.

```
PC View: Choose More > WLAN > Wi-Fi > Healthy Mode.
```

Click **Enable** to enable the healthy mode. You are allowed to set the effective time period for the healthy mode.

After the healthy mode is enabled, the transmit power and the Wi-Fi coverage area will decrease. The healthy mode may reduce signal strength and cause network stalling. You are advised to disable it.

🚺 Note

All Mesh Routers have undergone stringent radiation detection and evaluation, and comply with IEC/EN62311, EN 50385 and other standards. Wi-Fi networks will not affect human health and you can be rest assured to use them.

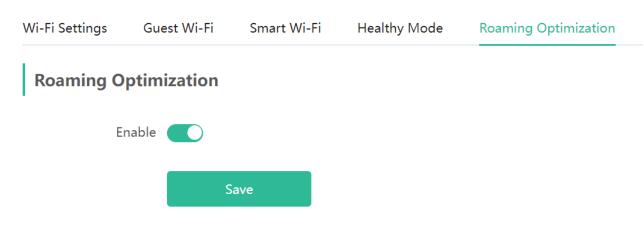
\leftarrow		Healthy	Mode	S		
j	its transmi Tip: Chang	t power to redu	on requires a reb			
Healthy Mode						
Ena	Enable					
Effective Time						
All Time 🗸						
		Sav	e			
Ц) me	Internet	Wi-Fi	More		

2.8 Enabling Roaming Optimization

PC View: Choose More >WLAN > Wi-Fi > Roaming Optimization.

Mobile Phone View: Choose More > Switch to PC view > More >WLAN > Wi-Fi > Roaming Optimization.

Click **Enable** to enable Roaming Optimization. Terminal devices can connect to the new router to maintain their original Internet services.



3 Networks Settings

3.1 Configuring Internet Connection Type

Mobile Phone View: Choose Internet.

PC View: Choose **More** > Basics > WAN.

The router supports three Internet connection types: PPPoE, DHCP, and static IP. For details, see <u>1.4</u>.

For PPPoE and DCHP Internet connection types, you can manually configure a DNS.

🥡 WAN	
* Internet	Online (DHCP) DHCP
	No username or password is required for DHCP clients.
DNS Type	• Dynamic Custom
DNS Server	
IP	172.17.96.147
Subnet Mask	255.255.254.0
Gateway	172.17.96.1
Ą	Advanced Settings ~
	Save

🥡 WAN	
	Online (DHCP)
* Internet	PPPoE ~
* Username	Username
* Password	Password 2
Service Name	(Optional) Provided by ISP
	Obtain the username and password by contacting the ISP or from the old device. Dynamic O Custom
	• Dynamic Custom
DNS Server	
IP	172.17.96.147
Subnet Mask	255.255.254.0
Gateway	172.17.96.1
A	dvanced Settings \vee
	Save

3.2 Changing the Address of a LAN Port

Mobile Phone View: Choose **More** > **Switch to PC view** > **More** > **Basics** > **LAN**.

PC View: Choose **More** > 🕮 **Basics** > **LAN**.

Change the IP address and subnet mask, and click **Save**. After the IP address of a LAN port is changed, you need to log in to Eweb by using the new IP address of the LAN port.

🛕 Caution

Changing the IP address and subnet mask will disconnect the Wi-Fi network. You need to reconnect to the Wi-Fi network. Therefore, exercise caution when performing this operation.

LAN Settings DI	HCP Clients	Static IP Addresses	DHCP Option	DNS Proxy	
<i>i</i> LAN Settings	S				?
*	P 192.168.110).1			
* Subnet Mas	k 255.255.255	i.0			
* MA	C c0:b8:e6:fe:	cc:5d			
DHCP Serve	er 💽				
* Star	rt 192.168.110).1			
* IP Coun	nt 254				
* Lease Time(Mir	n) 30				
	Save				

3.3 Changing the MAC Address

The ISP may restrict the access of devices with unknown MAC addresses to the Internet for the sake of security. In this case, you can change the MAC address of the WAN port to another address. You are advised to use the MAC address of an old router that is allowed to access the Internet (the MAC address can be found on the bottom label of the device).

Mobile Phone View: Choose More > Switch to PC view > More > Basics > WAN > Advanced Settings.

PC View: Choose **More** > Basics > WAN > Advanced Settings.

Enter the MAC address in the format of 00:11:22:33:44:55.

If you want to change the MAC address of the LAN port, choose Basics > LAN.

🛕 Caution

Changing the MAC address of the LAN or WAN port will disconnect the network. You need to reconnect to the router or restart the router. Therefore, exercise caution when performing this operation.

Figure 3-1WAN Port Settings

🥡 WAN	
	Online (DHCP)
* Internet	DHCP ~
	No username or password is required for DHCP clients.
DNS Type	O Dynamic Custom
DNS Server	
IP	172.17.96.147
Subnet Mask	255.255.254.0
Gateway	172.17.96.1
Å	Advanced Settings ^
* MTU	1500
* MAC	c0:b8:e6:fe:cc:5c
802.1Q Tag	
	Save

3.4 Changing the MTU

Sometimes, the ISP restrict the speed of large data packets or prevent large data packets from passing through. As a result, the network speed is low or even the network is disconnected. In this case, you are required to set the maximum transmission unit (MTU) to a smaller value.

Mobile Phone View: Choose More > Switch to PC view > More > Basics > WAN > Advanced Settings.

PC View: Choose **More** > Basics > WAN > Advanced Settings.

The default MTU value is 1500, which is the maximum MTU size. You are advised to gradually adjust the value to 1492, 1400, or even smaller if necessary.

🥡 WAN	
	Online (DHCP)
* Internet	DHCP ~
	No username or password is required for DHCP clients.
DNS Type	O Dynamic O Custom
DNS Server	
IP	172.17.96.147
Subnet Mask	255.255.254.0
Gateway	172.17.96.1
4	Advanced Settings ^
* MTU	1500
* MAC	c0:b8:e6:fe:cc:5c
802.1Q Tag	
	Save

3.5 Configuring IPv6 Address

With the popularity of the network, the IPv4 address fails to meet demands. The 128-bit IPv6 address solves the problem of IPv4 address exhaustion.

Mobile Phone View: Choose More > Switch to PC > More > Basics > IPv6 Address

```
PC View: More > Basics > IPv6 Address
```

3.5.1 Configuring the IPv6 Address of the WAN Port

Internet Connection Type: If you select **DHCP**, and the device will get an IPv6 address from the upstream device. If you select **Static IP**, please configure the IPv6 address, gateway address and DNS server address manually. If you select **NULL**, the IPv6 address function will be disabled on the WAN port.

If the DHCP mode fails, turn on **NAT66** and try again. If the fault persists, you are advised to consult the local ISP about the IPv6 status of the network.

Caution When IPy	6 is enabled, The MTU of IPV4 WAN port need higher than 1280.
Enable	
WAN Settings LA	N Settings DHCPv6 Clients
WAN_V6	
* Internet	DHCP ~
DNS Type	 No username or password is required for DHCP clients. Dynamic O Custom
DNS Server	
IPv6 Address	
IPv6 Prefix	
Gateway	
NAT66	
	Save

3.5.2 Configuring the IPv6 Address of the LAN Port

Click LAN Settings.

IPv6 Assignment: Choose **Auto** to use both DHCPv6 mode and SLAAC mode to allocate address. Choose **Null** to assign no address. You are advised to choose **Auto**.

IPv6 Address/Prefix Length: If the router fails to obtain an IPv6 prefix, you can configure one manually. Set the subnet prefix length to a value smaller than or equal to 64.

Click **Advanced Settings** to perform the advanced settings. See the following figure for the recommended configuration.

Enable		
WAN Settings	Settings DHCPv6 Clients	
IPv6 Assignment	Auto ~	?
IPv6 Address/Prefix Length	fc::0	
	Advanced Settings	
Subnet Prefix Name	Default ~	?
Subnet Prefix Length	64	?
Subnet ID	0	0
* Lease Time(Min)	30	0
DNS Server	Example: 0:0::2, each separated by a comma.	
	Save	

Click **DHCPv6 Clients** to view the list of clients that have obtained IPv6 addresses from the router.

	Enable					
WAN Settings	LAN Settings	DHCPv6 Clients				
	rv6 Clients n view the DHCPv6 client	s information on this pa	ge.			
DHCPv6	Clients			Search by DUID		Q
No.	Hostname	IPv6 Address		aining Lease ime(min)	DUID	

3.6 Enabling Parental Control

Mobile Phone View: Choose Home > Schedule or

PC View: Choose Clients > Blocked Time Management.

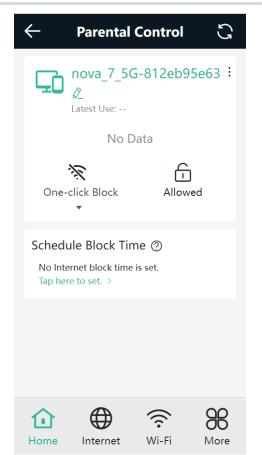
🛕 Caution

- This function is supported only in router mode.
- You can only set Internet block periods using a browser on your computer. To block apps and websites, use the client app on your mobile phone.

 \checkmark

Select a client and tap **Schedule**. Then, you can view the Internet access details. You can also set the Internet block periods.

Home 🎇	\leftarrow Parental Control င္ပိ
+ Add Mesh Router	
therenet → 21.98Kbps ↓ 17.33Kbps M32 → Clients	
Client List (2)	
RNA-AN00 @ Schedule 〒 5G 06-13 12:00 Schedule ↑ 0.00bps ↓ 0.00bps 0.00bps	Parental Control
LAPTOP-LN5CJ1FH & Schedule ■ Wired ↑ 0.00bps ↓ 0.00bps	Limit the Internet access duration of children to avoid network addiction and protect them from harmful information.
	Schedule
Home Internet Wi-Fi More	Home Internet Wi-Fi More



3.6.1 Setting the Internet Block Periods

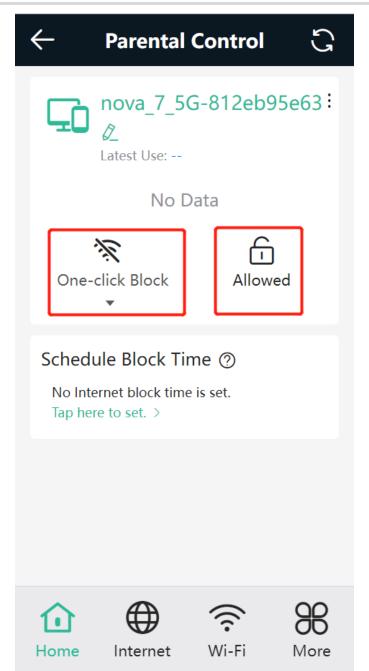
1. Setting the Internet Block Rules

Tap **Tap here to set** to set the Internet block periods. In the block periods, the client cannot access the Internet.

You can select certain days of the week or customize the Internet block periods.

← Parental Control 🕃	\leftarrow Schedule Block Time 🕻
nova_7_5G-812eb95e63 :	Set a schedule to prevent clients to access the Internet during the specified time.
No Data	Schedule Select >
One-click Block Allowed	Start Time 🕓 09:18
The click block Allowed	End Time S End Time
Schedule Block Time ⑦ No Internet block time is set. Tap here to set. >	Cancel Save
Home Internet Wi-Fi More	Home Internet Wi-Fi More

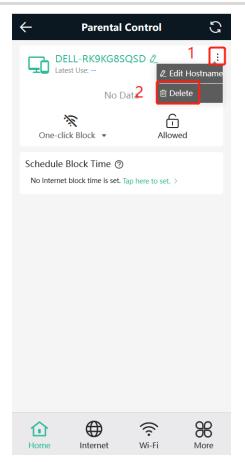
- 2. Blocking Internet Access Temporarily
- Tap **One-click Block** and select a period to block the client from accessing the Internet temporarily.
- Tap **Allowed** to lift all Internet access restrictions imposed on the client on the current day. The lifting operation is valid only on the current day. The restrictions will be resumed the next day.



3.6.2 Disabling Parental Control

To disable parental control, tap **Delete** in the upper right corner to lift the restrictions on the client.

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3.7 Configuring XPress

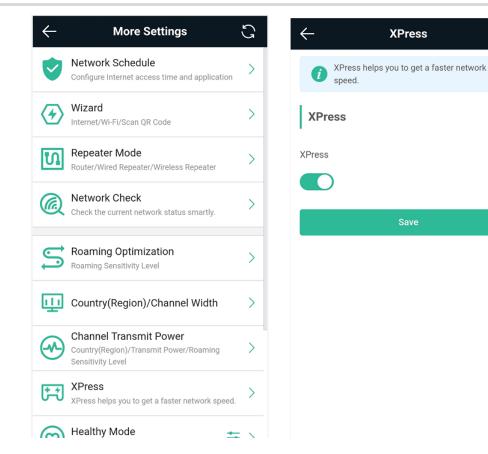
Mobile Phone View: Choose **More** > **XPress**.

```
PC View: Choose More > WLAN > Wi-Fi > Wi-Fi Setting > Advanced Settings > XPress.
```

Turn on **XPress** and click **Save** to save the configuration. After XPress is enabled, you will have a more stable gaming experience.

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S



In the PC view, turn on **XPress** as follows.

Wi-Fi Settings		
Dual-Band Single SSID		
	The 2.4G and 5G bands use the same SSID.	
* SSID	EW1800GX PRO	
Security	Open ~	
	Advanced Settings \vee	
Effective Time	All Time \checkmark	(This Wi-Fi can only be used during the effective period.)
Hide SSID	(The SSID is hidden and must be ma	anually entered.)
Client Isolation	(Prevent wireless clients of this Wi-F	i from communicating with one anothe)r.
Band Steering	(The 5G-supported client will access	5G radio preferentially.)
XPress	(The client will enjoy faster speed.)]

3.8 Configuring Port Mapping

3.8.1 Overview

- Port mapping maps the IP address of a device on the LAN to an external network in the form of a combination of a WAN IP address and a port number, so as to provide the external network access service.
- Scenario 1: When you need to access IP cameras or PCs at home while you are away from home, port mapping needs to be configured.
- Scenario 2: When a server needs to be set up in the home network for Internet access, port mapping or demilitarized zone (DMZ) needs to be configured.
- Port mapping maps the WAN port IP address of a router to an internal network host and port so that Internet users can proactively access hosts on the LAN.
- DMZ forwards all packets from the Internet to DMZ hosts to provide the Internet access service.

3.8.2 Getting Started

- Confirm the IP address of the target device in the internal network and service port ID.
- Ensure that port mapping is available in the internal network.
- Verify that your router has a public IP address. If the IP address is dynamic, changing it may cause port mapping failure. In this case, you are advised to use a dynamic domain name service (DDNS) to resolve any potential IP changes.

3.8.3 Configuration Steps

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Port Mapping.

PC View: Choose **More** > **Advanced** > **Port Mapping**.

Click **Add**. In the pop-up dialog box, enter the name, service type, protocol type, external port/range, internal IP address, and internal port/range. A maximum of 50 port mapping rules can be configured.

Name: Enter a name for ease of maintenance.

Preferred Server: Select a service to be mapped, such as HTTP or FTP. The device will automatically fill in the internal port number of the service. If you are not sure of the service, you can select **Custom**.

Protocol: Select the transport-layer protocol used by the selected service, such as **ALL**, **TCP**, or **UDP**. The configuration on the server end must be consistent with that on the client end.

External Port/Range: Enter the port number used for external network access. You need to check the port number in software, such as camera monitoring software.

Internal Server IP: Enter the LAN IP address used by external networks to access the device, such as the IP address of an IP camera.

Internal Port/Range: Enter the port number used by an application accessed by external networks, such as port 8080 used by the Web service.

	Add	×
Port Mapping NAT-DMZ		
() Port Mapping	* Name	
	Preferred Server HTTP ~	
Port Mapping List + Add Delete Selected	Protocol TCP ~	
Up to 50 entries can be added.	External IP Address 172.17.96.147	
External External Name Protocol IP	* External Port/Range Example: X or X-X (Range: 1-6553!	
Address Port	* Internal Server IP Example: 1.1.1.1	
No Data	* Internal Port/Range 80	
< 1 > 10/page ~ Total 0	Cancel	ОК

3.8.4 Verification and Testing

Use an external device to test whether the destination service is accessible based on the external IP address and port number.

3.8.5 Solution to a Test Failure

- (1) Use a new external port number and perform a test again. The test often fails on the ports blocked by firewalls of some ISPs.
- (2) Enable the remote access permission on the server. The common cause is that remote access is disabled on the server by default. As a result, the internal network access is successful but the access across different network segments fails.
- (3) Enable the DMZ service. For details, see <u>DMZ Configuration Steps</u>. The common cause is that port configuration is incorrect or incomplete.

3.8.6 DMZ Configuration Steps

Mobile Phone View: Choose More > Switch to PC view > More >	🚔 Advanced > Port
Mapping > NAT-DMZ.	

PC View: Choose **More** > Advanced > Port Mapping > NAT-DMZ.

Click **Enable**, enter the IP address of the internal server, and click **Save**.

Port Mapping	NAT-DMZ
i NAT-DMZ	
Enal	ole 🚺
* Dest IP Addre	Example: 1.1.1.1 Please enter a destination IP address.
	Save

3.9 Configuring DHCP Server

3.9.1 Overview

The DHCP server function enables a router to automatically assign IP addresses to clients so that clients connected to the LAN ports or Wi-Fi network of the router obtain IP addresses for Internet access. When multiple routers are connected through LAN ports, a DHCP server conflict will occur. In this case, you need to disable the DHCP server function and keep the DHCP service only on one router available. Otherwise, some devices may be disconnected from the network from time to time.

3.9.2 Configuration Steps

1. Configuring the DHCP Server Function

Mobile Phone View: Choose More > Switch to PC view > More > Basics > LAN > LAN Settings.

PC View: Choose **More** > 🕮 **Basics** > LAN > LAN Settings.

DHCP Server: The DHCP server function is enabled by default. You are advised to enable it when only a single router is used. When multiple routers are connected to the primary router through LAN ports, disable this function.

🛕 Caution

If the DHCP server function is disabled on all routers in the network, clients cannot automatically obtain IP addresses. You need to enable the DHCP server on a router or manually configure a static IP address for each client for Internet access.

Start: Enter the start IP address of the DHCP address pool. A client obtains an IP address from the address pool. If all the addresses in the address pool are used up, the client will fail to obtain the IP address.

IP Count: Enter the number of IP addresses in the address pool. The default value is **254**.

Lease Time (Min): Enter the address lease time period. When a client keeps connected, the lease is automatically renewed. If a lease is not renewed due to the client disconnection or network instability, the IP address will be reclaimed after the lease period expires. After the client connection is restored, the client requests an IP address again. The default lease period is 120 minutes.

LAN Settings C	HCP Clients	Static IP Addresses	DHCP Option	DNS Proxy
i LAN Setting	ļs			
*	IP 192.168.1	10.1		
* Subnet Ma	sk 255.255.25	55.0		
* MA	AC ec:b9:70:f2	2:26:99		
DHCP Serv	er 🚺			
* Sta	art 192.168.1	10.1		
* IP Cou	nt 254			
* Lease Time(Mi	n) 120			
	Sav	ve		

2. Displaying Online DHCP Clients

Mobile Phone View: Choose More > Switch to PC view > More > LAN > DHCP Clients.

PC View: Choose **More** > **LAN** > **DHCP Clients**.

Check information about an online client. Click **Convert to Static IP**. Then, the client obtains the IP address each time connecting to the router.

LAN Settings	DHCP Clients	Static IP Addresses	ONS Proxy		
<i>i</i> View	DHCP clients.				?
DHCP C	ients		Search by Hostname/IP/MAC	Q Refresh	+ Batch Convert
Up to 300	IP-MAC bindings can b	be added.			
No.	Hostname	IP	MAC	Remaining Lease Time(Min)	Status
□ 1	RainOS	192.168.111.18	30:0d:9e:3c:d6:be	24	Convert to Static IP
2	PC-3CD6BE	192.168.111.53	52:54:00:3c:d6:be	17	Convert to Static IP
3	*	192.168.111.176	f2:36:1d:eb:20:6d	22	Convert to Static IP
< 1	> 10/page v				Total 3

3. Displaying the DHCP Static IP Address Table

Mobile Phone View: Choose More > Switch to PC view > More > LAN > Static IP Addresses.

PC View: Choose More > LAN > Static IP Addresses.

Click **Add**. In the displayed static IP address dialog box, enter the MAC address and IP address of the target client, and click **OK**. After a static IP address is bound, the client obtains the IP address each time connecting to the router.

LAN Settings	DHCP Clients	Static IP Addresses	DNS Proxy			
i Static IP	Address List					0
Static IP Ad	ddress List		Search by IP/MAC	Q	+ Add	Delete Selected
Up to 300 er	ntries can be added.					
No.		IP	MAC			Action
			No Data			
< 1 →	10/page V					Total 0

3.10 Configuring DNS

The domain name system (DNS) proxy configuration is not mandatory. The device obtains the DNS server address from the uplink device by default.

Mobile Phone View: Choose **More > Switch to PC view > More >** Basics > LAN > DNS Proxy.

PC View: Choose **More** > Basics > LAN > DNS Proxy.

DNS Proxy: The function is disabled by default and the DNS delivered by a carrier is used. If the DNS is incorrectly configured, the network is accessible and the mobile app can access the Internet properly, but the Web page cannot be opened. You are advised to disable the function.

DNS Server: Clients automatically use the DNS service provided by the primary router by default. The default configuration is recommended. After the DNS proxy function is enabled, you can enter the IP address of the DNS server. The available DNS service varies from region to region. You can consult the local ISP.

LAN Settings	DHCP Clients	Static IP Addresses	DHCP Option	DNS Proxy
<i>i</i> DNS prox	y is not mandatory. 1	The device will obtain the	e DNS server address fr	rom the uplink device by default.
E	nable 🔵			
* DNS S	erver Enter a D	NS server address.		
	Sa	ve		

3.11 Configuring DHCP Option

Mobile Phone View: Choose More > Switch to PC view > More > Basics > LAN > DHCP Option.

PC View: Choose **More** > **Basics** > **LAN** > **DHCP Option**.

Enter the DNS address provided by the ISP, and click **Save**.

The DHCP Option settings are applied to all LAN ports. The **DHCP Option** configuration is optional.

LAN Settings	DHCP Clients	Static IP Addresses	DHCP Opt	ion DNS Proxy
<i>i</i> DHCP Opt		lied to all LAN ports.		
DNS Ser	rver Example:	8.8.8.8, each separated	by a space.	
	Sa	ive		

3.12 Configuring DDNS

3.12.1 Overview

After the dynamic domain name service (DDNS) is enabled, you can use a fixed domain name on the Internet to access service resources of the router without checking the IP address of the WAN port. To make the service available, you need to register an account and domain name with a third-party DNS service provider. The router supports Dyn DNS, and No-IP DNS.

3.12.2 Getting Started

Register an account and domain name at Dyn or No-IP official website.

3.12.3 Configuration Steps

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Dynamic DNS

PC View: Choose More > Advanced > Dynamic DNS

If you select **No-IP DNS**, or **DynDNS**, enter the registered account and password, and click **Log In**. The connection status and domain name will be displayed in the lower part of the page.

No-IP DDNS Dy	INDNS	
<i>i</i> DynDNS		
* Usernam	e	Register
* Passwore	d	
* Domai	n	0
	Log In Delete	
Link Statu	IS -	

3.13 Configuring APR Binding

3.13.1 Overview

The router learns the ARP table from all devices connected to its ports. You can search for a device by its MAC address, perform ARP binding.

3.13.2 Configuration Steps

(1) Binding ARP information

Mobile Phone View: Choose **More** > **Switch to PC view** > **More** > **Ore** > **Security** > **ARP List**.

PC View: Choose **More** > **Osecurity** > **ARP List**.

Bind the MAC address and IP address on the LAN, that is, ARP binding.

ARP	List	Search by IP/N	IAC Q	+ Add Ø Batch Bind	🗊 Batch Delete
Up to	o 64 IP-M	AC bindings can be added.			
	No.	MAC	IP	Туре	Action
	1	c0:b8:e6:f8:8d:7c	172.17.96.1	Dynamic	∂ Bind
	2	c0:25:a5:81:c1:90	172.17.96.49	Dynamic	@ Bind
otal 2	10/page	e ~ (1)	Go to page 1		

3.14 Connecting to IPTV

IPTV is an Internet television service provided by ISP.

3.14.1 Getting Started

- Check whether the IPTV service has been provisioned.
- Check whether the local IPTV service is of the VLAN or Internet Group Management Protocol (IGMP) type. If the local IPTV is of the VLAN type, confirm the VLAN ID. If you are not sure of the IPTV type, contact your local ISP.

3.14.2 IPTV Configuration Steps (VLAN Type)

Mobile Phone View: Choose **More** > **IPTV**.

PC View: Choose **More** > Basics > IPTV.

Click to enable IPTV, and select the LAN port to be connected to the IPTV STB.

Click to enable VLAN, and enter the designated VLAN ID for IPTV provided by the ISP.

After the configuration, confirm that the IPTV STB is connected to the specified port properly. Take the following figure as an example, connect the IPTV STB to LAN1.

🛕 Caution

Enabling this function will disconnect some devices from the network. Therefore, exercise caution when performing this operation.

IPTV/VLAN	IPTV/IGMP	WIFI/IGMP
<i>iPTV</i> Provide In	nternet access and	d IPTV services through only one Ethernet cable.
IPTV/VLAN	1	
	IPTV 💽	
IPT	/ Port Connect the	he default or configured IPTV port .
	DC	IPTV LAN2 LAN3 LAN4 WAN
	VLAN	
* IPTV VL/	AN ID Range	: 2-232 or 234-4090.
		Save

3.14.3 IPTV Configuration Steps (IGMP Type)

Mobile Phone View: Choose **More** > **Switch to PC view** > **More** > **Basics** > **IPTV**.

PC View: Choose **More** > 🕮 **Basics** > **IPTV**.

The configuration applies to FPT ISP. After it is enabled, connect the IPTV STB to any LAN port of the router.

IPTV/VLAN	IPTV/IGMP	
i iptv/	IGMP (For FPT Service Provider)	
IPTV/IGN	/IP	
Enable		
	Save	

3.15 Configuring WIFI/IGMP

3.15.1 Overview

In China Broadnet's centralized procurement, IPTV services rely on multicast streaming. However, when it comes to wireless drivers, multicast packets are forwarded at a lower fixed rate of either 6 Mbps or 24 Mbps. This means that if a large number of multicast packets are forwarded at this lower rate, they can end up using up a significant amount of air interface resources and causing congestion, which in turn leads to an abundance of packet loss. All of this can significantly impact the user experience and make streaming slow.

When it comes to routers, the terminals connected to them are fixed, so multicast packets only need to be forwarded to specific terminals. By enabling WIFI/IGMP and converting the multicast packets into unicast packets, the packets can then be forwarded to the designated terminals in the multicast group table. This approach minimizes congestion caused by low rate multicast.

3.15.2 Configuration Steps

Click M2U(2.4G) to enable WIFI/IGMP for 2.4G wireless clients.

ClickM2U(5G) to enable WIFI/IGMP for 5G wireless clients.

IPTV/VLAN	IPTV/IGMP	WIFI/IGMP	
<i>i</i> WIFI/IG	MP		
WIFI/IGMF)		
M2U	(2.4G)		
M20	J (5G) 🚺		
		Save	

3.16 Enabling Hardware Acceleration

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Hardware Acceleration.

PC View: Choose **More** > 🚔 Advanced > Hardware Acceleration.

After Hardware Acceleration is enabled, the Internet access speed will be improved and clients will not be rate-limited. You are advised to enable hardware acceleration when doing speed measurement.

🛕 Caution

After hardware acceleration is enabled, IPv6 and smart flow control will be disabled.

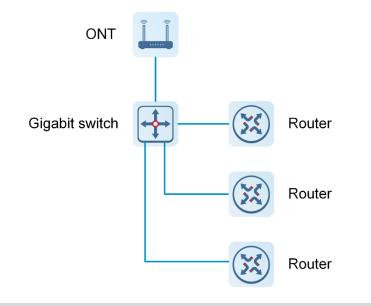
3.17 Configuring Reyee Mesh 3.0

3.17.1 Configuration Steps

PC View: Choose More > Advanced > Reyee Mesh 3.0

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Reyee Mesh 3.0

Connect the routers as indicated in the following figure:



1. Parallel Networking

Parallel networking refers to connecting multiple routers in a wired manner to a modem or switch (Gigabit switch), with the modem as the network bridge, and one router elected as the master router. Other routers forward packets to the master router through the modem to access the internet, achieving network-wide unified management.

(1)	Click	Enable	to	enable	Reyee	Mesh	3.0.
-----	-------	--------	----	--------	-------	------	------

Security ~	
The VPN	Reyee Mesh 3.0
🔁 Advanced 🗠	
Port Mapping	Reyee Mesh 3.0
Dynamic DNS	AP NetworkingThe working mode of each
UPnP Settings	router is set to AP mode. The modem works as the core node to forward packets. Enable
Local DNS	Parallel NetworkingA router is auto
Reyee Mesh	selected as the master device. The modem works as a gateway to connect to other
Reyee Mesh 3.0	u routers with the Ethernet cables.
AP Networking	
Flow Control	
Collapse	m

(2) Choose **Parallel Networking**, and click **Next**.

(3) Check routers for the networking.

Software Ver
Software Ver
ReyeeOS 1.219.1726
ReyeeOS 1.219.1728

(4) Click Next.

Networking succeeded.	
Networking succeeded.	
Admin URL: 10.44.77.253	
Admin Password:11111111 You are advised to save the screenshots.	
Finish	
	You are advised to save the screenshots.

(5) Click **Finish**. You will be redirected to a new page.

🕖 Modem Networking					
Current Mode:Parallel Networking Add Device					
Hostname	SN	Model	Networking Mode	MAC	Software Ver
		No I	Data		
		http://10.44.77.253 Redirecting	164		
		http://www.racalineaniga	103		

(6) On the master router page that is displayed, enter the password to log in.

	Reyee	1 Home	Clients) Internet	হি Wi-Fi	-0- -0- More	English	, 1 2	٩	8
	tinternet ↑	33,28Kbps 13,02Kbps	- 10 R6		2 Repeater	Wieless wired	+ Add Mesh Router			
'	Device Details Model: R6 MAC: EC:89:70:F2:28:19 Hardware Ver: 1.00		Hostname: Reyee & Uptime: 6 hours 7 n Software Ver: ReyeeOS 1.			SN: G1QP94H007804 Systime: 2023-05-28 08:41:27				
	Wi-Fi									
	Primary Wi-FI: @Reyee-s2819 Security: Yes			Guest Wi-Fi: C Security: Ye						
	Ethernet status									
	Connected Disconnected									
			LAN1 LA 192.16							

2. AP Networking

AP networking refers to connecting multiple routers in a wired manner to a modem or switch, with all routers working in AP mode. The modem acts as the core node for data forwarding.

(1) Click **Enable** to enable Reyee Mesh 3.0.

Security		
UPN VPN	C Reyee Mesh 3.0	
🔁 Advanced	^ [
Port Mapping	Reyee Mesh 3.0	
Dynamic DNS	AP NetworkingThe working mode of each	
UPnP Settings	router is set to AP mode. The modem works as the core node to forward packets.	
Local DNS	Parallel Networking A router is auto	
Reyee Mesh	selected as the master device. The modem works as a gateway to connect to other	
Reyee Mesh 3.0	routers with the Ethernet cables.	
AP Networking		
Flow Control		
Collapse	stion	

(2) Choose **AP networking**, and click **Next**.

Configure Networking Mode -	Select	Device	Finish
	 Parallel Networking Advantage: All management features are available. Disadvantage: The latency is high and the bandwidth usage is low. 	 AP Networking Advantage: The latency is low and the bandwidth usage is high. Disadvantage: Some management features are unavailable. 	
	N	ext	

(3) Check routers for AP networking, and click **Next**.

🕧 Modem	Networking					
	Configure Networking N	lode	Select Devi	ce	Finisi	h
Select the targ	get device.					
V	Hostname	SN	Model	Networking Mode	MAC	Software Ver
×	Reyee	G1QHCVL003838	M32		9C:2B:A6:F5:1B:36	ReyeeOS 1.219.1726
	Reyee	G1RP2JM00031C	EW300-PRO		28:D0:F5:08:48:BB	ReyeeOS 1.219.1728
			Previous	Next		

(4) Click **Finish**. You will be redirected to a new page.

1 Modem Networking		
Configure Networking Mode	Select Device	Finish
	Networking succeeded.	
	Admin URL: 10.44.77.253	
	Admin Password:1111111 You are advised to save the screenshots.	
	Finish	

(5) On the master router page that is displayed, enter the password to log in.

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Reyee	1 Home	Clients) Internet	🛜 Wi-fi	-9- -9- More	English	٩	8
	3.28Kbps 3.02Kbps	R6		₹ Repeater	Weeless wired	+ Add Mesh Router		
Device Details Model: R6 MC: EC897/0522819 Hardware Ver: 1.00 Wi-Fi		Hostname: Reyee & Uptime: 6 hours 7 i Software Ver: ReyeeOS 1			SN: G1QP94H007804 Systime: 2023-05-28 08:41:27			
 Primary Wi F: @Reyee-s2819 Security: Yes Ethermet status 			Guest Wi-Fi: ⊖ Security: Ver					
Convected			NNZ LAN3 WAN 58.110.1 192.168.11					

3.18 Configuring AP Networking

PC View: Choose **More** > Advanced > AP Networking

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > AP
Networking

Click **Switch To AP Mode**, switch the router found on the local network to AP mode with a single click.

Basics	~		tworking				
WLAN	~	Switch	the router found on the le	ocal network to AP mode	e with a single click.		
Work Mode		Model	IP	Work Mode	MAC	SN	Software Ver
⊘ Security	\sim	R6	192.168.110.1	ROUTER	EC:B9:70:F2:26:98	G1QP94H00703A	ReyeeOS 1.219.1813
UPN	~	< 1	> 10/page v				Total 1
🔁 Advanced	^	Quitet 7					
Port Mapping		Switch	o AP Mode				
Dynamic DNS							
UPnP Settings							
Local DNS							
Reyee Mesh							
Reyee Mesh 3.0							
AP Networking	٦						
Flow Control	_						
«Collapse							

3.19 Enabling CWMP

PC View: Choose **More** > Advanced > CWMP

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > CWMP

1. Overview

CPE WAN Management Protocol (CWMP) provides a general framework and protocol for management and configuration of home network devices in the next generation network. It is used for remote centralized management of gateways, routers, set-top boxes and other home network devices from the network side.

CWMP uses ACS and CPE models to manage devices. With CWMP, CPE can perform mandatory initialization and O&M actions such as service activation, function settings, file upload and download, and system detection.

With CWMP, ACS can remotely manage the software and firmware of user devices, monitor the status and performance of user devices, realize automatic configuration of user devices and dynamic service configuration, and perform communication fault troubleshooting.

2. Configuration Steps

Click to enable **CWMP**, and configure the ACS account, password, address, and other information.

If NAT is enabled on the router, then enable STUN for NAT traversal. Click to enable **STUN**, and configure the STUN server port, account, password, and other information. Click **Save** to complete the configuration.

CWMP	
* Inform Interval	600
* ACS Address	http://127.0.0.1:8080/acs
* ACS Account	0
* ACS Password	0
STUN	
* STUN Server Address	127.0.0.1
* STUN Server Port	0
* STUN Server Account	0
* STUN Server Password	0
	Save

3.20 Enabling Smart Flow Control

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Flow Control > Smart Flow Control.

PC View: Choose More > Advanced > Flow Control > Smart Flow Control.

1. Enabling Smart Flow Control

Click **Enable** and set the network bandwidth provided by the ISP. After the configuration is saved, the router adjusts the bandwidth of each client based on the total bandwidth to prevent any one client from occupying too much bandwidth.

🛕 Caution

After smart flow control is enabled, speed measurement will be affected. Disable flow control if you want to do speed measurement.

Smart Flow Control	Custom Policy
Smart Flow Intelligently a	Control Idjust the network speed to ensure that each user shares the network fairly.
Enab	le If you want to test the WAN rate , disable smart flow control first.
WAN Bandwidt	th * Up 1000 Mbps * Down 1000 Mbps
	Save

2. Custom Policy

You can configure custom policies to allocate bandwidth to specific IP addresses/ranges to meet the bandwidth needs of specific users or servers. Click **Add** on the **Custom Policy** page to set the policy name, specific IP address/range, bandwidth type, and uplink/downlink rates.

Smart Flow Control	Custom Policy			
<i>Custom Policy</i> Allocate bandw	/ idth to the specified IP add	ress or range. The priority is	s sorted as follows: Cu	istom Policy > Smart Flow Control.
Policy List				+ Add 🗇 Batch Delete
Up to 30 entries c	an be added.			
Polic	cy Name	IP / IP Range	Bandwidth Type	Uplink Rate
				No Data

Add				×
* Policy Name				
* IP / IP Range	Example: 1.1.1.1-1.1.100			
Bandwidth Type	Shared ~			
Uplink Rate	* CIR Kbps * PIR Kbps	0		
Downlink Rate	* CIR Kbps * PIR Kbps	0		
Status				
			Cancel	ОК

3.21 Enabling Port-Based Flow Control

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Port Settings.

PC View: Choose **More** > Advanced > Port Settings.

Port-based flow control can relieve the data congestion caused by ports at different speeds and improve the network speed.

<i>Port Flow Control</i> Port Flow Control can mitigate the data congestion caused by ports at different speeds and improve the network speed.
Enable
Save

3.22 Performing Advanced Network Settings

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Other Settings.

PC View: Choose **More** > Advanced > Other Settings.

The functions are disabled by default. You are advised to keep them disabled if there are no special requirements.

Enable Advanced Firewall: Advanced firewall is enabled to prevent attacks and check the IP protocol.

Disable ICMPv6 Error Messages: You can choose to disable four types of error messages so that ICMPv6 error messages cannot be sent, which saves system resources and prevents ICMPv6 attacks.

<i>i</i> Other Settings	
Enable Advanced Firewall	0
Disable ICMPv6 Error Messages	
	Destination Unreachable
	Datagram Too Big
	Time Exceeded
	Parameter Problem
	Save

3.23 Configuring UPnP

3.23.1 Overview

The universal plug and play (UPnP) function can map the port used by a client for Internet access according to the client's request so that related applications run faster or more stably. Common applications that support UPnP include MSN Messenger.

3.23.2 Configuration Steps

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > UPnP Settings.

PC View: Choose **More** > $\textcircled{}^{\textcircled{}}$ **Advanced** > **UPnP Settings**.

Click **Enable**. You are advised to disable the function. Any applications that use UPnP to map ports will be listed below.

I Play) UPnP is a new li	nternet protocol aimed at impro	oving communication betwe	en devices. 🕖
Save			
Арр	Client IP Address	Internal Port	External Port
	No UPnP Device		
	Save	Save App Client IP Address	Save App Client IP Address Internal Port

3.24 Configuring Connectivity Detection

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Connectivity detection.

PC View: Choose **More** > Advanced > Connectivity detection.

Enter the values in the **Reachable Check Period**, **Unreachable Check Period** and **URL List** fields, and click **Save** to save the settings.

Reachable Check Period: Interval for network connectivity detection when the network is reachable. The value range is 3 to 120 seconds.

Unreachable Check Period: Interval for network connectivity detection when the network is unreachable. The value range is 1 to 30 seconds.

URL List: Domain name for network connectivity detection. A maximum of 5 URLs are supported.

VPN V	<i>i</i> Connectivity de	tection		
🗄 Advanced	* Reachable Check	120		seconds
Port Mapping	Period			
Dynamic DNS	* Unreachable Check	5		seconds
UPnP Settings	Period			
Local DNS	* URL List	http://www.amazon.com	Add	
Reyee Mesh		http://www.google.cc	Delete	
Reyee Mesh 3.0		http://www.yahoo.coi	Delete	
AP Networking		http://wikipedia.org	Delete	
Flow Control		http://www.msn.com	Delete	
Hardware Acceleratic	n			
Port Settings		Save		
Connectivity detection	n			
«Collapse				

3.25 Enabling Wi-Fi Switch

Mobile Phone View: Choose More > Switch to PC view > More > Advanced > Wi-Fi Switch.

PC View: Choose **More** > 🖆 Advanced > Wi-Fi Switch.

The Wi-Fi function is disabled on the device after the Wi-Fi switch is turned off.

The Wi-Fi function is disabled on the device after the Wi-Fi switch is turned off.

User Manual

VPN VPN	 Wi-Fi Switch It takes 30 seconds to activate settings after the Wi-Fi switch is turned on. The Wi-Fi function is of
🖻 Advanced 🗠	
Port Mapping	Wi-Fi Switch
Dynamic DNS	Save
UPnP Settings	
Local DNS	
Reyee Mesh	
Reyee Mesh 3.0	
AP Networking	
Flow Control	
Hardware Accelerati	n
Port Settings	
Connectivity detection	n
Wi-Fi Switch	
CWMP	

3.26 Configuring PPTP VPN

3.26.1 Overview

The device can support Point-to-point Tunneling Protocol (PPTP) server or client, enabling enterprises to connect to branch offices on the public network through private tunnels. A VPN connection can be established with other network devices that support PPTP.

3.26.2 Configuring PPTP Server

Mobile Phone View: Choose **More > Switch to PC view-> More->**

PC View: Choose **More**-> **WPN**-> **PPTP**.

1. Click **Enable** to enable the function of PPTP and select **Server**.

Local Tunnel IP: Enter the local address. It is used as the local virtual IP address of the VPN tunnel for the client to access the server after dialing in.

VPN Subnet/Netmask: Enter the range of IP addresses. The IP addresses in this range will be assigned to clients.

DNS Server: Enter the address of the DNS server pushed to the client.

MPPE: Use MPPE to encrypt PPTP tunnels. By default, encryption is not enabled on the server. Once MPPE is enabled, the Internet speed will slow down. You are advised to disable MPPE if you don't have specific security requirements.

PPP Hello Interval: Enter the interval for sending hello packets. You are advised to set the value to 10.

Click **Save** and the device will receive and process the VPN request.

PPTP Settings Tunnel	List	
<i>i</i> PPTP Settings		
Enable		
РРТР Туре	Server Client	
* Local Tunnel IP	Example: 1.1.1.1	
* VPN Subnet/Netmask	Example: 1.1.1.2-1.1.1.100	0
* DNS Server	Example: 1.1.1.1	
MPPE	• Disable 🛛 Enable	
* PPP Hello Interval	10	seconds
	Save	

2. Add the PPTP user.

Click **+Add** to enter a username and a password for authentication when the client dials in.

Select the network mode. **PC to Router** indicates the dial-in mode from PC to router. **Router to Router** indicates the dial-in mode from router to router.

Enable **Status** and click OK.

Networks Settings

VPN Client List			Username/Password	Q + A	dd 🔟 Batch Delete
Up to 30 entries can be adde	d.				
Username	Password	Network Mode	Status		Action
		No Data			
Add User			×		
* Username	Please enter a username.				
* Password	Please enter a password.		0		
Network Mode	PC to Router	~			
Status					
		Cancel	ОК		

3.26.3 Configuring PPTP Client

Choose More > Switch to PC view-> More-> Switch to PC view-> More->

PC View: Choose **More**-> **WPN**-> **PPTP**.

Click **Enable** to enable the PPTP function. Select **Client** and enter the username and password configured on the server, which must be consistent with the server configuration.

Tunnel IP: It is the virtual IP address used to create the VPN tunnel. You are advised to select **Dynamic** to obtain the IP address assigned by the server. You can also set static IP addresses in the address pool that does not cause conflicts.

Server Address: Enter the WAN port IP address (the public IP is required) or the domain name of the server.

Peer Subnet: Enter the target network segment of the server, which cannot be the same as that of the client.

Work Mode: The **NAT** mode only allows the client to access the Internet on the server and does not allow the server to access the Internet on the client. The **Router** mode allows the server to access the Internet on the client.

PPP Hello Interval: Enter the interval for sending hello packets. You are advised to set the value to 10.

Click **Save** and the device will send the VPN tunnel request to the WAN port.

PPTP Settings Tunnel	List	
<i>i</i> PPTP Settings		
Enable		
РРТР Туре	Server O Client	
* Username	Username of PPTP user	
* Password	Password of PPTP user	0
Interface	WAN \checkmark	
Tunnel IP	• Dynamic 🛛 Static	
* Server Address	IP/Domain	
* Peer Subnet	Example: 192.168.110.0/24	
MPPE	• Disable 🛛 Enable	
Work Mode	• NAT O Router	
* PPP Hello Interval	10	seconds
	Save	

3.27 Configuring OpenVPN

3.27.1 Overview

OpenVPN can be used to establish a secure virtual private tunnel between different sites, or between a client and a site, allowing users to access the intranet over ISP networks. It is a VPN that enables layer 2 and layer 3 tunneling through virtual network cards, supporting various devices such as PCs, mobile phones, and routers to establish VPN connections. Credentials provide security support for OpenVPN. The VPN client must use a credential generated by the server, which verifies the credential and the pre-shared key. Only after verification can a connection be established. After completing the verification, the VPN client obtains an IP address from the server, and establishes a VPN connection through that IP address.

Reyee mesh routers support server mode and client mode. In server mode, a Reyee mesh router can act as an OpenVPN server to generate credentials and verify the credential and the pre-shared key. In client mode, a Reyee mesh router works as an OpenVPN client to connect to the VPN server.

3.27.2 Configuring OpenVPN (Server Mode)

Mobile Phone View: Choose More > Switch to PC view-> More-> VPN-> OpenVPN.

PC View: Choose **More**-> **WPN**-> **OpenVPN**.

1. Configuring OpenVPN

- (1) Click **Enable** to enable the OpenVPN feature.
- (2) Select **Server** for the **OpenVPN Type**.
- (3) Select the protocol, and enter the server address, port number and other information.

Basics	~			
	~	OpenVPN Online User		
🛜 WLAN	Ň	() OpenVPN		
Work Mode				
Security	~	Enable 🧲	D	
👳 VPN	^	OpenVPN Type 🧕	Server O Client	
PPTP		Service Mode		
OpenVPN		Service Mode	Certificate	~
🗄 Advanced	~	Service Type	ТСР	~
Ø Diagnostics	~	* Service Address	192.168.50.94	0
-o- -o- System	~	* Service Port	192.168.50.94 (WAN)	1-65535
		* VPN Subnet/Netmask	10.80.12.0/24	0
		Client Access	Home Network Only	nternet and Home Network
			Expand	
			Save	
Collapse				

Figure 3-2Configuring OpenVPN Server

(4) (Optional) Advanced settings.

Click **Expand** to perform the following advanced settings. If there are no special requirements, use the default settings, as shown in the following figure.

	Collapse		
TLS Authentication			
Allow Data Compression	Yes	~	0
Cipher	AES-128-CBC	~	0
Deliver DNS	Example: 1.1.1.1		• +
Authentication	SHA2		

(5) Click **Save** and the device will receive and process the VPN request.

(6) Once the basic configurations are completed, you can view the server tunnel information in the **Tunnel List**.

Table 3-1 Configuration Items of OpenVPN Server Mode

Item	Description
	The device supports Account, Certificate and Account & Certificate authentication modes:
	• Account mode: The correct account name, password, and CA certificate are required to connect to the server. The configuration is simple.
Server Mode	• Certificate mode: The client needs the correct CA certificate, client certificate, and pre-shared key to connect to the server.
	• Account & Certificate mode: The client needs the correct account name, password, CA certificate, client certificate, and pre-shared key to connect to the server. This mode is suitable for scenarios with high security requirements.
Service Type	All communication on OpenVPN is based on a single IP port, using UDP or TCP protocols. The default value is UDP. You can select TCP for higher performance. TCP protocol can be used to improve the stability of VPN channels in high latency or unstable network conditions.
Service Address	The server address used for client docking, which can be a domain name.
Service Port	The port used by the OpenVPN service process. The official port assigned to OpenVPN is 1194. If the port is occupied or disabled on the local network, the server log will prompt a log indicating port binding failure. In this case, the port number needs to be changed.
VPN Subnet/Netmask	The IP address pool delivered to VPN clients, in the form of a network segment. The first address in that segment is reserved by the server. For example, if 10.80.12.0/24 is set, then the VPN

Item	Description
	server address is 10.80.12.1.
	You can choose Home Network Only or Internet and Home Network
Client will access	• Home Network Only: The client can only access the LAN segment on the server.
	• Internet and Home Network : The client can access the LAN and WAN segments on the server. In this mode, all traffic from the client will be forwarded to the server.
TLS Authentication	TLS Authentication can enhance the security of OpenVPN. Once enabled, the client must import the TLS key. (The version of the peer OpenVPN client must be later than 2.40.)
Allow Data Compression	Once enabled, the device will compress the transmitted data to save bandwidth, but it will occupy a certain amount of CPU resources. This configuration must be consistent on the client and the server to avoid any potential connection failures.
CIPher	Encrypts the data to prevent it from being intercepted midway. The default encryption standard is AES-128-CBC. If the server is configured in auto mode, the client can be configured with any data encryption algorithm, which will be automatically matched by the server. If a specific encryption method is configured on the server, the client must be configured with the same encryption method. Otherwise, the connection between the server and the client cannot be established.
Deliver DNS	The information pushed by the server to the client's DNS. Currently only Windows clients are supported.
Authentication	The digest algorithm informed by the server to the client. The default value is SHA256.

2. Adding OpenVPN clients

Click **+ Add** to enter a username and a password for authentication when the client dials in.

Enable **Status** and click OK.

VPN Client List	:		Username/Password	D b	+ Add	🖻 Batch Delete
Up to 30 entries o	an be added.					
Us	ername	Password	Sta	itus		Action
		N	o Data			
	10/page v					Total 0
Add Use	r			2	×	
* User	name Enter a	a username.				
* Pass	word Enter a	a password.		\bigcirc		
5	itatus 🚺					
			Cancel	ОК		

3.27.3 Configuring OpenVPN (Client Mode)

Mobile Phone View: Choose More > Switch to PC view-> More-> VPN-> OpenVPN.

PC View: Choose **More**-> **WPN**-> **OpenVPN**.

Currently, this device supports Import Config, through which the configuration file is manually imported for docking with the server that is similar to this device. The client configuration file client.ovpn can be directly exported from the docked OpenVPN server.

- (1) Click **Enable** to enable the **OpenVPN** function. Configure **OpenVPN Type** as **Client**.
- (2) Configure the Server Mode, and click **Browse** to import the client configuration file. Click **Save** to save the configuration.

The device supports three authentication modes: Account, Certificate, and Account & Certificate.

Account mode: The correct account, password, and CA certificate is required to connect to the server, where the CA certificate information is embedded in the client's configuration file.

Certificate mode: The client needs the correct CA certificate, client certificate, and preshared key to connect to the server, which are all embedded in the client's configuration file.

Account & Certificate mode: The client needs the correct account, password, CA certificate, client certificate, and pre-shared key to connect to the server, where the CA certificate information, client certificate, and pre-shared key are embedded in the client's configuration file.

OpenVPN	Tunnel List			
i Oper	IVPN			
	Enable	D		
Ор	enVPN Type 🔵	Server O Client		
	Server Mode	Account & Certificate	~	
* Username Username of OpenVpn user			?	
	* Password	Password of OpenVpn us	er	9
	* Client Config	.ovpn	Browse	
	l	Save		

Parameter	Description
	The device supports Account, Certificate and Account & Certificate authentication modes:
	• Account mode: The correct account, password, and CA certificate is required to connect to the server. The configuration is simple.
Server Mode	• Certificate mode: The client needs the correct CA certificate, client certificate, and pre-shared key to connect to the server.
	 Account & Certificate mode: The client needs the correct account, password, CA certificate, client certificate, and pre-shared key to connect to the server. This mode is suitable for scenarios with high security requirements.
Username and password	Enter the usersname and password configured on the server. This parameter can be left blank if the Server Mode is Certificate .
Client Config	Click Browse and select the client configuration file with the suffix .ovpn.

Table 3-2 Configuration Items of OpenVPN Client Web Setting Configuration Mode

3.27.4 Typical Configuration Example

1. Requirements

Through OpenVPN, a client can establish a secure connection to a server over the Internet, and access resources on the server's internal network or access the Internet through the server's network proxy.

2. Topology



Device B as Client

Device A as Server

3. Notes

- Configure Device A as the OpenVPN server.
- Install the OpenVPN client on Device B. (https://openvpn.net/)

4. Configuring OpenVPN Server (Device A)

(1) Log in to the Eweb management system of the device, and choose VPN > OpenVPN. Then, flip on the toggle switch next to Enable to enable the OpenVPN function. On the page that is displayed, enter the IP address of the WAN port as the service address, as well as other required parameters.

Use the default settings unless there are specific requirements.

🕕 Note

The WAN IP address must be a public IP address or a DDNS domain name that is accessible from outside the local network.

If the router does not have a public IP address, contact the ISP to obtain a public IP address.

Basics	~			
🔶 WLAN	~	OpenVPN Online User		
Work Mode		() OpenVPN		
Security	~	Enable 🧲	D	
VPN	^	OpenVPN Type 🧕	Server O Client	
PPTP				
OpenVPN		Service Mode	Certificate	
🗄 Advanced	~	Service Type	ТСР	~
Ø Diagnostics	~	* Service Address	192.168.50.94	0
-D- -D- System	~	* Service Port	192.168.50.94 (WAN)	1-65535
		* VPN Subnet/Netmask	10.80.12.0/24	0
		Client Access	Home Network Only Interr	net and Home Network
			Expand	
			Save	
« Collapse				

- (2) Click **Save**. The OpenVPN settings are saved.
- (3) The following table describes the OpenVPN server configuration.

Parameter	Description
Service Mode	Account: Authentication based on password. Certificate: Authentication based on client certificate. Account & Certificate: Authentication based on password and client certificate.
Service Type	Use the default value unless there are specific requirements. Both UDP and TCP are supported. If the network connection between the two ends of an encrypted tunnel is poor, for example due to high latency or heavy packet loss, then select TCP .
Service Address	The IP address of the WAN port is automatically populated.

Parameter	Description
Service Port	Indicates the port for OpenVPN service. Use the default value unless there are specific requirements.
VPN Subnet/Netmask	Indicates the network segment of the OpenVPN address pool. The first available IP address in the address pool is reserved for the server, while other addresses can be allocated to clients. For example, if this parameter is set to 10.80.12.0/24 , then the virtual IP address of the VPN server is 10.80.12.1.
Client Access	Home Network Only: If this access mode is selected, then the client can only access resources on the server's internal network, but is unable to access the Internet through the server's network proxy. Internet and Home Network: If this access mode is selected, then the client not only can access resources on the server's internal network, but also can access the Internet through the server's network proxy.

(4) Click **Expand** to show advanced settings. Use the default values unless there are specific requirements.

		Collapse	
TLS Authentication			
Allow Data Compression	Yes	~	0
Cipher	AES-128-CBC	~	0
Deliver DNS	Example: 1.1.1.1		⊚ +
Authentication	SHA256		
	Save		
Configuration File	Export		
CA Certificate	Export		

(5) Click **Export** next to **Configuration File** to export the .ovpn file which can be imported on the client side. Unless there are specific requirements, you do not need to export the CA certificate.

С		◯ 🍇 எ= 🗔 ⊶ 192.168.1	10.1/cgi-bin/luci/;stok=2	8bd02edfc370a711	lac592a9ba7d943/admin/alone/vpn/open_V	. ₹
sited	🕀 Fedora Doc	s 🕎 Fedora Magazine 🗅 Fedo	ora Project 🗋 User Com	munities 🗋 Red Ha	20230614_client.ovpn	6
x prev	ented this site f	from opening a pop-up window.	Preferences		Completed — 4.2 KB	
			<u>ن</u>	\oplus	20230612_client.ovpn Completed — 1.4 KB	D
_		H Service Port	ome Clients	Internet	Show all downloads	
; \$	~	burnet for	11040)
N	~	* VPN Subnet/Netmask	10.80.12.0/24		0	
: Mode		Client Access	O Home Network Only	Internet and I	Iome Network	
rity	~			Collapse		
	^	TLS Authentication				
/PN		Allow Data Compression	Yes	~	0	
nced	~	Cipher	AES-128-CBC	~	0	

5. Configuring OpenVPN Client (Use Windows Client as an Example)

(1) download the OpenVPN client (<u>https://openvpn.net</u>).



(2) Open the Windows OpenVPN client and choose the **File** tab.

OpenVPN Connect		- ×
≡ Import	Profile	1
URL	FILE	
Drag and drop to up You can import only	one profile at a time	
	WSE	

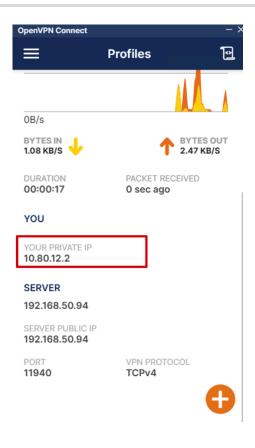
(3) Click **BROWSE** and select the .ovpn file exported from the server side.

penVPN	connect			
<	Imp	orted Pr	ofile	
Profile Na				
192.168	.50.94 [202	230614_cli	ent]	
Server Ho	stname (locked	i)		
192.168	.50.94			
	PROFILES		CONNECT	

(4) Click **CONNECT** to connect to the OpenVPN server.

OpenVPN C	onnect	- ×
≡	Profiles	10
CONNEC	CTED	
	OpenVPN Profile 192.168.50.94 [20230614_client]	
CONNEC	CTION STATS	
5.3KB/s		
		+
0B/s		_
BYTES IN O KB/S	↓ ↑ BYTES 313 B/3	
DURATION 00:00:12		
YOU		Ð

Check the obtained virtual IP addresses.



(5) Log in to the Eweb management system of the device, and choose More > VPN > OpenVPN > Online User to find the connected client.

Basics	~	OpenVPN	Online User				
WLAN	~	() Online User					
Work Mode							
Security	~		Username	Server/Client	Status	Real IP Address	Virtual IP Address
👳 VPN	^		openvpn	Server	OK	192.168.50.94	10.80.12.1
PPTP			client	Client	ОК	192.168.50.214	10.80.12.2
OpenVPN							
🗄 Advanced	~						
<u> </u>							

4 Configuring the Repeater Mode

4.1 Access Point

The access point mode relies on an Ethernet cable to provide reliable transmission over a more stable Wi-Fi network with less interference. You are advised to use the access point mode. Ensure that the primary router can access the Internet with DHCP server enabled. Otherwise, the configuration will fail.

Mobile Phone View: Choose More > Switch to PC view > More > Work Mode

PC View: More >Work Mode

Click **Access Point**, click **Check**, and then click **Save**. The device will run in the AP mode, namely, network address translation (NAT) and DHCP-related routing functions will be disabled.

🛕 Caution

Ensure that the primary router can access the Internet with DHCP server enabled. After the configuration is saved, the Wi-Fi network will be restarted, and clients need to reconnect to the Wi-Fi network.

Figure 4-1Access Point Settings

The device is working in Router mode.							
0 R	outer	• Access Point	O Wireless Repeater	O WISP			
i	<i>i</i> This mode allows you to establish a wired connection between a primary router and a secondary router, extending network coverage. Cable Connection: Connect the WAN port of the local router to the LAN port of the primary router.						
Access Point							
		Check					

Figure 4-2After Clicking Check

Access Point	
Status	Cable Plugged
	IP Address: 172.17.96.147
* Local Router	EW1800GX PRO
SSID(2.4G)	
* Local Router SSID(5G)	EW1800GX PRO
Password	A blank value indicates no encryption.
	Save

4.2 Wireless Repeater

The wireless repeater mode extends the Wi-Fi coverage of the primary router.

🚺 Note

- The wireless repeater mode will affect the network speed and stability. You are advised to plug in an Ethernet cable and select the access point mode if an Ethernet cable is available.
- In the wireless repeater mode, unplug the WAN cable to prevent loops, which may cause network interruption.
- Obtain the SSID and Wi-Fi password of the primary router.

Mobile Phone View: Choose More > Switch to PC view > More > Work Mode

PC View: More >Work Mode

(1) Click **Wireless Repeater** and then click **Select**. A list of surrounding Wi-Fi signals pops up.

The device is working in Router mode.						
O Router	 Access Point 	• Wireless Repeater	O WISP			
 This mode allows you to establish a wireless connection between the primary router and the local deview extending network coverage. You are advised to select a 5G Wi-Fi of the primary router for better Internet experience. Unplug the cable to avoid loops. 						
Wireless Repeater						
Primary Router						
* SS	SID Select					

- (2) Select the Wi-Fi signal of the primary router and enter its Wi-Fi password. You can configure a new Wi-Fi network or have a Wi-Fi network the same as that of the primary router:
 - If you select **Same as Primary Router Wi-Fi**, the Wi-Fi settings of the primary router are automatically synchronized to the current router. Generally, clients merge Wi-Fi signals with the same SSID into one Wi-Fi signal, and they can search out only the Wi-Fi signal of the primary router.
 - If you select **New Wi-Fi**, you can set a local SSID and password. Clients will search out a Wi-Fi signal different from the primary router Wi-Fi signal.

🛕 Caution

After the configuration is saved, the Wi-Fi network will be disconnected and you need to connect to the new Wi-Fi network. Exercise caution when performing this operation. Remember the new SSID and password.

Figure 4-3Selecting the Wi-Fi Signal of the Primary Router and Connecting to the Wi-Fi Network

					Wireless Repeat	ter	
2.4G Wi-Fi List Select a target Wi-Fi.					Primary Router		
Q SSID	2.4G	✓ Re-sca	n		* SSID	RuiJie-ChengDu Select	
SSID	BSSSID	Security	Channel	RSSI	* Wi-Fi Password		
WiFi_77FC				High	Local Router		
xiaoxi	50:64:2b:0e:77:fd	WPA2PSK	3	-28 dBm High	Local Router Wi-Fi	New Wi-Fi Same as Primary Router Wi-Fi	
WLS-PRO-140	02:0d:9e:85:bb:1 1	WPA2PSK	10	-49 dBm High	* SSID(2.4G)	RuiJie-ChengDu_plus	
ruijie-802.1x	06:05:88:c6:65:c8	WPA2PSK	1	-57 dBm High	* SSID(5G)	RuiJie-ChengDu_plus_5G	
22222	46:0d:9e:e7:e9:18	WPAPSK	11	-64 dBm Medium	Wi-Fi Password	A blank value indicates no encryption.	
DDCVtocttimo	2010402127120119	ODEN	11	-67 dBm		Save	

4.3 WISP

WISP allows users to establish their own WLAN for Internet access in public spaces, including coffee, hotel, airport or restaurant.

Mobile Phone View: Choose More > Switch to PC view > More > Work Mode

PC View: More >Work Mode

(1) Click **WISP** and select an Internet connection type. Click **Next**.

WAN			
	* Internet	DHCP	\sim
	No username o	r password is required for DHCP clients.	
	l	Next	

- (2) Select the Wi-Fi signal of the primary router and enter its Wi-Fi password. You can configure a new Wi-Fi network or have a Wi-Fi network the same as that of the primary router:
 - If you select **Same as Primary Router Wi-Fi**, the Wi-Fi settings of the primary router are automatically synchronized to the current router. Generally, clients merge Wi-Fi signals with the same SSID into one Wi-Fi signal, and they can search

out only the Wi-Fi signal of the primary router.

• If you select **New Wi-Fi**, you can set a local SSID and password. Clients will search out a Wi-Fi signal different from the primary router Wi-Fi signal.

🛕 Caution

After the configuration is saved, the Wi-Fi restarts. The clients need to connect to the new Wi-Fi. Remember the configured Wi-Fi name and password, and exercise caution when performing the configuration.

	2.4G Wi-Fi List	Select a target V	Vi-Fi.	×
	Q SSID	2.4G	2.4G V Re-scan	
	SSID	BSSID	Security	Channel
	dt680AR-2G	e2:05:46:56:59:92	OPEN	6
Wireless Repeater	@@ZYQ- WIFIDOG	16:2b:a6:43:2f:89	OPEN	6
Primary Router	@@ZYQ-PORTAL	12:2b:a6:43:2f:89	OPEN	6
* SSID Select	@@ZYQ-中文测 试-UTF8	0e:2b:a6:43:2f:89	OPEN	6
Previous	@@ZYQ-中文测 试-GBK	0a:2b:a6:43:2f:89	OPEN	6
	@@ZYQ-wechat	1a:2b:a6:43:2f:89	OPEN	6

Wireless Repeater				
Primary Route	er			
* SSID	RuiJie-ChengDu Selec	t		
* Wi-Fi Password	Select an SSID for the prima	ry router.		
Local Router				
Local Router Wi-Fi	• New Wi-Fi 🛛 Sa	me as Primary Router Wi	-Fi	
* SSID(2.4G)	RuiJie-ChengDu_plus			
* SSID(5G)	RuiJie-ChengDu_plus_	5G		
Wi-Fi Password	A blank value indicate	s no encryption.		
	Previous	Save		

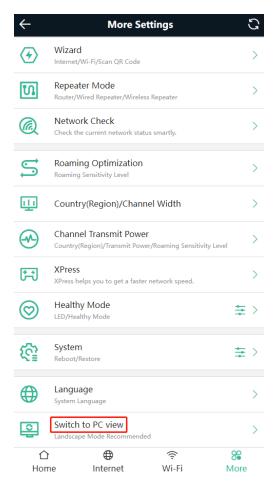
5 System Settings

5.1 Switching to PC View

Choose More > Switch to PC view.

The PC view is the screen displayed after you log in from a PC. The page layout is different from that on the mobile phone.

You can click C in the upper left corner to return to the mobile view (you can also drag the page to the narrowest position on the PC to enter the mobile view).



Reyee	Home Clients) Internet	🔶 Wi-Fi	-B- -B- More	English ~		٩
Internet		R6		Wireless wired	+ Add Mesh F	Router	
Device Details							
Model: R6 SN: G1QP94H0070 Uptime: 26 minutes 18 Hardware Ver: 1.00			Systime: 2	Reyee & 50:89:70:F2:26:98 2023-05-26 15:02 ReyeeOS 1.219.17	:35		
Wi-Fi							
Primary Wi-Fi: R6 Security: No		((r.	uest Wi-Fi: (Security: Ye				
Ethernet status							
Connected Disconnec	cted						
	LAN1	LAN2 LAN3	WAN				

5.2 Configuring the Login Password

Mobile Phone View: Choose **More** > **System** > **Password**.

PC View: Choose **More** > **System** > **Login** > **Login** Password.

Enter the old password and new password. After saving the configuration, log in again with the new password.

\leftarrow	Password	S					
Ø	Change the login password. Please log in again with the new password later.	?					
* Old Pa	assword						
* New P	assword						
* Confir	* Confirm Password						
	Save						

5.3 Remote Access

Mobile Phone View: Choose More > Switching to PC View > More > System > Login > Remote Access.

PC View: Choose **More** > System > Login > Remote Access.

Click **Enable** to enable the remote access.

🛕 Caution

This this may cause attack. Therefore, exercise caution when performing this operation. This function cannot be enabled if the device management password has a weak security strength, such as being purely numerical or alphabetical. See <u>5.2</u> <u>Configuring the</u> <u>Login Password</u> to configure a strong and secure device management password.

Login Password	Session Timeout	Remote Access
<i>i</i> Remote A Allow other	ccess rs login the device via U	RL link
Ena	able 🚺	
Login	URL http:/	
	Save	

5.4 Restoring Factory Settings

Mobile Phone View: Choose **More** > **System** > **Reset**.

PC View: Choose **More** > **System** > **Management** > **Reset**.

Click to enable **Preserve native configuration** to retain the network configuration, Wi-Fi settings, time zone and other configurations after the router is restored to factory settings.

Click **All Routers** to reset all routers in the network.

Click **Reset** to restore factory settings.

🛕 Caution

This operation will clear existing settings and restart the device. Therefore, exercise caution when performing this operation.

🚺 Note

If resetting all routers in the network is unsuccessful, the judgment method is the SSID of the primary router factory resets(The default SSID can be found on the bottom label of the router.),the SSID of the secondary router is not factory reset name, you can hold down the Reset button of the secondary router for more than 10 seconds to restore factory settings.

Backup & Import Reset
<i>i</i> Resetting the device will clear the current settings. If you want to keep
Preserve native configuration
Reset
Backup & Import Reset
<i>i</i> Resetting the device will clear the current settings. If you want to keep the configuration, Backup Config the configuration first.
All Routers 🗌 Reset all routers on the network.
Preserve native configuration
Reset

5.5 Configuring System Time

Mobile Phone View: Choose **More** > **System** > **Time**.

PC View: Choose **More** > **System** > **System Time**.

You can view the current system time. If the time is incorrect, check and select the local time zone. If the time zone is correct but time is still incorrect, click **Edit** to manually set the time. In addition, the router supports Network Time Protocol (NTP) servers. By default, multiple servers serve as the backup of each other. You can add or delete local servers as required.

\leftarrow	Time	C
i Conf	igure and view system time	?
Current Time 2022-01-12 (04:24:54 Edit	
))America/New_York	~
* NTP Server		
0.cn.pool.	ntp.org	Add
1.cn.pool.	ntp.org	Delete

5.6 Configuring Scheduled Reboot

5.6.1 Getting Started

Confirm that the system time is accurate to avoid network interruption caused by device reboot at the wrong time. For details, see <u>5.5</u>.

5.6.2 Configuration Steps

Mobile Phone View: Choose **More** > **System** > **Scheduled Reboot**.

PC View: Choose **More** > **System** > **Reboot** > **Scheduled Reboot**.

Click **Enable**, and select the date and time of weekly scheduled reboot. Click **Save**. When the system time matches the scheduled reboot time, the device will restart.

\leftarrow	Scheduled Reboot	S
Enable		
Day		
Mon	🗸 Tue 🗸 Wed 🗸 Thu	
🗸 Fri	Sat Sun	
Time		
03	· 00 · ·	
	Save	

5.7 Performing Online Upgrade and Displaying the System Version

Mobile Phone View: Choose **More** > **System** >**Online Upgrade**.

PC View: Choose **More** > **System** > **Upgrade** > **Online Upgrade**.

You can check the current system version. If there is a new version available, you can click it for an upgrade.

🛕 Caution

After being upgraded, the device will restart. Therefore, exercise caution when performing this operation. You are advised to set the scheduled upgrade time to an early morning time to avoid affecting Internet access.

If no new version is detected and online upgrade cannot be performed, check whether the DNS is correctly obtained or go to **More** > 🖨 **Advanced** > **Local DNS** to set the DNS server for the router.

←	Online Upgrade	S
_		
i	Online upgrade will keep the current configuration. The device will be rebooted during upgrade.	
Currei	nt Version	
Reye	eOS 1	
New \	/ersion	
Reve	eOS	
Descr	iption	
Тір		
1. lf y	our device cannot access the Internet, clic	k
Dowr	nload File.	
2. Ch	oose Local Upgrade to upload the file for	

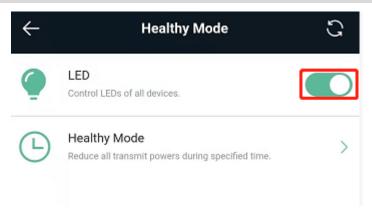
local upgrade.

	Upgrade Now				
Home	Internet	(in the second s	More		

5.8 Turning On/Off the Indicator

Mobile Phone View: Choose More > Healthy Mode. > LED

PC View: Choose **More** > **System** > **LED**.



5.9 Switching System Language

Mobile Phone View: Choose **More** > **Language**.

PC View: Click in the upper right corner of the page.

Click a required language to switch the system language.

\leftarrow	Language 🔓
	中文
0	English
	繁體
	Indonesia

5.10 Enabling Alerts

Mobile Phone View: Choose **More** > **Switch to PC** > **More** > **More** > **Diagnostics** > **Alerts**.

PC View: Choose **More** > **Oiagnostics** > **Alerts**

The device may be affected by conflicts and attacks in the network, which leads to network anomalies. Enable the **Alerts** function, and you can view the alerts for fault prevention and troubleshooting. You can also customize the followed alerts .All alerts are followed by default. The unfollowed alerts will not be detected or displayed. You are advised to follow all alerts.

<i>i</i> View and manage alarms.		
Alert List		View Unfollowed Alert
Expand Alerts	Suggestion	Action
	No Data	
< 1 > 10/page >		Total 0

Click the arrow under **Expand** to view alarm details.

Click **Delete** to delete the corresponding alarm messages. You are advised to retain all alerts for review.

Click **Unfollow** and then click **OK**. The device will no longer report the corresponding alerts. After clicking **View Unfollow Alarm**, select the alarm you want to follow again. Click **OK**, and the device will keep following the corresponding alerts.

Table 5-1 Alerts and Suggested Action

Alerts	Suggested Action
The WAN port has no link.	Please check whether a cable is plugged into the WAN port.
The port is operating at 10Mbps.	Please check the peer port settings, unplug and re-plug the cable, or replace the cable.
There is more than one DHCP server in the LAN network.	Please disable the extra DHCP server in the LAN network.
There is more than one DHCP server in the WAN network.	Please disable the extra DHCP server in the WAN network.
Address pool of DHCP server is full.	Enlarge the DHCP address pool.

Alerts	Suggested Action
WAN & LAN Address Conflict.	Please check the IP addresses of WAN and LAN ports. If the network addresses conflict (including IP address conflict), change the IP of LAN port.
The WAN IP address is already in use.	Please check the WAN IP address. If it is a static IP address, please change the IP address.
The LAN IP address is already in use.	Please check the LAN IP address. If it is a static IP address, please change the IP address.
The IP address of the downlink address is already in use.	Please check the IP address of the downlink device. If it is a static IP address, please change the IP address.
A MAC address conflict or loop error occurs.	Please troubleshoot the MAC address conflict or loop error.
No DNS server address is configured.	Please add a DNS server address, e.g., 114.114.115.115.
DNS failure	Please check the network configuration.
DNS resolution error.	Please check the network configuration.
Cloud service is not running.	Please reboot the device.
Cloud service is not enabled.	Please contact Reyee technical support.
The device is not connected to the Cloud server.	Please reboot the device.
Loops occur.	Please check the network environment.

5.11 Diagnosing Network Problems

Mobile Phone View: Choose More > System > Network Check.

PC View: Choose **More** > **Oiagnostics** > **Network Check**.

Click **Start**. The device will check the network for problems, including interfaces, routing, flow control, and provide solutions and suggestions for risk items.

\leftarrow	Network Check	3
i Network Che	ck	0
	46%	
WAN/LAN Cable		0
Auto-Negotiated	Speed	0
WAN Port		0
DHCP-Assigned	IP Address	0
LAN & WAN Addr	ess Conflict	0
Loop		0
DHCP Server Cor	nflict	O

5.12 Network Diagnosis Tools

1. Network Test Tool

Mobile Phone View: Choose **More** > **System** > **Network Tools**.

PC View: Choose **More** > [@]**Diagnostics** > **Network Tools.**

When you select the ping tool, you can enter the IP address or URL and click **Start** to test the connectivity between the router and the IP address or URL. The message "Ping failed" indicates that the router cannot reach the IP address or URL.

The Traceroute tool displays the network path to a specific IP address or URL.

The DNS Lookup tool displays the DNS server address used to resolve a URL.

<i>i</i> Network Tools				
Tool	• Ping	O Tracerout	e 🔿 DNS	Lookup
* IP Address/Domain	www.go	oogle.com		
* Ping Count	4			
* Packet Size	64			Bytes
	Start		Stop	
Result				

2. Packet Capture Tool

Mobile Phone View: Choose More > Switch to PC view > More > Oliagnostics > Packet Obtaining.

PC View: Choose **More** > [@] **Diagnostics** > **Packet Obtaining**

Set the interface, protocol, and IP address whose packets need to be captured, file size limit, and packet count limit to limit the volume of packets captured. Click **Start**. Packet Obtaining can be stopped at any time and a link to the generated file is generated. You can use Wireshark and other analysis software to open and view the file.

🛕 Caution

Packet capture may occupy many system resources and cause network stalling. Exercise caution when performing this operation.

Interface ALL V Protocol ALL V IP Address	
IP Address	
File Size Limit 2M V Available Memory 153.43 M	
Packet Count Limit 500 \checkmark	
Start Stop	

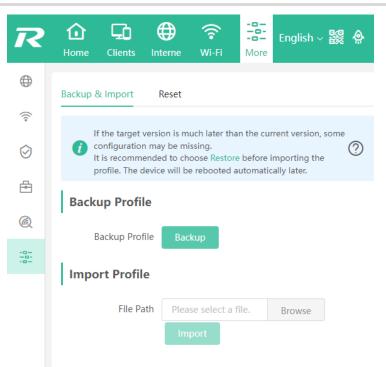
5.13 Configuring Config Backup and Import

Mobile Phone View: Choose More > Switch to PC view > More > System > Management. >Backup & Import

PC View: Choose More > System > Management. >Backup & Import

Configure backup: Click **Backup** to download a configuration file locally.

Configure import: Click **Browse**, select a configuration file backup on the local PC, and click **Import** to import the configuration file. The device will restart.



5.14 Configuring Session Timeout Duration

Mobile Phone View: Choose More > Switch to PC view > More > System > Login >Session Timeout.

PC View: Choose **More** > System > Login >Session Timeout.

If no operation is performed on the page within a period of time, the session will be down. When you need to perform operations again, enter the password to open the configuration page. The default timeout duration is 3600 seconds, that is, 1 hour.

Login Password	Session Timeout	Remote Access	
<i>i</i> Session Time	eout		
* Session Timeou	ut 3600		seconds
	Save		
FAQs			

6.1 How Do I Restore the Router to Factory Settings?

Use a needle-shaped object to press and hold the router's **Reset** button for more than 10 seconds, then release it after the system LED flashes quickly. Wait for the router's system LED to become solid on, then perform network settings on the router. The SSID of the router in the factory state can be found on the label on the back of the router.

6.2 What Should I Do If I Forgot the Password?

- Forgot the management password of the web interface: Enter the Wi-Fi password and try again. If the password is still incorrect, restore the router to factory settings. The management password will also be restored to the default management password.
- Forgot the Wi-Fi password:
 - Enter the default Wi-Fi password on the label on the back of the router and try again.
 - Scan the QR code on the label on the back of the router, and change the Wi-Fi password on the Reyee Router App.
 - If the fault persists, restore the router to factory settings. The management password will also be restored to the default Wi-Fi password.

6.3 How Do I Manage the Router When Used As a Range

Extender After Installation is Successful?

You are advised to connect your PC or smartphone to the device's Wi-Fi. Then, open a browser and enter 192.168.110.1 in the address bar to access the device's web interface.

If you are unable to access the device's web interface using the default IP address, you can use the alternative methods specified in <u>1.5.4</u> <u>Manage the Device After Successful</u> <u>Setup</u>.

6.4 What Should I Do If the System LED Keeps Flashing

After the Router is Powered On?

Restore the router to factory settings and power on it again.

If the system LED still fails to turn solid on, please email us at <u>techsupport@ireyee.com</u>.