

Reyee Mesh Routers

Web-based Configuration Guide ReyeeOS 1.303



Document Version: V1.0 Date: 2024-02-02

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Preface

Technical Support

- The official website of Ruijie Reyee: <u>https://www.ruijienetworks.com/products/reyee</u>
- Technical Support Website: https://www.ruijienetworks.com/support
- Case Portal: https://www.ruijienetworks.com/support/caseportal
- Community: <u>https://community.ruijienetworks.com</u>
- Technical Support Email: service_rj@ruijienetworks.com

Conventions

1. GUI Symbols

Interface symbol	Description	Example
Boldface	 Button names Window names, tab name, field name and menu items Link 	 Click OK. Select Config Wizard. Click the Download File link.
>	Multi-level menus items	Choose System > Time.

2. Signs

The signs used in this document are described as follows:

Danger

An alert that calls attention to safety operation instructions that if not understood or followed when operating the device can result in physical injury.

Warning

An alert that calls attention to important rules and information that if not understood or followed can result in data loss or equipment damage.

🛕 Caution

An alert that calls attention to essential information that if not understood or followed can result in function failure or performance degradation.

🚺 Note

An alert that contains additional or supplementary information that if not understood or followed will not lead to serious consequences.

Specification

An alert that contains a description of product or version support.

3. Note

This manual introduces the features of the product and offers guidance on configuration and testing.

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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 PC to the router. You can connect a 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 **@Ruijie-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.

Table 1-1	Default Configuration
-----------	-----------------------

ltem	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.

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	A 10 D
	A	
	Your connection isn't private	
	Attackers might be trying to steal your information from passwords, messages, or credit cards).	om 192.168.110.1 (for example,
	NET_ERR_CERT_AUTHORITY_INVALID	
	Hide advanced	Go back
	This server couldn't prove that it's 192.168.110.1 ; trusted by your computer's operating system. This misconfiguration or an attacker intercepting your	s may be caused by a
	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.	>74
The password is incorrect.	
Input error 3 times, there are 7 remaining opp	ortunities. If
it exceeds 10 times, it will be locked for 10 min	nutes.
 You can try using a Wi-Fi password. If the router is bound with the App, you can > Advanced > Management Password on the the management password. If the password is still incorrect, you can rest device to factory settings and reconfigure the management password. 	App to get
Log In	
Forgot Password?	nglish 🗸

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.

A 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.

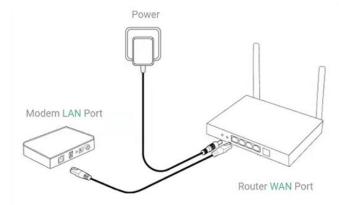
🚺 Note

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.

A 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.

Inter	net
	DHCP Recommended 🔾
Internet:	
DHCP	~
Dynamically Assigned IP 172.17.96.147 Subnet Mask 255.255.254.0 Gateway 172.17.96.1 DNS Server 172.30.44.20 192.168.5.28	gned IP Address
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 Enabling Band Steering</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-Fi Settings			
Dual-Band Single SSID Used by Dual Bands			
2.4G Wi-Fi Large Coverage & Slow Rate			
* SSID			
EW1800GX PRO			
* Wi-Fi Password			
Length: 8-64 characters.	3755	Country/Region/Time Zone	
		* Country/Region	
5G Wi-Fi Small Coverage & Fast Rate		China (CN)	~
		China (CN) * Time Zone	~
Small Coverage & Fast Rate			~
Small Coverage & Fast Rate * SSID		* Time Zone	

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.

1 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.

			11.5		+ Add Mesh Router
Internet	$\stackrel{\uparrow}{\downarrow}$	104.00bps 29.16Kbps	EW1800GX-PRO	Wireless wired	0 Clients

1 Note

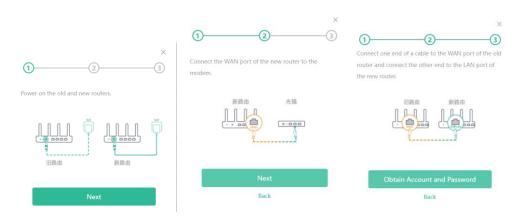
If the homepage shows that there is no Internet connection, please ensure that the WAN port is properly connected to the network cable. If the connection is established and you are still experiencing connectivity problems, you may click on **Click for more information** to access the **Network Check**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

inte	ernet	
	DHCP Recomme	nded
Internet:		
PPPoE		\sim
* Username		
Enter the broadband ac	count provided by ISF	2
* Password		
Enter the broadband pa	ssword provided by	*
(Optional) Provided by I Forgot Username and F Obtain the username and pas	Password?	ce.



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) 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

Connect the router to a power supply and click Start Setup without connecting an Ethernet cable.

🛕 Caution

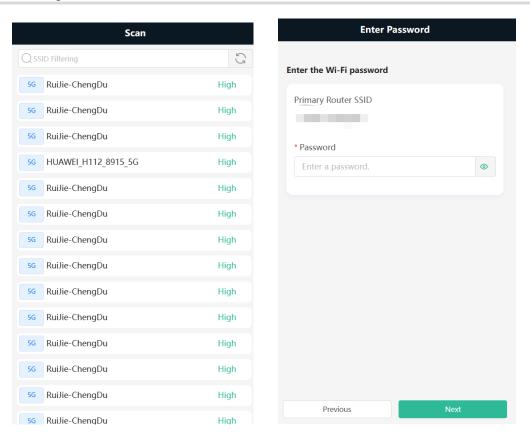
No Ethernet cable is required in the wireless repeater mode. The wireless network stability can be affected by many factors. Therefore, the wired connection is recommended.

Network Status \rightarrow
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
WISE

- 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.

o 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.



(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,
- Select New Wi-Fi to set new Wi-Fi SSID and password.

Enter management password for the extender:

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

Set Wi-Fi
Local Router Wi-Fi
Local Router WI-FI
• Same as Primary Router Wi-Fi O New Wi-Fi
* 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 password.)
ChengDu@rj 💿
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
ountry/Region/Time Z	one
* Country/Region	
China (CN)	\ \
* Time Zone	
(GMT+8:00)PRC	
Previous	Next

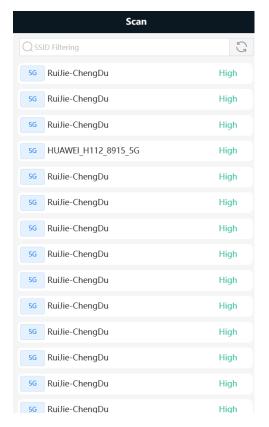
• WISP:

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

	r Password	Enter Password
nter the Wi-Fi password	d	Enter the Wi-Fi password
•		Primary Router SSID
Primary Router SSID		RuiJie-ChengDu
RuiJie-ChengDu		* Password
* Password		Enter a password.
Enter a password.	0	
		Select an Internet acess mode.
elect an Internet acess	mode.	
		Internet:
Internet:		Static IP ~
PPPoE		* IP
		Example: 192.168.23.2
PPPoE		* Subnet Mask
DHCP		255.255.2
Static IP		* Gateway
Enter the broadban	nd password provid 😽	Example: 192.168.1.1
Service Name		DNS Server
(Optional) Provided	d by ISP	Example: 8.8.8.8, each separated by a comn
Drouterus	Next	Previous Next
Previous Enter P		
Enter P	lassword	Enter Password Enter the Wi-Fi password
Enter P ter the Wi-Fi password		Enter Password Enter the Wi-Fi password
Enter P ter the Wi-Fi password		Enter Password
Enter P nter the Wi-Fi password Primary Router SSID RuiJie-ChengDu		Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu
Enter P. ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu		Enter Password Enter the Wi-Fi password Primary Router SSID
Enter P. ter the Wi-Fi password ^P rimary Router SSID RuiJie-ChengDu		Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu
Enter Pa ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password.	assword	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password
Enter Pa ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password	assword	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password.
Enter P ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. lect an Internet acess me	assword	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode.
Enter P. tter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Slect an Internet access model Internet: DHCP	ode.	Enter Password Enter the Wi-Fi password Primary Router SSID Ruilie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE v
Enter P ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Idect an Internet access modified Internet: DHCP	assword	Enter Password Enter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE V * Username
Enter P ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Idect an Internet access modified Internet: DHCP	assword	Enter Password Enter the Wi-Fi password Primary Router SSID Ruilie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE * Username Enter the broadband account provided by 1
Enter P ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Idect an Internet access modified Internet: DHCP	assword	Enter Password Primary Router SSID Ruilie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE V * Username Enter the broadband account provided by 1 * Password
Enter P ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Idect an Internet access modified Internet: DHCP	assword	Enter Password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE * Username Enter the broadband account provided by 1 * Password Enter the broadband password provid
Enter P ter the Wi-Fi password Primary Router SSID RuiJie-ChengDu * Password Enter a password. Idect an Internet access modified Internet: DHCP	assword	Enter Password Primary Router SSID Ruilie-ChengDu * Password Enter a password. Select an Internet acess mode. Internet: PPPoE V * Username Enter the broadband account provided by 1 * Password

(3) Click Next. On the Set Wi-Fi page that opens,

Enter the Wi-Fi SSID and password and management password for the extender.

o 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,

• Select New Wi-Fi to set new Wi-Fi SSID and password.

Enter management password for the extender:

o 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-Fi
* 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 password.)
Length: 8-64 characters.
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 Co	ode	
Country/Region/Time 2	Zone		
* 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.

1.6 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 Note

This feature is not supported on the RG-EW300 PRO router.

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 (@Ruijie-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.

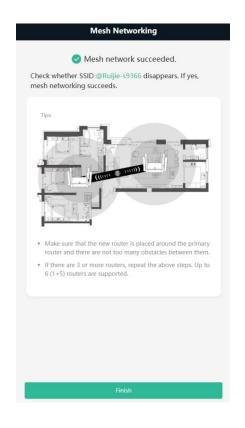
3. After the new router is started, click **next** for the primary router to search for devices that can be paired. It takes one or two minutes to select the target device and perform the pairing.

← Mesh Networkin	ng	
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.

A 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 > Bepeaters.

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

A 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.

R	ujie	I #Reyee		IP: 192.168.110.117	(1) Reboot
Basics		Repeater List	Overview Online Clients WLAN ~ Work Mode Adva	nced ~ Diagnostics ~ System ~	
🗇 WLAN			Desta Parti		
Work Mode		Repeater List	Device Details		
器 Repeaters		Action	Model: EW1800GX-PRO SN: Uptime: 3 days 15 hours 32 minutes 52 seconds	Hostname: Ruijie & MAC: Systime: 2023-05-04 10:16:44	
⊘ Security			Hardware Ver: 1.00	Software Ver:	
🗄 Advanced		Manage 🙂	Wi-Fi		
@ Diagnostics		E 1 E 10,	Primary Wi-Fi: Xin Security: Yes	Guest WI-Fi: Security: No	
🗄 System		_	Jeconty, res	security: No	
			Ethernet status		
			Connected Disconnected		
			LANT	LAN2 LAN3 LAN4 WAN 192.168.110.117	

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

R	Uíjie	ē ⊨ ≋Reyee	Router Hostname: Ruijie SN: IP: 192.168.110.117 C Reboot • EW1800GX-PRO MAC: Software Ver: C
Basics		() Repeater List	Overview Online Clients WLAN × Work Mode Advanced × Diagnostics × System ×
후 WLAN			
III Work Mode		Repeater List	Device Details
₩ Repeaters		Action	Model: EW1800GX-PRO Hostname: Ruijie & SN: MAC: C
Security			Uptime: 3 days 15 hours 28 minutes 33 seconds Systime: 2023-05-04 10:12:26 Hardware Ver: 1.00 Software Ver: 1
🗄 Advanced		🗌 🛞 Manage 🕲	Wi-Fi
② Diagnostics			
:a: System			Primary Wi-Fi: Xin Security: Yes Guest Wi-Fi: Security: No
			Ethernet status
			Connected Disconnected
			LANT LAN2 LAN3 LAN4 WAN 192.168.110.117

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.

Rujje	1 Home	Conline Clients	Internet		-8- -8- More	English ~	8
Device Details							
Model: EW1800GX-PRO MAC: Hardware Ver: 1,00		Hostname: Ruij Uptime: 3 da Software Ver:	ays 15 hours 29 mi	nutes 4 seconds	SN: Systime: 2023-05-04 10:12:57		
Wi-Fi							
Primary Wi-Fi: Xin Security: Yes				/i-Fi: ırity: No			
Ethernet status							
Connected Disconnected							
		LAN1 LAN2	LAN3 LAN4	WAN 192.168.110.117			

🚺 Note

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

Ī	Ruijie	I #Reyee	1 Home	Clients	() Internet	() Wi∘Fi	-0- -0- More		English ~	3 #	٥	8
Basics		👔 Repeater List									(3
🕆 WLAN												
Work Mode		Repeater List					IP/MAC/hostname/SN	/SoftWare Ver Q	List Filter	Batch	Action	
👑 Repeaters]	Action	Hostname 0	IP 0	MAC 0	Status 0	Model ©	Uplink Info 0	Clients ¢		Softwa	are Ve
Security												
Advanced		Manage Reboot	Ruijie	192.168.110.117	C0.88:E6:FE:CC:52	Online	EW1800GX-PRO	🌩 5G Detail	1		eyeeOS:	-
@ Diagnostics		< 1 > 10/page ~									Tot	al 1
歪 System												

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**.

A 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.

← Wi-Fi	ម	← Wi-Fi ପି
Wi-Fi Settings		Tip: Changing configuration requires a reboot and clients will be reconnected.
Cual-Band EW1800GX PRO	Open 🖒	Wi-Fi Settings
Guest Wi-Fi + Add Wi-Fi VLAN		Dual-Band Single SSID The 2.4G and 5G bands use the same SSID.
Smart Wi-Fi + Add Wi-Fi VLAN		* SSID EW1800GX PRO
1		Security Open v
		Advanced Settings A
		Save
Home Distance Wi-Fi	BB More	Home Internet Wi-Fi More

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 > TWLAN > Wi-Fi > Wi-Fi Settings/Guest Wi-Fi/Smart Wi-Fi.

Turn on Hide SSID and click Save.

A 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	ទ
Advanced Settings ~	
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	one
anothe)r.	
anothe)r.	
anothe)r. Band Steering	
anothe)r. Band Steering (The 5G-supported client will access 5G radio preferentially.)	
anothe)r. Band Steering (The 5G-supported client will access 5G radio preferentially.) XPress	

1 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.

🚺 Note

The RG-EW300-PRO router does not support the 5G band.

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.

\leftarrow	Wi-	Fi	G	÷	Wi	-Fi	S
<i>i</i> Tip: Changing reconnected.	g configuration require	es a reboot and clients	will be	with one and	othe)r.	in the formed man	anicating
Wi-Fi Setting	S			Band Steering (The 5G-sup	ported client will ac	cess 5G radio pre	eferentially.)
Dual-Band Single	e SSID ands use the same SSID.			XPress (The client v	vill enjoy faster spee	d.)	
* SSID EW1800GX F	PRO			Wi-Fi6 (802.11ax H	igh-Speed Wireless (Connectivity.) (?)	
Security							
Open			~		Sav	e	
Advanced Settings	~						,
Home	Internet	Wi-Fi	BB More	Home	Internet	Wi-Fi	BB 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.

The guest Wi-Fi network can be turned off as scheduled. You can configure to turn off the guest Wi-Fi network one hour later. When the time expires, the guest network is off.

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/Sma	rt Wi-Fi
--	----------

÷	Wi-Fi	C	େ Wi-Fi ପ୍ର
Wi-Fi Settings			Tip: Changing configuration requires a reboot
Dual-Ban	d EW1800GX PRO	Open >	and clients will be reconnected.
Guest Wi-Fi			Guest Wi-Fi
	+ Add Wi-Fi VLAN	1	
Smart Wi-Fi			Enable
	+ Add Wi-Fi VLAN	J	
			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
			······································
Home	Internet Wi-Fi	B	Home Internet Wi-Fi More

- Effective Time: 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
- 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. ſ

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	\sim	
Effective Time	All Time	\sim	(This Wi-Fi can only be used during the effective period.)
Hide SSID	(The SSID is hidden and n	nust be m	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	\sim
* Wi-Fi Password	•••••	ک 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.

All Time			~
(This Wi-Fi	can only be use	d during the ef	fective
period.)			
Hide SSID			
(The SSID i	s hidden and m	ust be manually	/ entered.)
Guest Isolati	on		
(Prohibit lo	cal access.)		
Band Steerin	g		
(The 5G-su	pported client v	vill access 5G ra	adio
preferentia	lly.)		
XPress			
(The client	will enjoy faster	speed.)	
Wi-Fi6			
(802.11ax F	ligh-Speed Wir	eless Connectiv	ity.) 🕐
	Sav	ve	
合	\oplus		36
Home	Internet	Wi-Fi	More

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 > **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.

A 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.

∎ ^a al ≋ •	図 級 米 染 27% 💼 11:02	0 *.11 📚 🔹	関 🍿 岩 🎕 27% 💷 11:03	a na sa	RI 88 # 10 27%
\leftarrow wlan	?	← EW1800G	X PRO	← EW1800GX I	PRO
WLAN		Privacy	Use randomized > MAC >	Privacy	Use devic
Network acceleration	Off >	Advanced settings		Advanced settings	
More settings	>	Proxy	None	Proxy	
CONNECTED		IP settings	Dynamic >	IP settings	D
EW1800GX PRO Connected (good quality)	((;-			n occurgo	
AVAILABLE	EW180				
RuiJie-ChengDu Saved, encrypted (available	Forget				
R6	Modify network				
Saved (no Internet access)	লি				
Meituan-City Encrypted				Privacy	
CTTC Encrypted	()			Use randomized MA	.C
HUAWEI_H112_8915 Encrypted	6 7			Use device MAC	
HUAWEI_H112_8915_50	· 6 %	CANCEL	SAVE	CAN	ICEL
Encrypted					

O All STA	s except blocklisted STAs are allo	wed to access Wi-Fi.		
Only th	ne allowlisted STAs are allowed to	access Wi-Fi.		
Blocked	WLAN Clients		+ Add 🗇 Batch Delete	
Up to 64	members can be added.	-		
	MAC	Remark	Action	
		No Data		
Add			×	
	* MAC Example: 0	0:11:22:33:44:55		
	Remark			
(2) Click De	elete. The client can connect	Cancel to the Wi-Fi network again.	ОК	
	d WLAN Clients	Ĵ	+ Add 🖻 Batch D	elete
Up to 🧯	64 members can be added.			
	MAC	Remark	Action	
	F2:11:34:23:56:21	test	Edit Delete	

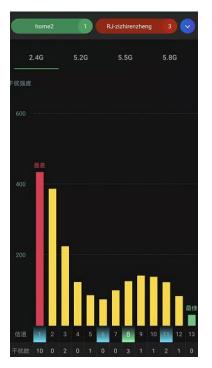
2.6 Optimizing the Wi-Fi Network

2.6.1 Overview

The device detects the surrounding wireless environment and selects the appropriate configuration upon poweron. 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> Configuring Scheduled Reboot. 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.



2.6.3 Configuration Steps

• Optimizing the radio channel

Mobile Phone View: Choose More > Channel Transmit Power.

```
PC View: Choose More > The 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.



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

←	Channel Transmit Power	G
	changing configuration requires a reboot and s will be reconnected.	
Radio Fre	equency	
2.4G Channel		
Auto		~
Auto		
1 (2.4120	iHz)	
2 (2.4170	SHz)	ा

• 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, 80MHz and 160MHz for the 5GHz band. The default value is "Auto", indicating that the bandwidth will be automatically selected based on the wireless environment.

Note

Only EW3000GX-PRO and EW6000GX-PRO routers support the 160MHz bandwidth for the 5GHz band.

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.

A 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.

\leftarrow Country(Region)/Channel Bandwidth 🔾
<i>i</i> Tip: Changing configuration requires a reboot and clients will be reconnected.
Radio Frequency
Country/Region
China (CN)
2.4G Channel Bandwidth
Auto
Auto
20MHz
40MHz
Save
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.

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.

1 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
i	Enable healthy mode, and the device will decrease its transmit power to reduce radiation. Tip: Changing configuration requires a reboot and clients will be reconnected.	
Hea	althy Mode	
Ena	ble	C
Effe	ctive Time	
А	II Time	/
	Save	



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> Primary Router Mode.

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

6 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
4	Advanced Settings \sim
	Save

🥖 WAN	
	Online (DHCP)
* Internet	PPPoE ~
* Username	Username
* Password	Password 😽
Service Name	(Optional) Provided by ISP
	Forgot Username and Password?
	Obtain the username and password by contacting the ISP or from the old device.
DNS Type	O Dynamic O Custom
DNS Server	
IP	172.17.96.147
Subnet Mask	255.255.254.0
Gateway	172.17.96.1
A	Idvanced Settings \sim
	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.

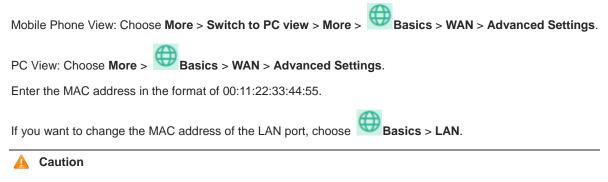
A Caution

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	DHCP Clients	Static IP Addresses	DHCP Option	DNS Proxy	
i LAN Sett	ings				?
	* IP 192.168.1	10.1			
* Subnet I	Mask 255.255.2	255.0			
*	MAC c0:b8:e6:	fe:cc:5d			
DHCP S	erver				
*	Start 192.168.7	10.1			
* IP C	Count 254				
* Lease Time	(Min) 30				6
	Sa	ave			1

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).



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 3-1 WAN Port Settings

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



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.

i wan	
* Internet	Online (DHCP) 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
1	Advanced Settings A
* 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.



When IPv6 is enabled, The MTU of IPV4 WAN port need higher than 1280.

Enable	
WAN Settings LA	AN Settings DHCPv6 Clients
WAN_V6	
* Internet	DHCP v
	No username or password is required for DHCP clients.
DNS Type	• O Dynamic 🔷 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.

Enab	le 💽	
WAN Settings	LAN Settings DHCPv6 Clients	
IPv6 Assignme	nt Auto ~	?
IPv6 Address/Pref Lengt		
	Advanced Settings	
Subnet Prefix Nam	Default ~	?
Subnet Prefix Leng	th 64	?
Subnet I	D 0	?
* Lease Time(Mi	n) 30	0
DNS Serve	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	S LAN Settings	DHCPv6 Clients				
	Pv6 Clients In view the DHCPv6 client	s information on this pag	e.			
DHCPv6	Clients			Search by DUID		Q
No.	Hostname	IPv6 Address		aining Lease ime(min)	DUID	

3.6 Enabling Parental Control

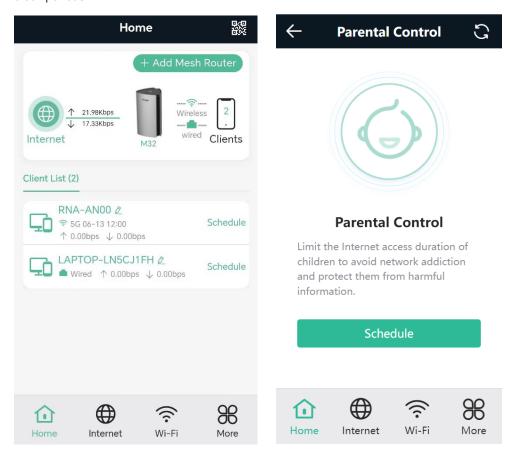
Mobile Phone View: Choose Home > Schedule or

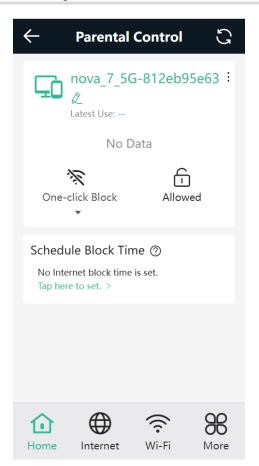
PC View: Choose Clients > Blocked Time Management.

🛕 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.

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



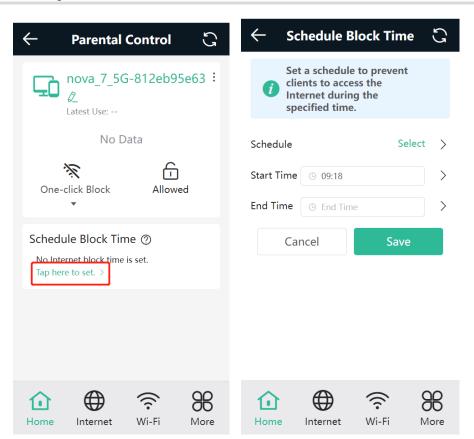


3.6.1 Setting the Internet Block Periods

1. Setting the Internet Block Rules

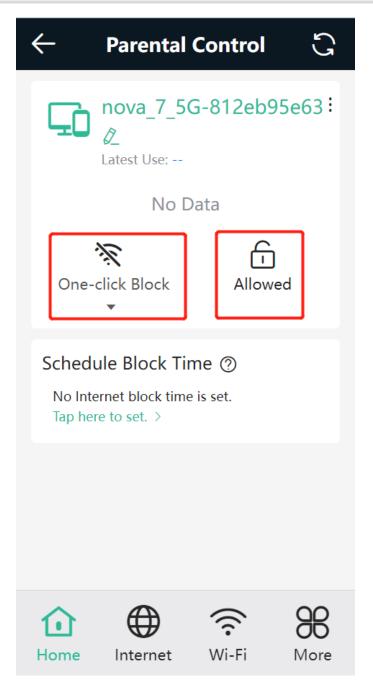
Tap Tap here to set to set the Internet block periods. In the block periods, the client cannot access the Internet.

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



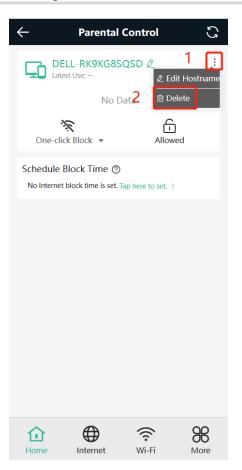
2. Blocking Internet Access Temporarily

- 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.



3.7 Configuring XPress

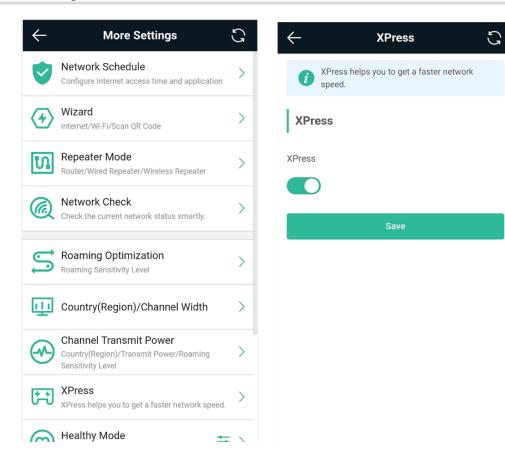
Mobile Phone View: Choose More > XPress.

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.

Web-based Configuration Guide

Networks Settings



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 \sim	
Effective Time	All Time \vee	(This Wi-Fi can only be used during the effective period.)
Hide SSID	(The SSID is hidden and must be n	nanually entered.)
Client Isolation	(Prevent wireless clients of this Wi	Fi from communicating with one anothe)r.
Band Steering	(The 5G-supported client will acce	ss 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.

Port Mapping NAT-DMZ	Add	×
i Port Mapping	* Name	
	Preferred Server HTTP	~
Port Mapping List + Add To Delete Selected	Protocol TCP	~
Up to 50 entries can be added.	External IP Address 172.17.96.147	
External I Name Protocol IP Port	* External Port/Range Example: X or X-X (Range: 1-6553	1
Address /	* 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>3.8.6 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	DHCP Clients	Static IP Addresses	DHCP Option	DNS Proxy
i LAN Settin	gs			
3	P 192.168.	110.1		
* Subnet M	ask 255.255.	255.0		
* M	AC ec:b9:70	:f2:26:99		
DHCP Ser	ver 🚺			
* St	art 192.168.	110.1		
* IP Co	unt 254			
* Lease Time(N	lin) 120			
	S	ave		

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 Setting	DHCP Clients	Static IP Addresses	ONS Proxy		
<i>i</i> View	v DHCP clients.				0
DHCP	Clients		Search by Hostname/IP/MAC	Q C Refresh	+ Batch Convert
Up to 3	00 IP-MAC bindings can	be added.			
	o. 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					(?
Static IP A	ddress List		Search by IP/MAC	Q	+ Add	1 Delete Selected	Ł
Up to 300 e	ntries can be added.						
No.		IP	MAC		1	Action	
			No Data				
< 1 →	10/page V					Tot	al O

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 proxy	is not mandatory. T	he device will obtain the	DNS server address fr	rom the uplink device by default.
Er	nable 🚺			
* DNS Se	erver Enter a DI	NS server address.		
	Sa	ve		

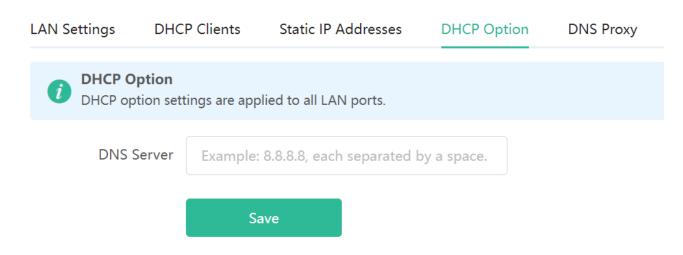
3.11 Configuring DHCP Option

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.



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	ynDNS	
<i>i</i> DynDNS		
* Usernam	ne	Register
* Passwor	rd	
* Domai	in	0
	Log In Delete	
Link Stati	15 -	

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 > Security > ARP List.

PC View: Choose More > Security > ARP List.

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

	List	Search by IP/N		rfaces. You can bind or filter the N + Add Ø Batch Bind	iac address.
Up t	to 64 IP-N	IAC bindings can be added.			
	No.	MAC	IP	Туре	Action
	1	c0:b8:e6:f8:8d:7c	172.17.96.1	Dynamic	
	2	c0:25:a5:81:c1:90	172.17.96.49	Dynamic	
Total 2	10/pag	je ~ < 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.

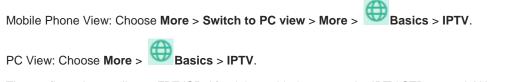
After the configuration, confirm that the IPTV STB is connected to the specified port properly. Take the following figure as an example, connect the IPTV STB to LAN1.

A 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>i</i> Provide Ir	nternet access and	d IPTV services through only one Ethernet cable.
IPTV/VLAN	I	
	IPTV 💽	
IPTV	Port Connect th	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)



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	
iptv/i	GMP (For FPT Service Pro	vider)
IPTV/IGN	IP	
Enable		
	Save	

3.15 Configuring WIFI/IGMP

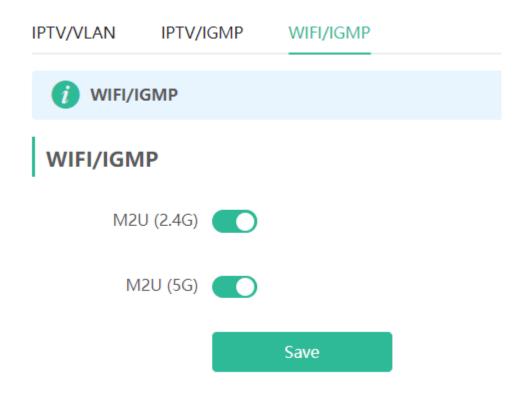
3.15.1 Overview

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. Click M2U(5G) to enable WIFI/IGMP for 5G wireless clients.



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 ratelimited. You are advised to enable hardware acceleration when doing speed measurement.

0	Hardware Acceleration After Hardware Acceleration is enabled, the Internet access speed will be improved and clients will not be rate-limited.
Enable	
	Save

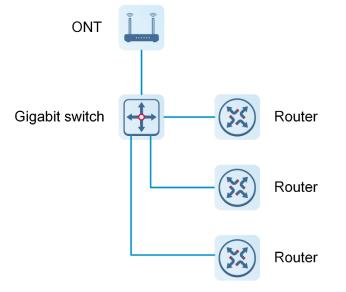
🛕 Caution

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	
PR 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	routers with the Ethernet cables.
AP Networking	
Flow Control	
Hardware Accolors ≪Collapse	iinn

(2) Choose Parallel Networking, and click Next.

(3) Check routers for the networking.

	Configure Networking N	lode	Select Devic	.e	Finis	h
elect the targ						
	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

(4) Click Next.

Configure Networking Mode	Select Device	Finish
	\bigcirc	
	Networking succeeded.	
	Admin URL: 10.44.77.253	
	Admin Password:11111111 You are advised to save the screenshots.	
	_	
	Finish	

(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 E	Data		
		312 10			
		http://10.44.77.253 Redirecting	16s		

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

Reyee	for Home	Clients	Internet		-0- -0- -0- More	English	٩	8
	28¢bps	R6		e Repeater	Wieless	+ Add Mesh Router		
Device Details Model: R6 MAC: EC:B9706F228:19 Handware Vrt: 1.00 WI-FI		Hostname: Reyee & Uptime: 6 hours 7 r Software Ver: ReyeeOS 1			SN: G1QP94H007804 Systime: 2023-05-28.0841:27			
 Primary WI F: @Reyee #2819 Security: Wes Ethernet status 			Guest Wi-Fi: (Security: Vi	PS				
Connected			NZ LAN3 WA 8.110.1 192.168:					

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	~	
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.
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		routers with the Ethernet cables.
AP Networking		
Flow Control		
Hardware Accolor «Collapse	otion	
	-	

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

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

	Configure Networking N	lode	Select Devic	e	Finish		
elect the targe							
2	Hostname	SN	Model	Networking Mode	MAC	Software Ver	
2	Reyee	G1QHCVL003838	M32	-	9C:2B:A6:F5:1B:36	ReyeeOS 1.219.1726	
2	Reyee	G1RP2JM00031C	EW300-PRO		28:D0:F5:08:48:BB	ReyeeOS 1.219.1728	

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

👔 Modem Networking		
Configure Networking Mode	Select Device	Finish
	Networking succeeded.	
	Admin URL: 10.44.77.253	
	Admin Password:11111111 You are advised to save the screenshots.	
	Finish	

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

Reyee	Home	Clients) Internet	🛜 Wi-fi	More			
	3.28kbps 3.02kbps	R6		Repeater	Wielass wied	+ Add Mesh Router		
Device Details Model: R6 MAC: EC98706F22819 Hardware Ver: 1.00 WI-FI		Hostname: Reyee & Uptime: 6 hours 7 m Software Ver: ReyeeOS 1.2			SN: G1QP94H007804 Systime: 2023-05-28 0841:27			
Primary Wi-F: @Reyee-12819 Security: Yes			Guest Wi-Fi: C Security: Ves					
Connected		LAN1 LAN 192.168						

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	~	AP Netw Switch the	rorking e router found on the loca	l network to AP mode v	with a single click.		
WLAN Work Mode	Ŷ	Model	IP	Work Mode	MAC	SN	Software Ver
⊘ Security	~	R6	192.168.110.1	ROUTER	EC:B9:70:F2:26:98	G1QP94H00703A	ReyeeOS 1.219.1813
S VPN	~	< 1 >	10/page v				Total
🗄 Advanced	^	Switch To A	AP Mode				
Port Mapping							
Dynamic DNS							
UPnP Settings							
Local DNS							
Reyee Mesh							
Reyee Mesh 3.0							
AP Networking							
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.

A 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	
<i>i</i> Smart Flow Control Intelligently adjust the network speed to ensure that	at each user shares the network fairly.
Enable If you want to test the	WAN rate, disable smart flow control first.
WAN Bandwidth * 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 bandwid	dth to the specified IP ad	dress or range. The priorit	y is sorted as follows: Cu	ustom Policy > Smar	rt Flow Control.
Policy List				+ Add	Batch Delete
Up to 30 entries car	n be added.				
Policy	/ Name	IP / IP Range	Bandwidth Type	Uplink	Rate
				No D	Pata

Add			×
* Policy Name			
* IP / IP Range	Example: 1.1.1.1-1.1.100		
Bandwidth Type	Shared ~		
Uplink Rate	* CIR Kbps * PIR Kbps ⑦		
Downlink Rate	* CIR Kbps * PIR Kbps ⑦		
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 > Advanced > UPnP Settings.

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

UPnP Settings UPnP (Universal Pl	l ug and Play) UPnP is a ne	w Internet protocol aimed at im	proving communication be	etween devices. 🕖
Enable 🧲	D			
	Save			
UPnP List				
Protocol	Арр	Client IP Address	Internal Port	External Port
		No UPnP Device		

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 VPN		<i>i</i> Connectivity de	tection		
🔁 Advanced	ſ	* Reachable Check	120		seconds
Port Mapping		Period			
Dynamic DNS		* Unreachable Check Period	5		seconds
UPnP Settings		renou			
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 Accelerat	ion				
Port Settings			Save		
Connectivity detecti	on				
«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.

VPN	Ý	<i>Wi-Fi Switch</i> It takes 30 seconds to activate settings after the Wi-Fi switch is turned on. The Wi-Fi function is disc
🖶 Advanced	^	
Port Mappin	ng	Wi-Fi Switch
Dynamic Di	NS	Save
UPnP Settin	igs	
Local DNS		
Reyee Mesh	ı	
Reyee Mesh	n 3.0	
AP Network	king	
Flow Contro	bl	
Hardware A	cceleration	
Port Setting	js	
Connectivit	y detection	
Wi-Fi Switch	h	
CWMP	l.	

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

Note

This feature is not supported on RG-EW300 PRO, RG-EW1200G PRO and RG-EW1200 routers.

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

PC View: Choose More-> VPN-> 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 O 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.

VPN Clie	ent List			Username/Password Q	+ Add 🔟 Batch Delete
Up to 30	entries can be added.				
	Username	Password	Network Mode	Status	Action
			No Data		

Add User		×
* Username	Please enter a username.	
* Password	Please enter a password.	\odot
Network Mode	PC to Router \sim	
Status		
	Cancel	ОК

3.26.3 Configuring PPTP Client

🚺 Note

This feature is not supported on RG-EW300 PRO and RG-EW1200 routers.

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

PC View: Choose More-> VPN-> 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 Tunne	l List	
PPTP Settings		
Enable		
РРТР Туре	O Server O Client	
* Username	Username of PPTP user	
* Password	Password of PPTP user	0
Interface	WAN ~	
Tunnel IP	O Dynamic O Static	
* Server Address	IP/Domain	
* Peer Subnet	Example: 192.168.110.0/24	
MPPE	• Disable O 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-> VPN-> 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.

Figure 3-2 Configuring OpenVPN Server

OpenVPN Tunnel List		
() OpenVPN		
Enable 🧲	D	
OpenVPN Type 🧿	Server O Client	
Server Mode	Account ~	
Protocol	UDP	
* Server Address	IP/Domain	
* Port ID	1194	1-65535
* VPN Subnet/Netmask	10.80.12.0/24	0
Client will access	Lan only CAN and Internet	
OpenVPN configuration	Export	
CA Certificate	Export	
	Save	

(4) (Optional) Advanced settings.

Click **Expand** to perform the following advanced settings, 若无特殊需求可保持默认. 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 M

Item	Description
	The device supports Account, Certificate and Account & Certificate authentication modes:
Server Mode	• Account mode: The correct account name, password, and CA certificate are required to connect to the server. The configuration is simple.
	• 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.
	All communication on OpenVPN is based on a single IP port, using UDP or TCP protocols.
Protocol	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.
Server Address	The server address used for client docking, which can be a domain name.
	The port used by the OpenVPN service process. The official port assigned to
Port ID	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	The IP address pool delivered to VPN clients, in the form of a network segment. The
Subnet/Netmask	first address in that segment is reserved by the server. For example, if 10.80.12.0/24 is set, then the VPN server address is 10.80.12.1.
Client will access	You can choose Lan Only or LAN and Internet

Item	Description
	 Lan only: The client can only access the LAN segment on the server. LAN and Internet: 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.
OpenVPN configuration	You can click Export to export the parameter configuration tar tar file of the client connected to the server. After decompression, this file can be used to set up the OpenVPN client.
CA Certificate	Click Export to export VPN server credentials to verify the communication with clients.
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 Clien	t List		Username/Password	Q + Add	🖻 Batch Delete
Up to 30 e	ntries can be added.				
	Username	Password	Status		Action
		No) Data		
< 1	> 10/page V				Total 0

Add User		×
* Username	Enter a username.	
* Password	Enter a password.	\bigcirc
Status		
	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-> VPN-> 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 pre-shared 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						
🧿 OpenVPN						
Enable						
OpenVPN Type 🔾	Server • Client					
Server Mode	Account & Certificate	~				
* Username	Username of OpenVpn use	er	•			
* Password	Password of OpenVpn use	r	8			
* Client Config	.ovpn	Browse				
	Save					

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

Parameter	Description
Server Mode	 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. 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.

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.

A 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 4-1 Access Point Settings

The de	vice is workir	ng in Router mode.			
0 R	outer	• Access Point	O Wireless Repeater	O WISP	
I			ed connection between a primary ort of the local router to the LAN		uter, extending network coverage.
Acc	ess Point				
		Check			

Figure 4-2	After 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.

1 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.				
Router Access Point Wireless Repeater 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				
* SSID 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.

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

					Wireless Repeat	ter
2.4G Wi-Fi Lis	t Select a target	Wi-Fi.			Primary Route	r
Q SSID	2.4G	∨ Re-sca	n		* SSID	RuiJie-ChengDu Select
SSID WiFi 77FC	BSSSID	Security	Channel	RSSI High	* Wi-Fi Password	
wing//re				Ŭ.	Local Router	
xiaoxi	50:64:2b:0e:77:fd	WPA2PSK	3	-28 dBm High	Local Router Wi-Fi	• New Wi-Fi O 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.
DDCI/0'	20.010 7.010	0.0551		-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**.

* Internet	DHCP	
internet	DHCF	, , , , , , , , , , , , , , , , , , ,
No username o	or password is required for DHCP c	lients.
No username o	or password is required for DHCP c	lients.

- (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 \	Ni-Fi.	×
		Q SSID	2.4G	✓ Re-sca	n
		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
 Primary Route * SSID * Wi-Fi Password 	RuiJie-ChengDu Select Select an SSID for the primary router.				
Local Router					
Local Router Wi-Fi	• New Wi-Fi O Same as Prir	mary Router Wi-Fi			
* SSID(2.4G)	RuiJie-ChengDu_plus				
* SSID(5G)	RuiJie-ChengDu_plus_5G				
Wi-Fi Password	A blank value indicates no encry	yption.			
	Previous	Save			

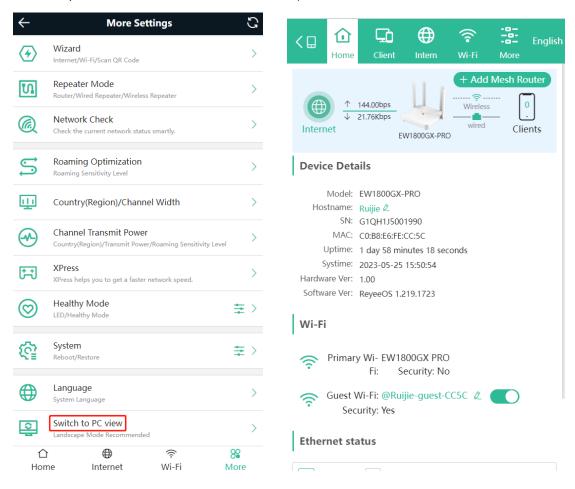
5 System Settings

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 \checkmark 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).



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
0	Change the login password. Please log in again with the new password later.	?
* Old Pa	assword	
* New P	assword	
* Confir	m Password	
	Save	

5.3 Remote Access

Mobile Phone View: Choose More > Switching to PC View > More >	
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> Configuring the Login Password to configure a strong and secure device management password.

Login Password	Session Timeout	Remote Access
<i>Remote Ac</i> Allow others	cess I login the device via Uf	RL link
Enal	ble 🚺	
Login U	JRL 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 Reset to restore factory settings.

🛕 Caution

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

Backup & Import	Reset
<i>i</i> Resetting the o	device will clear the current settings. If you want to kee
Preserve native co	nfiguration
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.

← Time	S
<i>i</i> Configure and view system time	?
Current Time 2022-01-12 04:24:54 Edit	
* Time Zone (GMT-5:00)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> Configuring System Time.

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	C
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.

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

A 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	G
Online upgrade will keep the current configuration. The device will be rebooted during upgrade.	
Current Version ReyeeOS 1	
New Version ReveeOS	
Description	
Description	

Тір

1. If your device cannot access the Internet, click Download File.

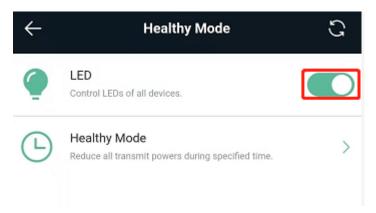
2. Choose Local Upgrade to upload the file for local upgrade.

Upgrade Now				
合	\bigoplus	((:	80	
Home	Internet	Wi-Fi	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 English v in the upper right corner of the page.
Click a red	quired language to switch the system language.
\leftarrow	Language C
0	中文
0	English
	繁體

5.10 Enabling Alerts

Indonesia

Mobile Phone View: Choose More > Switch to PC > More > Oiagnostics > 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.
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	Please check the IP address of the downlink device.

Alerts	Suggested Action
use.	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 Ruijie technical support.
The device is not connected to the Ruijie 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.

- Network Check	S
Network Check	0
🐇 In Progress	
46%	
WAN/LAN Cable	Ø
Auto-Negotiated Speed	Ø
WAN Port	0
DHCP-Assigned IP Address	Ø
LAN & WAN Address Conflict	0
Loop	Ø
DHCP Server Conflict	0

5.12 Network Diagnosis Tools

1. Network Test Tool

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

PC View: Choose More > Oiagnostics > 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 Network Tools				
Tool	Ping	 Traceroute 	⊖ DNS	Lookup
IP Address/Domain	www.go	oogle.com		
* Ping Count	4			
* Packet Size	64			Bytes
		Start	Sto	р
Result				

2. Packet Capture Tool

1 Note

This feature is not supported on RG-EW1200 routers.

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

PC View: Choose More > Oliagnostics > 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.

A Caution

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

i Packet Obtainir	ng			?
Interface	ALL	~		
Protocol	ALL	~		
IP Address				
File Size Limit	2M	~	Available Memory 153.43 M	
Packet Count Limit	500	~		
	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.

R	① □ ● 奈 器 English ~ 器 会 Home Clients Interne Wi-Fi			
	Backup & Import Reset			
((*	If the target version is much later than the current version, some			
⊘ ≞	It is recommended to choose Restore before importing the profile. The device will be rebooted automatically later.			
©	Backup Profile			
-0- -0-	Backup Profile Backup			
	Import Profile			
	File Path Please select a file. Browse			
	Import			

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	t 3600		seconds
	Save		