

**Reyee E5**  
**Reyee OS 1.305**

**User Manual**



# 1 Product Introduction

## 1.1 Overview

Reyee RG-E5 is a Wi-Fi 6 Gigabit dual-band mesh router designed for large flat spaces, villas, small shops, SOHO, and similar scenarios. It is designed to provide next-generation high-quality Wi-Fi services. Additionally, this router is equipped with eight independent power amplifiers for enhanced signal strength. RG-E5 provides one 10/100/1000Mbps WAN ports and four 10/100/1000Mbps LAN ports, with a maximum access bandwidth of 1000Mbps. The router supports the new-generation Wi-Fi 6 standard, which offers the maximum wireless rate 800Mbps at 2.4GHz and 2400Mbps at 5 GHz, and reaches 3200Mbps concurrently. RG-E5 supports local and remote management platforms, Eweb and Reyee Router App. This wireless router also provides multiple functions related to home care, including the Parental Control, Health Mode, Xpress Mode, and more. It is an exclusively designed Smart Life Kit that meets the needs of all household scenarios.

## 1.2 Appearance

### 1.2.1 Front Panel

Figure 1-1 Front Panel



**Table 1-1 LEDs**

No.	LED	Description
1	System LED	<ul style="list-style-type: none"> <li>• Solid on: The system is operating normally, and is connected to the Internet.</li> <li>• Fast blinking: The system is starting up/resetting/upgrading firmware.</li> <li>• Slow blinking: No Internet connection.</li> </ul>
2	Mesh LED	<ul style="list-style-type: none"> <li>• Solid green: Best connection.</li> <li>• Solid orange: Good connection.</li> <li>• Solid red: No connection.</li> <li>• Blinking green: Pairing is in progress.</li> </ul>

### 1.2.2 Rear Panel

**Figure 1-2 Rear Panel**



Table 1-2 Ports and Buttons

No.	Component	Description
1	Reset button	<ul style="list-style-type: none"> <li>Press the reset button for less than 2s: No action is triggered.</li> <li>Press and hold the reset button for more than 10s: Resets the device to factory default settings.</li> </ul>
2	DC power connector	Connects to a DC 12 V/2.5 A power adapter for power supply.
3	Gigabit LAN port	10/100/1000Base-T Ethernet downlink ports.
4	Gigabit WAN port	10/100/1000Base-T Ethernet uplink port.

## 1.3 Technical Specifications

Table 1-3 Technical Specifications

<b>Radio Design</b>	2.4 GHz and 5 GHz dual-radio, four-stream
<b>Protocols and Standards</b>	Supports 802.11ax, 802.11ac, and 802.11a/b/g/n standards for simultaneous operation
<b>Operating Frequency Bands</b>	802.11b/g/n/ac: 2.4 GHz to 2.4835 GHz 802.11a/n/ac/ax: 5.1 GHz: 5.150 GHz to 5.350 GHz, 5.4 GHz: 5.470 GHz to 5.725GHz, 5.8 GHz: 5.725 GHz to 5.850 GHz
<b>Antenna Type</b>	External flat omni-directional antenna 2.4 GHz: 5 dBi 5.1 GHz: 5 dBi 5.8 GHz: 5 dBi
<b>Spatial Streams</b>	2.4 GHz: 4 x 4 MIMO 5 GHz: 4 x 4 MIMO
<b>Maximum Data Rate</b>	2.4 GHz: 800 Mbps 5 GHz: 2402 Mbps Combined: 3200 Mbps
<b>Modulation Schemes</b>	CCK(DSSS)/BPSK/QPSK/OFDM/16QAM/64QAM/256QAM/1024QAM

<b>Receive Sensitivity</b>	<p>2.4 GHz: 20 MHz</p> <p>802.11b: -91 dBm (1 Mbps)</p> <p>802.11g: -91 dBm (6 Mbps), -72 dBm (54 Mbps)</p> <p>802.11n: -90 dBm (MCS0), -70 dBm (MCS7)</p> <p>802.11ac: -90 dBm (MCS0), -64 dBm (MCS8)</p> <p>5 GHz: 20 MHz</p> <p>802.11n: -85 dBm (MCS0), -67 dBm (MCS7)</p> <p>802.11a: -89 dBm (6 Mbps), -72 dBm (54 Mbps)</p> <p>802.11ac: -85 dBm (MCS0), -60 dBm (MCS8)</p>
<b>Max. Transmit Power</b>	<p>2400 to 2483.5 MHz, max output power <math>\leq</math> 30 dBm &amp; EIRP <math>\leq</math> 36 dBm</p> <p>5150 to 5250 MHz, max output power <math>\leq</math> 30 dBm &amp; EIRP <math>\leq</math> 36 dBm</p> <p>5250 to 5350 MHz, max output power <math>&lt;</math> 24 dBm &amp; EIRP <math>\leq</math> 30 dBm</p> <p>5470 to 5725 MHz, max output power <math>&lt;</math> 24 dBm &amp; EIRP <math>\leq</math> 30 dBm</p> <p>5725 to 5825 MHz, max output power <math>\leq</math> 30 dBm &amp; EIRP <math>\leq</math> 36 dBm</p>
<b>Power Step</b>	25%
<b>Dimensions ( W x D x H)</b>	190 mm x 190 mm x 41 mm (7.48 in. x 7.48 in. x 1.61 in.) (excluding antennas)
<b>Weight</b>	1.3 kg (2.87 lbs.) (excluding packaging)
<b>Service Ports</b>	<p>Rear panel: 1 x 10/100/1000Base-T uplink port (WAN port)</p> <p>Rear panel: 4 x 10/100/1000Base-T downlink ports (LAN ports)</p>
<b>Management Port</b>	N/A
<b>LED</b>	1 x system LED, 1 x mesh LED
<b>Power Supply</b>	AC/DC power adapter (12 V/2.5 A DC)
<b>Max. Power Consumption</b>	$<$ 30 W
<b>Bluetooth 5.0</b>	Not supported
<b>Environment</b>	Operating temperature: $-10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ ( $14^{\circ}\text{F}$ to $104^{\circ}\text{F}$ )

	Storage temperature: $-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ ( $-40^{\circ}\text{F}$ to $+158^{\circ}\text{F}$ )
	Operating humidity: 5% to 95% RH (non-condensing)
	Storage humidity: 5% to 95% RH (non-condensing)
<b>Installation</b>	Placed on a desktop
<b>Certification</b>	FCC, cTUVus
<b>MTBF</b>	> 25000 hours

## 1.4 Power Supply Technical Specifications

This router supports 12 V/2.5 ADC power supply, and is supplied with a 12 V/2.5 ADC power adapter. Technical specifications of the DC power connector:

Inner Diameter	Outer Diameter	Depth
2.10 $\pm$ 0.1 mm (0.08 $\pm$ 0.002 in.)	5.50 $\pm$ 0.05 mm (0.22 $\pm$ 0.05 in.)	11.5 mm (0.45 in.)

## 1.5 Installing the Router

- Installing the router on a flat surface

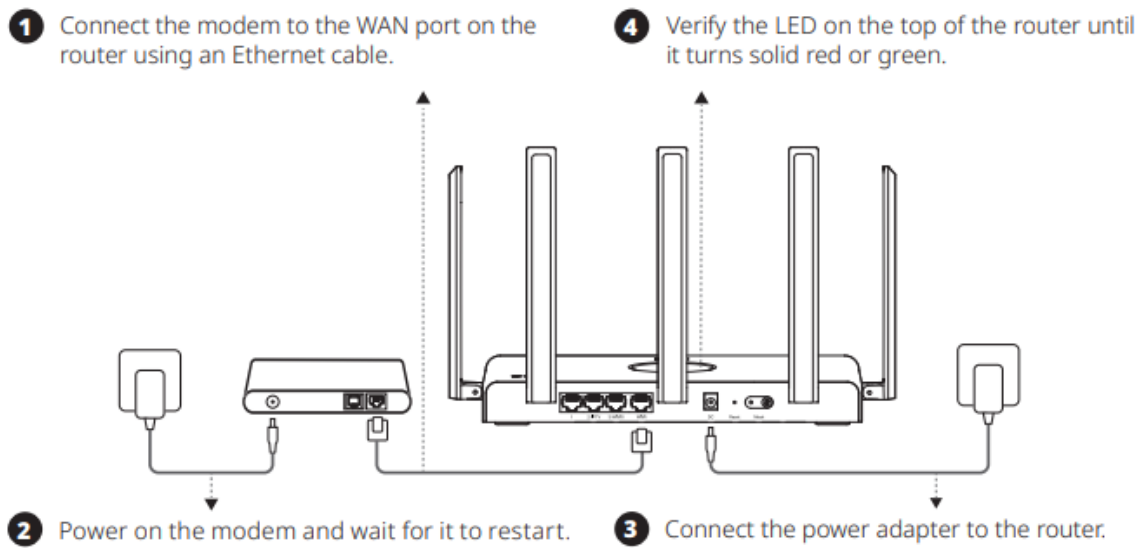
The router can be placed on a horizontal surface, such as on a shelf or desktop.

## 1.6 Connecting Cables

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### Note

- If you use a modem for Internet access, power off your modem and remove the backup battery if it has one.
  - If you do not have a modem, you can connect the Ethernet port in the wall directly to the WAN port of your router. Once connected, proceed to follow steps 3 and 4.
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## 1.7 Compliance Statements

The router complies with the European Commission (EC) Regulation No. 1275/2008 and Regulation No. 801/2013

How to turn on or off Wi-Fi: 1. Log in to the web interface of the router, choose **More > Advanced > Wi-Fi Switch**, and click **Wi-Fi Switch** to turn Wi-Fi on or off. 2. Network standby power: < 8 W. 3. Default time for power management: The product enters network standby power mode immediately after data transmission stops. 4. You are advised to unplug the power cord if the product is not used for a long time. 5. For details, log in to the product website [https:// www.ireyee.com](https://www.ireyee.com) to view the related document.

Use only power supplies listed in the user instructions.

Input: 100-240V~ 50/60Hz 0.8A Output: 12V 2.5A 30.0W

Power supply manufacturer:

1. Chenzhou Frecom Electronics Co., Ltd.

2. Hunan Frecom Electronics Co., Ltd.

Model: F30L7-120250SPACP

# 2 Fast Internet Access

## Note

This home Wi-Fi router supports two management and configuration options: the web interface and the Reyee Router app. You can conveniently access and manage your router settings through either option. This document introduces the procedures for configuring the router via the web interface.

You can scan the QR code below to download the Reyee Router app. For details about app instructions, see Reyee Router APP User Guide(V2.0).



## 2.1 Connecting to the Router

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

- Wired Connection

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

- Wireless Connection

On a mobile phone or laptop, search for a Wi-Fi network **@Reyee-sXXXX** (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.

## 2.2 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 2-1 Default Configuration

Item	Default Value
Device IP address (http or https)	192.168.110.1



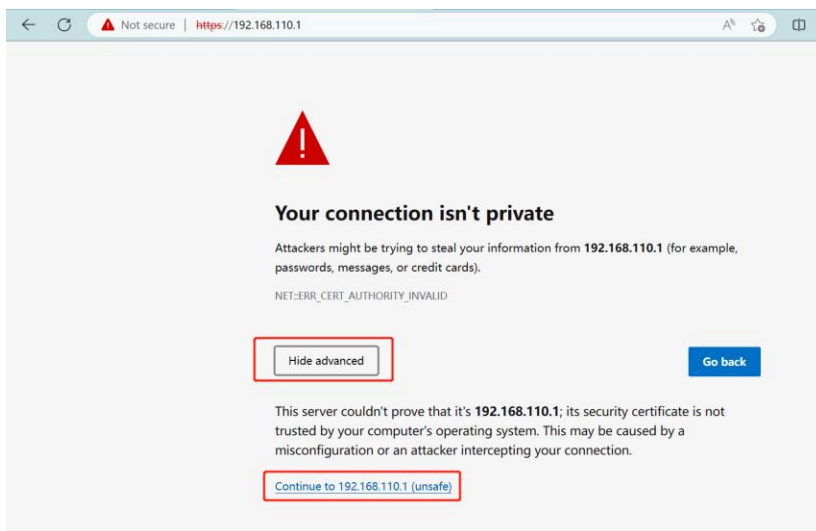
Item	Default Value
Username/Password	No username and password are required at your first login and you can configure the router directly.

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

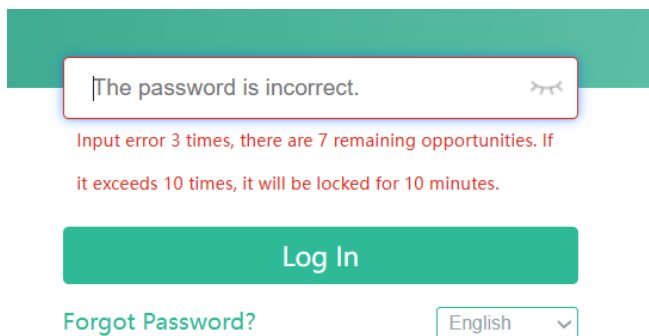
- Supported browsers: Google Chrome, and Internet Explorer 9 to 11. If an unsupported browser is used, you may encounter various errors or problems such as garbled text or formatting errors.

**Note**

If you enter <https://192.168.110.1> 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.



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.



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.

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**⚠ 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.

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## 2.3 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.

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**ℹ Note**

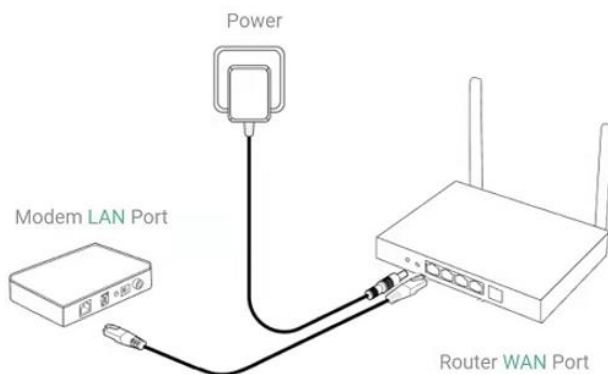
Wired connection can greatly improve the network stability. You are advised to use wired connection.

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## 2.4 Primary Router Mode

### 2.4.1 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.

## 2.4.2 Configuration Steps

### 1. Configuring the Internet Connection Type

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

The screenshot displays the Reyee router's configuration interface. On the left, the 'Welcome to Use Reyee Router' screen features a 'Configure' button and an option to 'Automatically upgrade the router when a new version is available.' On the right, the 'Network Status' panel shows a warning: 'No cable is detected. Plug in cables according to the diagram.' A diagram illustrates the connection between a 'Modem LAN Port' and a 'Router WAN Port'. Below the diagram, there is a 'Recheck' button and options for 'Wireless Repeater' and 'WISP'. A note states: 'You can also "perform configuration without a cable"'. The interface includes a language selector set to 'English' and a router model identifier 'E5'.

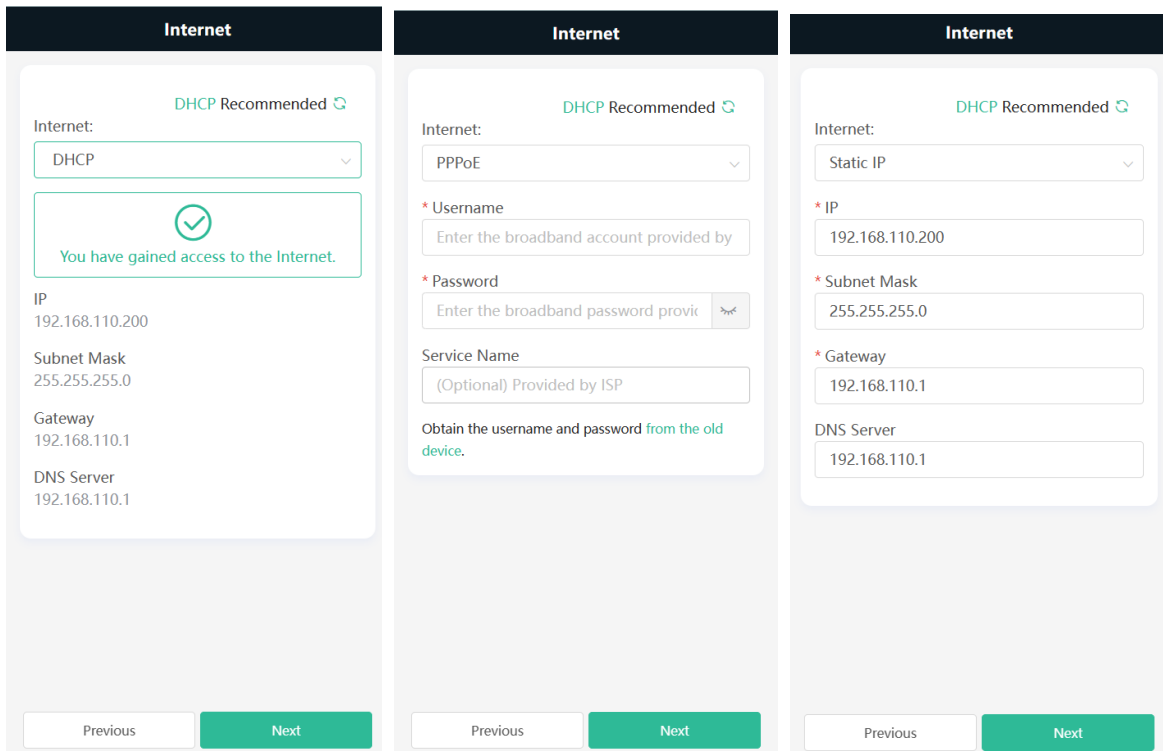
If the Ethernet cable is unplugged, you are prompted to connect the Ethernet cable first. Click **perform configuration without a cable** below to configure and connect the Ethernet cable.

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

#### Caution

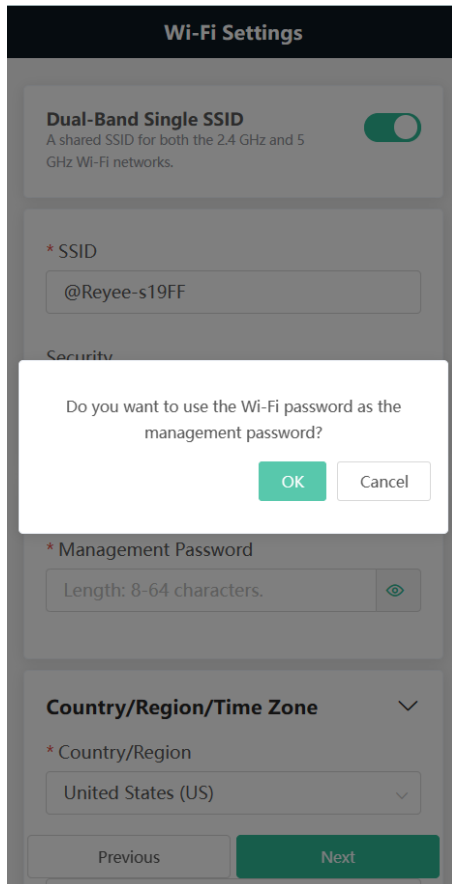
If the IP address delivered by the primary router is also 192.168.110.0, the router automatically changes the IP address of its LAN interface to 192.168.111.1 to avoid conflicts. Do not change the configuration of the primary router by mistake. You can differentiate routers by checking the router model and Wi-Fi information on the home page.

- **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**.

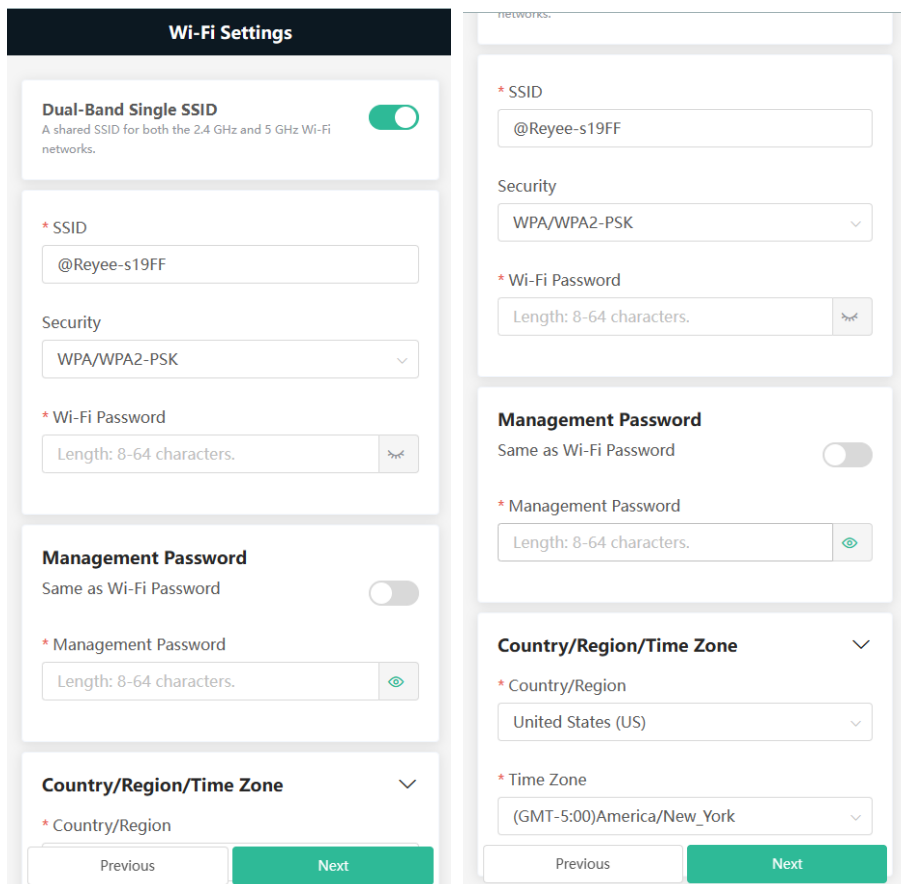


## 2. Configuring a Wi-Fi Network

Click **OK** to set the management password same as the Wi-Fi Password. Click **Cancel** to set a new management password on the **Wi-Fi Settings** page.



On the **Wi-Fi Settings** page, you can set the network name and password for the host Wi-Fi network.




- **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 Single SSID** 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 [2.3](#).

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 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.

- **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 encryption types supported include: Open, WPA-PSK, WPAWPA2-PSK, WPA2-PSK, WPA2-PSK/WPA3-SAE, and WPA3-SAE. You are advised to enable encryption and set a strong password to improve 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.


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

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.

### 3. Configuring IoT Wi-Fi

A separate network for IoT devices. Enable it to ensure reliable connectivity for your IoT devices.

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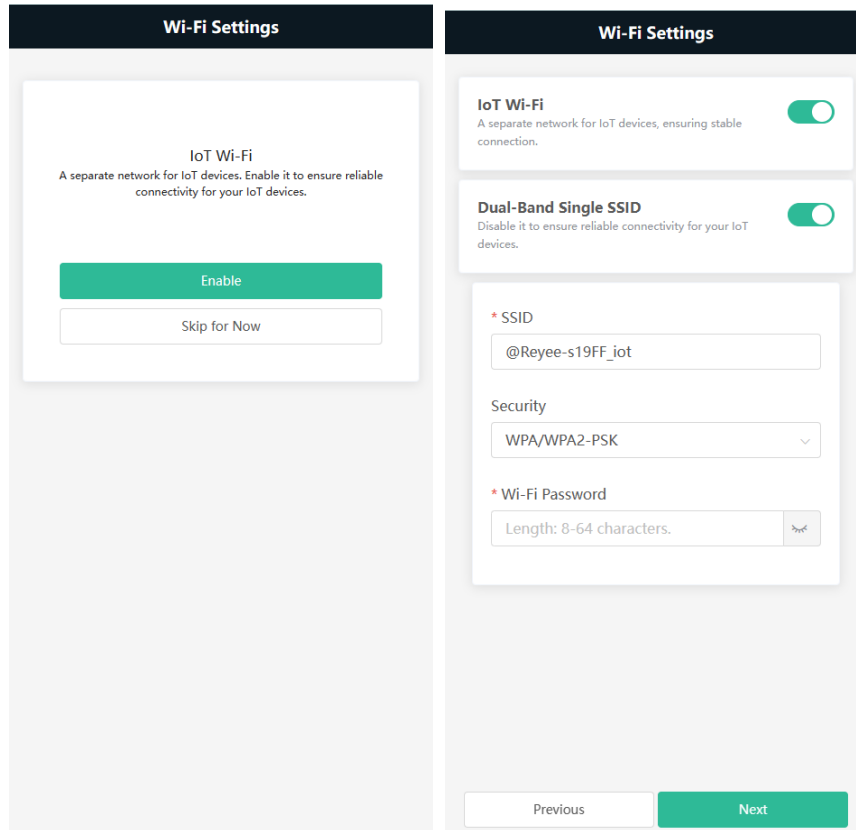
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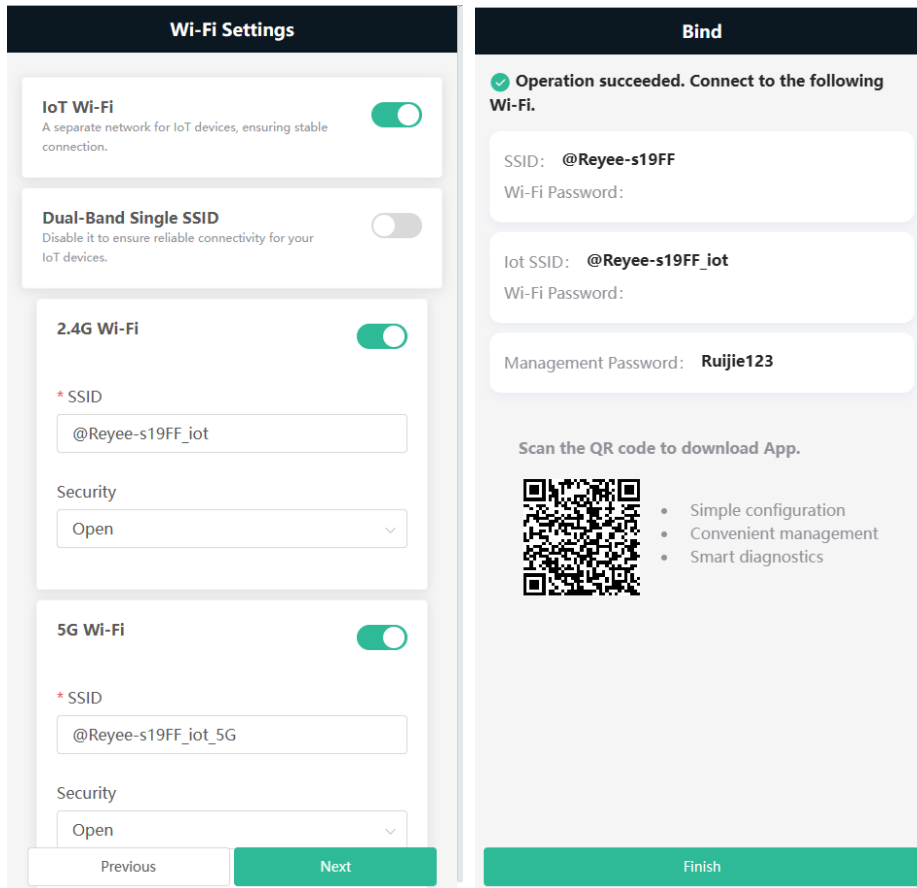
Only smart home devices supporting IEEE 802.11b/g standards can connect to the IoT Wi-Fi.

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**Dual-Band Single SSID** is enabled by default for the IoT Wi-Fi, and the 2.4G SSID will be consistent with the 5G SSID. When this function is disabled, you can disable 2.4G or 5G Wi-Fi networks separately, and set different passwords for 2.4G and 5G SSIDs.

Click **Next**. Wait for a certain period of time for the settings to apply.





### 2.4.3 Verification and Testing

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

**Note**

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



**Note**

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

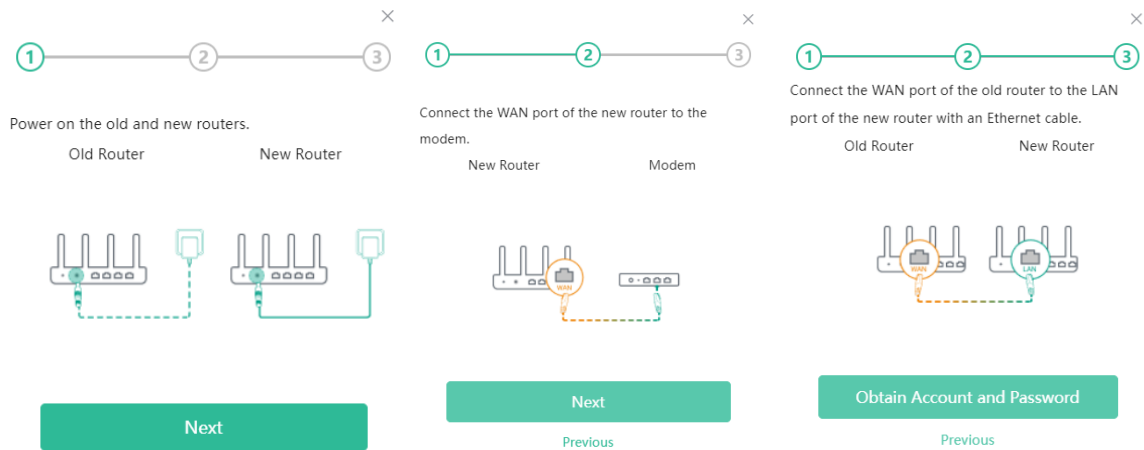




## 2.4.4 Forgetting the PPPoE Account

- 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.

The screenshot shows the 'Internet' configuration page. At the top, there is a black header with the word 'Internet' in white. Below the header, there is a section titled 'Internet:' with a 'DHCP Recommended' link and a refresh icon. A dropdown menu is set to 'PPPoE'. Below this, there are two required fields: '\* Username' and '\* Password'. The '\* Username' field has a placeholder text 'Enter the broadband account provided by ISP.' The '\* Password' field has a placeholder text 'Enter the broadband password provided by ISP.' and a toggle icon. Below these fields is a 'Service Name' field with a placeholder text '(Optional) Provided by ISP'. At the bottom of the form, there is a text box with the text 'Obtain the username and password from the old device.' The text 'from the old device.' is highlighted with a red box. At the bottom of the page, there are two buttons: 'Previous' and 'Next'.



## 2.5 Secondary Router Mode

### 2.5.1 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.

### 2.5.2 Configuration Steps

#### 1. Wired Connection

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

#### **i** Note

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

#### 2. Wireless Connection by using the Reyee Mesh function

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

- (3) Place the secondary router in a location where the Wi-Fi signal needs to be extended, and power it on.

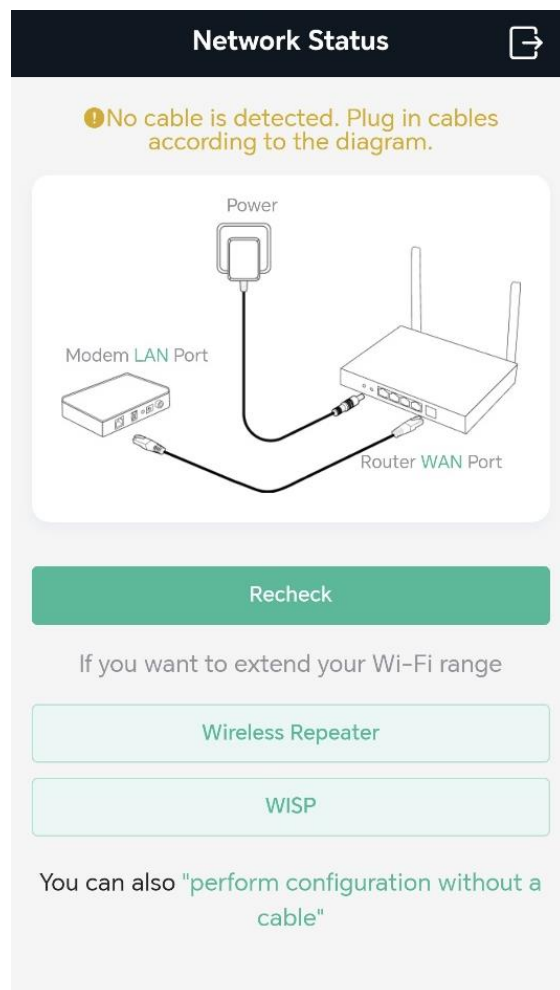
**⚠ Caution**

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

### 3. Wireless Connection by Web configuration

Connect the router to a power supply and log in the Web configuration page, for details, you can see [2.1 Connecting to the Router](#) and [2.2 Logging in](#).

Click **Configure** without connecting an Ethernet cable.

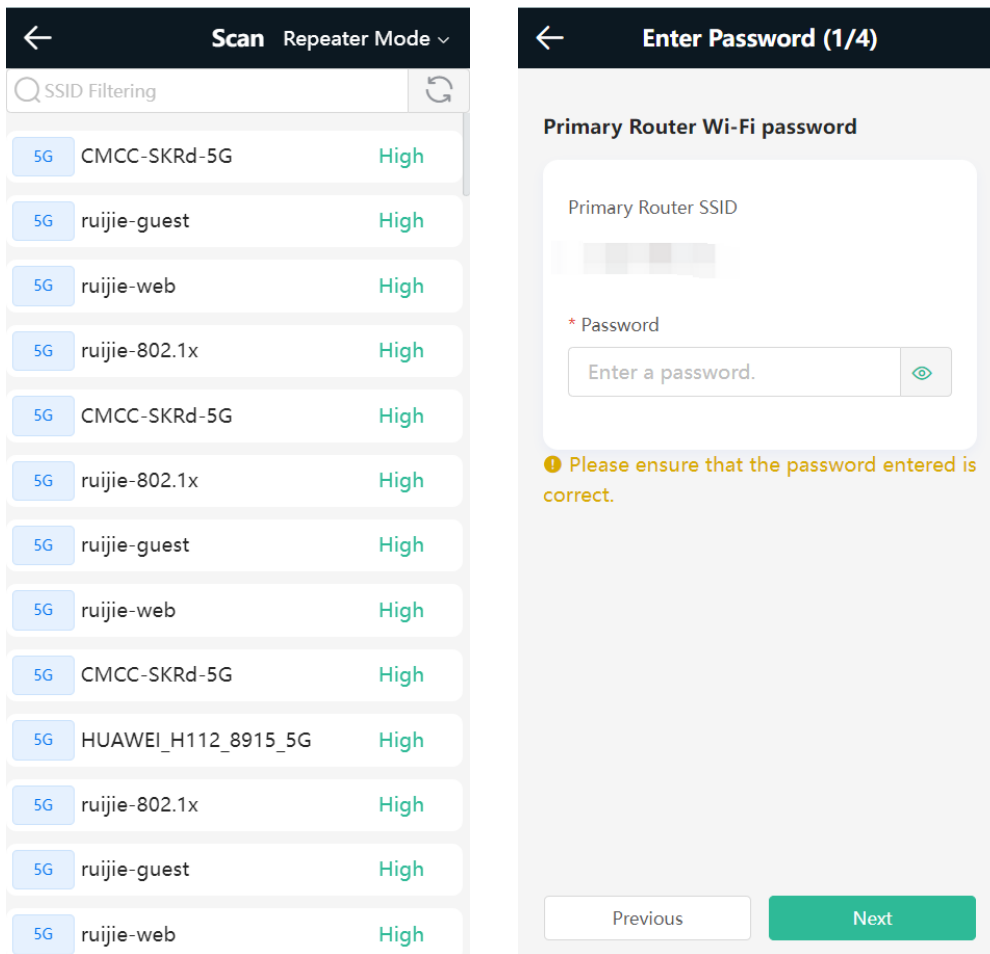


- Wireless Repeater

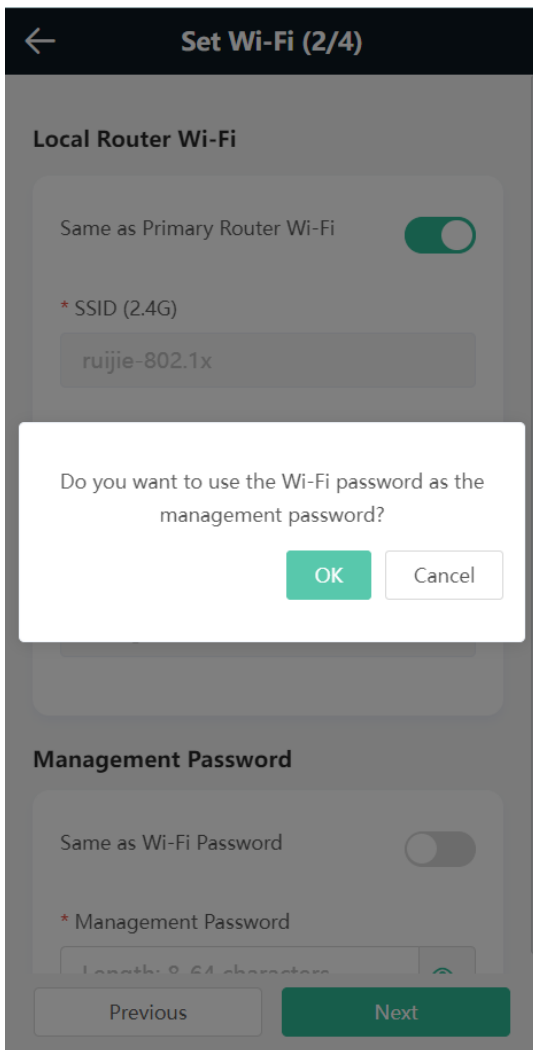
- (1) Select Wireless Repeater.

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

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



- (2) Click **Next**. On the **Set Wi-Fi** page that opens, enter the Wi-Fi SSID and password. Click **OK** to set the management password same as the Wi-Fi Password. Click **Cancel** to set a new management password on the **Set Wi-Fi** page.



You can select **Same as Primary Router Wi-Fi**, in which Wi-Fi SSID and password will be same as the primaryrouter Wi-Fi, or set a new Wi-Fi SSID and password.

Enter management password for the device: Click **Same as Wi-Fi Password** to set the Management Password same as the Wi-Fi Password.

← **Set Wi-Fi (2/4)**

**Local Router Wi-Fi**

Same as Primary Router Wi-Fi

\* SSID (2.4G)  
rujje-802.1x

\* SSID (5G)  
rujje-802.1x

Wi-Fi Password  
WangxiaoRJ123

**Management Password**

Same as Wi-Fi Password

\* Management Password  
Length: 8-64 characters

Previous Next

### (3) Configuring IoT Wi-Fi

A separate network for IoT devices. Enable it to ensure reliable connectivity for your IoT devices.

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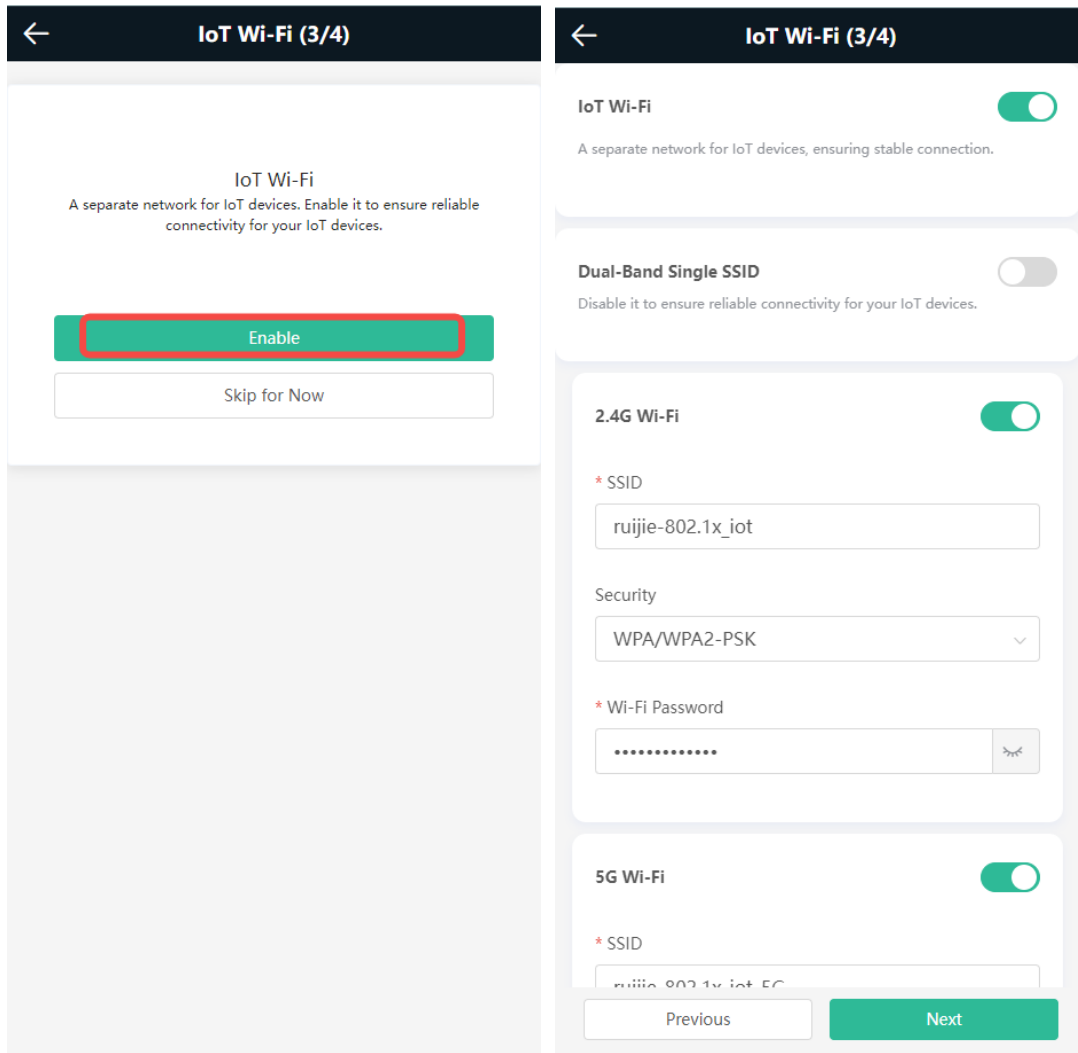
#### Note

Only smart home devices supporting IEEE 802.11b/g standards can connect to the IoT Wi-Fi.

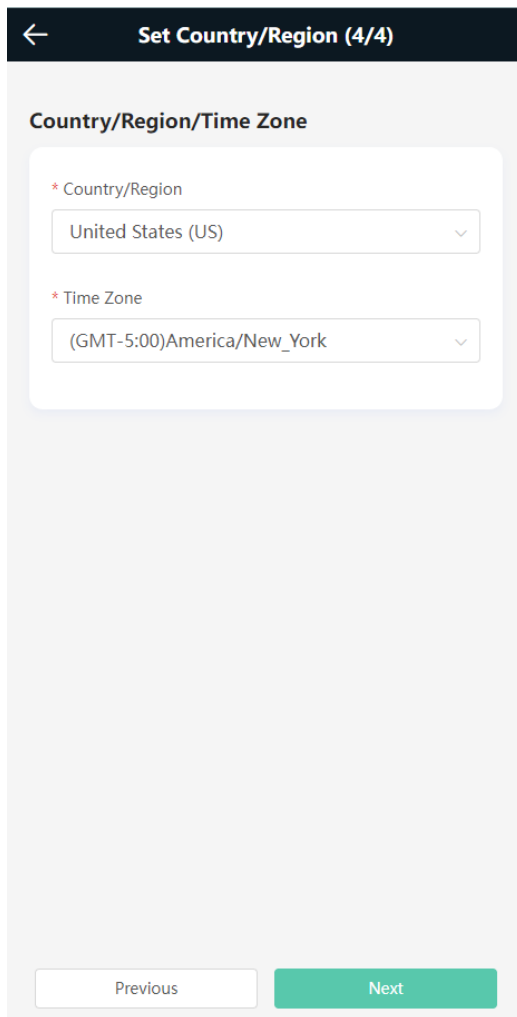
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**Dual-Band Single SSID** is enabled by default for the IoT Wi-Fi, and the 2.4G SSID will be consistent with the 5G SSID. When this function is disabled, you can disable 2.4G or 5G Wi-Fi networks separately, and set different passwords for 2.4G and 5G SSIDs.

Click **Next**. Wait for a certain period of time for the settings to apply.



- (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 (4/4)**

**Country/Region/Time Zone**

\* Country/Region  
United States (US) ▾

\* Time Zone  
(GMT-5:00)America/New\_York ▾

Previous Next

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

- **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

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**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.

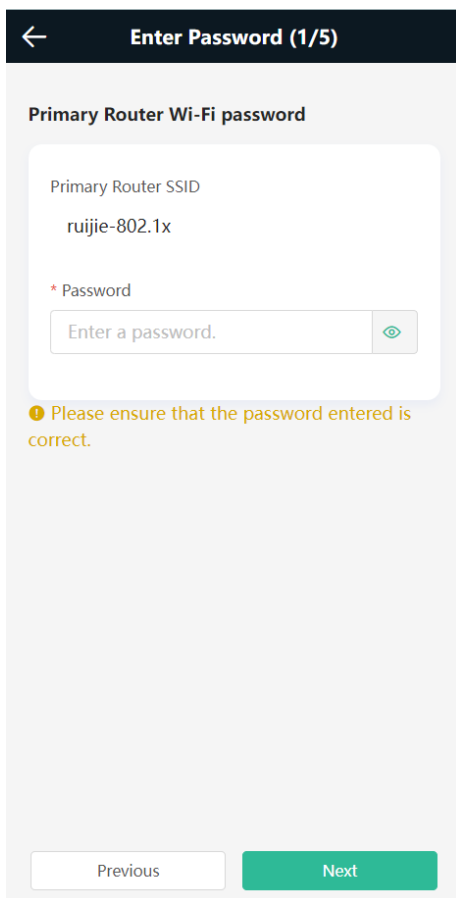
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(1) Click **WISP**. Select the Wi-Fi of the primary router.



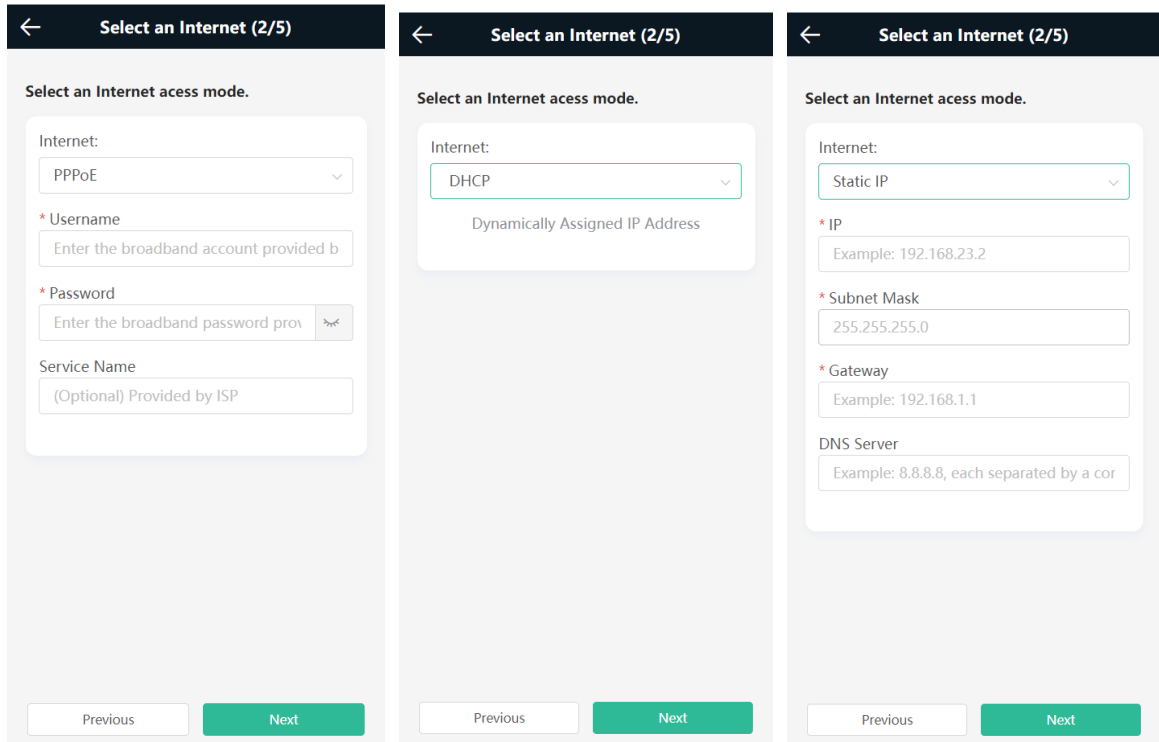


- (2) Enter the password of the primary router Wi-Fi.

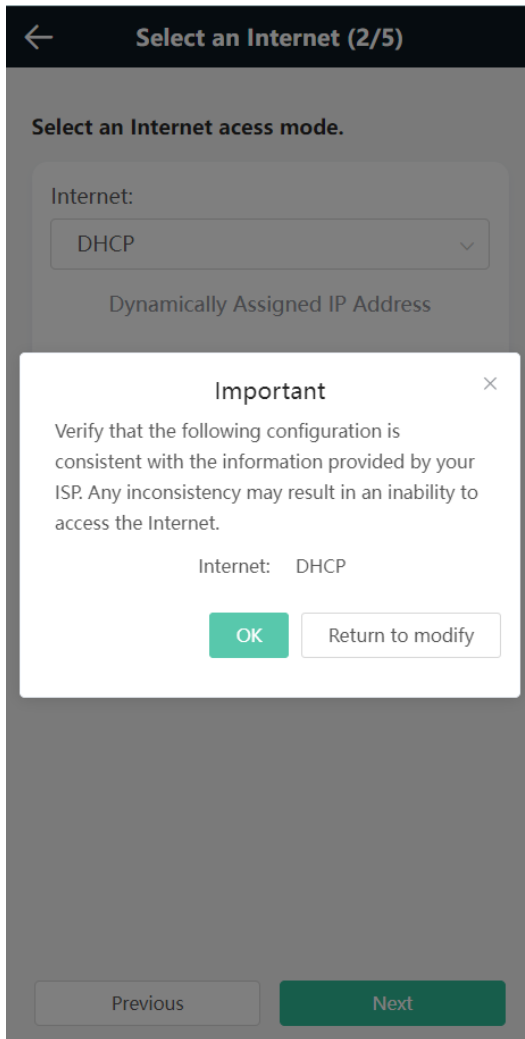


- (3) Click **Next**. On the **Select an Internet** page that opens, configure an Internet access mode.

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

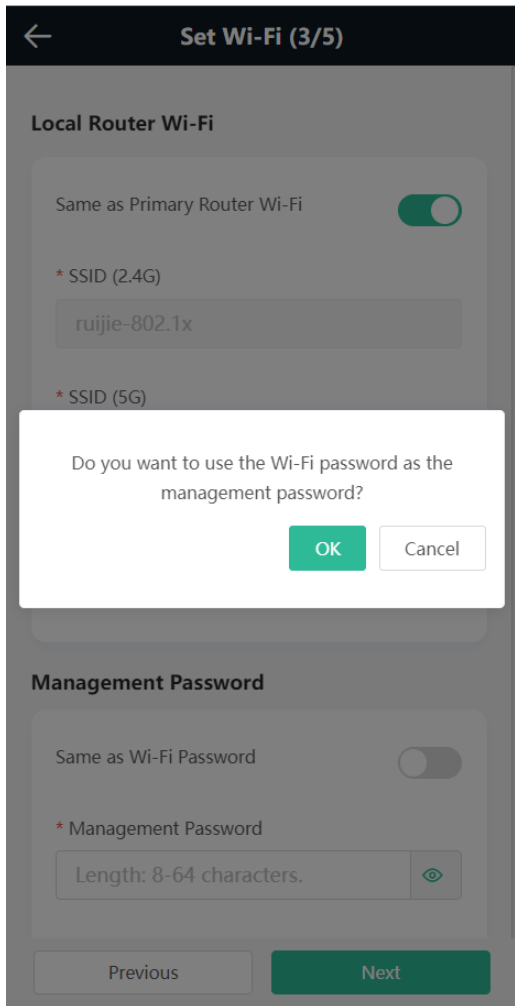


Click **Next**. Verify the Internet settings. Then, click **OK**.



- (4) On the **Set Wi-Fi** page that opens, enter the Wi-Fi SSID and password and management password for the device.

Click **OK** to set the management password same as the Wi-Fi Password. Click **Cancel** to set a new management password on the **Wi-Fi Settings** page.



- You can select **Same as Primary Router Wi-Fi**, in which Wi-Fi SSID and password will be same as the primaryrouter Wi-Fi, or set a new Wi-Fi SSID and password.
- Enter management password for the device: Click **Same as Wi-Fi Password** to set the Management Password same as the Wi-Fi Password.

← Set Wi-Fi (3/5)

**Local Router Wi-Fi**

Same as Primary Router Wi-Fi

\* SSID (2.4G)  
ruijie-802.1x

\* SSID (5G)  
ruijie-802.1x

Wi-Fi Password  
WangxiaoRJ123

**Management Password**

Same as Wi-Fi Password

\* Management Password  
Length: 8-64 characters.

Previous Next

#### (5) Configuring IoT Wi-Fi

A separate network for IoT devices. Enable it to ensure reliable connectivity for your IoT devices.

---

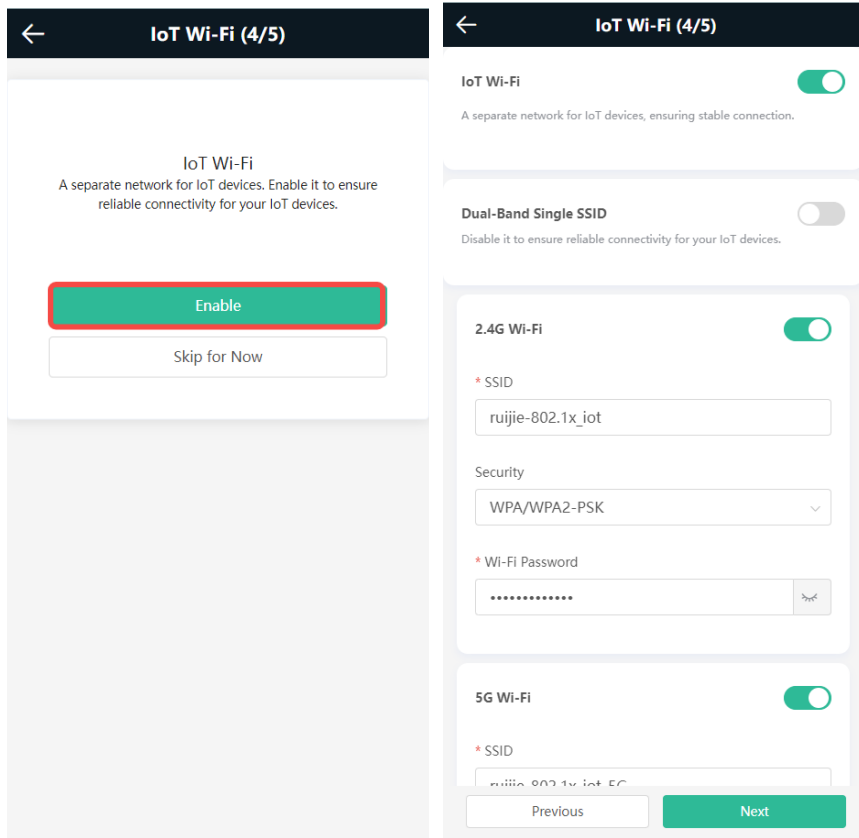
#### Note

Only smart home devices supporting IEEE 802.11b/g standards can connect to the IoT Wi-Fi.

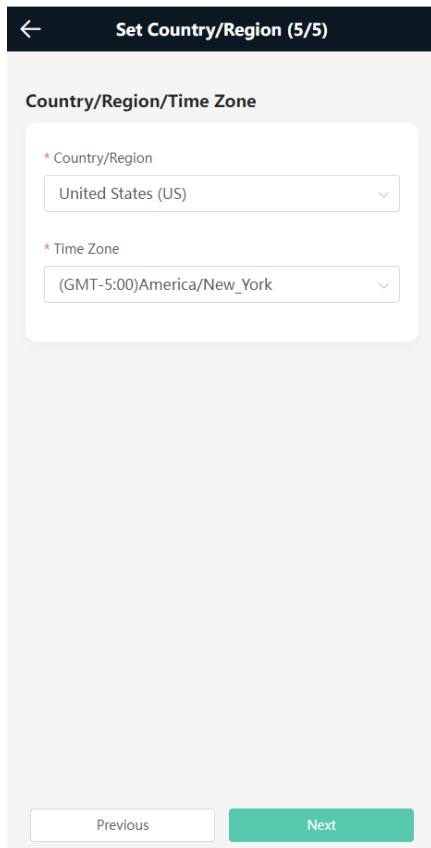
---

**Dual-Band Single SSID** is enabled by default for the IoT Wi-Fi, and the 2.4G SSID will be consistent with the 5G SSID. When this function is disabled, you can disable 2.4G or 5G Wi-Fi networks separately, and set different passwords for 2.4G and 5G SSIDs.

Click **Next**. Wait for a certain period of time for the settings to apply.



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



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

### 2.5.3 Verification and Testing

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

### 2.5.4 Manage the Device After Successful Setup

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

#### 1. Connecting the Device

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

---

##### Note

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

---

- Wired Connection

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

- Wireless Connection

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

#### 2. Logging In to the Web Interface

- Login using the default IP address

Enter the default IP address (192.168.110.1) or <https://192.168.110.1> in the address bar of your browser, and press **Enter**. The login page is displayed. For details, see [2.2 Logging in](#).

- Login using an obtained IP address

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

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

If you encounter any issues during this process, feel free to seek help from the official website at [www.ireeye.com](http://www.ireeye.com) or reach out to customer service by emailing [techsupport@ireeye.com](mailto:techsupport@ireeye.com).

## 2.6 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.

### 2.6.1 Performing Mesh Pairing through the Mesh Button

(1) Make the primary router connect to the Internet.

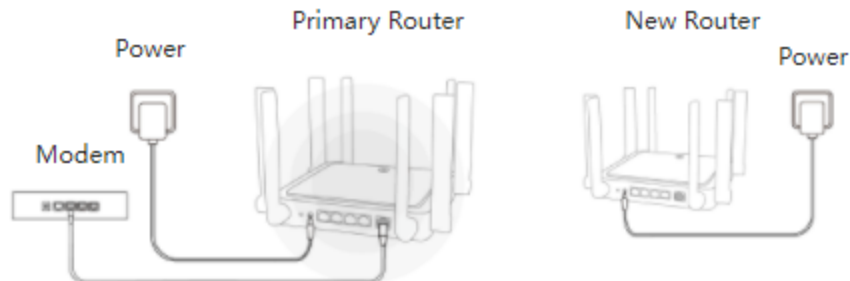
- (2) Place the new router 2 meters (around 6.5ft) away from the primary router and power on the new router. The system LED of the new router starts to blink slowly.

---

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

---

- (4) Place the secondary router in an area where the Wi-Fi signal is weak or nonexistent, and power it on again. Wait for 3 to 5 minutes until the Reyee Mesh indicator on the secondary router turns solid on. The original SSID of the secondary router (@Reyee-sXXXX) will disappear and both routers will broadcast the same SSID, indicating that Mesh networking succeeds.

## 2.6.2 Configuring Mesh Pairing on the Management Page

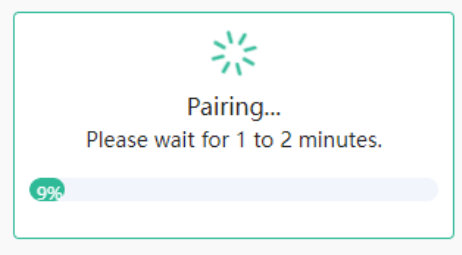
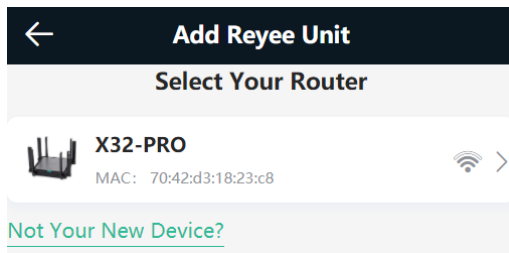
Mobile Phone View: Choose **Home** > **+Add Reyee Unit** > **next**.

PC View: Choose **Home** > **+Add Reyee Unit** > **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.





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


**⚠ Caution**

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



### 2.6.3 Managing Secondary Router

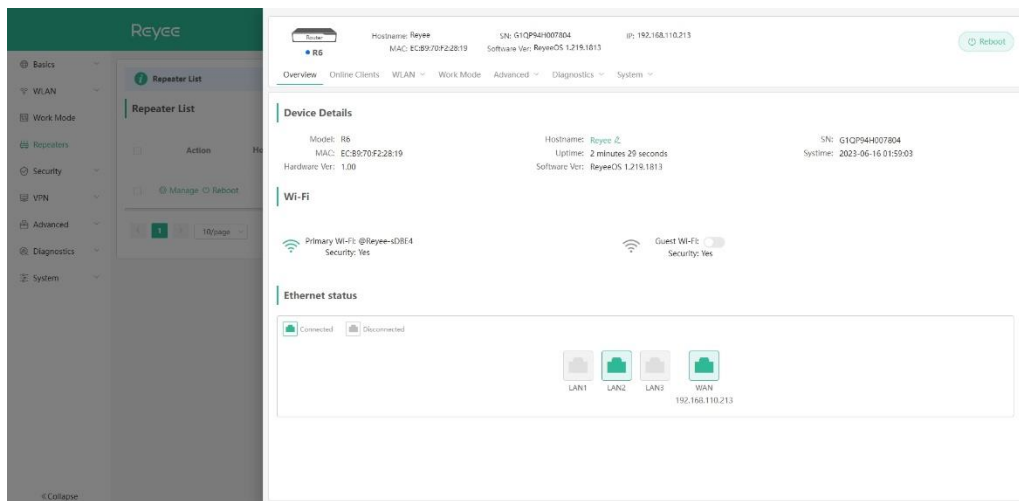
Mobile Phone View: Choose **More > Switch to PC view > More >**  **Repeaters.**

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

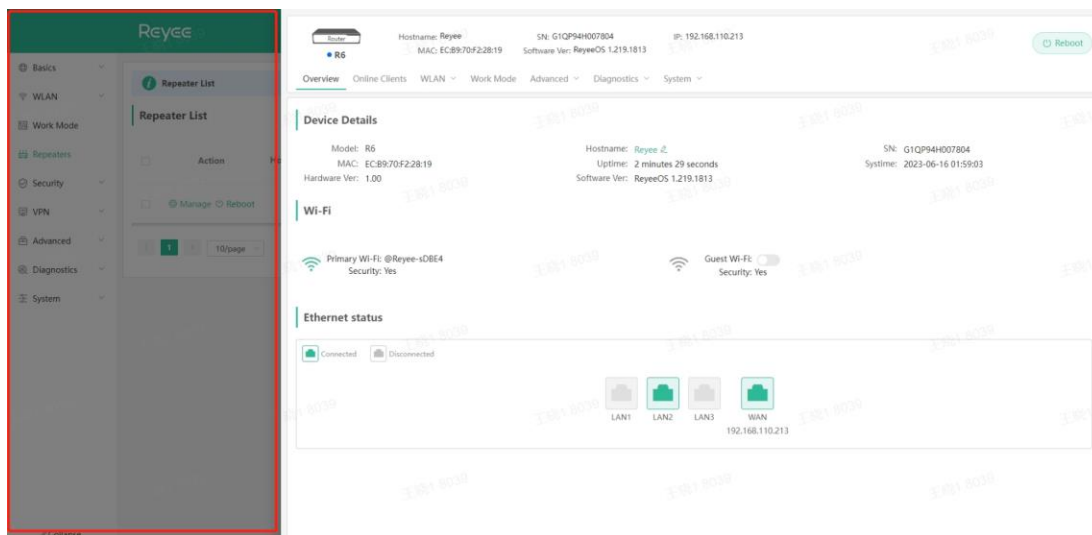
**⚠ Caution**

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

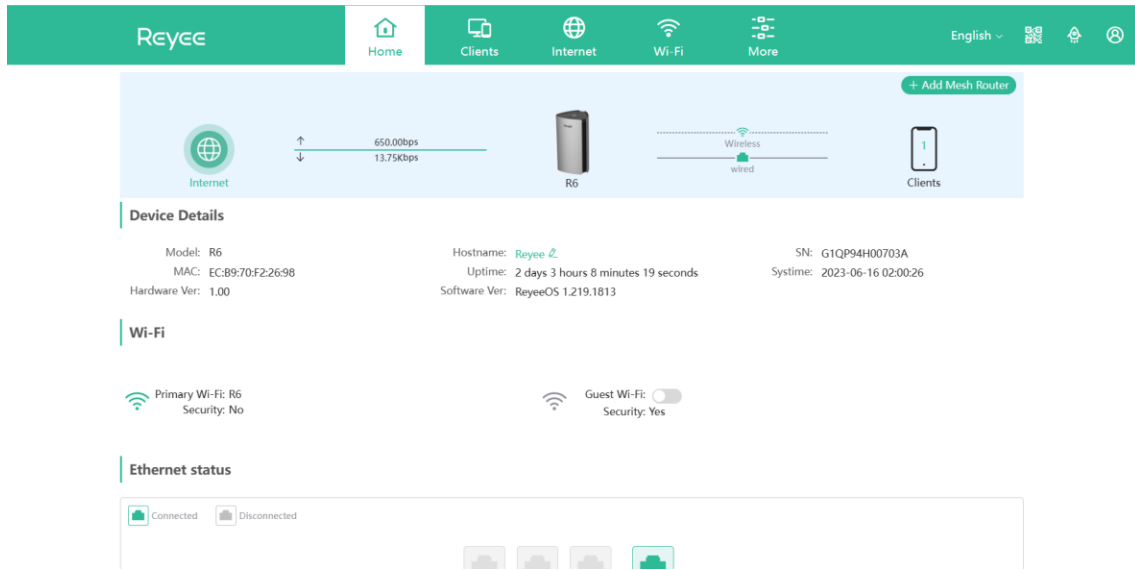
Click **Manage**, and the secondary router management page will pop up. You can make detailed settings for the secondary router.



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

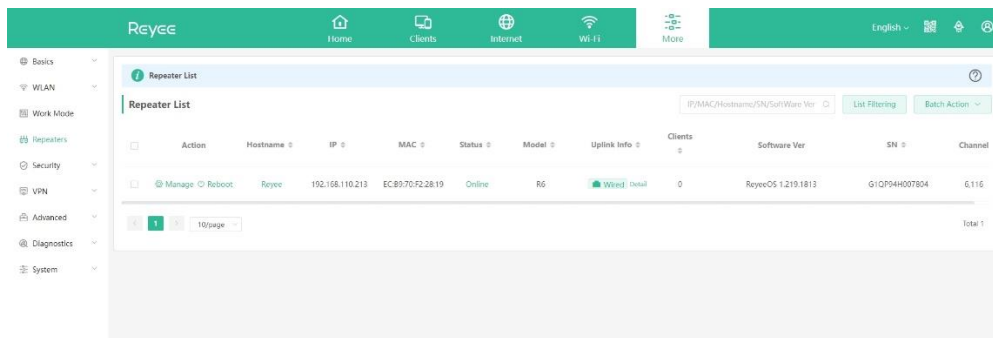


To log in to the web management system of the secondary router directly, you need to know its IP address. Connect your mobile phone or computer to the Wi-Fi network broadcast by the router. Enter the IP address of the secondary router in the address bar of the browser to access the web management system.



**Note**

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



### 2.6.4 Enabling Reyee Mesh

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

PC View: Choose **More > Advanced > Reyee Mesh 3.0 > 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.

## 2.6.5 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.

## 2.7 Setting Up via the Reyee Router App

Download the up-to-date Reyee Router app. Follow app instructions to complete setup.



or



Reyee Router app

# 3 Wi-Fi Network Settings

## 3.1 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/IoT Wi-Fi**.

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

---

 **Caution**

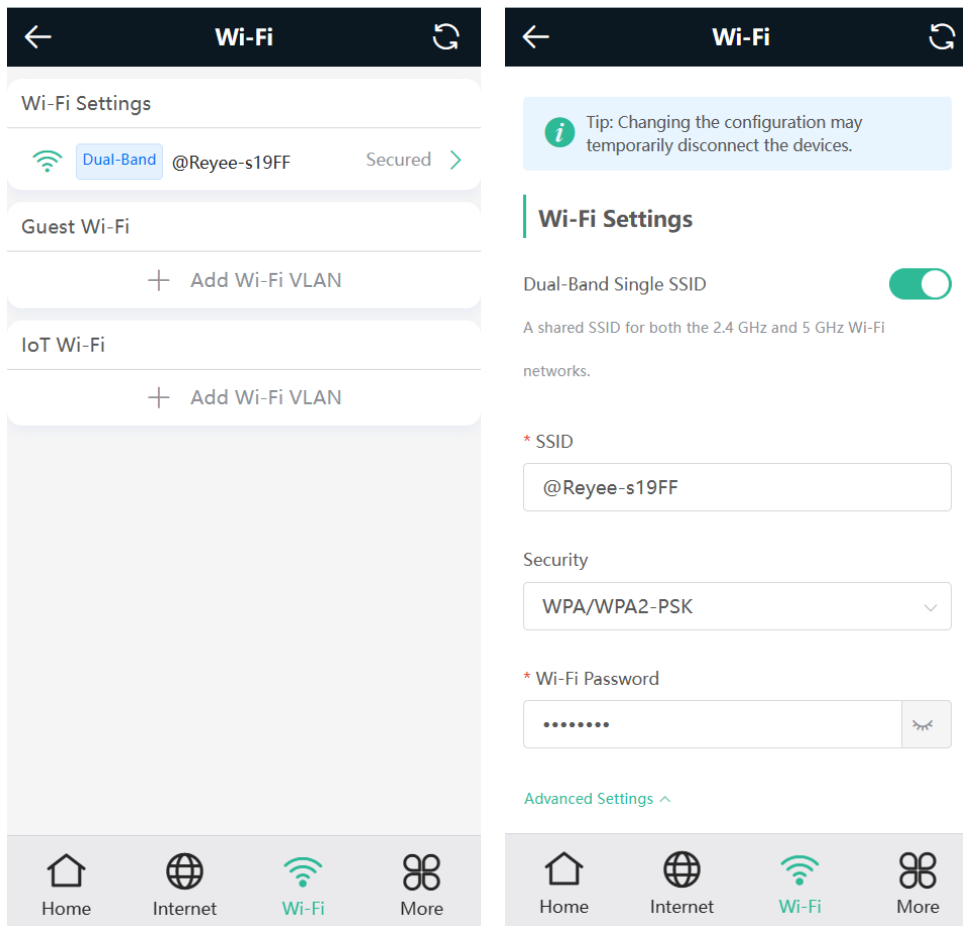
After the configuration is saved, all online clients will be disconnected from the Wi-Fi network. Users need to enter the new password to connect to the Wi-Fi network.

---

You can set the encryption type and Wi-Fi password for different types of Wi-Fi networks such as 2.4G Wi-Fi, 5G Wi-Fi, and IoT Wi-Fi.

The encryption types supported include: Open, WPA-PSK, WPA/WPA2-PSK, WPA2-PSK, WPA2-PSK/WPA3-SAE, and WPA3-SAE. You are advised to enable encryption and set a strong password to improve 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.



## 3.2 Hiding the SSID

### 3.2.1 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.

### 3.2.2 Getting Started

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

### 3.2.3 Configuration Steps

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

Click the target Wi-Fi network.

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

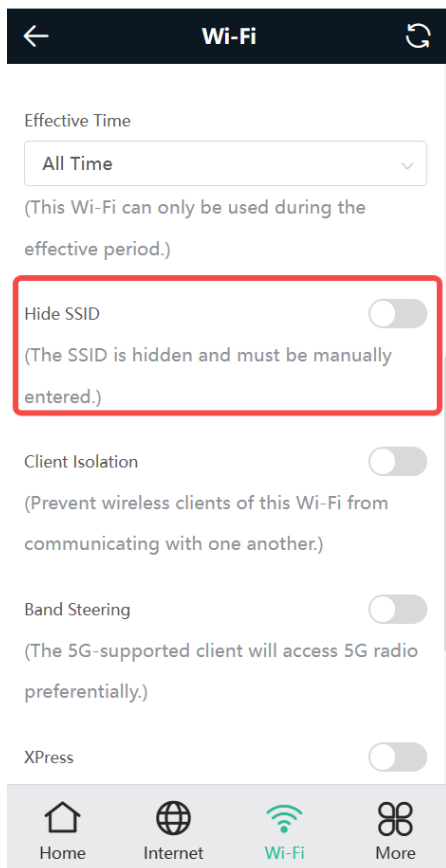
Turn on **Hide SSID** and click **Save**.

---


#### Caution

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

---



#### 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**.

### 3.3 Enabling Band Steering

#### Caution

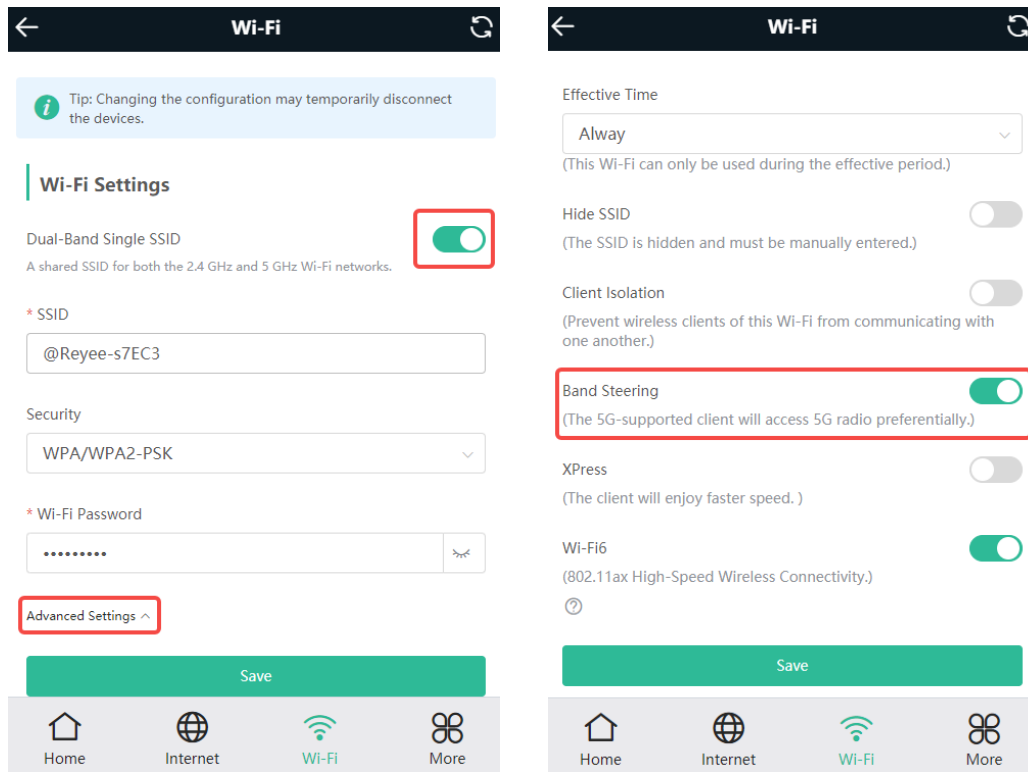
Before enabling the band steering, you must enable the dual-band integration. Because the client can automatically choose to steer to either band only when the 2.4G and 5G bands use the same SSID.

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

Click the target Wi-Fi network.

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

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



### 3.4 Adding a Wi-Fi Network

#### 3.4.1 Overview

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

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

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

- **IoT Wi-Fi:** The IoT Wi-Fi network is disabled by default. Smart clients can connect to the IoT Wi-Fi network for long. You can set an effective time for the IoT Wi-Fi network which will only be enabled during the set effective time.

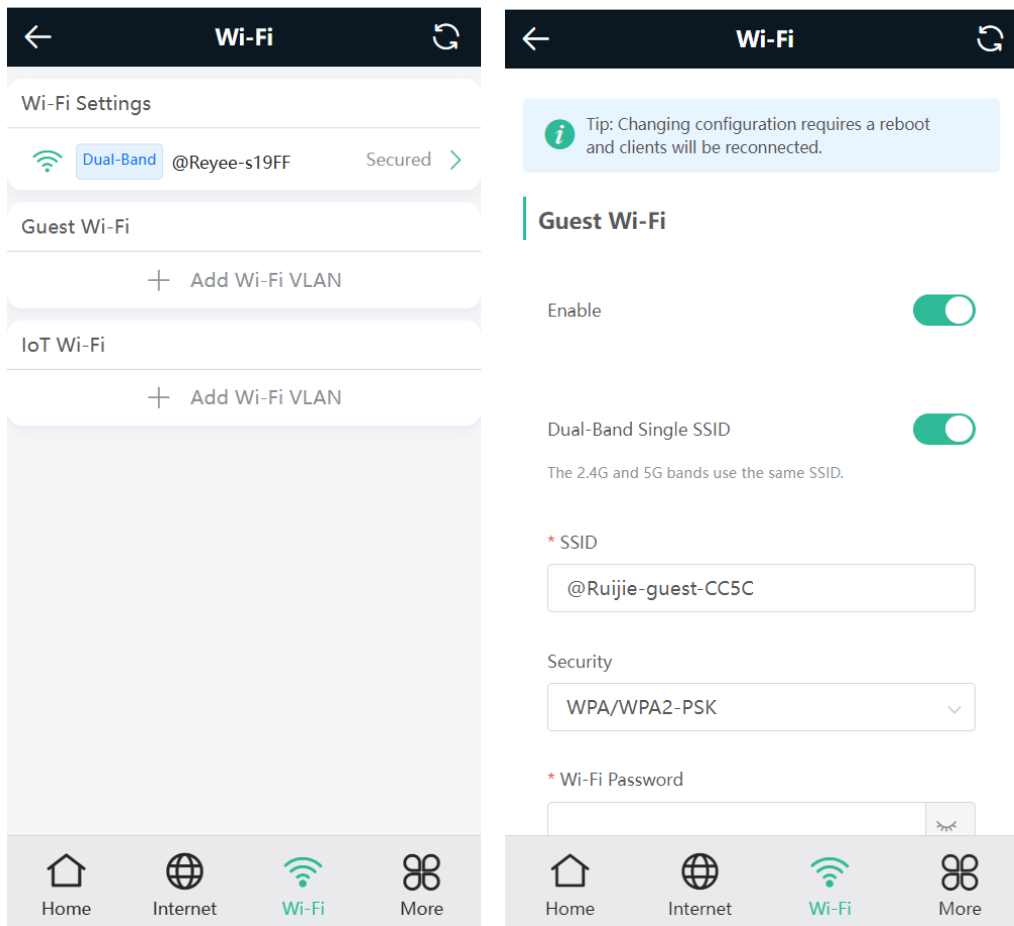
#### 3.4.2 Configuration Steps

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

The page displays the primary Wi-Fi network, guest Wi-Fi network, and IoT 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/ IoT Wi-Fi**.





- **Dual-Band Single SSID:** After this function is enabled, the 2.4G SSID will be consistent with the 5G SSID. When this function is disabled, you can disable 2.4G or 5G Wi-Fi networks separately, and set different passwords for 2.4G and 5G SSIDs.
- **Effective Time:** For the host Wi-Fi network and IoT Wi-Fi, options include Weekdays, Weekends, All Time and Custom. When Custom is selected, you can select a custom effective time. This Wi-Fi can only be used during the effective period.

The guest Wi-Fi network can be turned off as scheduled. Options include Never Disable, Disable 1 Hour Later, Disable 6 Hours Later, Disable 12 Hours later and Other Time. When the time expires, the guest network is off.

- **Client Isolation/Guest Isolation:** This feature is supported by **Wi-Fi Settings**, **Guest Wi-Fi** and **IoT Wi-Fi**. You can enable **Client Isolation** in **Wi-Fi Settings** and **IoT Wi-Fi** to prevent wireless clients of this Wi-Fi from communicating with each other.

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

Advanced Settings ▾

Effective Time  ▾

Effective Time  ▾ (This Wi-Fi can only be used during the effective period.)

Hide SSID  (The SSID is hidden and must be manually 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

Security  ▾

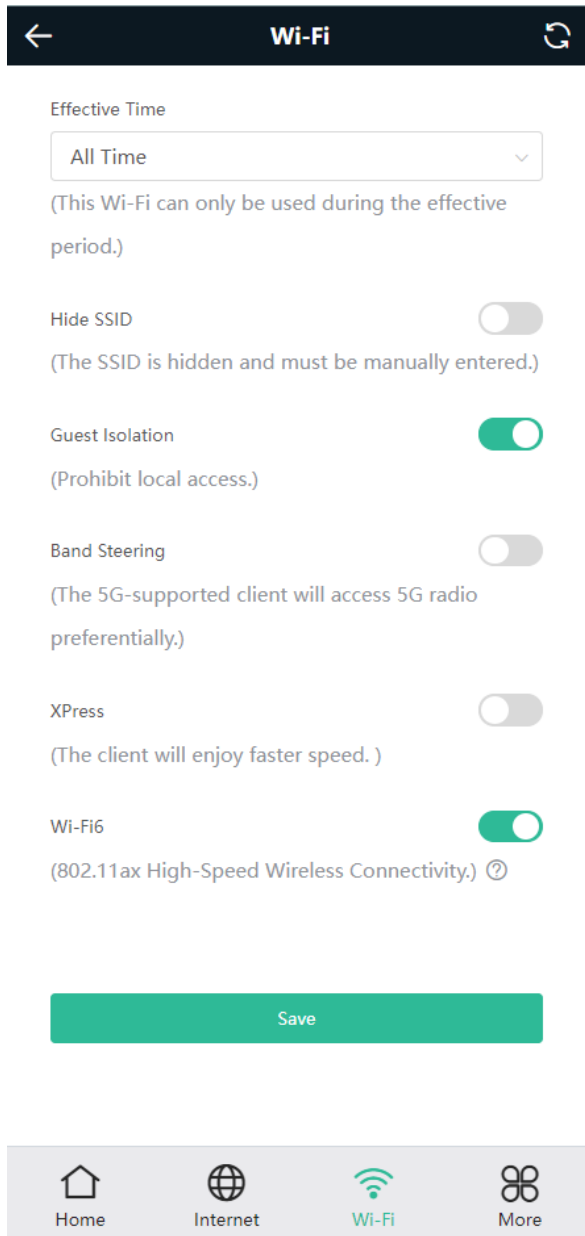
\* Wi-Fi Password

Speed Limit

\* Maximum Up Rate  Kbps

\* Maximum Down Rate  kbps

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



### 3.4.3 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.



## 3.5 Configuring the Wi-Fi Blocklist or Allowlist

### 3.5.1 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.

### 3.5.2 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.

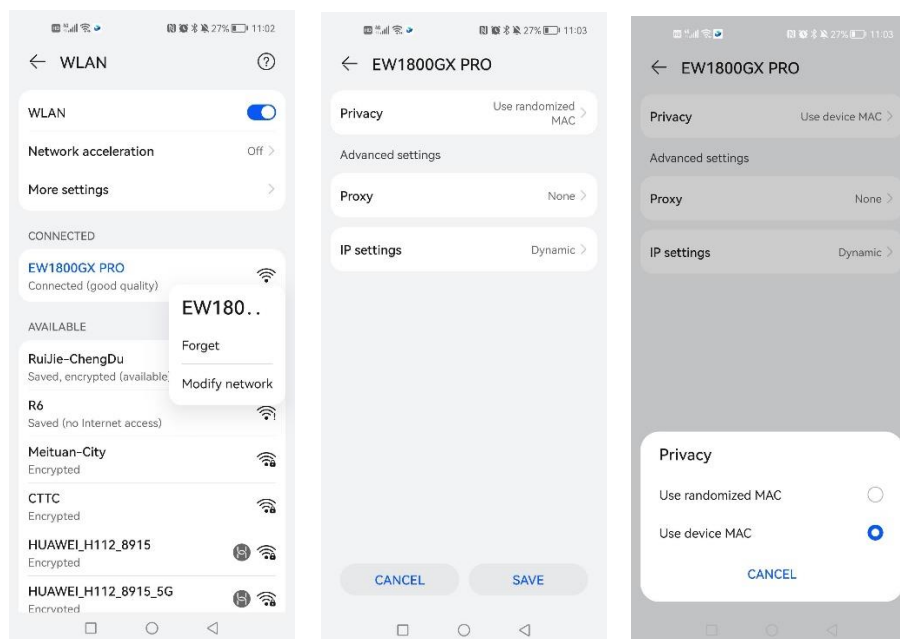
#### Caution

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.



All STAs except blocklisted STAs are allowed to access Wi-Fi.

Only the allowlisted STAs are allowed to access Wi-Fi.

**Blocked WLAN Clients** + Add Batch Delete

Up to **64** members can be added.

<input type="checkbox"/>	MAC	Remark	Action
No Data			

Add ×

\* MAC

Remark

Cancel OK

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

**Blocked WLAN Clients** + Add Batch Delete

Up to **64** members can be added.

<input type="checkbox"/>	MAC	Remark	Action
<input type="checkbox"/>	F2:11:34:23:56:21	test	<span>Edit</span> <span style="border: 1px solid red; padding: 2px;">Delete</span>

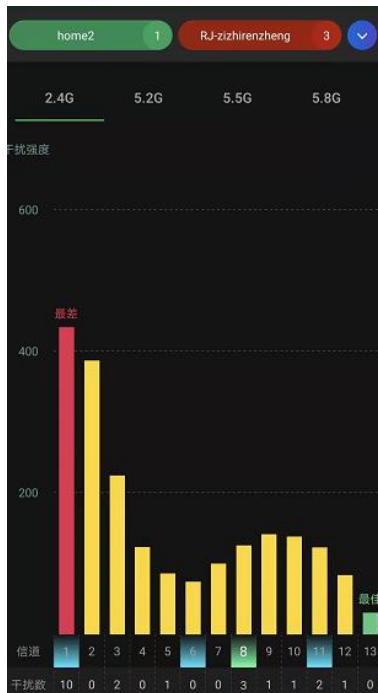
## 3.6 Optimizing the Wi-Fi Network

### 3.6.1 Overview

The device detects the surrounding wireless environment and selects the appropriate configuration upon power-on. However, network stalling caused by wireless environment changes cannot be avoided. Restarting the router is a convenient and effective method to cope with network stalling. The router supports scheduled restart. For details, see [6.6 Configuring Scheduled Reboot](#). You can also analyze the wireless environment around the router and select appropriate parameters.

### 3.6.2 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.



### 3.6.3 Configuration Steps

- Optimizing the radio channel

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

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

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

---

#### **i** Note

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

---

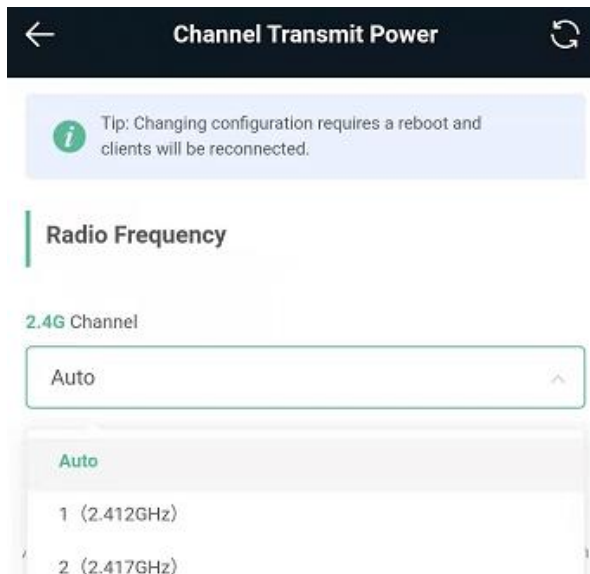


---

#### **!** Caution

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

---



- Optimizing the channel bandwidth

Mobile Phone View: Choose **More**> **Radio Frequency**.


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

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

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

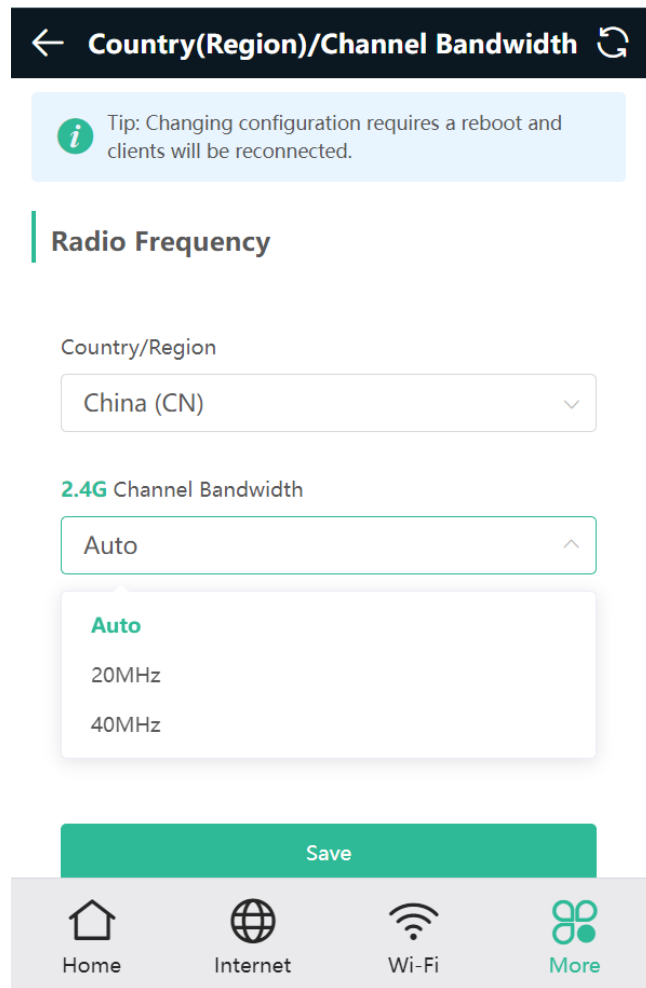
After changing the channel bandwidth, click **Save** to make the configuration take effect immediately.

---

 **Caution**

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

---



- 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.

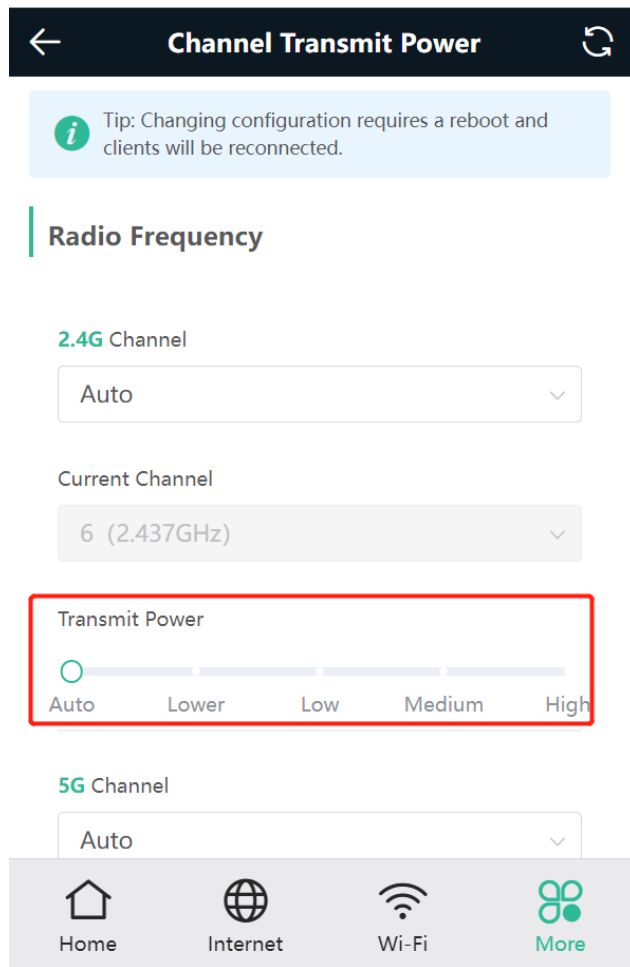
---

**⚠ 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.

---





### 3.7 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 healthymode. You are allowed to set the effective time period for the healthymode.

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.


---

**i** 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.

---

← **Healthy Mode** ↻

 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.

**Healthy Mode**

Enable

Effective Time

All Time ▾

Save

Home Internet Wi-Fi More

### 3.8 Enabling Roaming Optimization

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

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

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

- Wi-Fi Settings
- Guest Wi-Fi
- Smart Wi-Fi
- Healthy Mode
- Roaming Optimization**

#### Roaming Optimization

Enable

Save

# 4 Networks Settings

## 4.1 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 [2.4 Primary Router Mode](#).

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

**WAN**

**Online (DHCP)**

\* Internet Connection Type

DNS Type  Dynamic  Custom

DNS Server 172.30.44.20 192.168.5.28

IP 10.52.0.200

Subnet Mask 255.255.248.0

Gateway 10.52.0.1

[Advanced Settings](#) ▾

**Save**

**WAN**

**Online (DHCP)**

\* Internet Connection Type

\* Username

\* Password

Service Name

Obtain the username and password [from the old device](#).

DNS Type  Dynamic  Custom

DNS Server

IP

Subnet Mask

Gateway

[Advanced Settings](#) ▾


## 4.2 Changing the Address of a LAN Port

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

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

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

---

 **Caution**

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

---

LAN Settings DHCP Clients Static IP Addresses DHCP Option DNS Proxy

**i** LAN Settings **?**

\* IP

\* Subnet Mask

\* MAC

DHCP Server

\* Start

\* IP Count

\* Lease Time(Min)

**Save**


### 4.3 Changing the MAC Address

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


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

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

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

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

---

 **Caution**

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

---

**Figure 4-1 WAN Port Settings**

**WAN**

**Online (DHCP)**

\* Internet

No username or password is required for DHCP clients.

DNS Type  Dynamic  Custom

DNS Server

IP 172.17.96.147

Subnet Mask 255.255.254.0

Gateway 172.17.96.1

Advanced Settings ^

\* MTU

\* MAC

802.1Q Tag

Save

## 4.4 Changing the MTU

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

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

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

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

i
WAN

i Online ( DHCP)

\* Internet DHCP v

No username or password is required for DHCP clients.

DNS Type  Dynamic  Custom

DNS Server

IP 172.17.96.147

Subnet Mask 255.255.254.0

Gateway 172.17.96.1

Advanced Settings ^

\* MTU 1500

\* MAC c0:b8:e6:fe:cc:5c

802.1Q Tag

Save

## 4.5 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**

### 4.5.1 Configuring the IPv6 Address of the WAN Port

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

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

---

#### Caution

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

Enable

WAN Settings   LAN Settings   DHCPv6 Clients

WAN\_V6

\* Internet

No username or password is required for DHCP clients.

DNS Type  Dynamic    Custom

DNS Server

IPv6 Address

IPv6 Prefix

Gateway

NAT66

Save

## 4.5.2 Configuring the IPv6 Address of the LAN Port

Click **LAN Settings**.

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

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

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



Enable

WAN Settings   LAN Settings   DHCPv6 Clients

IPv6 Assignment   Auto   ?

IPv6 Address/Prefix   fc::0   64  
Length

Advanced Settings

Subnet Prefix Name   Default   ?

Subnet Prefix Length   64   ?

Subnet ID   0   ?

\* Lease Time(Min)   30   ?

DNS Server   Example: 0:0::2, each separated by a comma.

Save

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

Enable

WAN Settings   LAN Settings   DHCPv6 Clients

**DHCPv6 Clients**  
You can view the DHCPv6 clients information on this page.


**DHCPv6 Clients**   Search by DUID   ?

No.	Hostname	IPv6 Address	Remaining Lease Time(min)	DUID
-----	----------	--------------	---------------------------	------

## 4.6 Enabling Parental Control

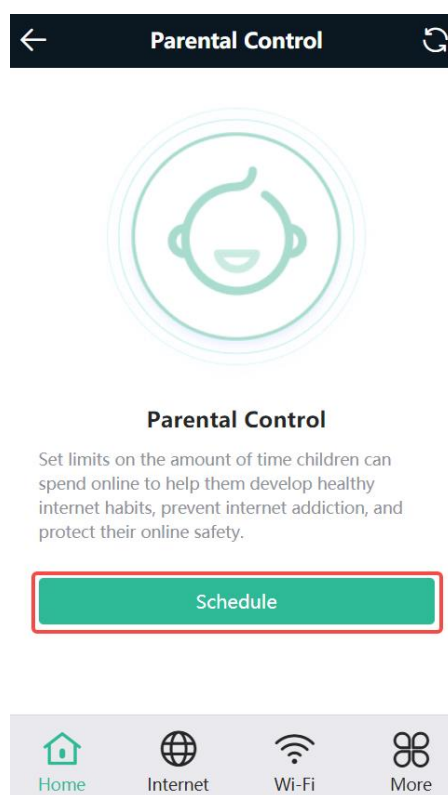
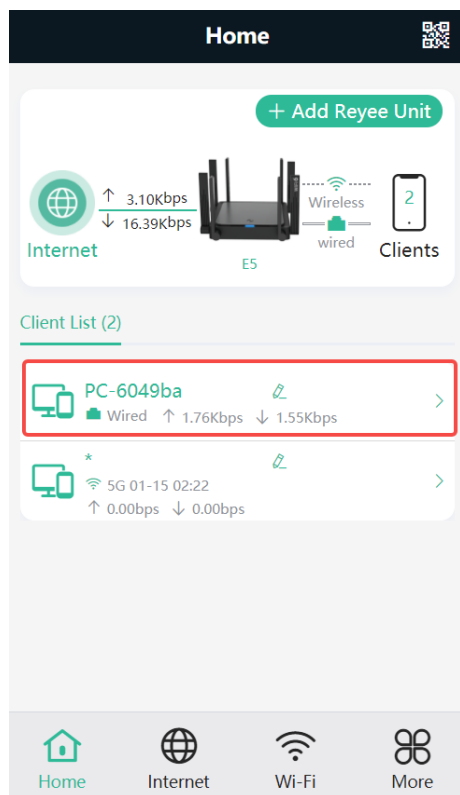
Mobile Phone View: Choose **Home > Schedule** or .

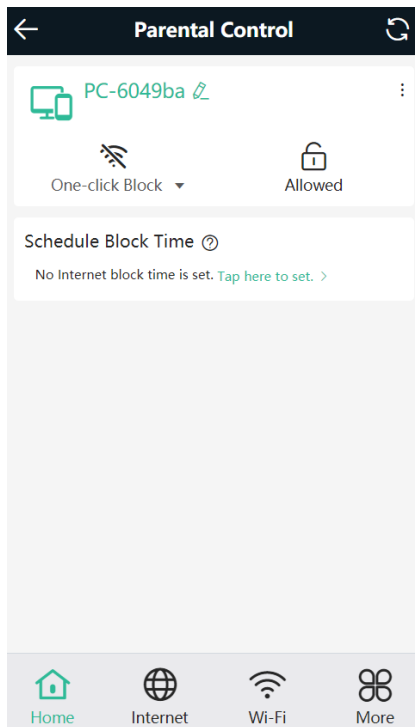
PC View: Choose **Clients > Blocked Time Management**.

 **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.



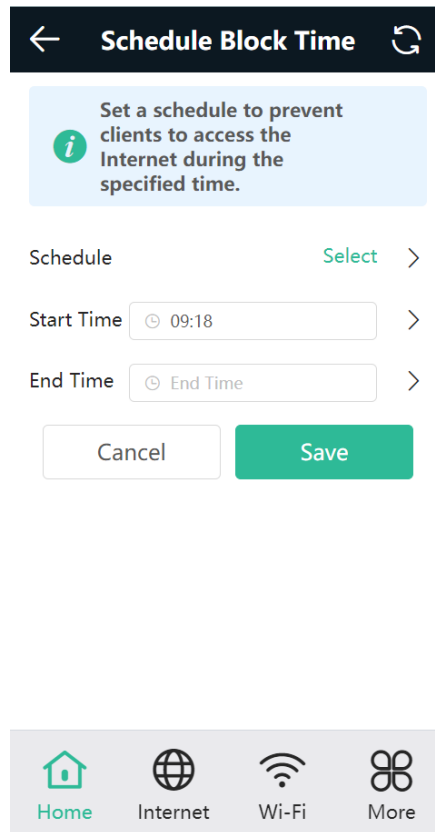
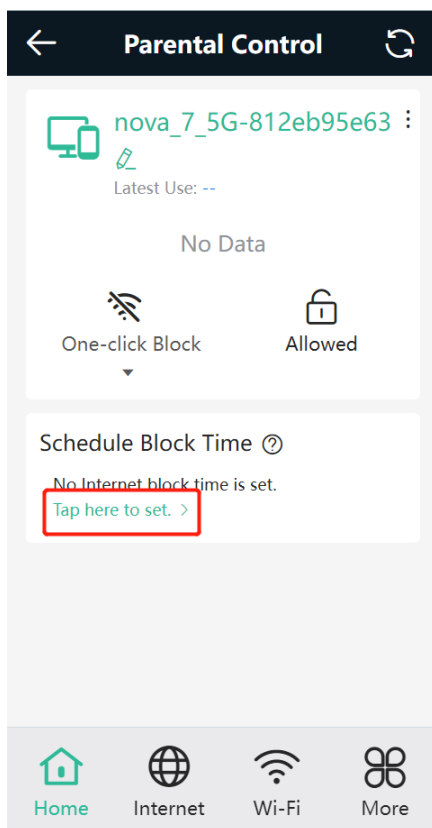


### 4.6.1 Setting the Internet Block Periods

#### 1. Setting the Internet Block Rules

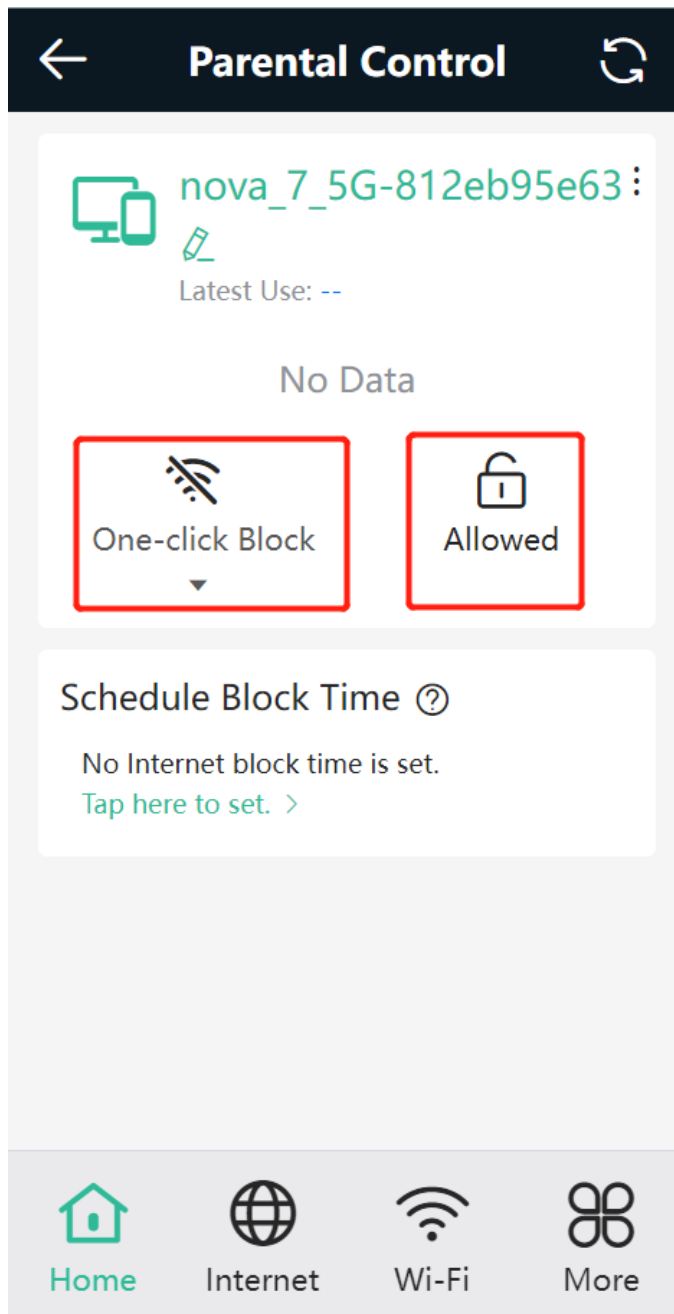
Tap **Tap here to set** to set the Internet block periods. In the block periods, the client cannot access the Internet.

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



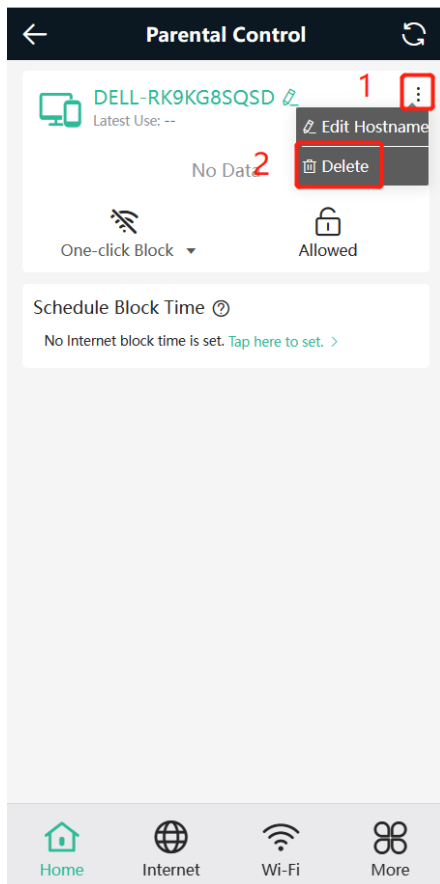
## 2. Blocking Internet Access Temporarily

- 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.



### 4.6.2 Disabling Parental Control

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

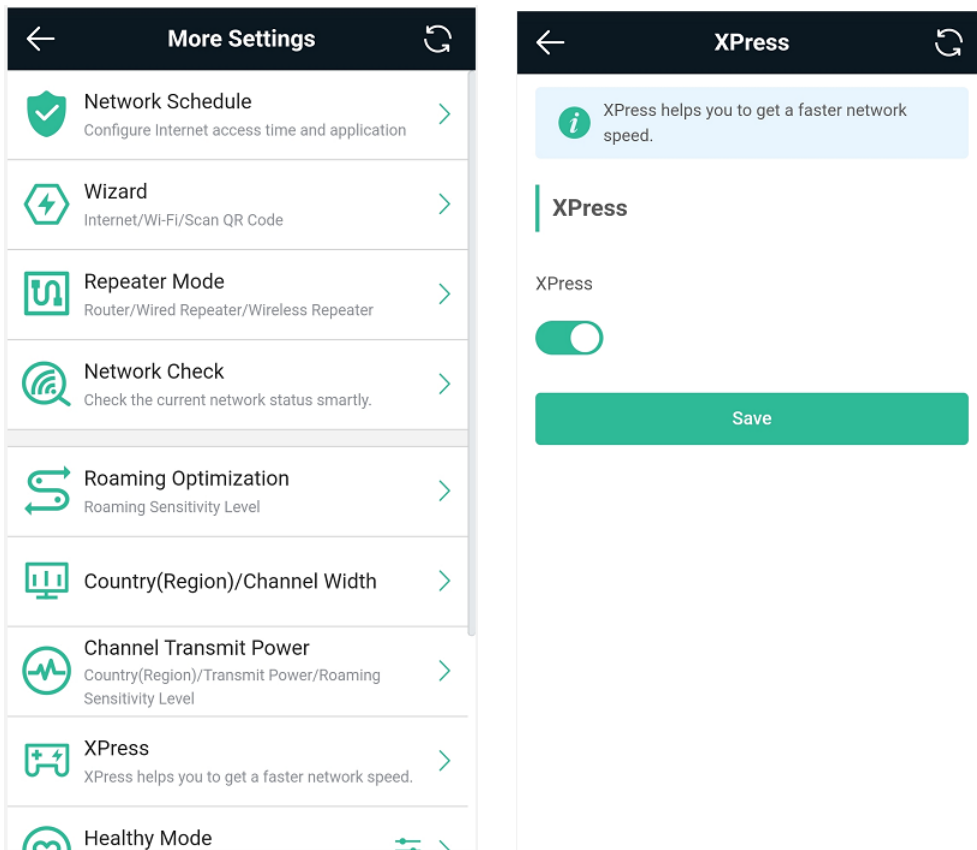


## 4.7 Configuring XPress

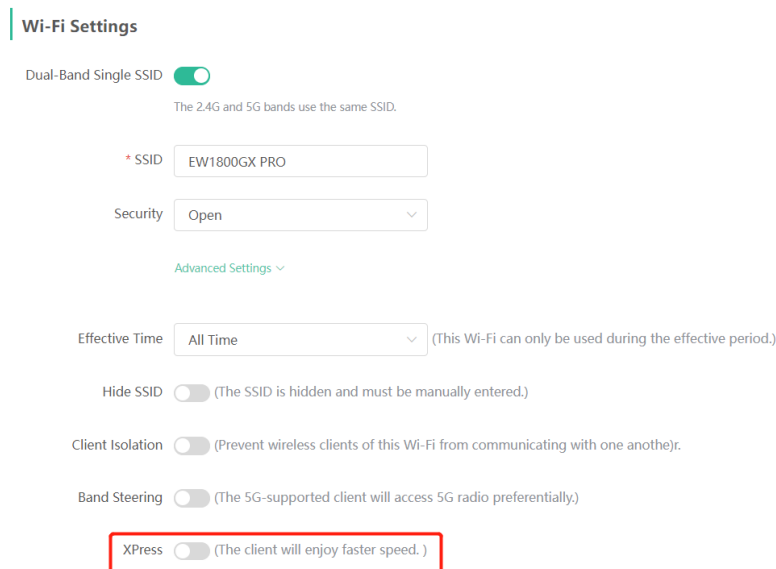
Mobile Phone View: Choose **More** > **XPress**.

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.



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



## 4.8 Configuring Port Mapping

### 4.8.1 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.

### 4.8.2 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.

### 4.8.3 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.

The screenshot displays the 'Port Mapping' configuration page under 'NAT-DMZ'. The main area shows a 'Port Mapping List' with an 'Add' button highlighted in red. Below the list, it states 'Up to 50 entries can be added.' The list table has columns for Name, Protocol, External IP Address, and External Port, and currently shows 'No Data'. The right side features an 'Add' modal form with the following fields:

- \* Name:
- Preferred Server: HTTP (dropdown)
- Protocol: TCP (dropdown)
- External IP Address: 172.17.96.147
- \* External Port/Range: Example: X or X-X (Range: 1-6553!)
- \* Internal Server IP: Example: 1.1.1.1
- \* Internal Port/Range: 80

Buttons for 'Cancel' and 'OK' are at the bottom right of the modal.

#### 4.8.4 Verification and Testing

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

#### 4.8.5 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 [4.8.6 DMZ Configuration Steps](#). The common cause is that port configuration is incorrect or incomplete.

#### 4.8.6 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**

---

 **NAT-DMZ**

Enable

\* Dest IP Address

Please enter a destination IP address.

## 4.9 Configuring DHCP Server

### 4.9.1 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.

### 4.9.2 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 Settings**

\* IP

\* Subnet Mask

\* MAC

DHCP Server

\* Start

\* IP Count

\* Lease Time(Min)

**Save**

## 2. Displaying Online DHCP Clients

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

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

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

LAN Settings   **DHCP Clients**   Static IP Addresses   DNS Proxy

**i** View DHCP clients. ?

**DHCP Clients**   Search by Hostname/IP/MAC       

Up to **300** IP-MAC bindings can be added.

<input type="checkbox"/>	No.	Hostname	IP	MAC	Remaining Lease Time(Min)	Status
<input type="checkbox"/>	1	RainOS	192.168.111.18	30:0d:9e:3c:d6:be	24	<b>Convert to Static IP</b>
<input type="checkbox"/>	2	PC-3CD6BE	192.168.111.53	52:54:00:3c:d6:be	17	Convert to Static IP
<input type="checkbox"/>	3	*	192.168.111.176	f2:36:1d:eb:20:6d	22	Convert to Static IP

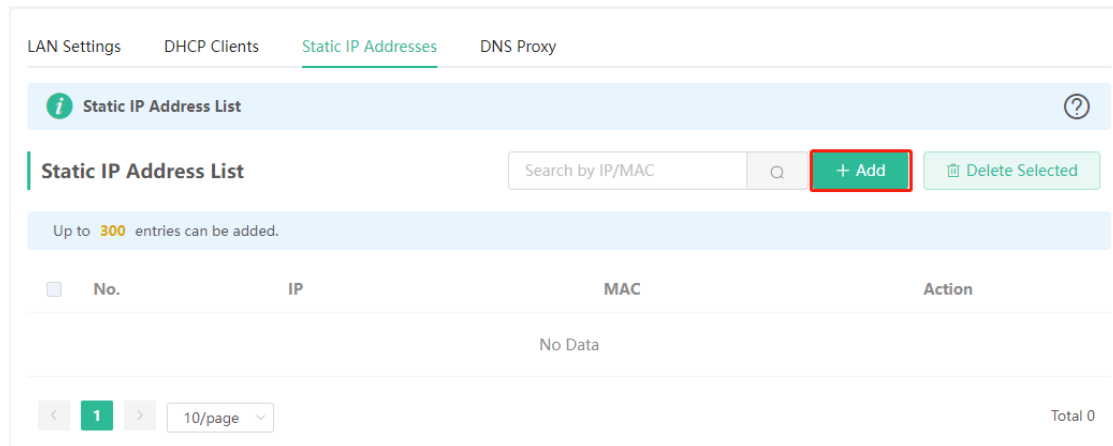
< **1** >   10/page   Total 3

### 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.



## 4.10 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**

 DNS proxy is not mandatory. The device will obtain the DNS server address from the uplink device by default.

Enable

\* DNS Server

Save

## 4.11 Configuring DHCP Option


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

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

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

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

LAN Settings   DHCP Clients   Static IP Addresses   **DHCP Option**   DNS Proxy

 **DHCP Option**  
DHCP option settings are applied to all LAN ports.

DNS Server

Save

## 4.12 Configuring DDNS

### 4.12.1 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.

### 4.12.2 Getting Started

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

### 4.12.3 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    DynDNS

---

 **DynDNS**

\* Username  [Register](#)

\* Password

\* Domain  

Link Status -

## 4.13 Configuring APR Binding


### 4.13.1 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.


### 4.13.2 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.

 The device learns IP-MAC mapping of all devices connected to its interfaces. You can bind or filter the MAC address.

**ARP List**

Up to **64** IP-MAC bindings can be added.

<input type="checkbox"/>	No.	MAC	IP	Type	Action
<input type="checkbox"/>	1	c0:b8:e6:f8:8d:7c	172.17.96.1	Dynamic	<input type="button" value="Bind"/>
<input type="checkbox"/>	2	c0:25:a5:81:c1:90	172.17.96.49	Dynamic	<input type="button" value="Bind"/>

Total 2

## 4.14 Connecting to IPTV

IPTV is an Internet television service provided by ISP.

### 4.14.1 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.

### 4.14.2 IPTV Configuration Steps (VLAN Type)

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

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

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

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

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

---

#### Caution

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

---

**IPTV/VLAN**

**IPTV/IGMP**

**WIFI/IGMP**



**IPTV**

Provide Internet access and IPTV services through only one Ethernet cable.

**IPTV/VLAN**

**IPTV**

**IPTV Port** Connect the default or configured IPTV port .

DC	IPTV	LAN2	LAN3	LAN4	WAN

**VLAN**

\* **IPTV VLAN ID**

Range: 2-232 or 234-4090.

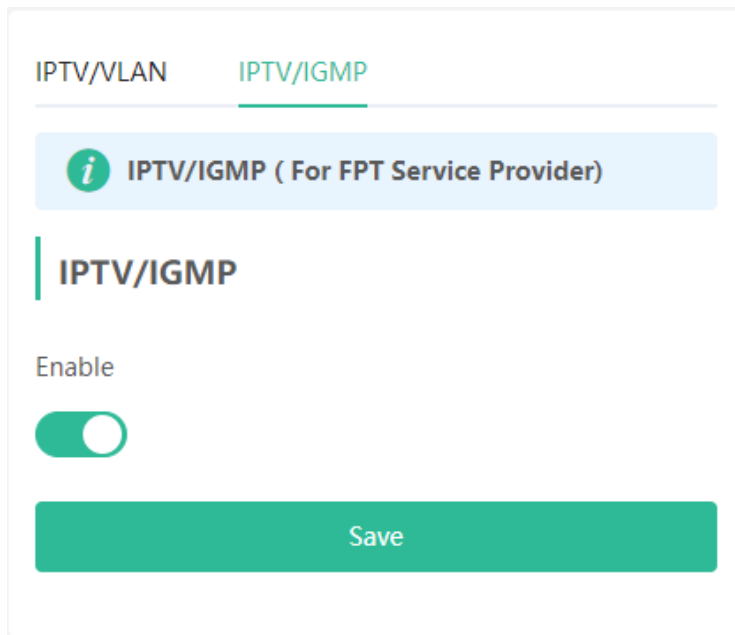
Save

### 4.14.3 IPTV Configuration Steps (IGMP Type)

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

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

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



## 4.15 Configuring WIFI/IGMP

### 4.15.1 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.

### 4.15.2 Configuration Steps

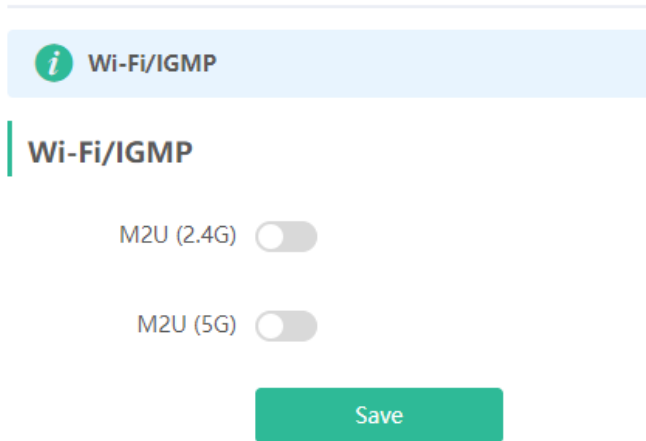
Mobile Phone View: Choose **More > Switch to PC view > More >**  **WLAN > Wi-Fi > Wi-Fi/IGMP.**

PC View: Choose **More >**  **WLAN > Wi-Fi > Wi-Fi/IGMP.**

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

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



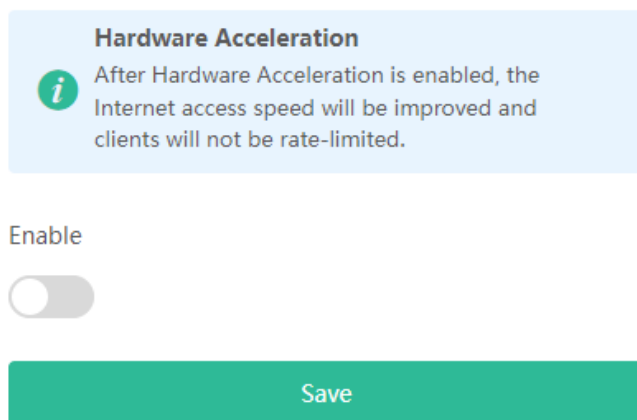


## 4.16 Enabling Hardware Acceleration

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

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

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



---

### Caution

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

---

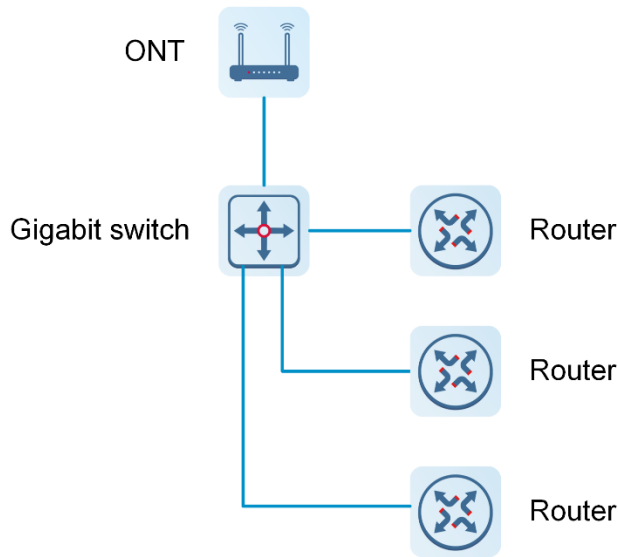
## 4.17 Configuring Reyee Mesh 3.0

### 4.17.1 Configuration Steps

PC View: Choose **More** >  **Advanced** > **Reyee Mesh 3.0** > **Reyee Mesh 3.0**

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

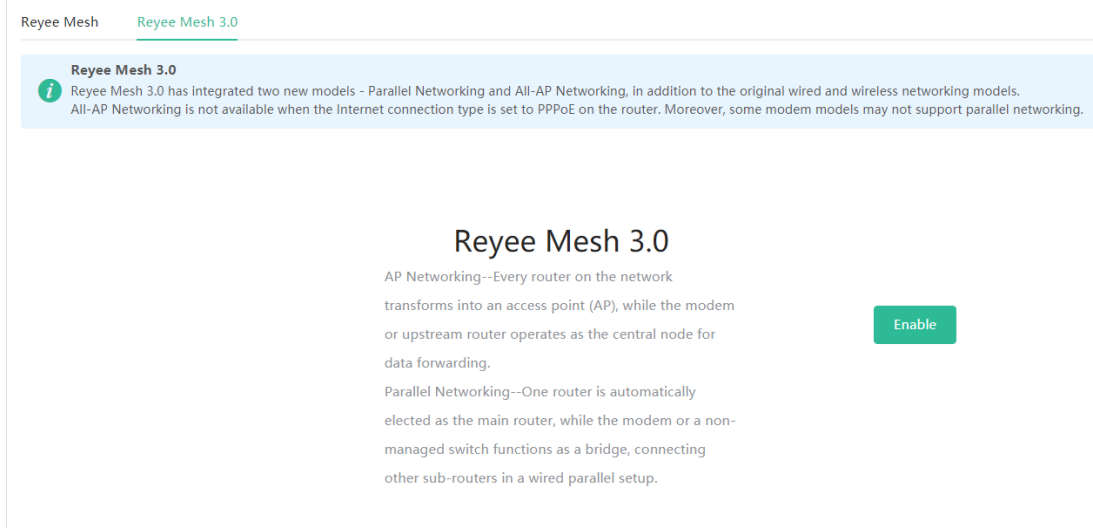
Connect the routers as indicated in the following figure:



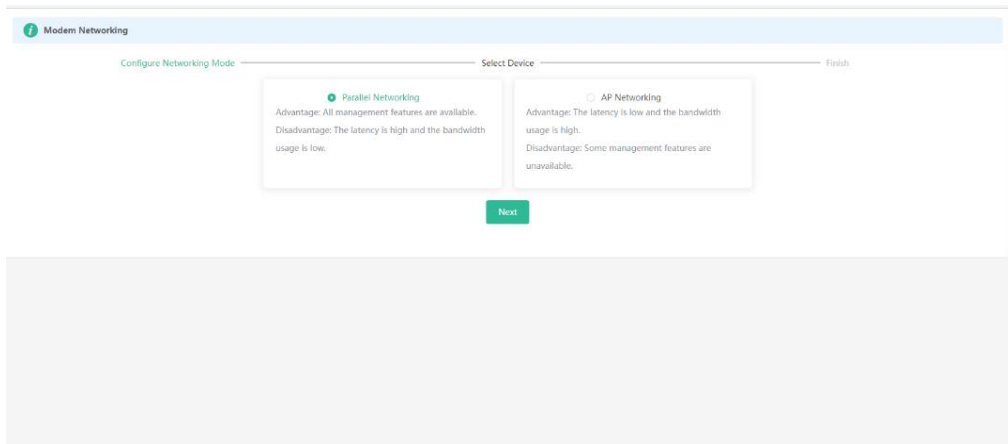
### 1. Parallel Networking

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.

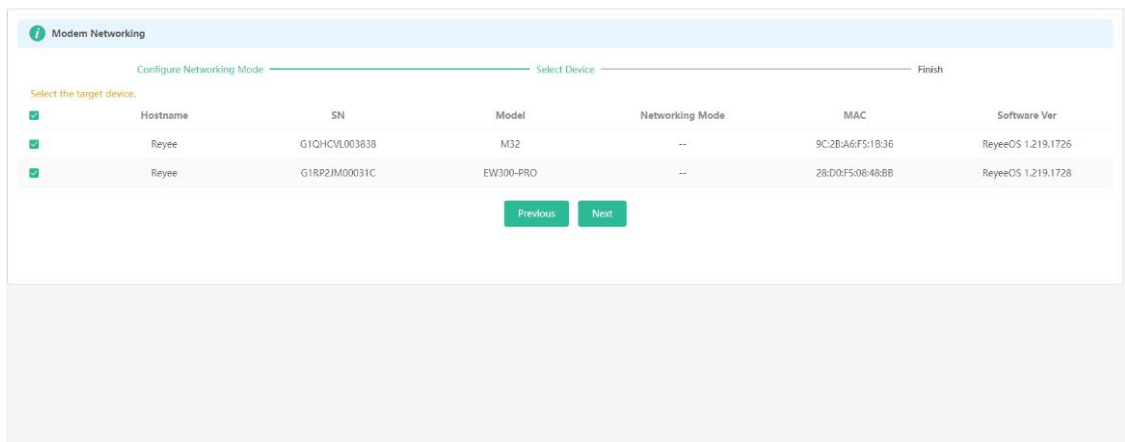
(1) Click **Enable** to enable Reyee Mesh 3.0.



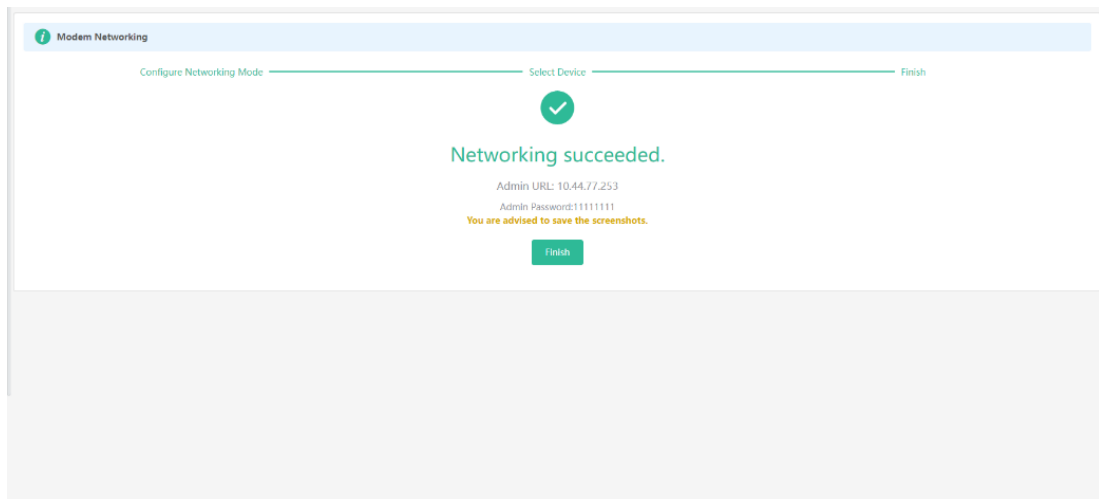
(2) Choose **Parallel Networking**, and click **Next**.



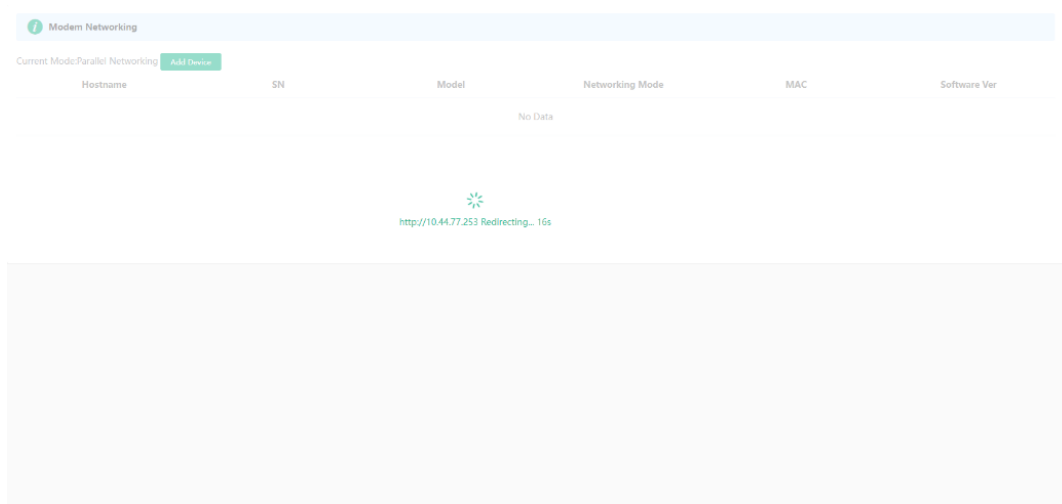
(3) Check routers for the networking.



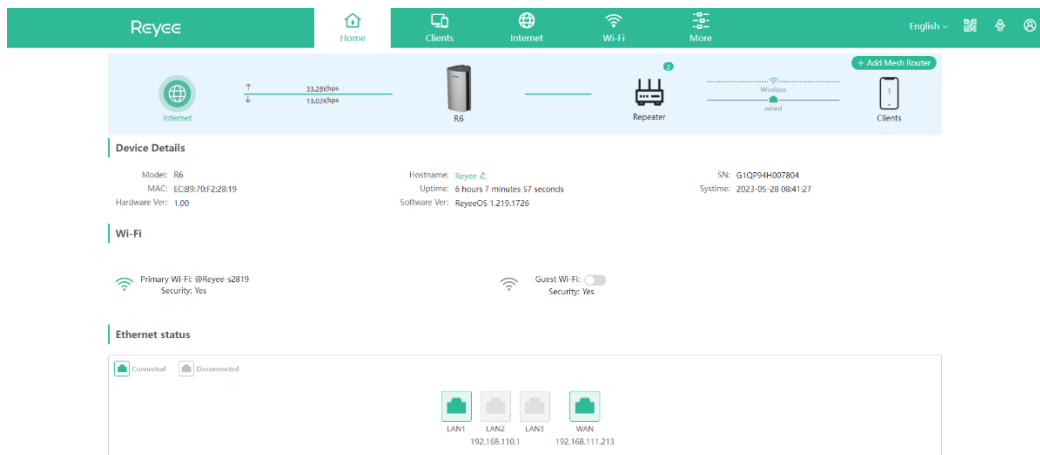
(4) Click **Next**.



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



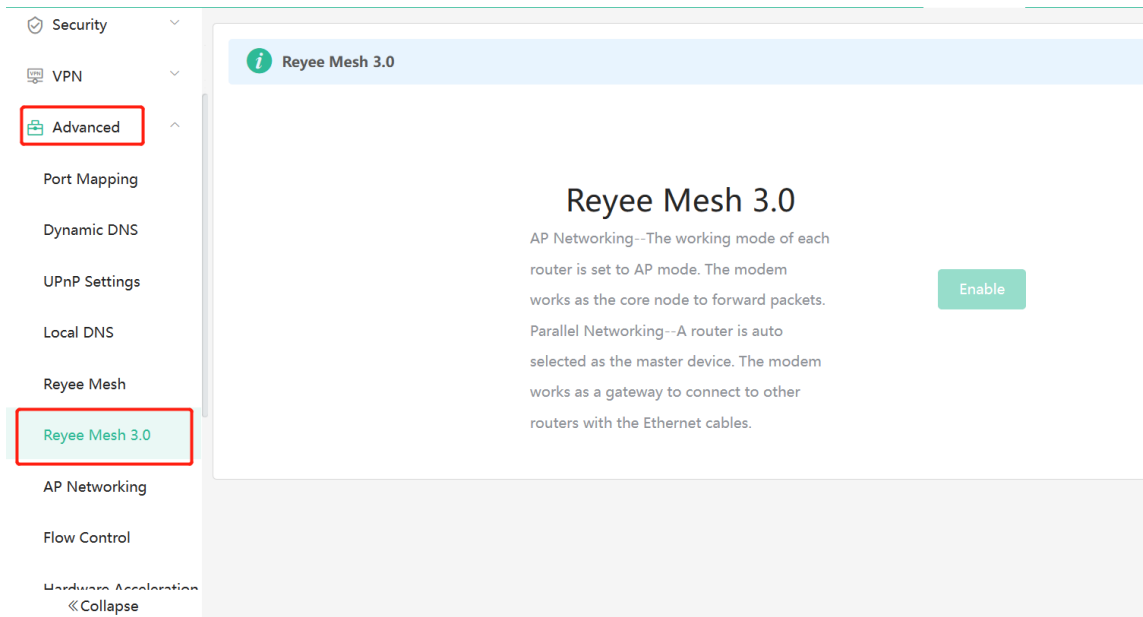
(6) On the master router page that is displayed, enter the password to log in.



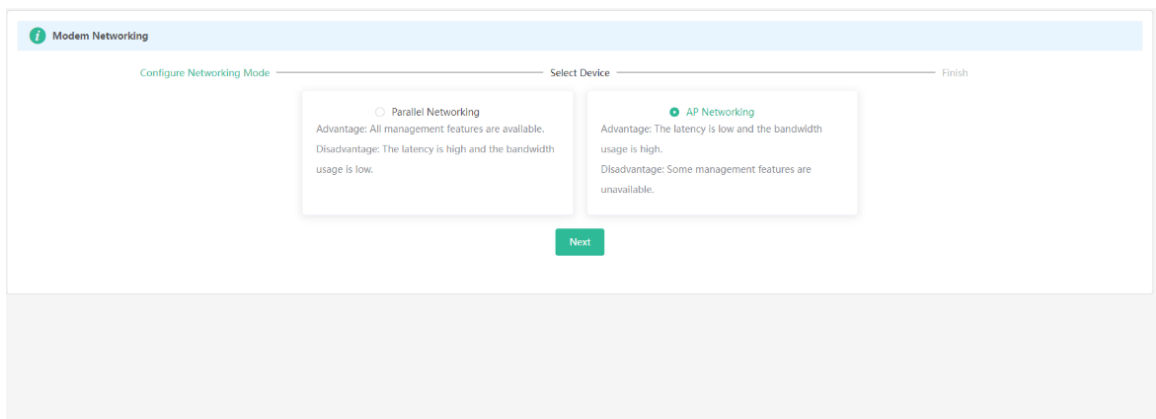
## 2. AP Networking

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.

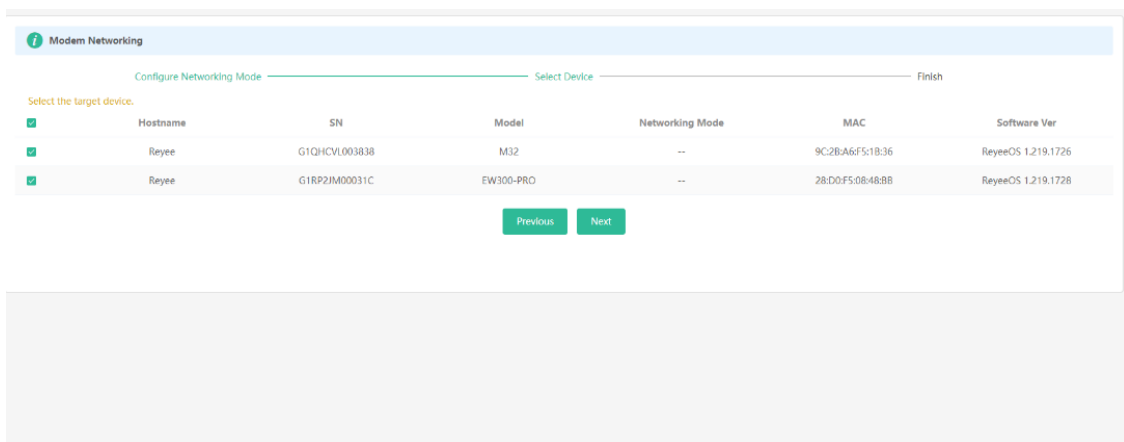
(1) Click **Enable** to enable Reyeec Mesh 3.0.



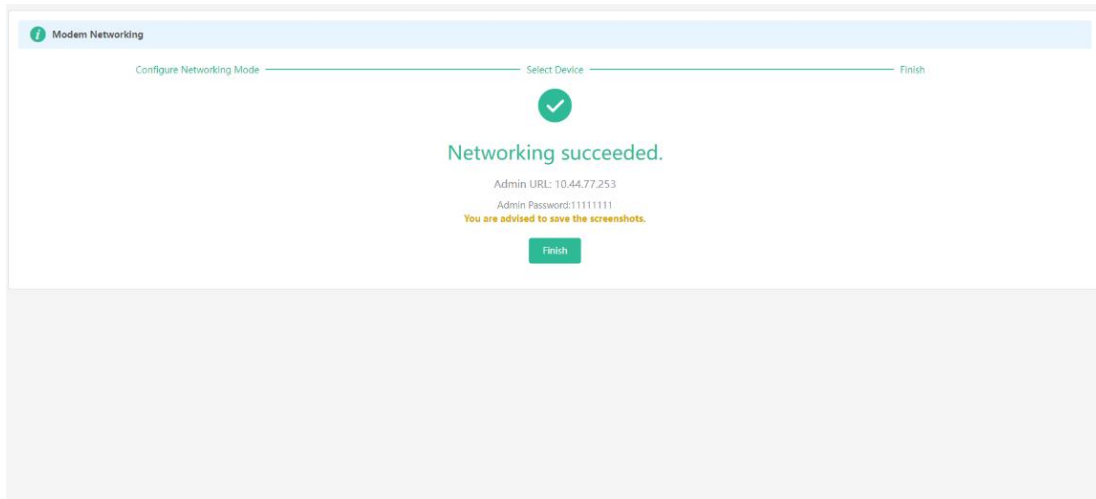
(2) Choose **AP networking**, and click **Next**.



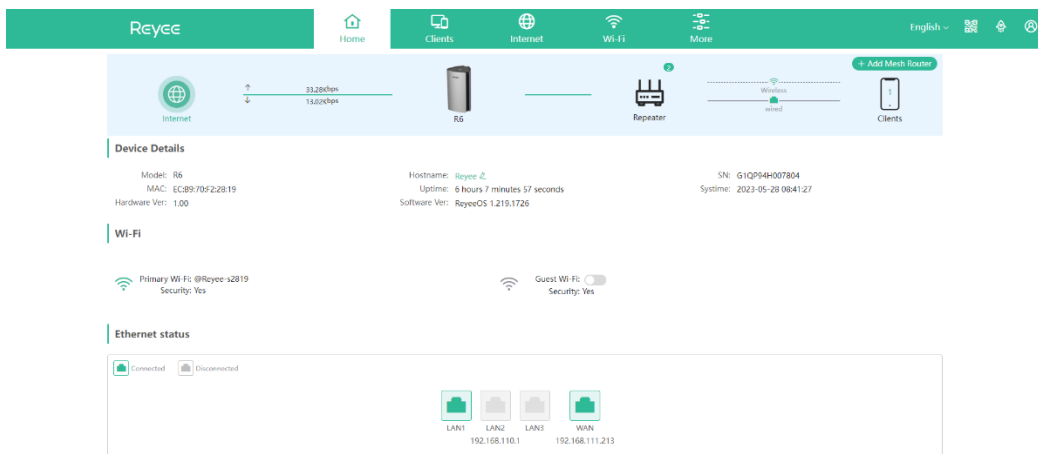
(3) Check routers for AP networking, and click **Next**.



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



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

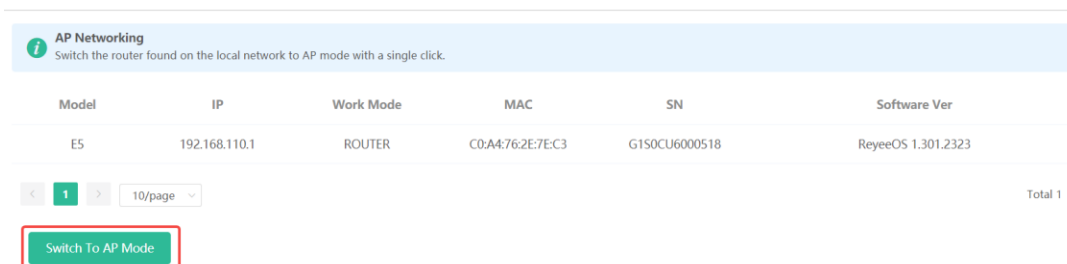


## 4.18 Configuring AP Networking


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.



## 4.19 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

\* ACS Address

\* ACS Account

\* ACS Password

STUN

\* STUN Server Address


\* STUN Server Port

\* STUN Server Account

\* STUN Server Password

## 4.20 Enabling Smart Flow Control

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

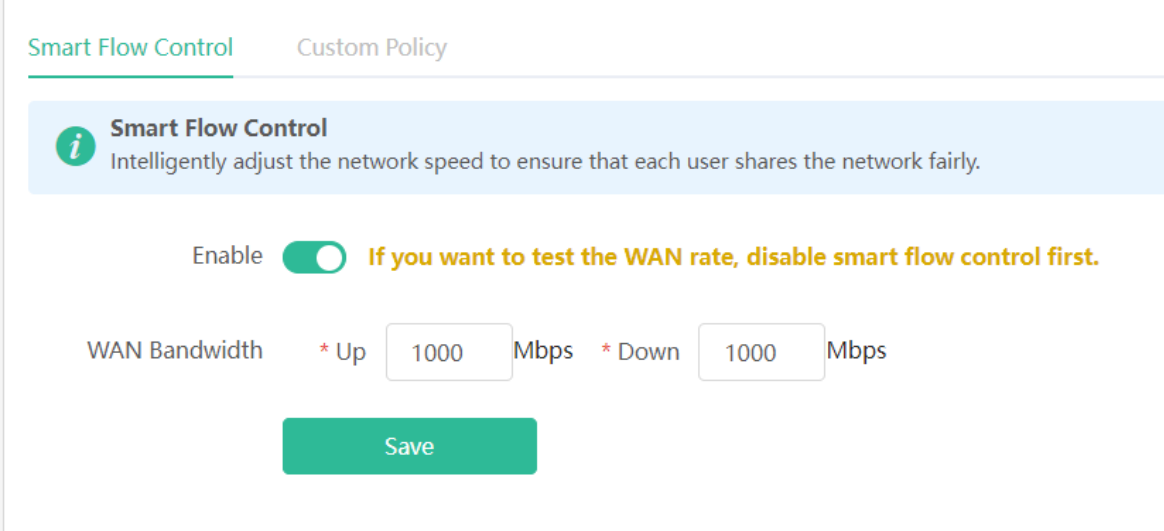
PC View: Choose **More** >  **Advanced** > **Flow Control** > **Smart Flow Control**.

### 1. Enabling Smart Flow Control

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

#### Caution

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



The image shows a configuration page for 'Smart Flow Control'. At the top, there are two tabs: 'Smart Flow Control' (active) and 'Custom Policy'. Below the tabs is a light blue information box with an 'i' icon and the text: 'Smart Flow Control: Intelligently adjust the network speed to ensure that each user shares the network fairly.' Below this is a toggle switch for 'Enable', which is currently turned on. To the right of the toggle is a warning message: 'If you want to test the WAN rate, disable smart flow control first.' Below the toggle is the 'WAN Bandwidth' section, which has two input fields: '\* Up' with a value of '1000' and '\* Down' with a value of '1000', both followed by 'Mbps'. At the bottom of the form is a green 'Save' button.

### 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](#)

**Custom Policy**  
Allocate bandwidth to the specified IP address or range. The priority is sorted as follows: Custom Policy > Smart Flow Control.

**Policy List** + Add Batch Delete

Up to 30 entries can be added.

<input type="checkbox"/>	Policy Name	IP / IP Range	Bandwidth Type	Uplink Rate
No Data				

**Add** ×

\* Policy Name

\* IP / IP Range

Bandwidth Type

Uplink Rate \* CIR  \* PIR

Downlink Rate \* CIR  \* PIR

Status

Cancel OK

## 4.21 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.

**Port Flow Control**  
Port Flow Control can mitigate the data congestion caused by ports at different speeds and improve the network speed.

Enable

Save

## 4.22 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.

**Other Settings**

Enable Advanced  ?

Firewall

Disable ICMPv6 Error

Messages

Destination Unreachable

Datagram Too Big

Time Exceeded

Parameter Problem

Save

## 4.23 Configuring UPnP

### 4.23.1 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.

### 4.23.2 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 Plug and Play)** UPnP is a new Internet protocol aimed at improving communication between devices. 

Enable

Save

**UPnP List**

Protocol	App	Client IP Address	Internal Port	External Port
No UPnP Device				

## 4.24 Configuring Connectivity Detection

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

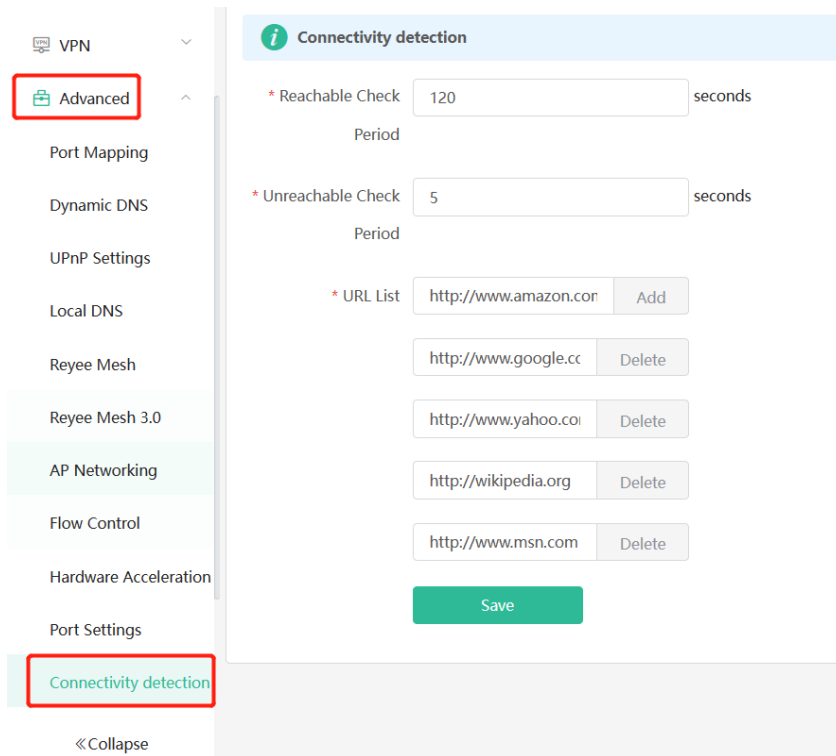
PC View: Choose **More** >  **Advanced** > **Connectivity detection**.

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.



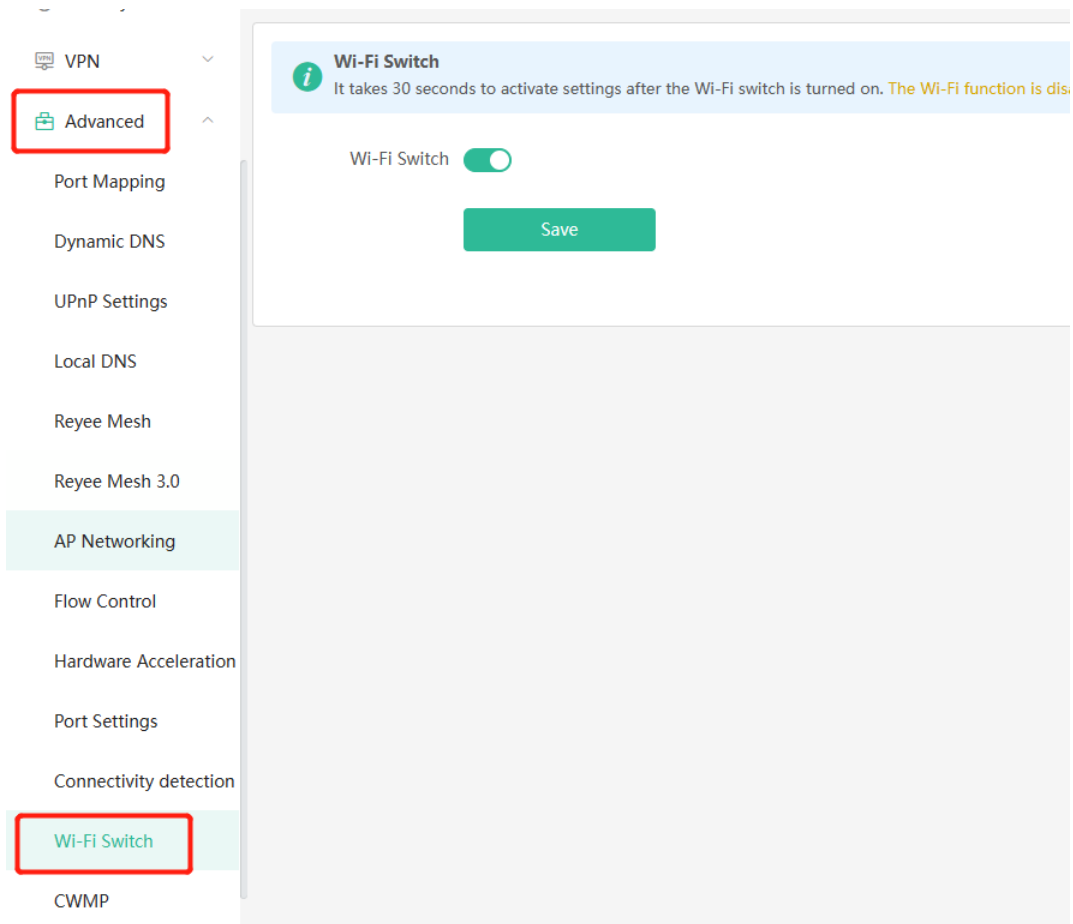
## 4.25 Enabling Wi-Fi Switch

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.



## 4.26 Configuring PPTP VPN

### 4.26.1 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.

### 4.26.2 Configuring PPTP Server

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

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

---

**PPTP Settings**

Enable

PPTP Type  Server    Client

\* Local Tunnel IP

\* VPN Subnet/Netmask  ?

\* DNS Server

MPPE  Disable    Enable

\* PPP Hello Interval  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 Client List**   Username/Password      **+ Add**   **Batch Delete**

Up to 30 entries can be added.

<input type="checkbox"/>	Username	Password	Network Mode	Status	Action
No Data					

Add User×

\* Username

\* Password  👁

Network Mode  ▾

Status

### 4.26.3 Configuring PPTP Client

Choose **More > Switch to PC view > More >  VPN > PPTP.**

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 Tunnel List

**PPTP Settings**

Enable

PPTP Type  Server  Client

\* Username

\* Password  

Interface

Tunnel IP  Dynamic  Static

\* Server Address

\* Peer Subnet

MPPE  Disable  Enable

Work Mode  NAT  Router

\* PPP Hello Interval  seconds

**Save**

## 4.27 Configuring OpenVPN

### 4.27.1 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.

### 4.27.2 Configuring OpenVPN (Server Mode)

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

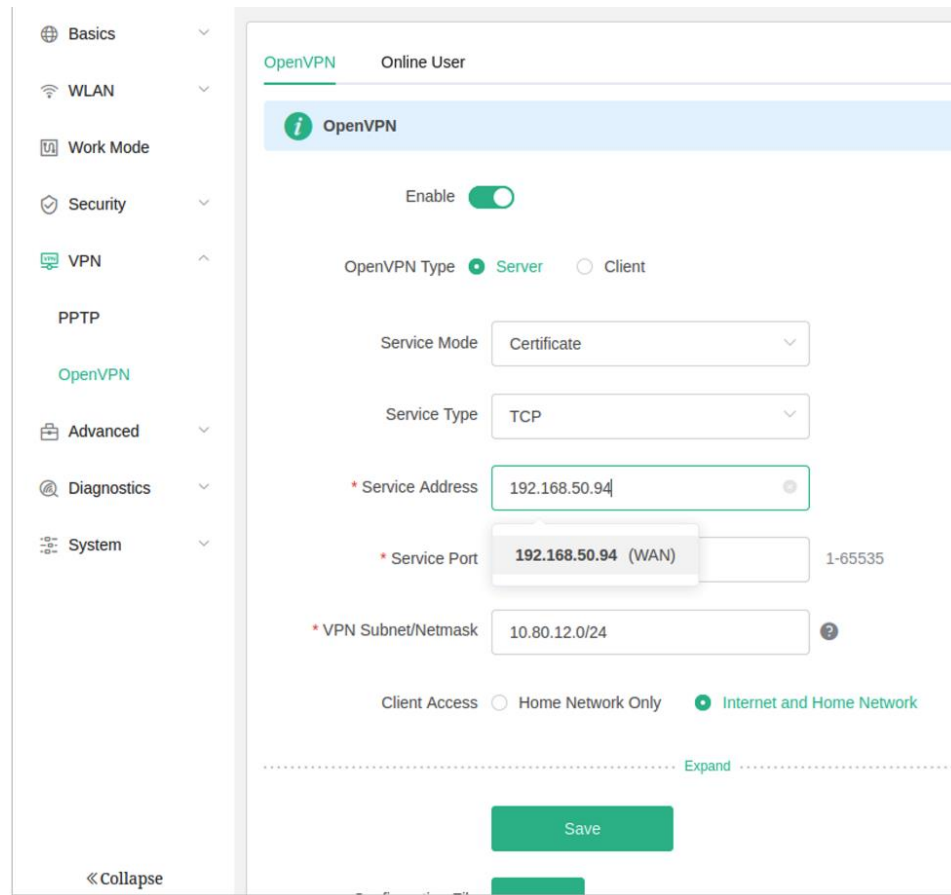
PC View: Choose **More** >  **VPN** > **OpenVPN**.



### 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 4-2 Configuring OpenVPN Server



- (4) (Optional) Advanced settings.

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

Collapse

TLS Authentication  ?

Allow Data Compression  ?

Cipher  ?

Deliver DNS  ? +

Authentication

- (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 4-1 Configuration Items of OpenVPN Server Mode**

Item	Description
Server Mode	<p>The device supports Account, Certificate and Account &amp; Certificate authentication modes:</p> <ul style="list-style-type: none"> <li>• Account mode: The correct account name, password, and CA certificate are required to connect to the server. The configuration is simple.</li> <li>• Certificate mode: The client needs the correct CA certificate, client certificate, and pre-shared key to connect to the server.</li> <li>• Account &amp; 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.</li> </ul>
Service Type	<p>All communication on OpenVPN is based on a single IP port, using UDP or TCP protocols.</p> <p>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.</p>
Service Address	The server address used for client docking, which can be a domain name.
Service Port	The port used by the OpenVPN service process. The official port assigned to OpenVPN is 1194. If the port is occupied or disabled on the local network, the server log will prompt a log indicating port binding failure. In this case, the port number

Item	Description
	needs to be changed.
VPN Subnet/Netmask	The IP address pool delivered to VPN clients, in the form of a network segment. The first address in that segment is reserved by the server. For example, if 10.80.12.0/24 is set, then the VPN server address is 10.80.12.1.
Client will access	You can choose <b>Home Network Only</b> or <b>Internet and Home Network</b> <ul style="list-style-type: none"> <li>• <b>Home Network Only:</b> The client can only access the LAN segment on the server.</li> <li>• <b>Internet and Home Network:</b> 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.</li> </ul>
TLS Authentication	TLS Authentication can enhance the security of OpenVPN. Once enabled, the client must import the TLS key. (The version of the peer OpenVPN client must be later than 2.40.)
Allow Data Compression	Once enabled, the device will compress the transmitted data to save bandwidth, but it will occupy a certain amount of CPU resources. This configuration must be consistent on the client and the server to avoid any potential connection failures.
CIPher	Encrypts the data to prevent it from being intercepted midway. The default encryption standard is AES-128-CBC. If the server is configured in auto mode, the client can be configured with any data encryption algorithm, which will be automatically matched by the server. If a specific encryption method is configured on the server, the client must be configured with the same encryption method. Otherwise, the connection between the server and the client cannot be established.
Deliver DNS	The information pushed by the server to the client's DNS. Currently only Windows clients are supported.
Authentication	The digest algorithm informed by the server to the client. The default value is SHA256.

## 2. Adding OpenVPN clients

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

Enable **Status** and click OK.

VPN Client List					
		Username/Password <input type="text"/>		<input type="button" value="+ Add"/>	<input type="button" value="Batch Delete"/>
Up to 30 entries can be added.					
<input type="checkbox"/>	Username	Password	Status	Action	
No Data					
<input type="button" value="1"/> <input type="button" value="10/page"/>				Total 0	

### Add User

\* Username

\* Password

Status



### 4.27.3 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

---

i
OpenVPN

Enable

OpenVPN Type  Server  Client

Server Mode Account & Certificate

\* Username Username of OpenVpn user ?

\* Password Password of OpenVpn user ?

\* Client Config .ovpn Browse

Save

**Table 4-2 Configuration Items of OpenVPN Client Web Setting Configuration Mode**

Parameter	Description
Server Mode	<p>The device supports Account, Certificate and Account &amp; Certificate authentication modes:</p> <ul style="list-style-type: none"> <li>● Account mode: The correct account, password, and CA certificate is required to connect to the server. The configuration is simple.</li> <li>● Certificate mode: The client needs the correct CA certificate, client certificate, and pre-shared key to connect to the server.</li> <li>● Account &amp; 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.</li> </ul>
Username and password	<p>Enter the username and password configured on the server.</p> <p>This parameter can be left blank if the <b>Server Mode</b> is <b>Certificate</b>.</p>
Client Config	<p>Click <b>Browse</b> and select the client configuration file with the suffix .ovpn.</p>

## 4.27.4 Typical Configuration Example

### 1. Requirements

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

### 2. Topology



### 3. Notes

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

### 4. Configuring OpenVPN Server (Device A)

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

Use the default settings unless there are specific requirements.

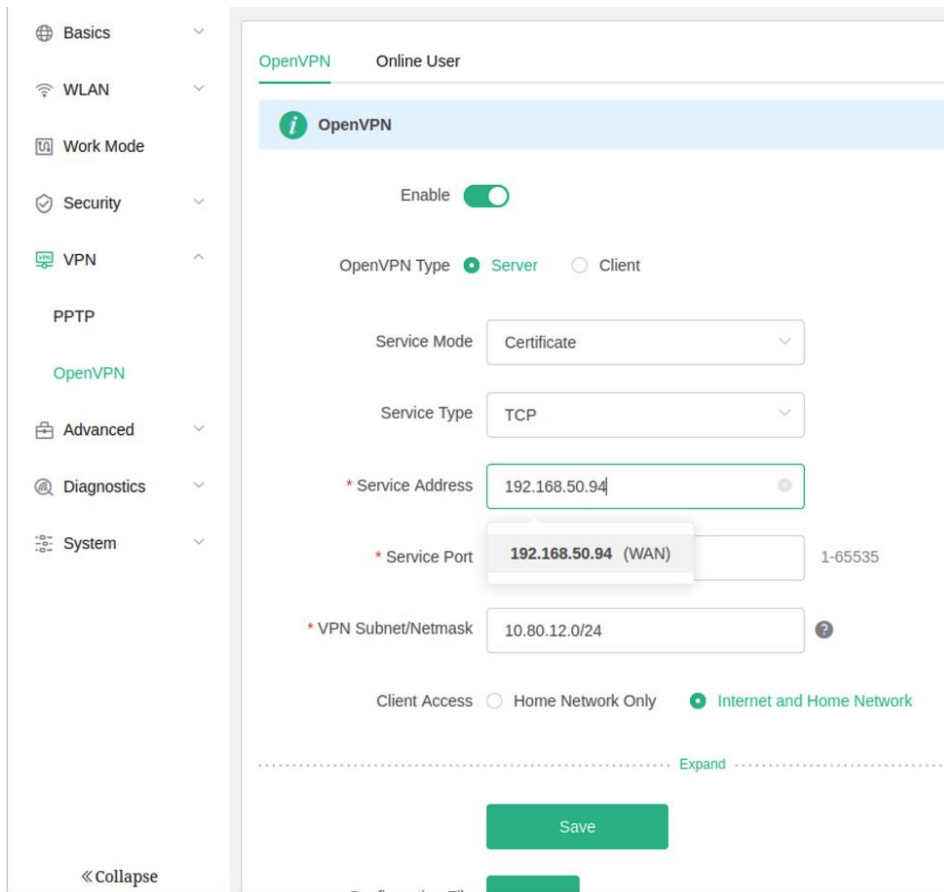
---

#### Note

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

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

---



(2) Click **Save**. The OpenVPN settings are saved.

(3) The following table describes the OpenVPN server configuration.

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

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

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

..... Collapse .....

TLS Authentication  ?

Allow Data Compression  ?

Cipher  ?

Deliver DNS  ? +

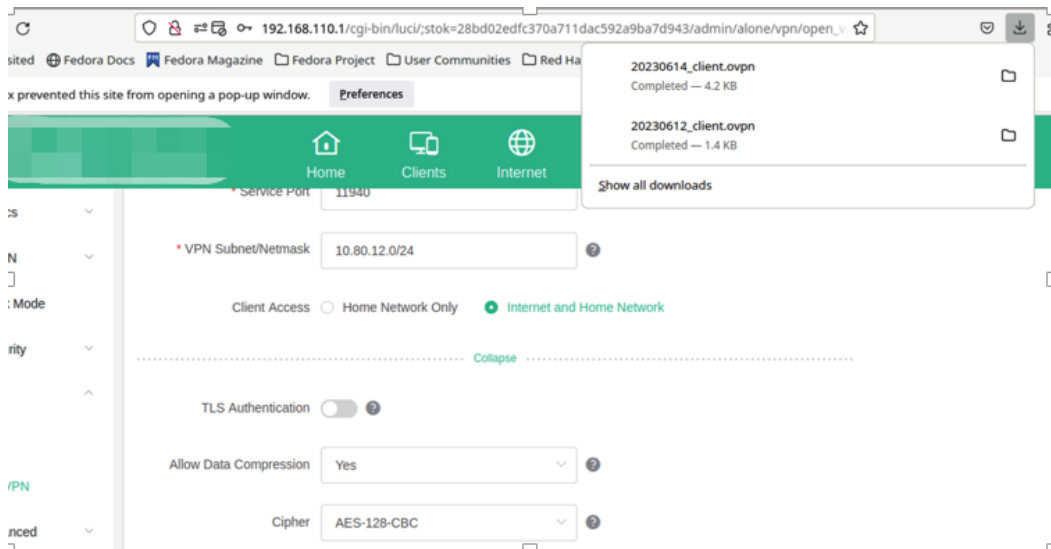
Authentication

Configuration File

CA Certificate

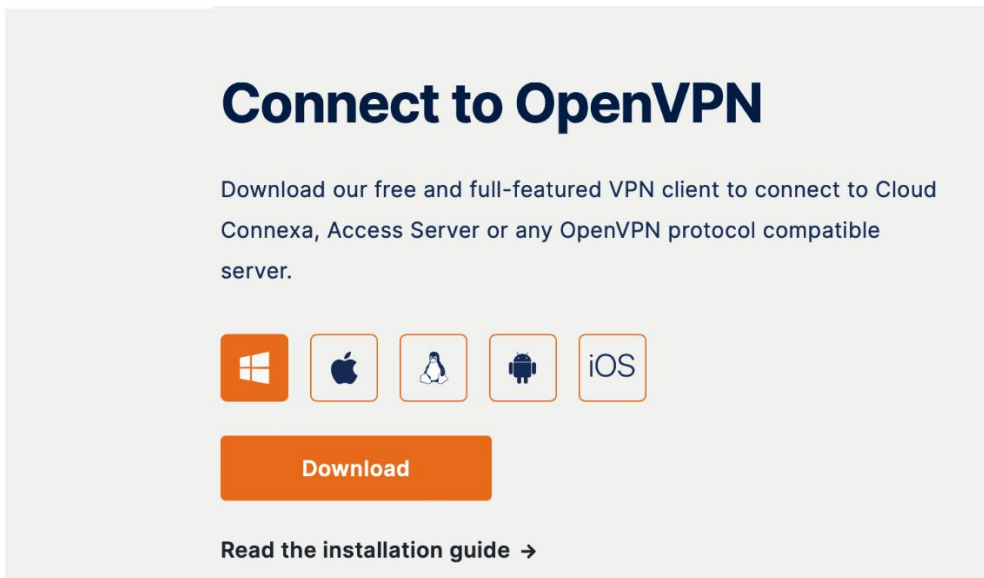
(5) Click **Export** next to **Configuration File** to export the .ovpn file which can be imported on the client side. Unless there are specific requirements, you do not need to export the CA certificate.



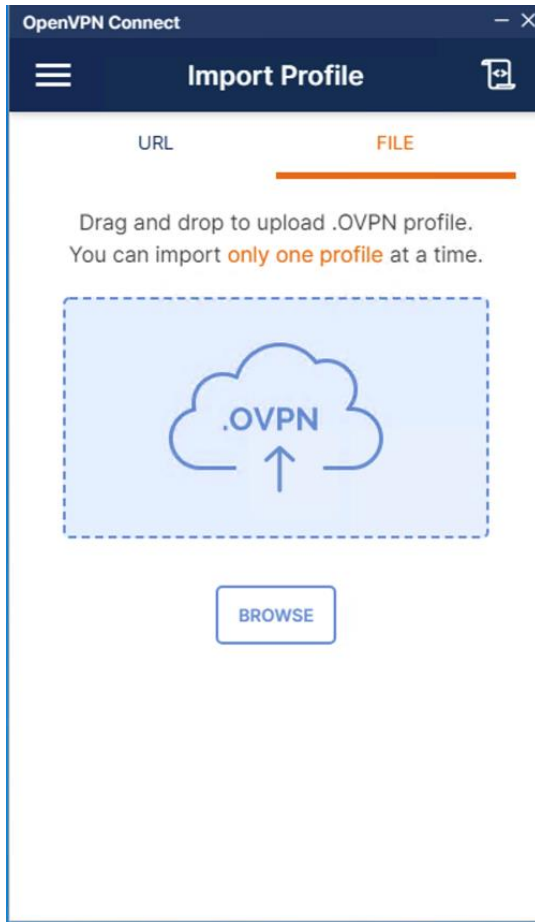


### 5. Configuring OpenVPN Client (Use Windows Client as an Example)

- (1) Download the OpenVPN client (<https://openvpn.net>).



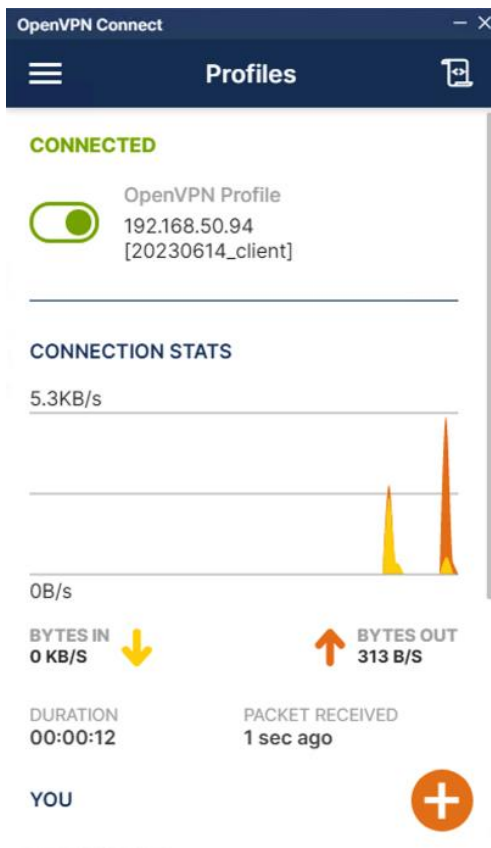
- (2) Open the Windows OpenVPN client and choose the **File** tab.



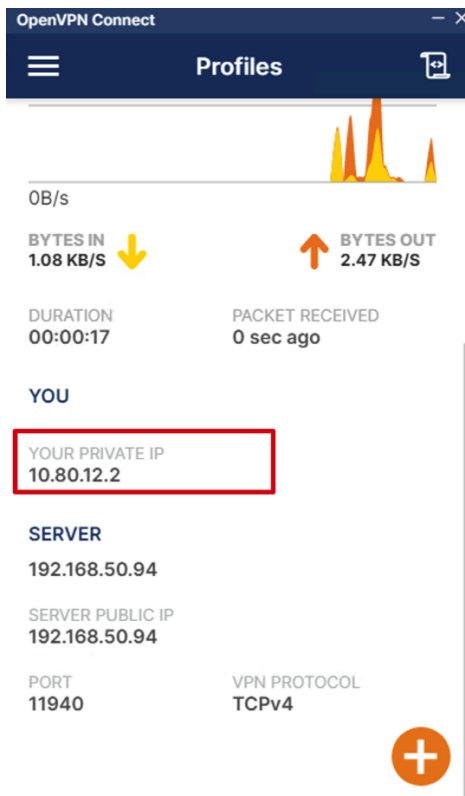
(3) Click **BROWSE** and select the .ovpn file exported from the server side.



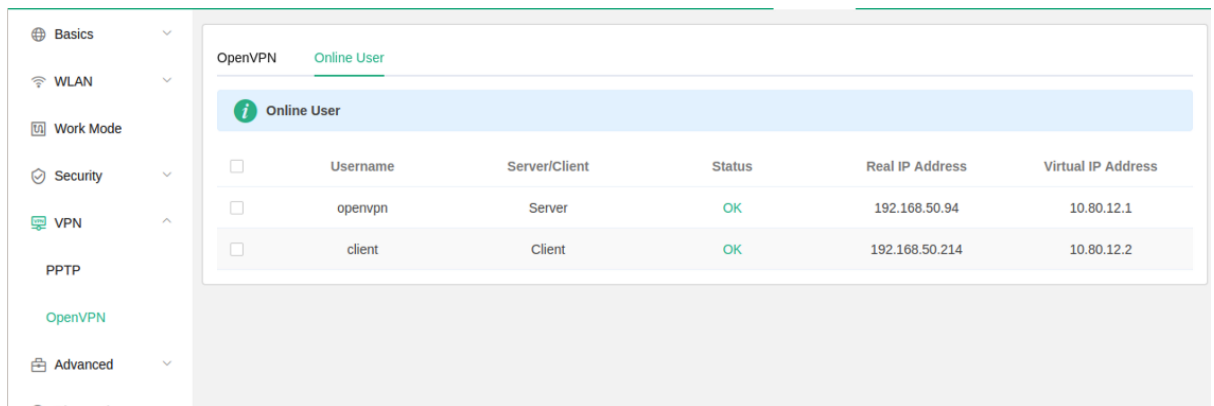
(4) Click **CONNECT** to connect to the OpenVPN server.



Check the obtained virtual IP addresses.



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



The screenshot shows the Eweb management system interface. On the left is a navigation menu with categories: Basics, WLAN, Work Mode, Security, VPN, PPTP, OpenVPN, and Advanced. The main content area is titled 'OpenVPN Online User'. Below the title is a table with the following data:

<input type="checkbox"/>	Username	Server/Client	Status	Real IP Address	Virtual IP Address
<input type="checkbox"/>	openvpn	Server	OK	192.168.50.94	10.80.12.1
<input type="checkbox"/>	client	Client	OK	192.168.50.214	10.80.12.2

# 5 Configuring the Repeater Mode

## 5.1 Access Point


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

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

PC View: **More > Work Mode**

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

---

 **Caution**

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

---

**Figure 5-1 Access Point Settings**

The device is working in **Router** mode.

Router  **Access Point**  Wireless Repeater  WISP



This mode allows you to establish a wired connection between a primary router and a secondary router, extending network coverage.  
Cable Connection: Connect the WAN port of the local router to the LAN port of the primary router.

### Access Point

Check

**Figure 5-2 After Clicking Check**

The router is currently in **Router** mode.

Router
  **Access Point**
 Wireless Repeater
  WISP

**i** In this mode, this router can be wireless connected to the primary router to extend the Wi-Fi coverage.  
How to connect: Connect the WAN port of this router to the LAN port of the primary router.

### Access Point

Status **Cable Plugged**

IP Address: 10.52.0.200

\* Local Router   
SSID(2.4G)

\* Local Router SSID(5G)

Password  

Save

## 5.2 Wireless Repeater

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

### **i** 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 device, 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.

---

#### 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 5-3 Selecting the Wi-Fi Signal of the Primary Router and Connecting to the Wi-Fi Network**

**2.4G Wi-Fi List** Select a target Wi-Fi.

Q SSID 2.4G Re-scan

SSID	BSSSID	Security	Channel	RSSI
WiFi_77FC				High
xiaoxi	50:64:2b:0e:77:fd	WPA2PSK	3	-28 dBm High
WLS-PRO-140	02:0d:9e:85:bb:1 1	WPA2PSK	10	-49 dBm High
ruijie-802.1x	06:05:88:c6:65:c8	WPA2PSK	1	-57 dBm High
22222	46:0d:9e:e7:e9:18	WPAPSK	11	-64 dBm Medium
DPK...t...	20:0d:0e:7e:0:18	OPEN	11	-67 dBm

**Wireless Repeater**

**Primary Router**

\* SSID RuiJie-ChengDu Select

\* Wi-Fi Password

**Local Router**

Local Router Wi-Fi  New Wi-Fi  Same as Primary Router Wi-Fi

\* SSID(2.4G) RuiJie-ChengDu\_plus

\* SSID(5G) RuiJie-ChengDu\_plus\_5G

Wi-Fi Password A blank value indicates no encryption.

Save

## 5.3 WISP

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

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

PC View: **More > Work Mode**

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

**WAN**

\* Internet DHCP

No username or password is required for DHCP clients.

Next

(2) Select the Wi-Fi signal of the primary router and enter its Wi-Fi password. You can configure a new Wi-Fi network or have a Wi-Fi network the same as that of the primary router:

If you select **Same as Primary Router Wi-Fi**, the Wi-Fi settings of the primary router are automatically synchronized to the current router. Generally, clients merge Wi-Fi signals with the same SSID into one Wi-Fi signal, and they can search out only the Wi-Fi signal of the primary router.

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

### Caution

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



### Wireless Repeater

#### Primary Router

\* SSID

#### 2.4G Wi-Fi List Select a target Wi-Fi.

SSID	BSSID	Security	Channel
dt680AR-2G	e2:05:46:56:59:92	OPEN	6
@@ZYQ-WIFIDOG	16:2b:a6:43:2f:89	OPEN	6
@@ZYQ-PORTAL	12:2b:a6:43:2f:89	OPEN	6
@@ZYQ-中文测试-UTF8	0e:2b:a6:43:2f:89	OPEN	6
@@ZYQ-中文测试-GBK	0a:2b:a6:43:2f:89	OPEN	6
@@ZYQ-wechat	1a:2b:a6:43:2f:89	OPEN	6

### Wireless Repeater

#### Primary Router

\* SSID **RuiJie-ChengDu**

Select an SSID for the primary router.

\* Wi-Fi Password

#### Local Router

Local Router Wi-Fi  New Wi-Fi  Same as Primary Router Wi-Fi

\* SSID(2.4G)

\* SSID(5G)


Wi-Fi Password

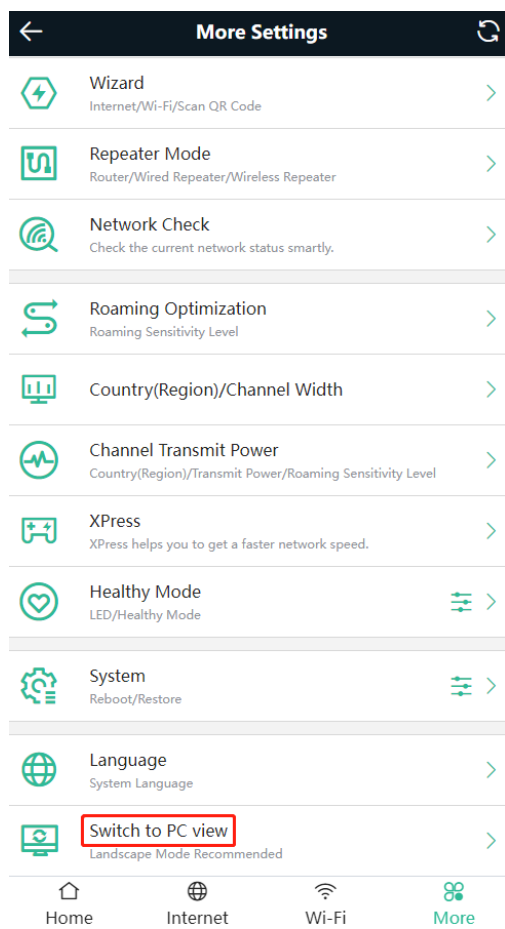
# 6 System Settings

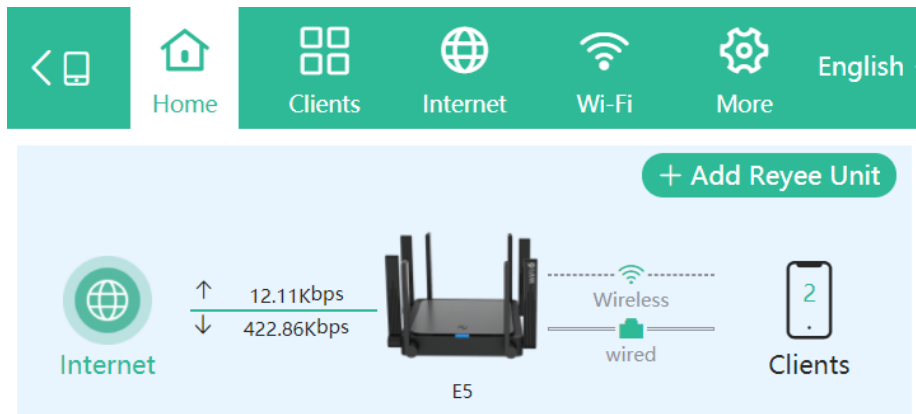
## 6.1 Switching to PC View

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  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).






### Device Details

Model: E5  
Hostname: [Reeye](#)  
SN: G1S0CU6000518  
MAC: C0:A4:76:2E:7E:C3  
Uptime: 3 days 5 hours 17 minutes 1 second  
Systime: 2024-01-15 03:22:14  
Hardware Ver: 2.00  
Software Ver: ReeyeOS 1.301.2323

### Wi-Fi



## 6.2 Configuring the Login Password

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

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

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

← Password ↻

 Change the login password. Please log in again with the new password later. 

\* Old Password

\* New Password

\* Confirm Password

Save

## 6.3 Remote Access

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

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

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

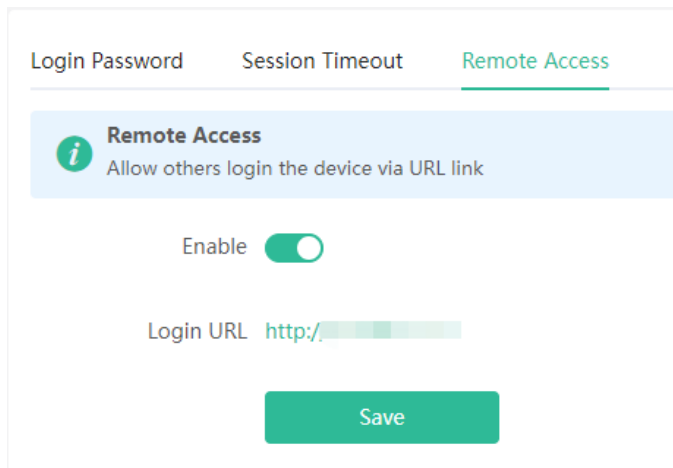
---

### Caution

This this may cause attack. Therefore, exercise caution when performing this operation.

This function cannot be enabled if the device management password has a weak security strength, such as being purely numerical or alphabetical. See [6.2 Configuring the Login Password](#) to configure a strong and secure device management password.

---



Login Password    Session Timeout    **Remote Access**

**Remote Access**  
Allow others login the device via URL link

Enable

Login URL

Save

## 6.4 Restoring Factory Settings

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

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

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

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

Click **Reset** to restore factory settings.

---

### Caution

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

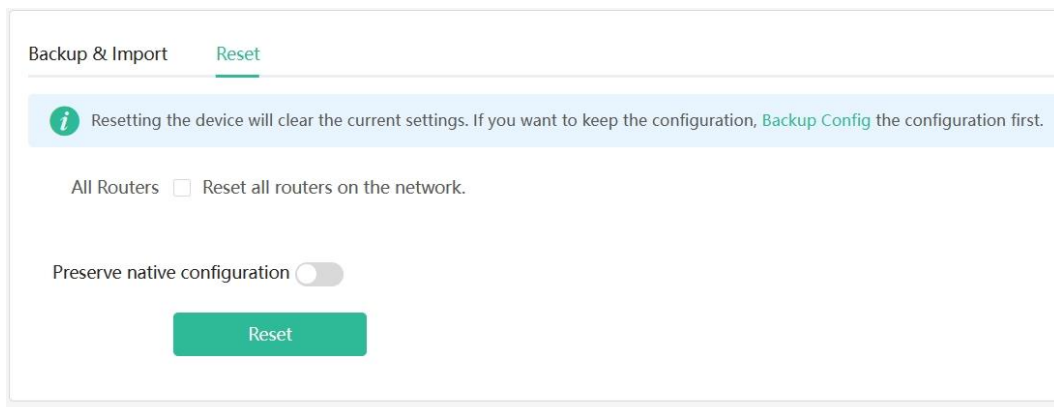
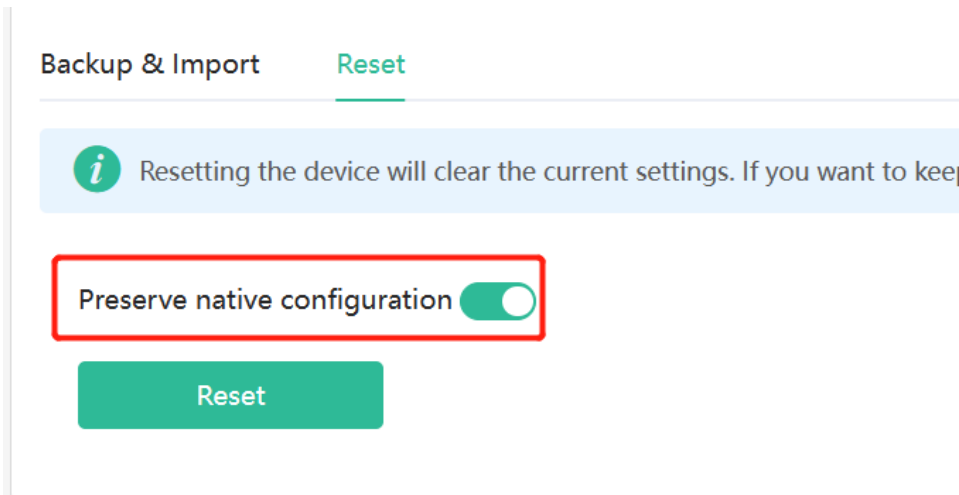
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### Note

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

---



## 6.5 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 ↻

*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**


## 6.6 Configuring Scheduled Reboot

### 6.6.1 Getting Started

Confirm that the system time is accurate to avoid network interruption caused by device reboot at the wrong time. For details, see [6.5 Configuring System Time](#).

### 6.6.2 Configuration Steps

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

← **Scheduled Reboot** ↻

Enable

Day

Mon  Tue  Wed  Thu

Fri  Sat  Sun


Time

03 : 00

Save


## 6.7 Performing Online Upgrade and Displaying the System Version

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


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

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

---

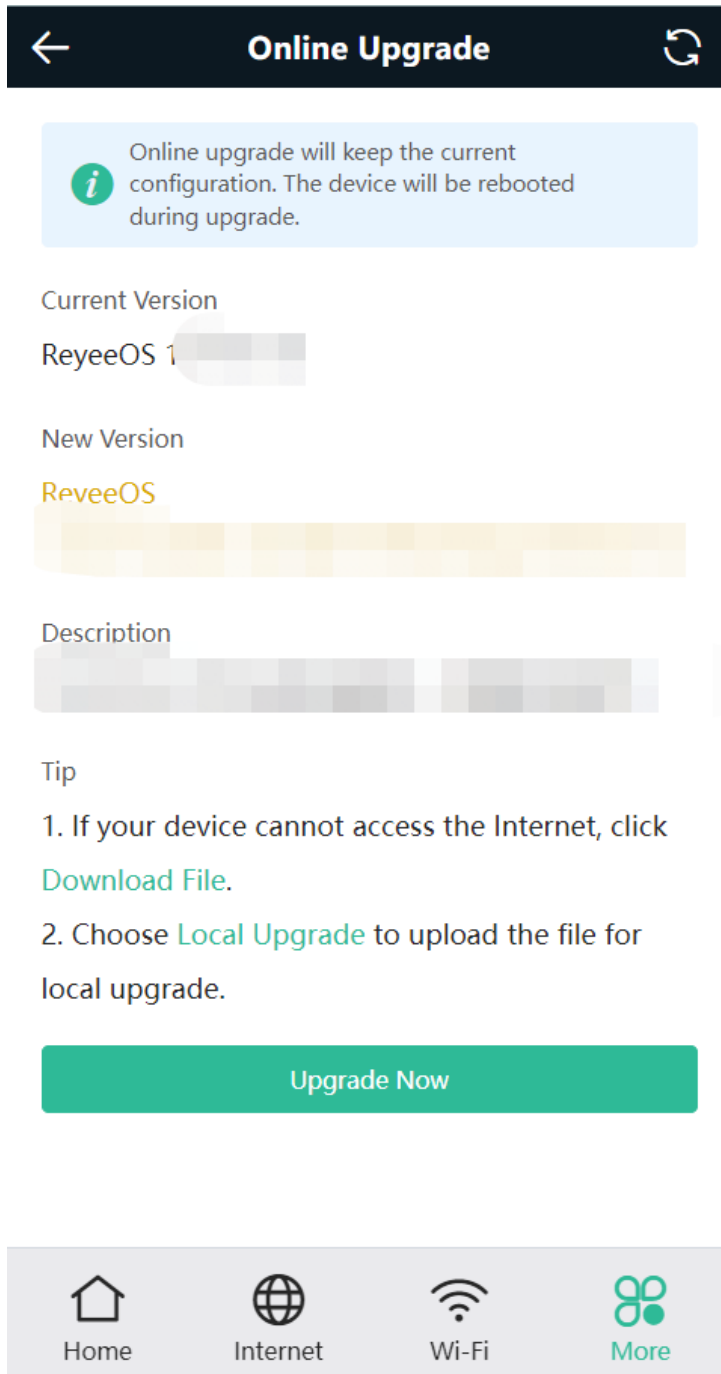
 **Caution**

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

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

---

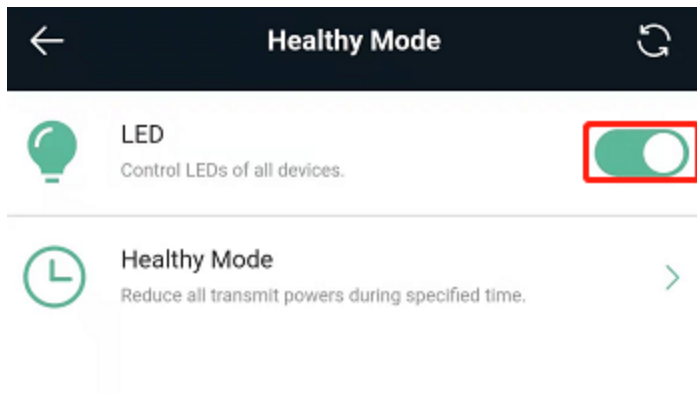




## 6.8 Turning On/Off the Indicator

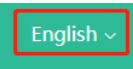
Mobile Phone View: Choose **More** > **Healthy Mode**. > **LED**

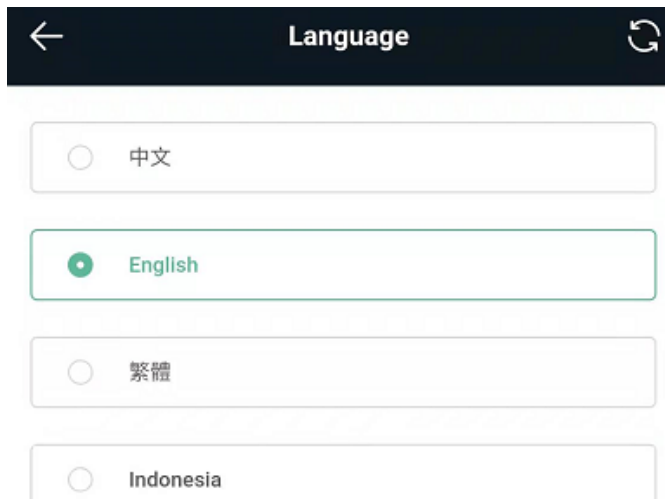
PC View: Choose **More** >  **System** > **LED**.



## 6.9 Switching System Language

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

PC View: Click  in the upper right corner of the page.  
Click a required language to switch the system language.




## 6.10 Enabling Alerts

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

PC View: Choose **More** >  **Diagnostics** > **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.

 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 Unfollowed Alarm**, select the alarm you want to follow again. Click **OK**, and the device will keep following the corresponding alerts.


**Table 6-1 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.

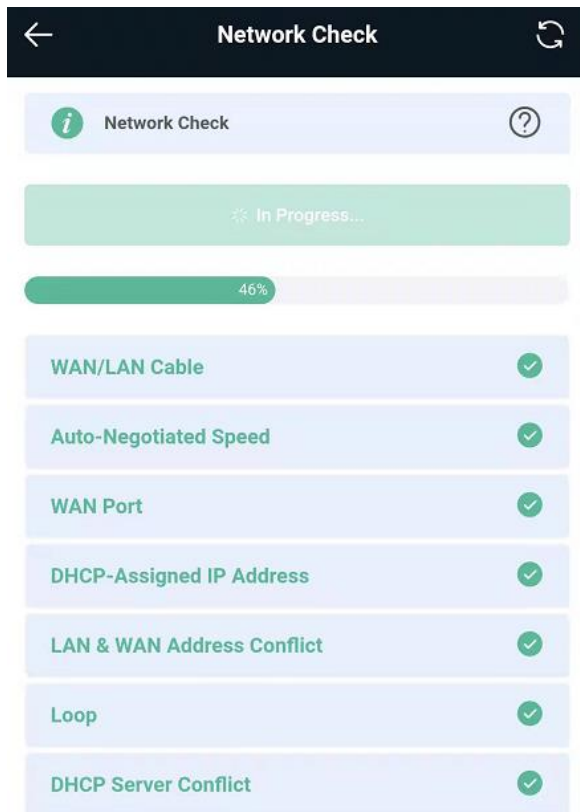
Alerts	Suggested Action
The IP address of the downlink address is already in use.	Please check the IP address of the downlink device. If it is a static IP address, please change the IP address.
A MAC address conflict or loop error occurs.	Please troubleshoot the MAC address conflict or loop error.
No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

## 6.11 Diagnosing Network Problems

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

PC View: Choose **More** >  **Diagnostics** > **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.



## 6.12 Network Diagnosis Tools

### 1. Network Test Tool

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

PC View: Choose **More** >  **Diagnostics** > **Network Tools**.

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

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

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

**Network Tools**

Tool  Ping  Traceroute  DNS Lookup

\* IP Address/Domain

\* Ping Count

\* Packet Size  Bytes


Result

## 2. Packet Capture Tool


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

PC View: Choose **More >  Diagnostics > Packet Obtaining**

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

 **Caution**

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

**Packet Obtaining** 

Interface

Protocol


IP Address

File Size Limit  Available Memory **153.43 M**

Packet Count Limit

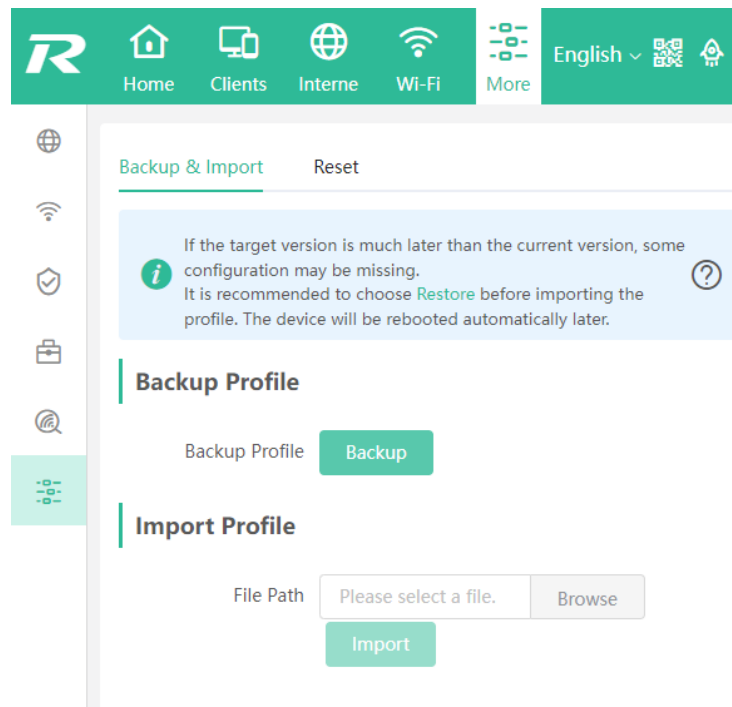
## 6.13 Configuring Config Backup and Import

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.



## 6.14 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


### Session Timeout


\* Session Timeout

seconds

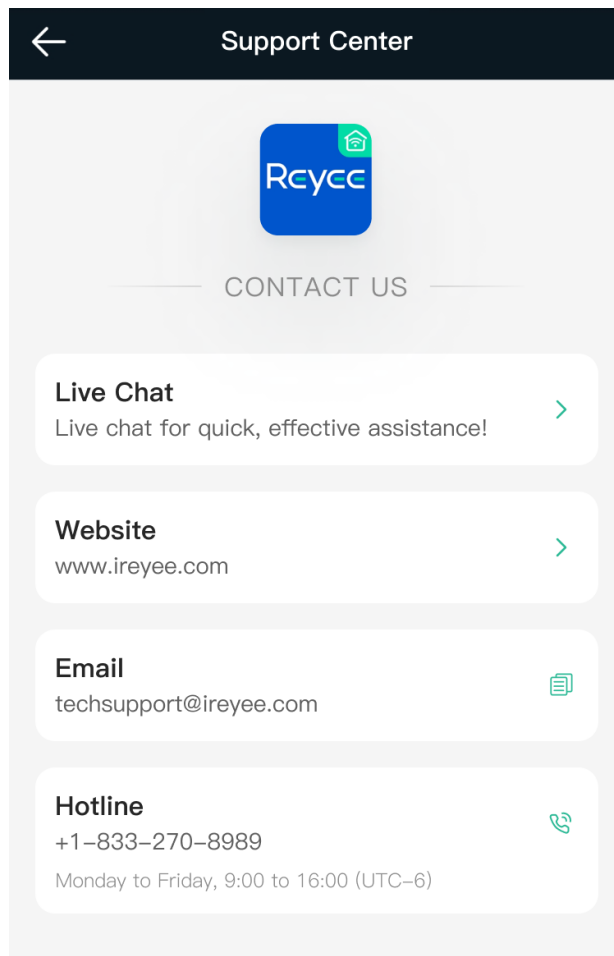
Save

## Contact Us

Mobile Phone View: Click on the  icon in the top right corner of the home page.

PC View: Click on the  icon in the top right corner of the navigation bar.

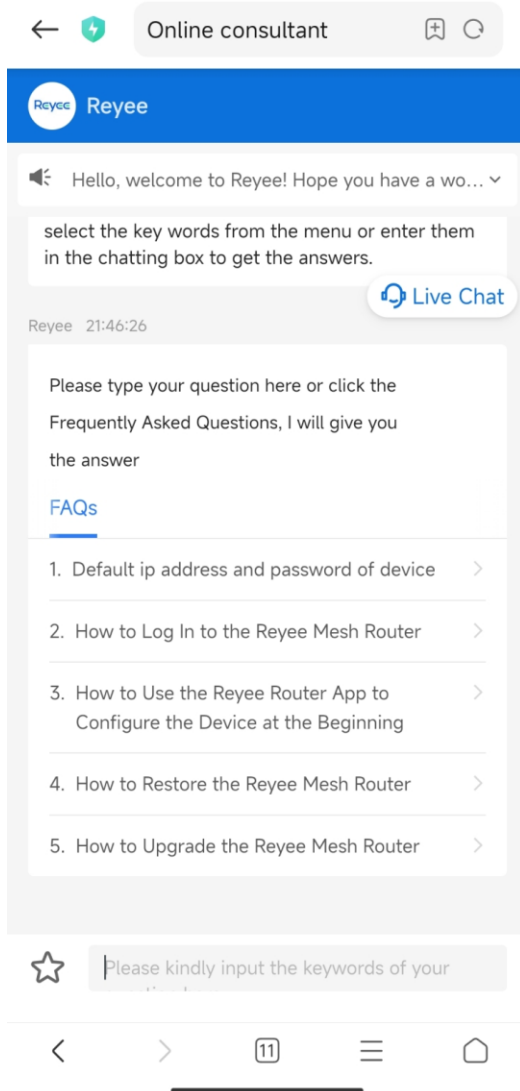
Mobile Phone View:



- Live Chat

By clicking **Live Chat**, you will be directed to the online consultation page on the official website. There, you can enter your question, and receive a solution to your inquiry.





- Website

By clicking **Website**, you will be redirected to the Reyee official website at [www.ireeye.com](http://www.ireeye.com).

- Email

By clicking the icon next to **Email**, you can easily send an email with your questions to the provided email address.

- Hotline

By clicking the icon next to **Hotline**, you can call our customer support team for assistance with your questions.

# 7 FAQs

## 7.1 How Do I Restore the Router to Factory Settings?

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

## 7.2 What Should I Do If I Forgot the Password?

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

## 7.3 How Do I Manage the Router When Used As a Range Extender After Installation is Successful?

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

If you are unable to access the device's web interface using the default IP address, you can use the alternative methods specified in [2.5.4 Manage the Device After Successful Setup](#).

## 7.4 What Should I Do If the System LED Keeps Flashing After the Router is Powered On?

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

If the system LED still fails to turn solid on, please email us at [techsupport@ireeye.com](mailto:techsupport@ireeye.com).