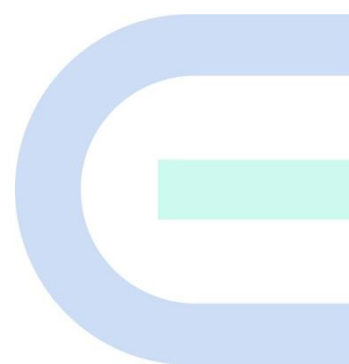


Ruijie Reyee RG-EW1200R Mesh Repeater

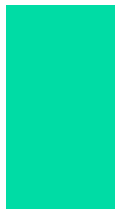
Web-based Configuration Guide ReyeeOS 1.85



Document Version: V1.0

Date: 2022.05.10

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Preface

Intended Audience

This document is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Technical Support

- Official website of Ruijie Reye: <https://www.ruijienetworks.com/products/reeye>
- Technical Support Website: <https://ruijienetworks.com/support>
- Case Portal: <https://caseportal.ruijienetworks.com>
- Community: <https://community.ruijienetworks.com>
- Technical Support Email: service_rj@ruijienetworks.com

Conventions

1. GUI Symbols

| Interface symbol | Description | Example |
|------------------|--|---|
| Boldface | 1. Button names 2. Window names, tab name, field name and menu items 3. Link | 1. Click OK . 2. Select Config Wizard . 3. Click the Download File link. |
| > | Multi-level menus items | Select System > Time . |

Signs

The signs used in this document are described as follows:

Warning

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

Caution

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

Note

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

Specification

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

2. Note

This manual introduces the features of the RG-EW1200R mesh repeater and instructs users to configure the device.

Contents

| | |
|---|----|
| Preface | 1 |
| 1 Overview | 1 |
| 2 Fast Internet Access..... | 3 |
| 2.1 Connecting the Device..... | 3 |
| 2.2 Login | 5 |
| 2.3 Network Settings (As a Mesh Repeater) | 5 |
| 2.3.1 Getting Started..... | 5 |
| 2.3.2 Configuration Steps | 6 |
| 2.3.3 Verifying Configuration..... | 7 |
| 2.4 Network Settings (As a Router) | 8 |
| 2.4.1 Getting Started..... | 8 |
| 2.4.2 Configuration Steps | 8 |
| 2.4.3 Verifying Configuration..... | 10 |
| 3 Wi-Fi Network Settings..... | 11 |
| 3.1 Changing the SSID and Password | 11 |
| 3.2 Hiding the SSID | 11 |
| 3.2.1 Overview | 11 |
| 3.2.2 Getting Started..... | 12 |
| 3.2.3 Configuration Steps | 12 |
| 3.3 Configuring the Wi-Fi | 13 |
| 3.3.1 Overview | 13 |
| 3.3.2 Configuration Steps | 13 |
| 3.4 Configuring the Wi-Fi Blacklist or Whitelist..... | 14 |

| | |
|---|----|
| 3.4.1 Overview | 14 |
| 3.4.2 Configuration Steps | 14 |
| 3.5 Optimizing the Wi-Fi Network | 15 |
| 3.5.1 Overview | 15 |
| 3.5.2 Getting Started | 15 |
| 3.5.3 Configuration Steps | 16 |
| 3.6 Configuring the Healthy Mode | 20 |
| 4 Networks Settings | 22 |
| 4.1 Configuring Internet Connection Type..... | 22 |
| 4.2 Changing the Address of a LAN Port | 22 |
| 4.3 Changing the MAC Address | 23 |
| 4.4 Changing the MTU..... | 24 |
| 4.5 Configuring the Repeater Mode | 25 |
| 4.5.1 Wired Repeater | 25 |
| 4.5.2 Wireless Repeater | 25 |
| 4.5.3 WISP | 27 |
| 4.6 Online Time Control..... | 28 |
| 4.7 Configuring XPress..... | 30 |
| 4.8 Configuring the DHCP Server | 31 |
| 4.8.1 Overview | 31 |
| 4.8.2 Configuration Steps | 31 |
| 4.9 Configuring DNS..... | 34 |
| 4.9.1 Local DNS | 34 |
| 4.9.2 DNS Proxy | 34 |

| | |
|--|----|
| 4.10 Enabling Port-based Flow Control..... | 35 |
| 4.11 Network Problem Diagnosis | 35 |
| 5 System Settings | 37 |
| 5.1 Configuring the Login Password..... | 37 |
| 5.2 Restoring Factory Settings | 37 |
| 5.3 Configuring System Time | 38 |
| 5.4 Configuring Scheduled Reboot..... | 39 |
| 5.4.1 Getting Started..... | 39 |
| 5.4.2 Configuration Steps | 39 |
| 5.5 Performing Online Upgrade and Displaying the System Version | 39 |
| 5.6 Turning On/Off the Indicator | 40 |
| 5.7 Switching System Language | 41 |
| 5.8 Network Diagnosis Tools..... | 41 |
| 5.9 Configuring Config Backup and Import..... | 43 |
| 5.10 Configuring Session Timeout Duration..... | 44 |
| 5.11 Switching to PC View..... | 45 |
| 6 FAQ | 46 |
| 6.1.1 How Can I Restore the Factory Settings? | 46 |
| 6.1.2 How Can I Do If I Forgot the Password of Mesh Repeater? | 46 |
| 6.1.3 How Do I Manage the Mesh Repeater After Installation Is Successful?..... | 46 |

1 Overview

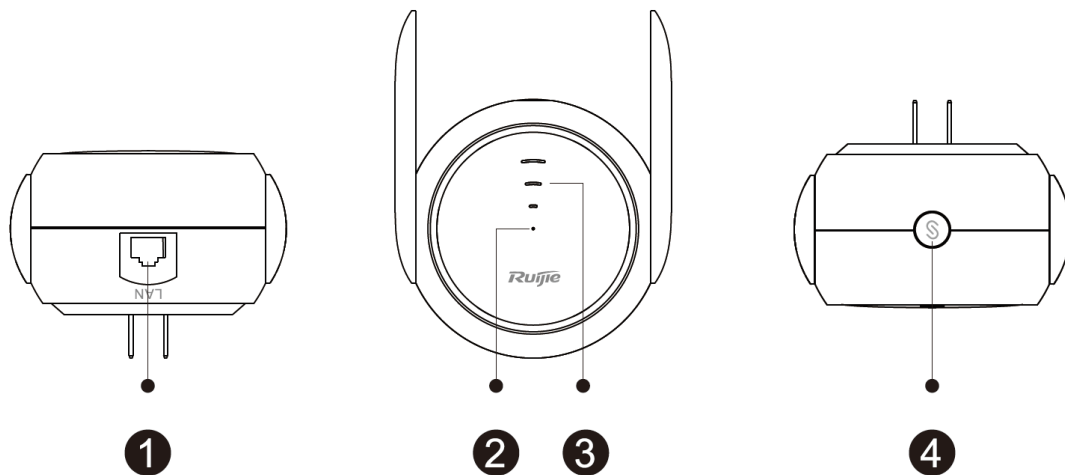
The EW1200R mesh repeater uses circular binaural antennas to support 2.4 GHz and 5 GHz dual bands and is equipped with two independent signal amplification chips. It can extend the dual-band Wi-Fi coverage. The maximum wireless rate of the entire device is 1200 Mbps. The EW1200R can extend the signals of other devices, and can also connect to the Internet independently.

The signals that the EW1200R can extend are:

- Wi-Fi of any model from Ruijie.
- Wi-Fi of other vendors' devices. The compatibility problem may exist.
- Open hotspots such as CMCC, Chinanet and merchant stores. The repeater function may be forbidden. Such signals may fail to be extended. In addition, open networks have security risks, so it is not recommended to extend such signals.

Caution

The supported encryption types include WPA-PSK, WPA2-PSK, and WPA-PSK/WPA2-PSK. If you want to extend encrypted signal, please enter the correct Wi-Fi password.



1.1 Network Interface

In the factory settings state, the network interface works in WAN mode, which can be connected to an optical modem as a router. In this situation, you cannot log in to the web page of the mesh repeater through the network interface. To log in to the web page of the mesh repeater, connect to the Wi-Fi of mesh repeater.

1.2 System Status LED

| Status | | Description |
|--------|----------|--|
| Green | Solid on | The device is functioning properly. |
| | Blinking | The device is starting up. / The device is restoring factory settings. |
| Orange | Solid on | The device fails to access the Wi-Fi network of the primary router. |
| | Blinking | The device is accessing the Wi-Fi network of the primary router. |
| Red | Solid on | The network is unreachable. |

1.3 Signal Status LED

| Status | | Description |
|----------------------|---------------|--|
| Blinking alternately | | The device is accessing the Wi-Fi network of the primary router. |
| White | Three bars on | The signal strength is high. |
| | Two bars on | The signal strength is medium. |
| | One bar on | The signal strength is low. |
| Off | | <ol style="list-style-type: none"> 1. The device is set to the router mode. 2. The device fails to access the Wi-Fi network of the primary router. |

1.4 Mesh/WPS Button

| Mesh/WPS Button | Description |
|------------------------------|--|
| Long press for more than 5s | The device restores factory settings. |
| Short press for less than 2s | <p>Three functions are triggered at the same time:</p> <ol style="list-style-type: none"> 1. Turn on or off the signal status LED. 2. Perform mesh networking as the Reyee primary device. 3. Establish a WPS network with other routers. |

2 Fast Internet Access

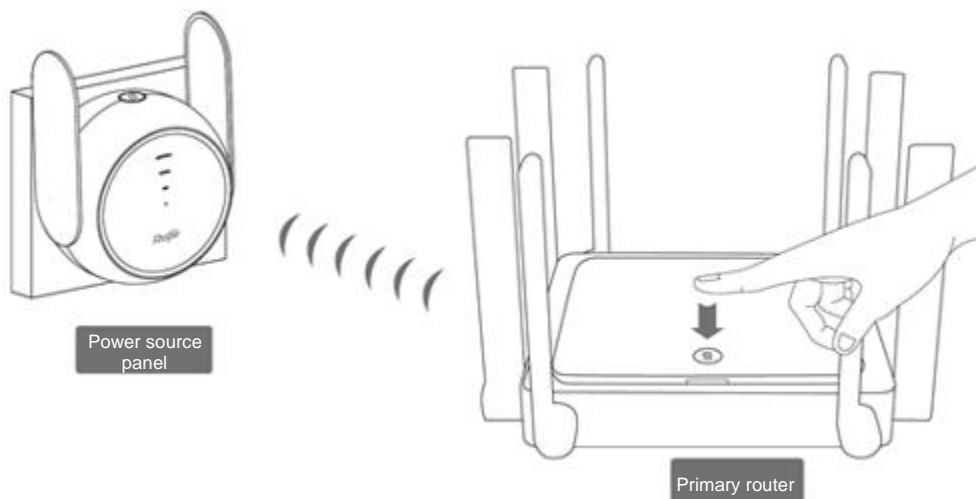
2.1 Connecting the Device

- **Connecting the Device to a Reyee Router (Reyee Mesh)**

- a Connect the mesh repeater to power source, and wait 1-2 minutes until the status of center green indicator changes from blinking to solid on. The mesh repeater is started.
- b Press the Reyee Mesh button on the primary Reyee router or connect the network cable to the primary Reyee router for automatic networking. When the three bars of the indicator are on, Reyee mesh is successfully set up. Then, the default Wi-Fi disappears, and the Wi-Fi name and password are synchronized with the primary router. When the signal indicator is solid white, the network connection is successful. Clients can connect to the amplified Wi-Fi of the primary router to access the Internet.
- c If the center dot indicator is solid red, the network connection fails. Check whether the primary router can access the Internet. If the center dot is solid orange, the connection to the primary router fails. Move the mesh repeater to a position closer to the primary router, remove obstacles, and press the Reyee Mesh button on the primary router again.

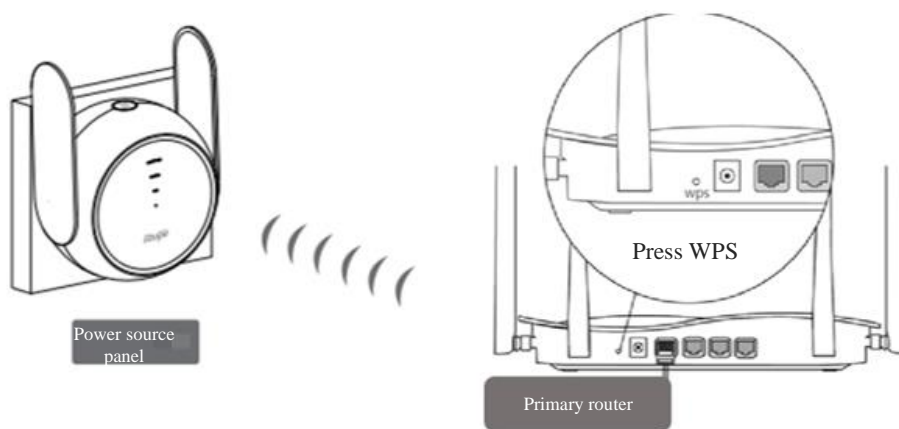
⚠ Caution

When you connect the network cable to the Reyee router, the router will automatically connect to the network. After the network connection is successfully set up, the default signal of the mesh repeater disappears. In this situation, the mesh repeater is successfully networked and managed by the Reyee primary router. The default address of the mesh repeater is unreachable.



- **Connecting the Device to a Primary Router (WPS)**

- a Connect the mesh repeater to power source, and wait 1-2 minutes until the status of center green indicator changes from blinking to solid on. The mesh repeater is started.
- b Press the WPS button on the primary router.
- d Press the Reyee Mesh button of the mesh repeater within 2 minutes. When the three bars of the indicator are on, the mesh repeater is connecting to the primary router. When the signal indicator is solid white, the network connection is successful. In this situation, the default Wi-Fi disappears, and the Wi-Fi name and password are synchronized with the primary router. Clients can connect to the amplified Wi-Fi of the primary router to access the Internet.
- e If the center dot indicator is solid red, the network connection fails. Check whether the primary router can access the Internet. If the center dot is solid orange, the connection to the primary router fails. Move the mesh repeater to a position closer to the primary router, remove obstacles, and repeat the preceding operations.



● Connect the Device to the Modem or the Other Router

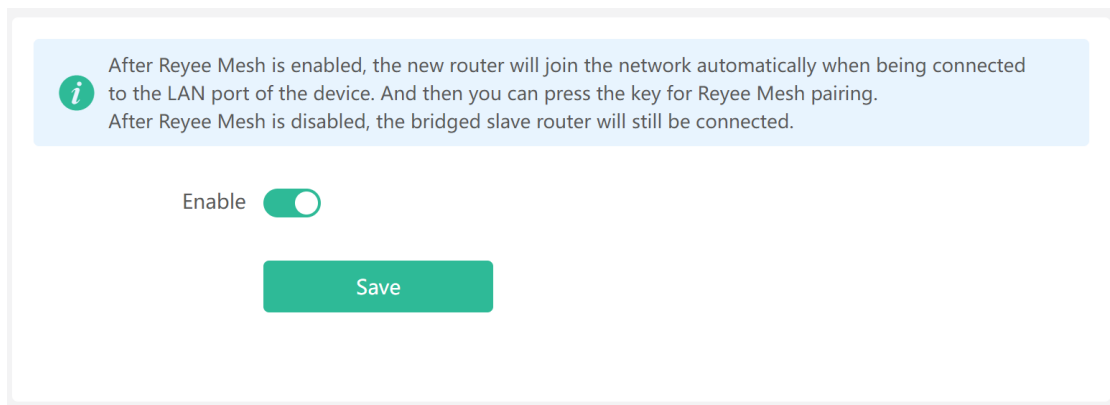
Before performing this step, you need to connect to the Internet. Search for the wireless network with the Wi-Fi name **@Ruijie-sXXXX** by using a mobile phone or laptop. The mobile phone and laptop can log in to the web management page through a browser.

Note

XXXX in the Wi-Fi name is the last four digits of the MAC address of each device. You can find the default wireless network name and web login address at the bottom of the device.

Caution

When an EW1200R is connected to a Reyee router, it is automatically networked and functions as a mesh repeater without any manual configurations. If you want to use an EW1200R as a router, disable the Reyee Mesh discovery function of the primary router.



2.2 Login

The configuration wizard page will pop up automatically if you log in for the first time. If no configuration page pops up, please input the IP address into the address bar of the browser and press **Enter** to navigate to the login page.

Table 2-1 Default Configuration

| Item | Default |
|-------------------|---|
| IP address | 192.168.110.1 |
| Username/Password | Username and password are not required at your first login and you can configure the access point directly. |

If you forget the IP address or password, press the  button for over 5 seconds to restore the default settings. After that, log in again with the default IP address and password.

 **Caution**

Restoring the factory settings will clear the current configuration and require a re-login. Please exercise caution when performing this operation.

2.3 Network Settings (As a Mesh Repeater)

2.3.1 Getting Started

- Ensure that the primary router can connect to the Internet successfully.
- To use the device as a mesh repeater, remove the network cable from the device first.

2.3.2 Configuration Steps

- **Extend the Wi-Fi of Reyee router by using the Reyee Mesh function:** Press the Reyee Mesh button of the Reyee router for automatic networking. For details, see 2.1 .
- **Extend the Wi-Fi of WPS-supported router:** Press the WPS button of the primary router and then the Reyee Mesh button of the mesh repeater for networking. For details, see 2.1 .
- **Extend the Wi-Fi of other routers:** Click **Configure**. The wireless repeater mode and wireless ISP mode are available.

The image displays two side-by-side screenshots from the Ruijie router's web-based configuration interface.

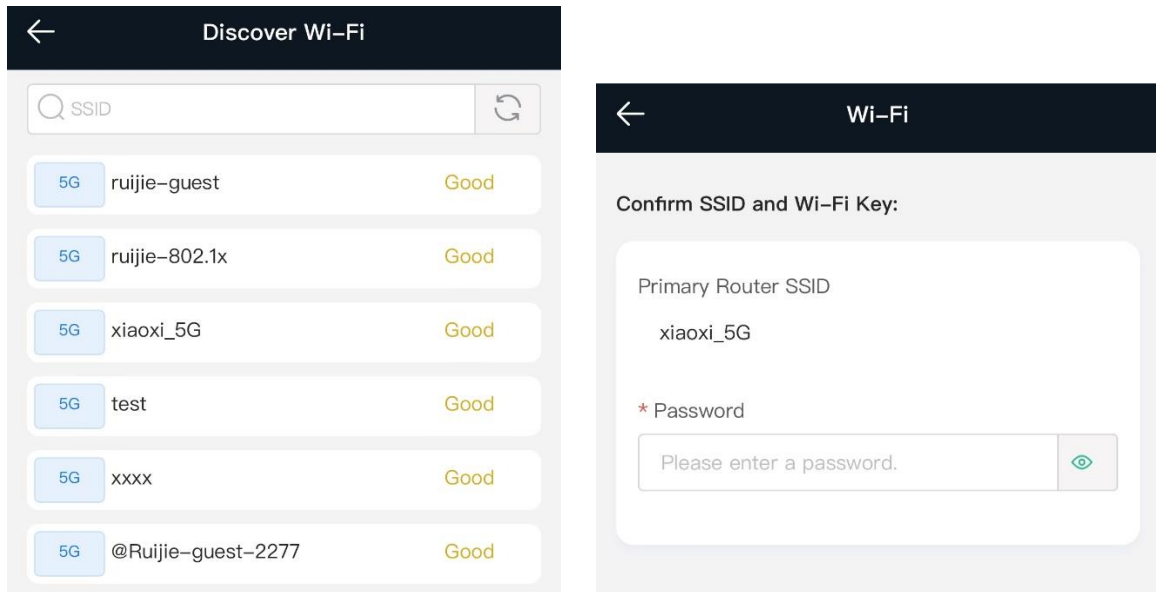
The left screenshot is the 'Welcome to Use Ruijie Router' page for the EW1200R model. It features the Ruijie logo at the top, a language dropdown set to 'English', and a central image of the router. Below the image, it says 'Welcome to Use Ruijie Router'. There are two checkboxes: one checked for 'I have read and agreed to Software License Agreement' and one unchecked for 'Auto upgrade the device when a new version appears'. A large green 'Configure' button is positioned below these options. At the bottom, it reads 'Copyright©2000–2022 Ruijie Networks Co., Ltd.'.

The right screenshot is the 'Wizard' configuration screen. At the top, it says 'Wizard'. A yellow warning message reads: 'No cable is detected. Please plug in cables according to the diagram.' Below this is a diagram showing a 'Modem LAN Port' connected to a 'Router WAN Port' via a cable. A power source is connected to the router's power port, and another power source is connected to the modem's power port. Below the diagram is a green 'Recheck' button. Underneath, it says 'If you want to extend your Wi-Fi range' and offers three options: 'Mesh Networking', 'Wireless Repeater', and 'WISP'. At the bottom, it says 'You can also "perform configuration without a cable"'.

(1) Select **Wireless Repeater** or **WISP**.

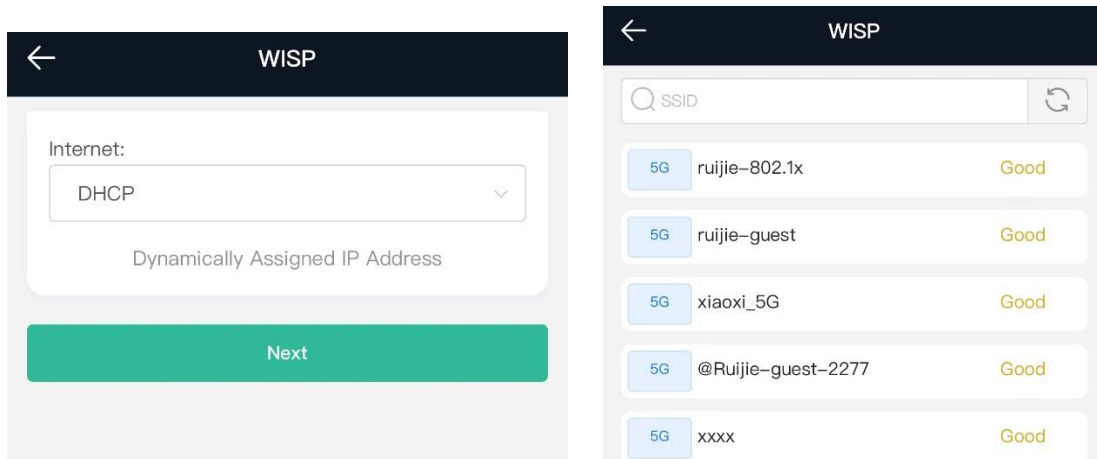
- **Wireless repeater mode:** Click **Wireless Repeater**, select the Wi-Fi of the primary router, and enter the Wi-Fi password of the primary router to connect to the Wi-Fi.

In the wireless repeater mode, the device extends Wi-Fi signals and disables its DHCP function. When clients connect to the wireless network, the primary router assigns addresses for them. When the device in the wireless repeater mode extends the network of primary router, the WAN interface is unchanged. If you connect the network cable to the WAN interface, the device automatically switches to the wired repeater mode.



- WISP mode: Click **WISP**, select a networking mode on the pop-up network settings page, and click **Next**. The device automatically obtains an IP address. If the primary router cannot assign IP addresses, select **Static IP**. Select the Wi-Fi of primary router, and enter the Wi-Fi password to connect to the primary router.

In the wireless ISP 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. When the device connects to the Internet wirelessly, the network interface functions as a LAN interface.



(2) Set the Wi-Fi name and password for the router. When the settings are saved, the Wi-Fi restarts.

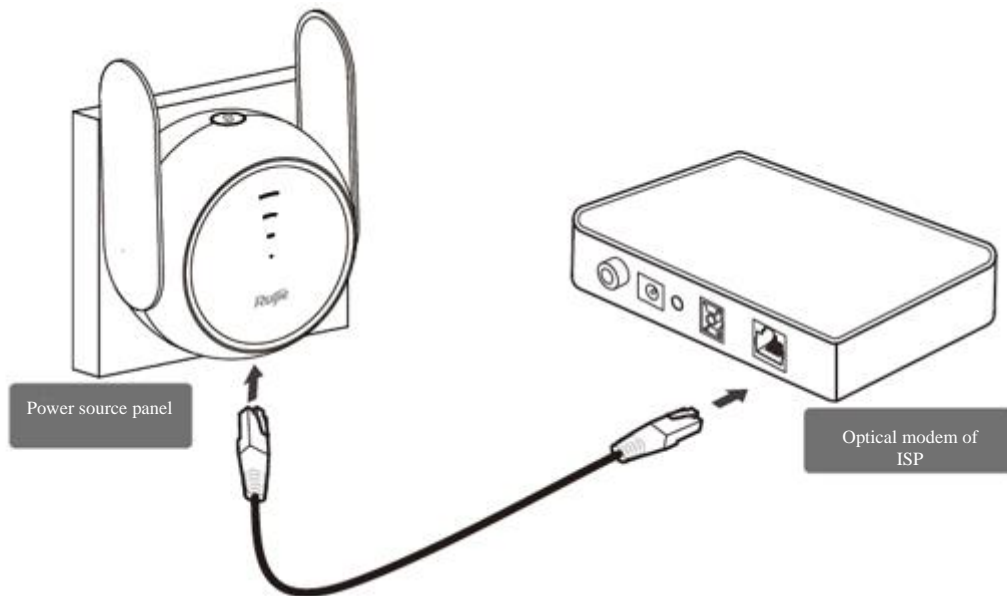
2.3.3 Verifying Configuration

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

2.4 Network Settings (As a Router)

2.4.1 Getting Started

- (1) Connect the mesh repeater to the power source.
- (2) Connect the LAN interface of the optical modem to the network interface of the mesh repeater through a network cable. If the network cable is not connected, the wireless repeater page is automatically displayed.
- (3) Log in to the web management interface of the mesh repeater. For details, see 2.2 .



- (4) 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 Type

Click **Configure** and select the Internet type confirmed with the ISP.

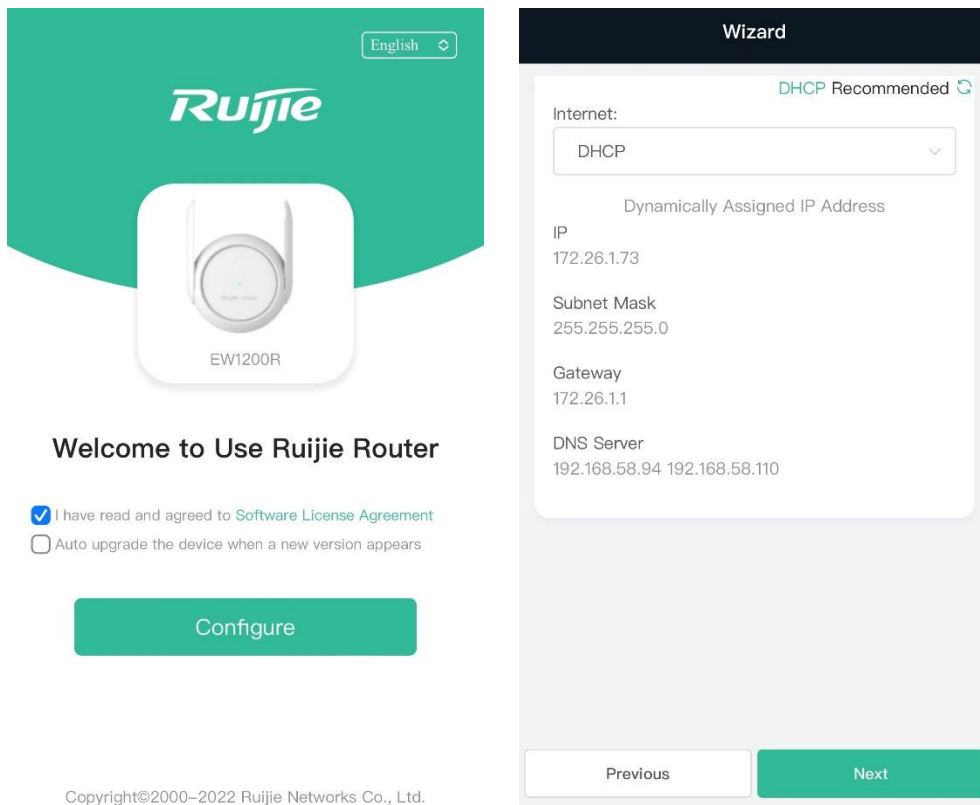
- **DHCP**: The device detects whether it can obtain an IP address via DHCP by default. If the device connects to the Internet successfully, you can click **Next** without entering an account.

⚠ Caution

- If the primary router assigns an IP address from the 192.168.110.0 network to the mesh repeater, the mesh repeater will change the IP address of its LAN port to 192.168.111.1 automatically. Mistaking the

mesh repeater for the primary router and changing its configuration may cause a network disconnection. You are advised to refer to the model and Wi-Fi information on the homepage.

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



2. Configuring the Wi-Fi Network

- (1) **Dual-Band Single SSID:** After this feature is enabled, the 2.4G SSID will be consistent with the 5G SSID. The 2.4G signal is strong but easily interfered by various wireless signals. The 5G band boasts fast speed, low latency and less interference. The dual-band integration is disabled by default. You are advised to disable this feature. After configuring a 5G SSID, you can get a better Internet experience by accessing the 5G band in an unobstructed location near the device.

Note

- The terms “2.4G” and “5G” mentioned in this document only refer to the channels with the frequency of 2.4GHz and 5GHz, and have nothing to do with the 5G (fifth generation) Mobile Communication Technology.

- (2) **Setting the SSID and Wi-Fi password:** The device has no Wi-Fi password by default, indicating that the Wi-Fi network is an open network. You are advised to configure a complex password to enhance the network security. The password must be a string of 8 to 31 characters, which can contain uppercase and lowercase letters, digits, and English characters but cannot contain special characters such as single

quotation marks ('), double quotation marks ("), or spaces. The SSID (5G) is the name of the 5G radio. If the dual-band integration is enabled, set only one SSID.

- (3) **Setting the management password:** The password is used for logging in to the management page. The management password must be a string of 8 to 31 characters that contain at least three types among uppercase letters, lowercase letters, digits, and English characters but cannot contain **admin**, Chinese characters, spaces, or question marks (?). You can select **Same as Wi-Fi Password**.
- (4) **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.
- (5) **Setting time:** 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.
- (6) **Overriding the configuration:** Click **Override**. The Wi-Fi network will be restarted. You need to enter the new Wi-Fi password to connect to the new Wi-Fi network.

The image displays two sequential screenshots of a web-based configuration wizard for Wi-Fi settings.

Left Screenshot: Wi-Fi Settings

- Wizard** (Title)
- Wi-Fi Settings** (Section Header)
- Dual-Band Single SSID** (Toggle switch, currently off)
- * SSID (2.4G)** (Label) **Large Coverage & Slow Rate** (Text)
 - Input field: @Ruijie-s01A4
- * SSID (5G)** (Label) **Small Coverage & Fast Rate** (Text)
 - Input field: @Ruijie-s01A4_5G
- * Wi-Fi Password** (Label) (Toggle switch, currently on)
 - Input field: Length: 8-31 characters.
- Management Password** (Label) **Same as Wi-Fi Password** (Text)
 - * Management Password** (Label)
 - (Please remember the password.) (Text)
 - Input field: The password is 8-31 characters long.
- Previous** (Button) **Override** (Button)

Right Screenshot: Management Password and Country/Region/Time Zone

- Wizard** (Title)
- Input field: Length: 8-31 characters.
- Management Password** (Label) **Same as Wi-Fi Password** (Text)
 - * Management Password** (Label)
 - (Please remember the password.) (Text)
 - Input field: The password is 8-31 characters long.
- Country/Region/Time Zone** (Section Header) (Dropdown arrow)
 - * Country/Region** (Label)
 - Input field: United States (US)
 - * Time Zone** (Label)
 - Input field: (GMT-5:00)America/New_York
- Previous** (Button) **Override** (Button)

2.4.3 Verifying Configuration

The device can access the Internet after connecting to the Wi-Fi network.

3 Wi-Fi Network Settings

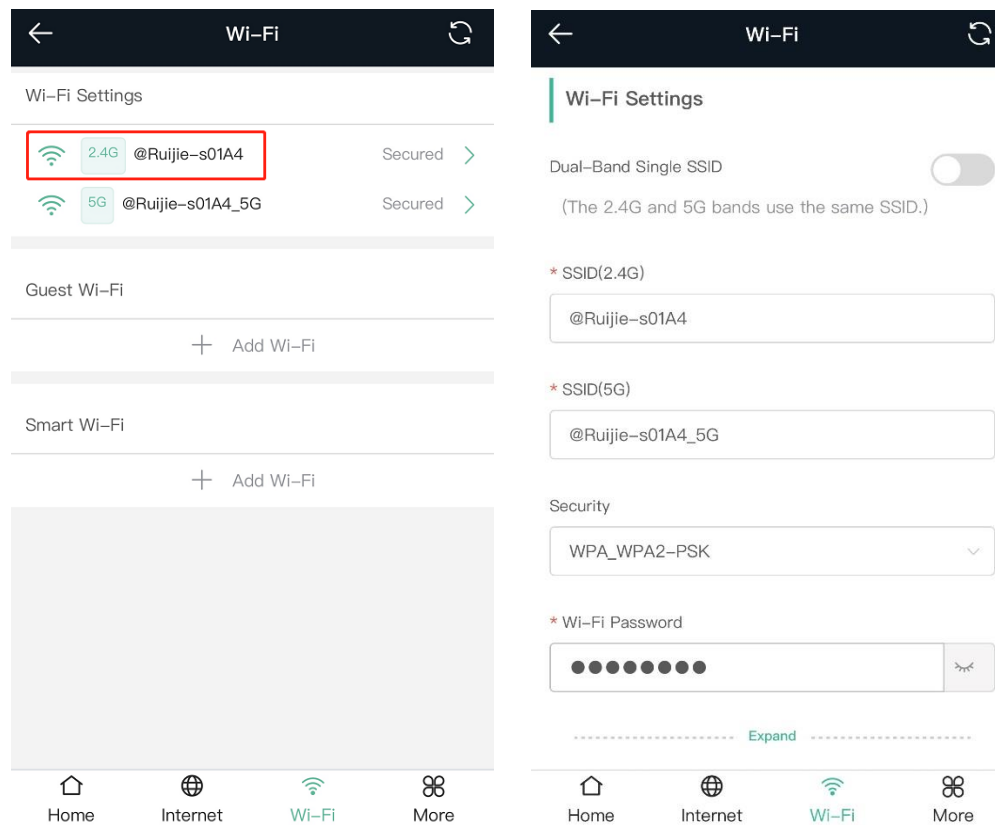
3.1 Changing the SSID and Password

Mobile Phone View: Wi-Fi->Wi-Fi Settings

Click the target Wi-Fi network, 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.



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 feature 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.

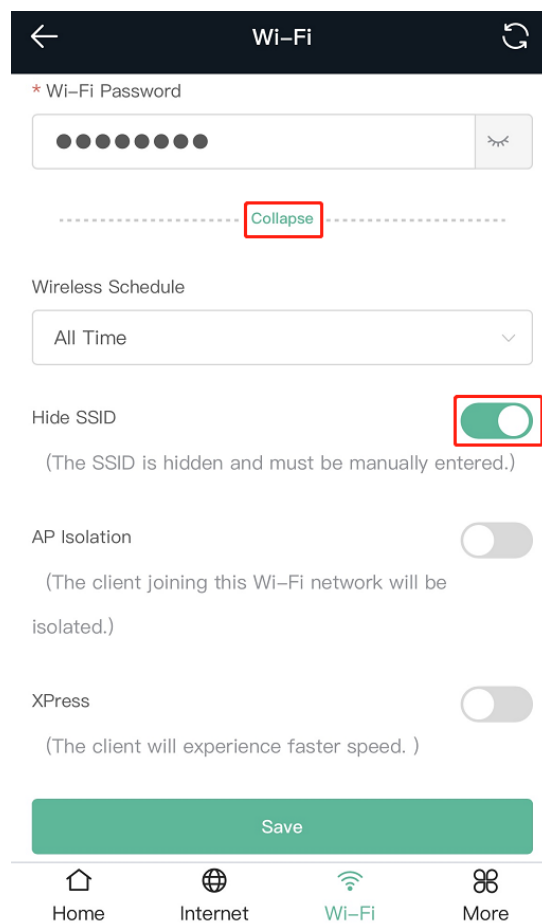
3.2.3 Configuration Steps

Mobile Phone View: **Wi-Fi > Wi-Fi Settings**

Click to expand the advanced settings. Turn on **Hide SSID** and click **Save**.

Caution

After **Hide SSID** is enabled, all clients need to enter the SSID and password manually to search for the Wi-Fi network. Exercise caution when performing this operation.



← Wi-Fi ↻

* Wi-Fi Password

..... Collapse

Wireless Schedule

All Time

Hide SSID

(The SSID is hidden and must be manually entered.)

AP Isolation

(The client joining this Wi-Fi network will be isolated.)


XPress

(The client will experience faster speed.)

Save

Home Internet Wi-Fi More

Note

Users need to manually enter the SSID and password each time they connect to a hidden Wi-Fi network. Take an Android-based device as an example: To connect it to a hidden Wi-Fi network, choose  **WLAN > Add network > Network name**, enter the Wi-Fi name, select **WPA/WPA2/WPA3** from the **Security** dropdown list, enter the password, and click **Connect**.

3.3 Configuring the Wi-Fi

3.3.1 Overview

The mesh repeater supports three types of Wi-Fi, including primary Wi-Fi, guest Wi-Fi and smart Wi-Fi.

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

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

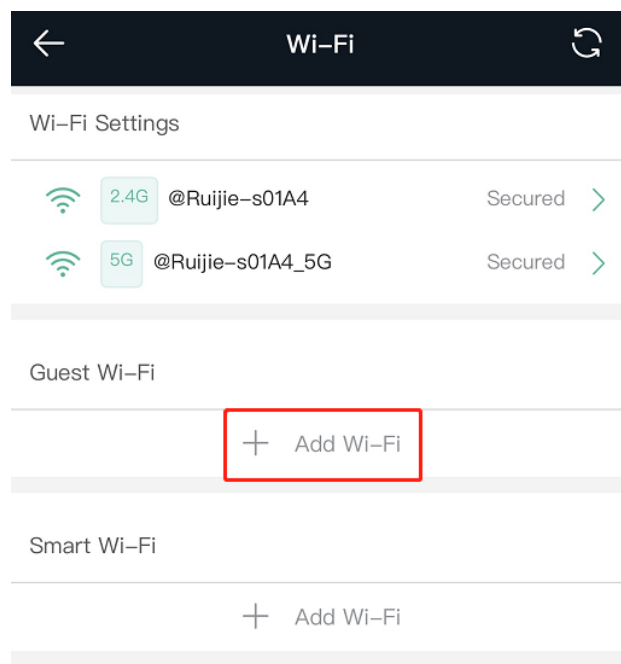
- **Smart Wi-Fi:** The smart Wi-Fi network is disabled by default. Smart clients can connect to the smart Wi-Fi network for long. The smart Wi-Fi network cannot be turned off as scheduled.

3.3.2 Configuration Steps

Mobile Phone View: Choose **Wi-Fi > Wi-Fi Settings**.

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

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



3.4 Configuring the Wi-Fi Blacklist or Whitelist

3.4.1 Overview

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

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

3.4.2 Configuration Steps

Mobile Phone View: Choose **More** > **Switch to PC view** > **More** >  **WLAN** > **Blacklist/Whitelist**.

PC View: Choose **More** >  **WLAN** > **Blacklist/Whitelist**.

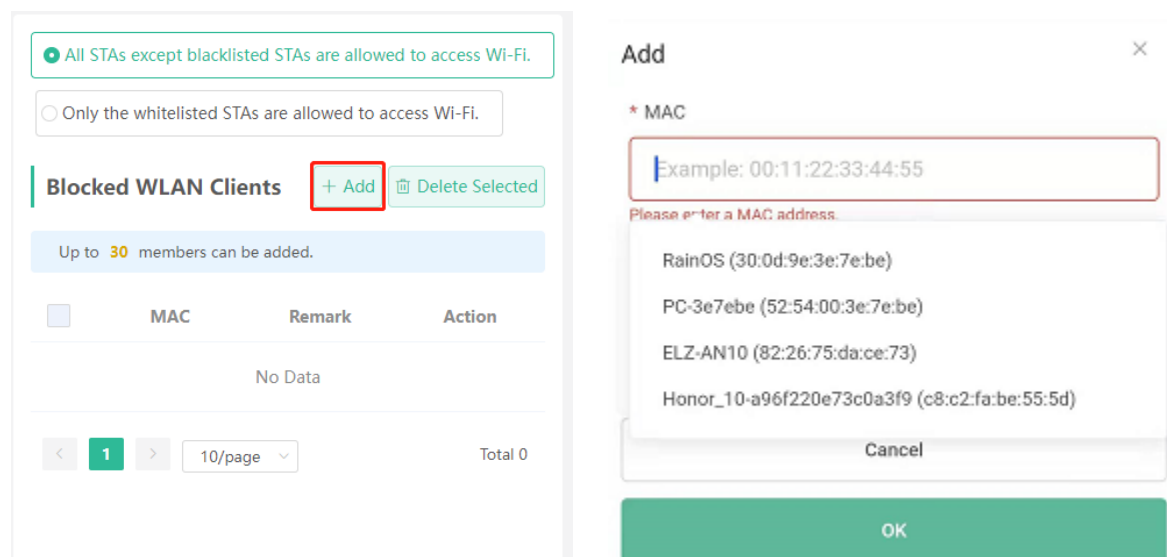
The following takes the blacklist configuration as an example. If you want to configure a whitelist, take the same steps.

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

In the pop-up dialog box, enter the MAC address and remarks of the client to be blacklisted. The device displays information about the connected clients. Select a client, and it will be added to the blacklist 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.



The screenshot displays the configuration interface for Wi-Fi Blacklist/Whitelist. On the left, the main configuration area shows two radio buttons: "All STAs except blacklisted STAs are allowed to access Wi-Fi." (selected) and "Only the whitelisted STAs are allowed to access Wi-Fi." Below this, there is a section for "Blocked WLAN Clients" with a "+ Add" button highlighted in a red box and a "Delete Selected" button. A table below shows "No Data". To the right, an "Add" dialog box is open, showing a text input field with "Example: 00:11:22:33:44:55", a list of connected clients with their MAC addresses, and "Cancel" and "OK" buttons.

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

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

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

Blocked WLAN Clients

[+ Add](#) [Delete Selected](#)

Up to **30** members can be added.

| <input type="checkbox"/> | MAC | Remark | Action |
|--------------------------|-----------------------|--------|---|
| <input type="checkbox"/> | F2:36:1D:EB:20:6 D | test | Edit Delete |

< **1** > 10/page Total 1

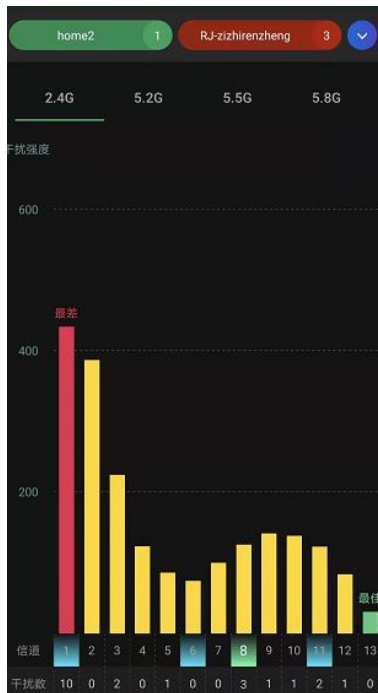
3.5 Optimizing the Wi-Fi Network

3.5.1 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 mesh repeater is a convenient and effective method to cope with network stalling. The mesh repeater supports scheduled restart. For details, see 5.4 . You can also analyze the wireless environment around the mesh repeater and select appropriate parameters.

3.5.2 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.



3.5.3 Configuration Steps

1. Optimizing the radio channel

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

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

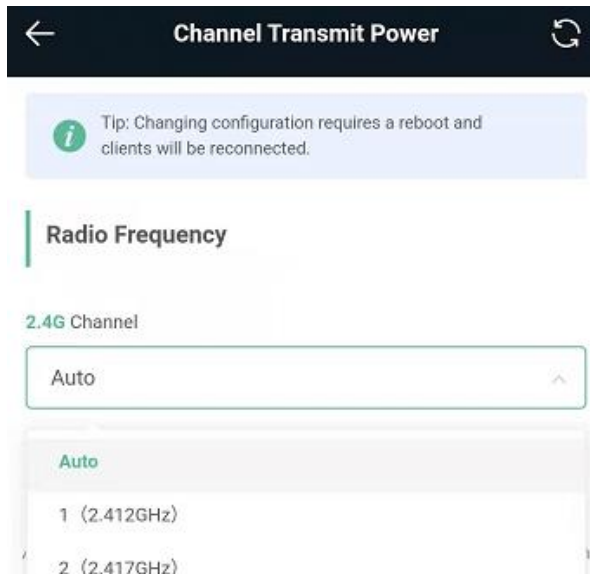
Choose the best channel identified by Wi-Fi Moho or other Wi-Fi scanning App. Click **Save** to make the configuration take effect immediately. Excess clients connected to a channel can bring stronger wireless interference.

Note

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

Caution

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



2. Optimizing the channel width

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

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

If the interference is severe, choose a lower channel width to avoid network stalling. The mesh repeater supports the 20 MHz and 40 MHz channel width. The Wi-Fi network speed is more stable when the channel width is smaller, and a larger channel width makes the device more prone to interference. You are advised to select **20 MHz** for the 2.4G radio and **Auto** for the 5G radio. A channel width of 80 MHz at 5G radio is recommended for a speed test. After changing the channel width, 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.

Radio Frequency

Country/Region

United States (US) ▾

2.4G Channel Width

Auto ▲

Auto

20MHz

40MHz

3. Optimizing the transmit power

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

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

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

 **Caution**

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

← Channel Transmit Power ↻

Radio Frequency

2.4G Channel

Auto

Transmit Power

Auto Lower Low Medium High

5G Channel

Same as Master AP

Transmit Power

Auto Lower Low Medium High

Save

4. Configuring the roaming sensitivity (optional)

Mobile Phone View: Choose **More** > **Roaming Optimization**.

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

Clients such as mobile phones support the roaming function but the sensitivity level may not be high enough. The roaming sensitivity enables the device to actively disconnect a client from the Wi-Fi network when the client is far away, forcing the client to re-select the nearest signal and thus improving the sensitivity of wireless roaming.

The default value (low sensitivity) is recommended.

Caution

After the change, the Wi-Fi network will restart, and clients need to reconnect to the W-Fi network.

High sensitivity level may cause unnecessary Wi-Fi network disconnection. Therefore, exercise caution when performing this operation.

← **Roaming Optimization** ↻

i Roaming sensitivity is the rate at which your device selects and switches to the nearest available access point, offering a better signal.

Roaming Optimization

2.4G Roaming Sensitivity ⓘ

○ ———— Low 20% 40% 60% 80% High

5G Roaming Sensitivity ⓘ

○ ———— Low 20% 40% 60% 80% High

Save

3.6 Configuring the Healthy Mode

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

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



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

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

i **Note**

All Ruijie mesh repeaters 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

Wireless Schedule

All Time ▾

Save

4 Networks Settings

4.1 Configuring Internet Connection Type

 **Caution**

This feature is supported by only the router mode and the WISP mode.

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

Please see 2.4 for details.

4.2 Changing the Address of a LAN Port

 **Caution**

This feature is supported by only the router mode and the WISP mode.

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 changing the IP address of the LAN port, please log in again with the new IP address.

 **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
- DNS Proxy

LAN Settings

 The LAN port is configured with **An address conflict occurs..** The IP address is changed from **192.168.110.1** to **192.168.111.1** to ensure network connection.

* IP

* Subnet Mask

Remark

* MAC

4.3 Changing the MAC Address

 **Caution**


This feature is supported by only the router mode and the WISP mode.

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 mesh repeater or restart the mesh repeater. Therefore, exercise caution when performing this operation.

Figure 4-1 WAN Port Settings

 **Configure WAN settings.**

* Internet

No username or password is required for DHCP clients.

IP 172.26.1.118

Subnet Mask 255.255.255.0

Gateway 172.26.1.1

DNS Server 192.168.58.94 192.168.58.110

----- Advanced Settings -----

* MTU

* MAC


4.4 Changing the MTU

Caution

This feature is supported by only the router mode and the WISP mode.

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.

For details about the page, see [Figure 4-1](#).

4.5 Configuring the Repeater Mode

4.5.1 Wired Repeater

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

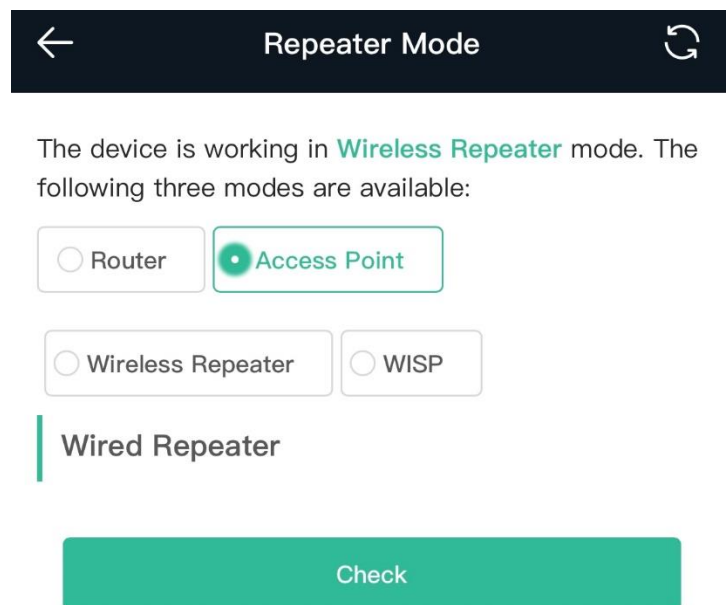
PC View: **More** >  **Basics** > **Repeater/WISP**.

Connect the network interface of the mesh repeater to the LAN interface of primary router through a network cable.

Select **Access Point** and click **Check**. After confirming the Wi-Fi settings of the mesh repeater, click **Save**. The network coverage range is extended.

 **Caution**

After the configuration is saved, the connected clients are disconnected from the network for a short time and need to be connected to Wi-Fi again.



4.5.2 Wireless Repeater

The wireless repeater can extend the Wi-Fi coverage range of the primary router. The device supports dual-link wireless extension, and can extend the 2.4 GHz and 5 GHz signals of the primary router at the same time.

 **Note**

- Before using the wireless repeater function, remove the network cable from the mesh repeater first.
 - Confirm the Wi-Fi name and password of the primary router before performing the configuration.
-

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

PC View: **More >**  **Basics > Repeater/WISP**.

- (1) Click **Wireless Repeater**, and click the search box behind the Wi-Fi name (5G). The list of surrounding Wi-Fi signals is displayed.



The device is working in **Router** mode. The following three modes are available:

Router Access Point

Wireless Repeater WISP

Wireless Repeater

Primary Router

SSID (5G)

Please select an SSID for the primary router. 

SSID (2.4G)

Please select an SSID for the primary router. 

- (2) Select the Wi-Fi signal of the primary router you want to extend. The setting options of this router are displayed. If the signal of selected primary router is encrypted, enter the Wi-Fi password of the primary router. You can configure both 5 GHz and 2.4 GHz signals of primary router as backup.
- (3) Configure the Wi-Fi of this router. You can choose whether the Wi-Fi is the same as the Wi-Fi of primary router.
 - o If you set them the same, the Wi-Fi settings of the mesh repeater will be automatically synchronized with the primary router. Generally, clients consider the Wi-Fi networks with identical name as one network; therefore, they can find only the Wi-Fi of the primary router.
 - o If you set them different, configure the local Wi-Fi name and password. Then clients will find different Wi-Fi networks.

Caution

- After the configuration is saved, the Wi-Fi is disconnected. 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.
- You are advised to install the mesh repeater in a position where more than two grids of signal is available to prevent serious signal loss in the repeating process. If the signal at the installation position is too weak, Wi-Fi extension may fail or signal quality is poor after amplification.

Figure 4-2 Selecting and Connecting to the Wi-Fi of Primary Router

The screenshot shows a configuration page for a 'Local Router'. At the top, there's a section for 'Local Router Wi-Fi' with two radio buttons: 'New Wi-Fi' (selected) and 'Same as Primary Router Wi-Fi'. Below this are two SSID input fields: '* SSID (2.4G)' with the value 'xiaoxi_5G_plus' and '* SSID (5G)' with the value 'xiaoxi_5G_plus_5G'. A 'Wi-Fi Password' field contains the text 'A blank value indicates no encryption.' A large green 'Save' button is at the bottom.

On the left side, there's a list of detected SSIDs for the primary router:

| Band | SSID | Security |
|------|--------------------|----------|
| 5G | test | Open |
| 5G | @Ruijie-guest-2277 | Open |
| 5G | ruijie-guest | Open |
| 5G | ruijie-802.1x | WPA2 |
| 5G | xiaoxi_5G | WPA2 |

Below the list, there are two dropdown menus for selecting an SSID for the primary router, both currently showing 'Please select an SSID for the primary router.'.

4.5.3 WISP

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

- (1) Choose **More > Switch to PC view > More > Basics > Repeater/WISP**

Click **WISP** and select an Internet connection type. Click **Next**.

WAN

* Internet

No username or password is required for DHCP clients.

Next

(2) Click **Select**, choose network signal, enter the password, and click **Save**.

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.

| SSID | Security/Channel/B SSID | RSSI |
|--------------------|---|--------------|
| @Ruijie-guest-2277 | Security:OPEN Channel:64 ee:b9:70:73:a4:c1 | -33 dBm High |
| xxxx | Security:WPA2PSK Channel:64 ee:b9:70:23:a4:c1 | -34 dBm High |
| test | Security:OPEN Channel:64 ec:b9:70:23:a4:c1 | -34 dBm High |
| ruijie-guest | Security:OPEN Channel:149 0a:05:88:c6:66:36 | -47 dBm High |

Repeater Mode

Wireless Repeater

Primary Router

* SSID
xiaoxi_5G
Select

* Wi-Fi Password
●●●●●●●●

Local Router

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

Previous

Save

4.6 Online Time Control

Caution

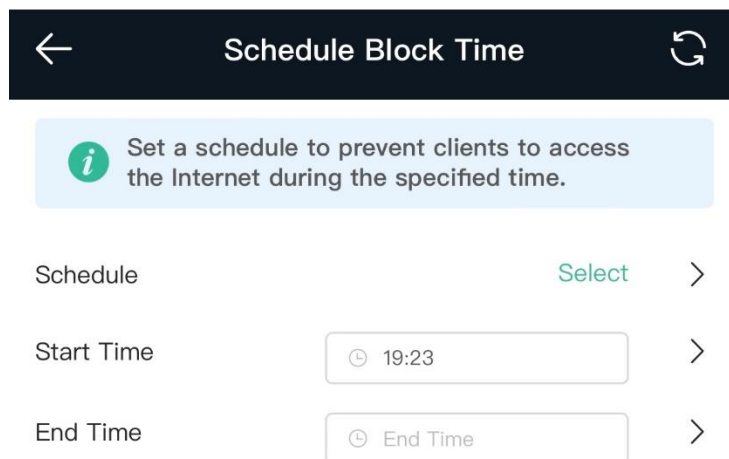
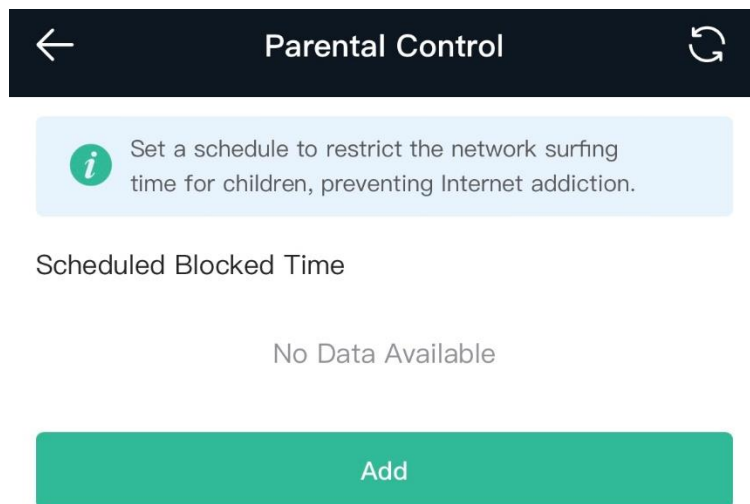
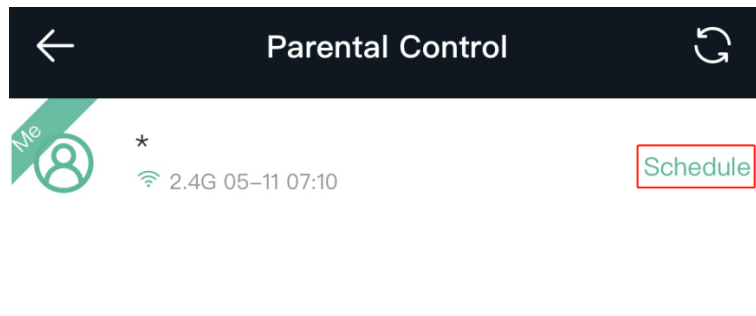
This feature is supported by only the router mode and the WISP mode.

Mobile Phone View: Choose **More > Parental Control**.

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

Select a client and click **Schedule**, click **Add**, and set the restriction time. The client cannot access the network from the start time to the end time.

In the PC edition, you can choose **Weekdays** or **Weekends** to prevent a client from accessing the Internet all day long, or set **Blocked Time** to **Custom** and set a restriction period.

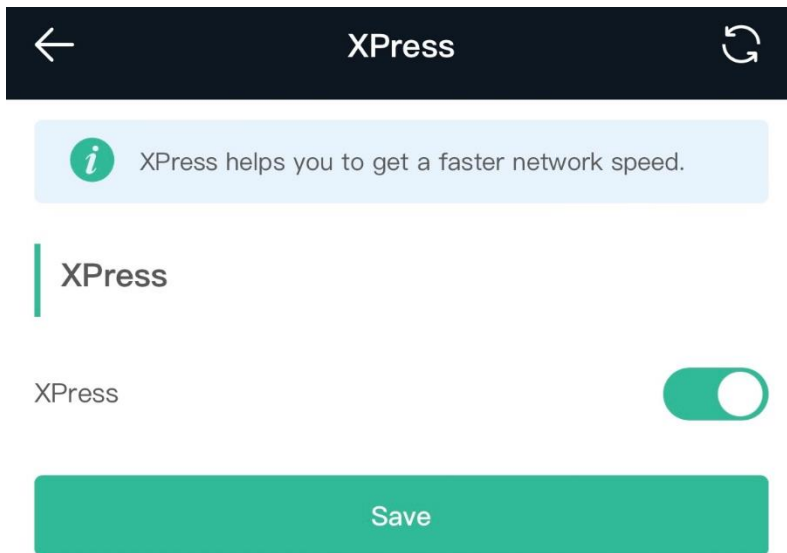


4.7 Configuring XPress

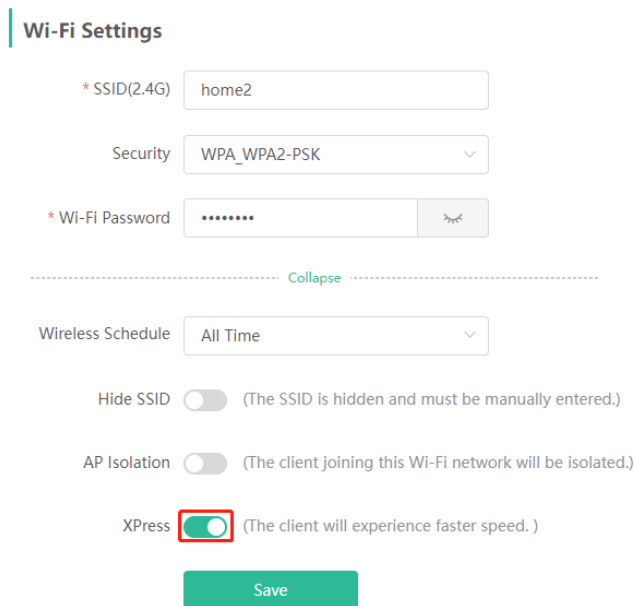
Mobile Phone View: Choose **More** > **XPress**.

PC View: Choose **More** > **WLAN** > **Wi-Fi** > **Wi-Fi Settings** > **Expand** > **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 the DHCP Server

Caution


This feature is supported by only the **Router** mode and the **WISP** mode.

4.8.1 Overview

A DHCP server is responsible for assigning dynamic IP addresses to clients in the Wi-Fi network for Internet access.

4.8.2 Configuration Steps

1. Configuring the DHCP Server

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.

Caution

If all DHCP servers in the network are disabled, all clients will fail to obtain the dynamic IP addresses. In this case, please enable at least one DHCP server or configure the client with a static IP address manually.

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 30 minutes.

[LAN Settings](#)[DHCP Clients](#)[Static IP Addresses](#)[DNS Proxy](#)

LAN Settings



The LAN port is configured with **An address conflict occurs..** The IP address of the LAN port to ensure network connection.

* IP

* Subnet Mask

Remark

* MAC

DHCP Server

* Start

* IP Count

* Lease Time(Min)

Save

2. Viewing DHCP Clients

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

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

Check information about an online client. Click **Convert to Static IP**. The client will be assigned with the specified IP address.

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 | Convert to Static IP |
| <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. Binding a Static IP Address

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

PC View: Choose **More** >  **Basics** > **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 will be assigned with the specified IP address.

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

i Static IP Address List ?

Static IP Address List Search by IP/MAC

Up to 300 entries can be added.

| <input type="checkbox"/> | No. | IP | MAC | Action |
|--------------------------|-----|----|-----|--------|
| No Data | | | | |

< **1** > 10/page Total 0

4.9 Configuring DNS

4.9.1 Local DNS

When the WAN interface runs DHCP or PPPoE protocol, the device automatically obtains the DNS server address. If the primary router does not deliver the DNS server address or the DNS server needs to be changed, you can manually configure a new DNS server.

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

PC View: Choose **More** >  **Advanced** > **Local DNS**

Local DNS Server: Configure the DNS server address used by the local device. If there are multiple DNS addresses, separate them with spaces.



The local DNS server is not required to be configured. By default, the device will get the DNS server address from the uplink device.

Local DNS server

Example: 8.8.8.8, each separated by a space.

Save

4.9.2 DNS Proxy

Caution

This feature is supported by only the router mode and the WISP mode.

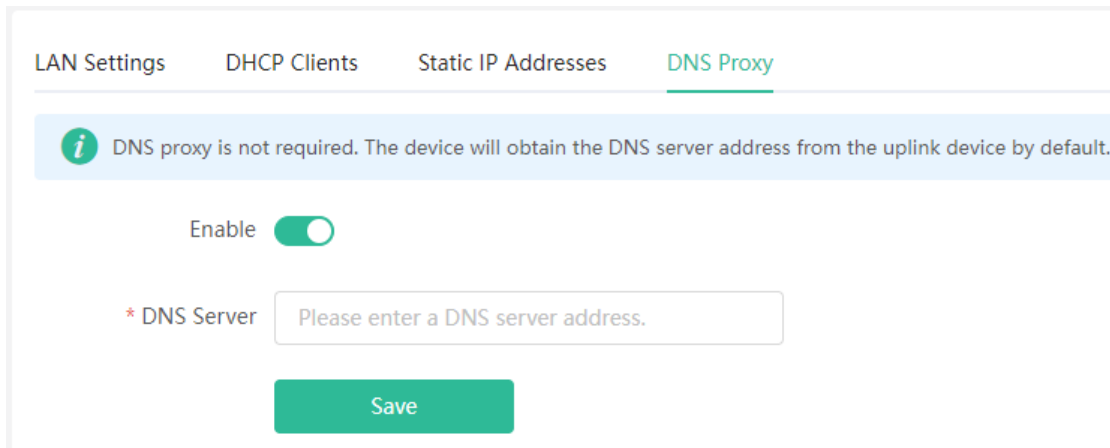
The DNS server proxy is optional. By default, the device obtains the DNS server address from the uplink device.

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

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

DNS proxy: By default, the DNS proxy is disabled, and the DNS address delivered by the ISP is used. If the DNS configuration is incorrect, the network may be successfully connected and mobile phones can access the Internet by using APPs, but web pages cannot be opened. You are advised to keep the DNS proxy disabled.

DNS Server: By default, clients use the DNS service provided by the primary router when accessing the Internet. The default settings are recommended. After the DNS proxy is enabled, you can enter the IP address of the DNS server. The DNS address varies according to regions, and you can consult the local ISP.



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

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

Enable

* DNS Server

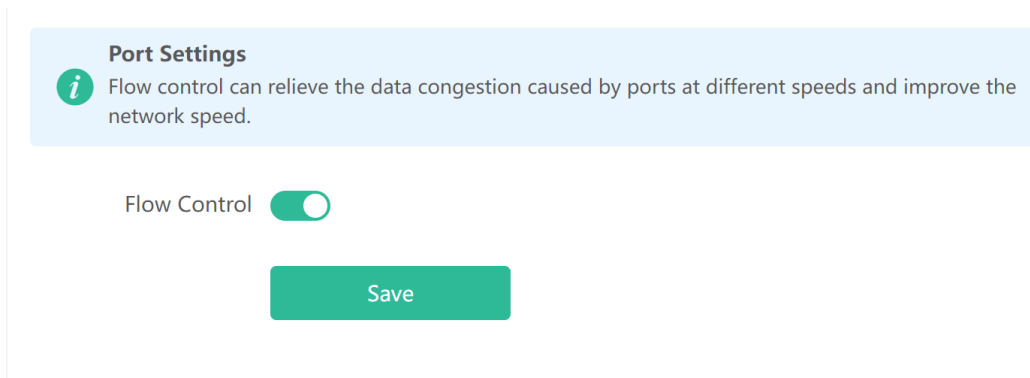
Save

4.10 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**.

Flow control can resolve the data congestion problem when wired interfaces work at different rates, thus improving network speed.



Port Settings

i Flow control can relieve the data congestion caused by ports at different speeds and improve the network speed.

Flow Control

Save

4.11 Network Problem Diagnosis

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

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

Click **Start**. Then the device will check the problems existing on the network, including the problems of interfaces, routing, flow control, and Ruijie Cloud platform, and provides solutions and suggestions on the risks.

← **Network Check** ↻

i Network Check **?**

⚙ In Progress...

46%

- WAN/LAN Cable ✓
- Auto-Negotiated Speed ✓
- WAN Port ✓
- DHCP-Assigned IP Address ✓
- LAN & WAN Address Conflict ✓
- Loop ✓
- DHCP Server Conflict ✓

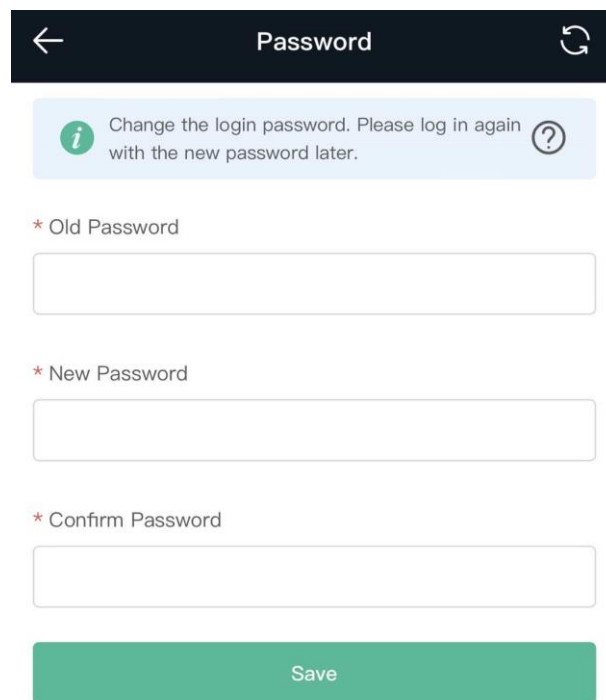
5 System Settings

5.1 Configuring the Login Password

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

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

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



← Password ↻

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

* Old Password


* New Password

* Confirm Password

Save

5.2 Restoring Factory Settings

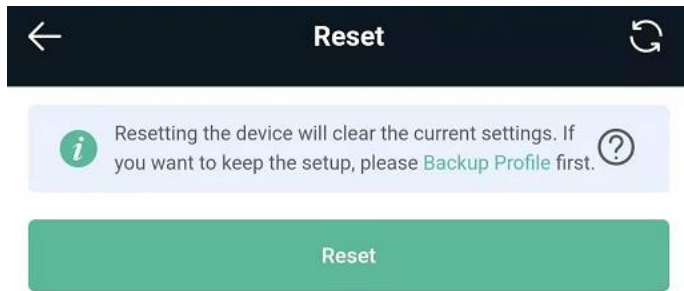
Mobile Phone View: Choose **More** > **System** > **Reset**.

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

Click **Reset** to restore factory settings.

Caution

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

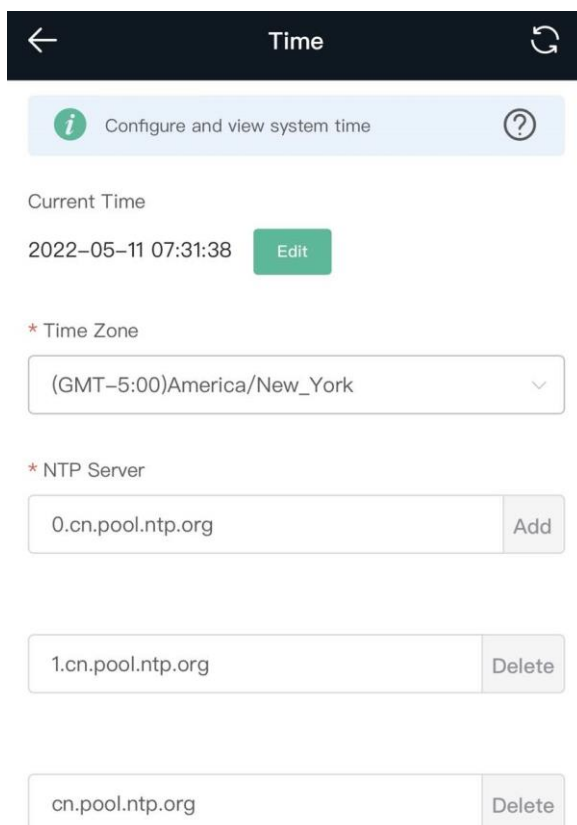


5.3 Configuring System Time

Mobile Phone View: Choose **More > 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 mesh repeater 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.



5.4 Configuring Scheduled Reboot

5.4.1 Getting Started

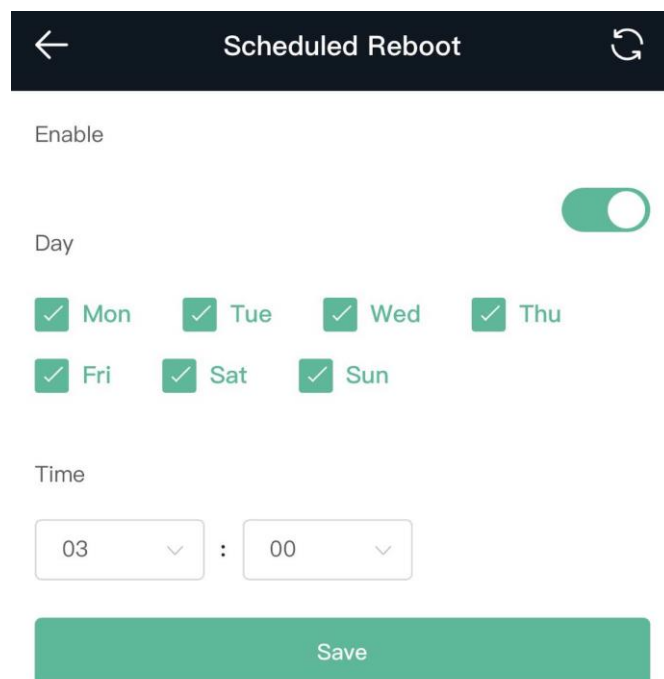
Confirm that the system time is accurate to avoid network interruption caused by device reboot at the wrong time. For details, see [错误!未找到引用源。](#) .

5.4.2 Configuration Steps

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

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

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



← Scheduled Reboot ↻

Enable

Day

Mon Tue Wed Thu

Fri Sat Sun

Time

03 : 00

Save

5.5 Performing Online Upgrade and Displaying the System Version


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

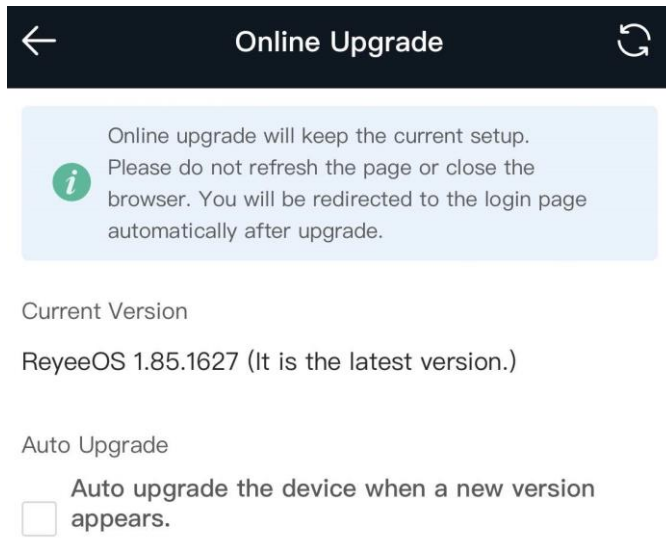
PC View: Choose **More** >  **System** > **Upgrade** > **Online Upgrade**.

You can check the current system version. If there is a new version available, you can click it for an upgrade. The upgrade time can be set. You are advised to set the upgrade time to idle network time, for example, 4:15 a.m.

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.

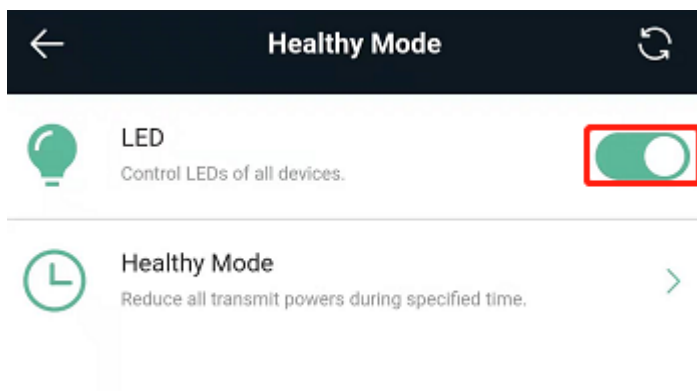
If no new version is detected and online upgrade cannot be performed, check whether the DNS is correctly obtained or go to **More** >  **Advanced** > **Local DNS** to set the DNS server for the mesh repeater.



5.6 Turning On/Off the Indicator

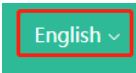
Mobile Phone View: Choose **More** > **Healthy Mode**.

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



5.7 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.



5.8 Network Diagnosis Tools

1. Network Test Tool

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

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

When you select the ping tool, you can enter the IP address or URL and click **Start** to test the connectivity between the mesh repeater and the IP address or URL. The message "Ping failed" indicates that the mesh repeater 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 ↻

i Network Tools *?*

Tool

Ping Traceroute DNS Lookup

* IP Address/Domain

www.google.com

* Ping Count

4

* Packet Size

64 Bytes

Start


Stop

2. Packet Capture Tool

Caution

This feature is only supported by only the **Router** mode and the **WISP** mode.

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

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

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 capture can be stopped at any time and a link to the generated file is generated. You can use Wireshark and other analysis software to open and view the file.

Caution

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

Packet Capture

Interface

Protocol

IP Address

File Size Limit Available Memory **38.78 M**

Packet Count Limit

PCAP file [Click to download the PCAP file.](#) ⓘ

[Click to delete the file.](#)

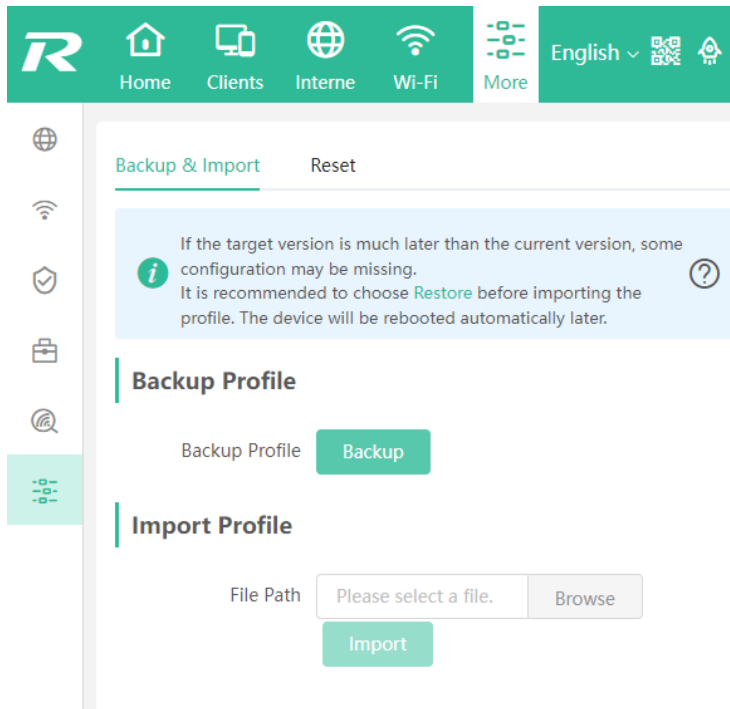
5.9 Configuring Config Backup and Import

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

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

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

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

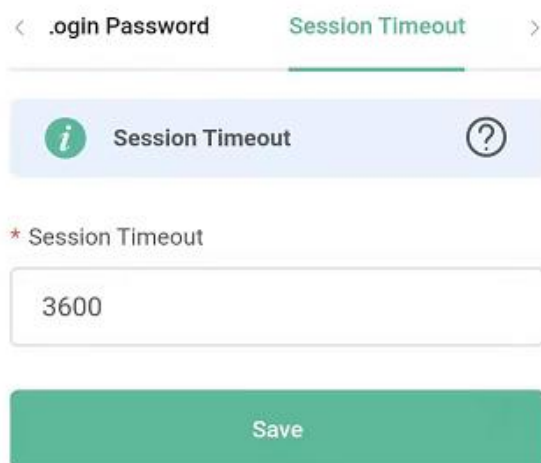


5.10 Configuring Session Timeout Duration

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.

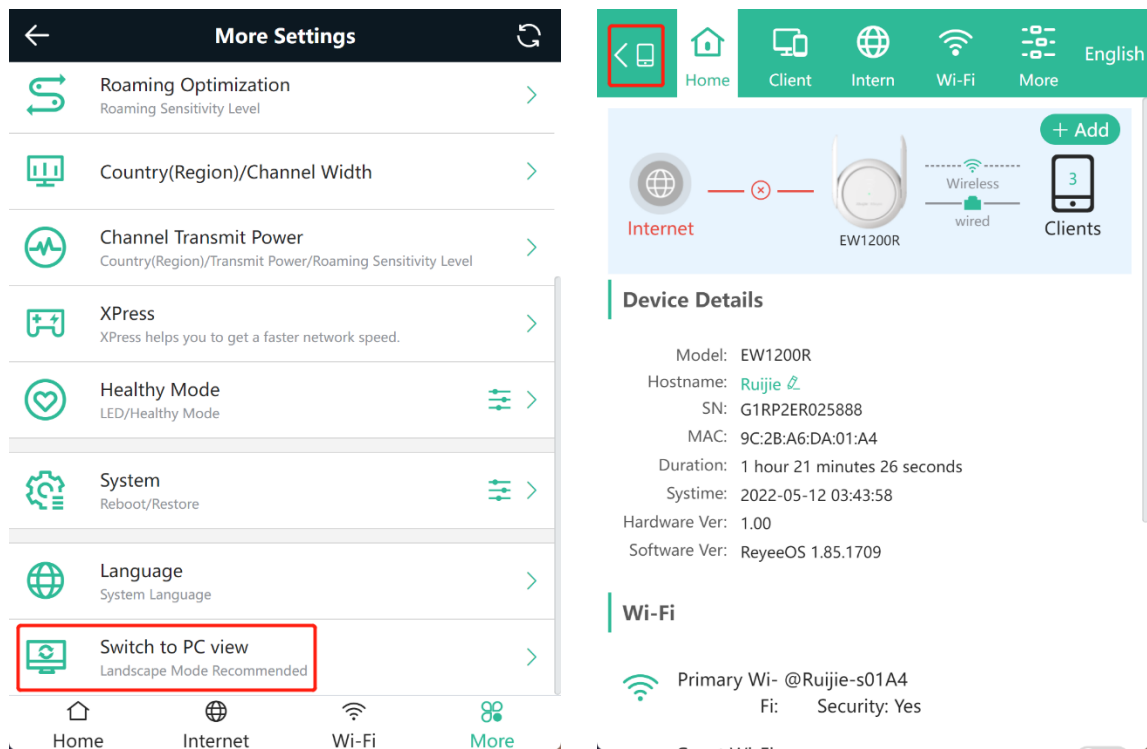


5.11 Switching to PC View

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


The PC view is the view that you can see after logging in through a PC, and the page layout will be different from the mobile phone view.

To return to the mobile phone view, click  on the top left corner (or drag the page on the PC view to the narrowest).



6 FAQ

6.1 How Can I Restore the Factory Settings?

Press and hold the Reyee Mesh button  for more than 5 seconds. When the indicator starts blinking, the device is restoring the factory settings. The device will automatically restart after the restoration is completed. After the device is started, that is, the indicator is solid on, reconfigure the Internet access. The wireless signal name in the factory settings is @Ruijie-sXXXX.

6.2 How Can I Do If I Forgot the Password of Mesh Repeater?

- Forgot the management password of the web page: You can try to log in with the Wi-Fi password. If the error still occurs, restore the factory settings.
- Forgot Wi-Fi password: If the mesh repeater is configured to extend the signals of other routers, the Wi-Fi password is usually the same as the primary router's password. You can check the configuration of the primary router. If the Wi-Fi password of the primary router is incorrect, you can restore the factory settings and reconfigure the password.

6.3 How Do I Manage the Mesh Repeater After Installation Is Successful?

You are advised to use the **Reyee Router** App to manage the mesh repeater, or you can access the mesh repeater's IP address in a browser to manage it (the default address is 192.168.110.1). When working as a mesh repeater, the device obtains a new IP address. In this situation, the default address cannot be accessed. You are advised to manage the mesh repeater by using the **Reyee Router** App.