WAVLINK

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User Manual

Wi-Fi 7 BE5100 Whole Home Mesh Wi-Fi System

Model: HALO Nexus

@WavlinkOfficial

@WavlinkTechSupport

Table of contents:

About This Guide

This guide is a complement to Quick Installation Guide. The Quick Installation Guide provides instructions for quick internet setup, while this guide contains details of each function and demonstrates how to configure them.

When using this guide, please notice that features of the router may vary slightly depending on the model and software version you have, and on your location, language, and internet service provider. All screenshots, images, parameters and descriptions documented in this guide are used for demonstration only.

Conventions

In this guide the following conventions are used :

Convention	Description
Underlined	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	The content and text that needs to be emphasized on the web page is the theme color `#1D428A` , including menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example,**More > Network > Mode Selection** means the Mode Selection function page is under the Network menu that is located in the More tab.
Note:	Do not ignore this type of comment, it is to remind you to better use the device, to avoid the operation of the error that will cause the function to be invalid.
Tips:	Indicates important information that helps you make better use of your device.

More Info

The latest software, management app and utility are available from the Download Center at **https://docs.wavlink.xyz/Firmware/** .

A quick installation guide can be found in this guide.

Specifications can be found on the product page at **https://docs.wavlink.xyz/**.

If you encounter any issues, please don't hesitate to email __contact@wavlink.com/techsupport@wavlink.com/postsales@wavlink.com__ to provide feedbacks or contact online customer service, thank you !

Speed/Coverage Disclaimer

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.
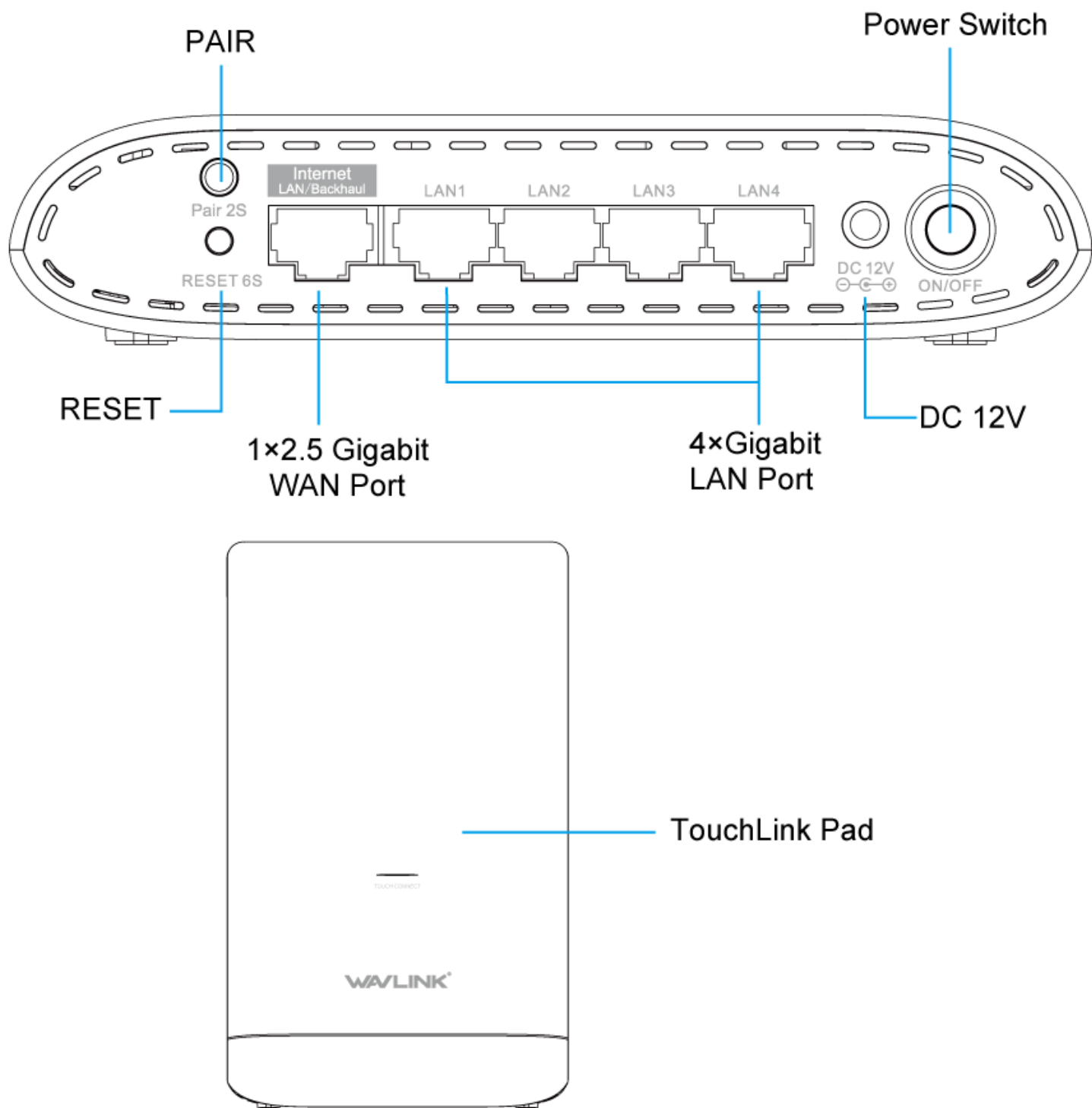
Chapter 1 Overview

This chapter contains the following sections :

- [Hardware-Overview](#)

- [Basic-Info](#)

Overview

Hardware Overview

PAIR

Power Switch

RESET

Internet
LAN/Backhaul

Pair 2S

RESET 6S

LAN1 LAN2 LAN3 LAN4

DC 12V

ON/OFF

1×2.5 Gigabit
WAN Port

4×Gigabit
LAN Port

DC 12V

TouchLink Pad

WAVLINK

Basic Info

2.4G SSID:WAVLINK-Mesh_XXXX

5G SSID:WAVLINK-Mesh_XXXX

Default IP: http://192.168.20.1

Login:http://wavlogin.link

Chapter 2 LED Indicator

LED Indicator

Mode	LED Status and Description
Router Mode	Blue on:The Internet connected Fast blinking in red:No Internet connected Slow blinking in blue:In pairing
Repeater Mode	Blue on:The Internet connected Slow blinking in red:Upper router connected but the Internet disconnected Fast blinking in red: Upper router disconnected
AP Mode	Blue on: The Internet connected Fast blinking in red:No Internet connected Slow blinking in blue:In pairing

Pair Button: Press and hold Pair for 2 seconds then release, and the LED will turn slow-flashing blue to add an extra mesh device to the existing Wi-Fi system.

Reset Button: Press and hold Reset for 6 seconds then release, and the LED will turn solid purple to reset the mesh devices.

Chapter 3 Mode Configuration

This chapter contains the following sections :

- [Router Mode](#)

- [Repeater Mode](#)

- [AP Mode](#)

Mode Configuration

Router Mode

1. Connect this router's **WAN** port to the Modem's or others' **LAN** port, then connect the DC IN to the power outlet, turn on this router.
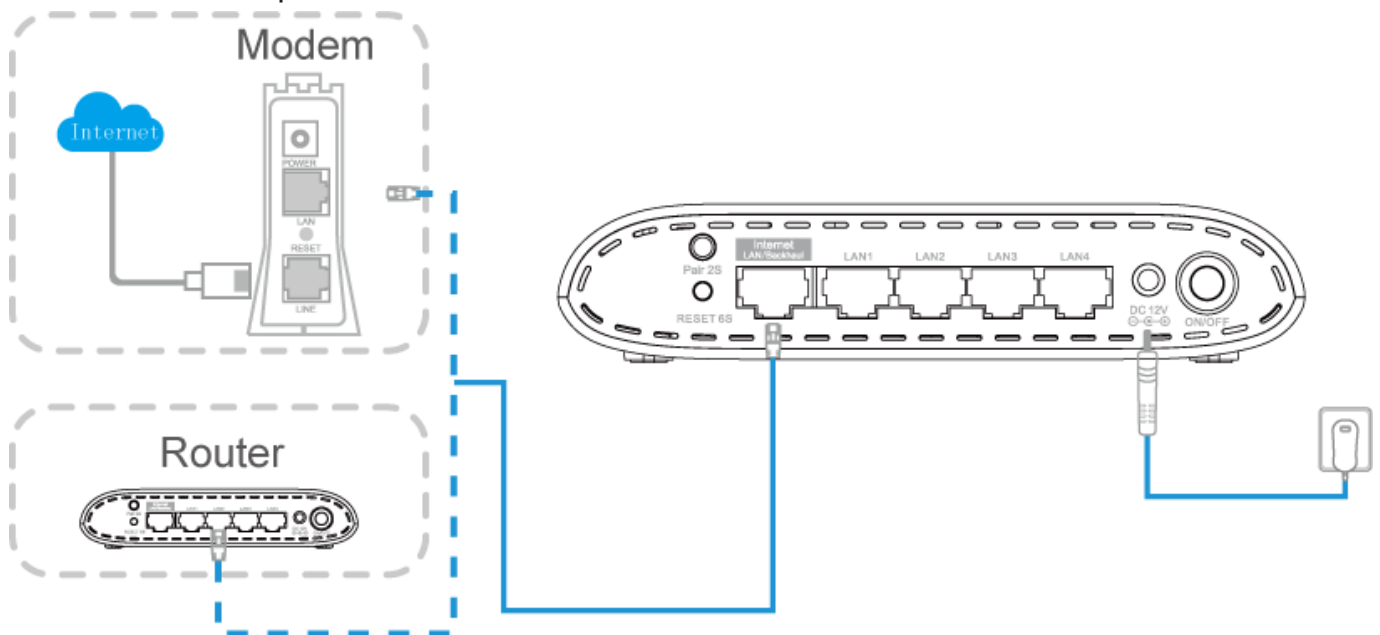
2. Connect your PC/Laptop to the router using the Ethernet cable or WiFi.

2.1 Using Ethernet Cable

2.1.1 Turn off the WiFi on your computer, then connect the computer to the **LAN** port of the router.

Cable   Connect to LAN Port
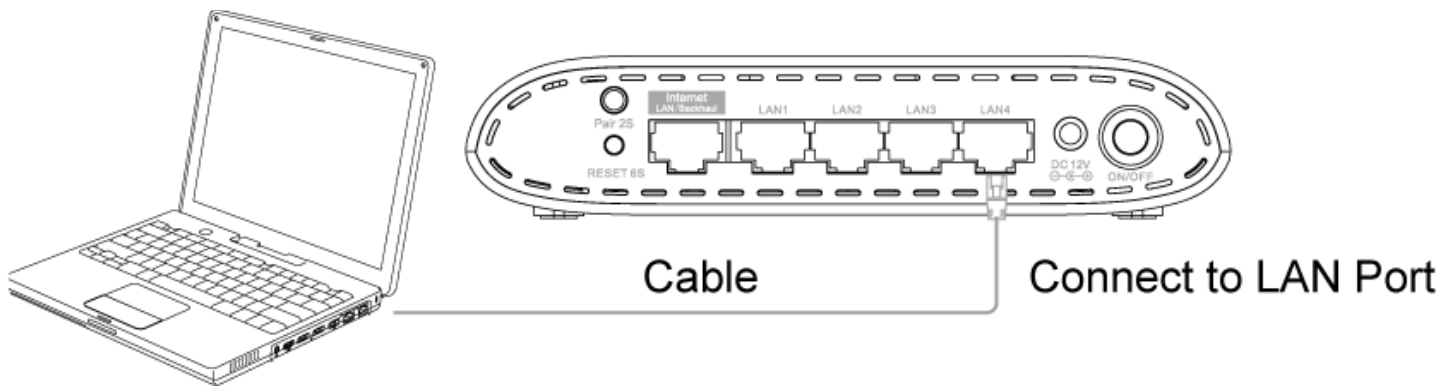
2.2 Using Wi-Fi

2.2.1 Find the SSID(Network Name) printed on the label at the bottom of the router.

2.2.2 Click the network icon of your computer or go to Wi-Fi Settings of your computer/phone, and then select the SSID(Network Name) to join the network.

Not connected
Connections are available

Wireless Network Connection

WAVLINK-Mesh_xxxx
WAVLINK-Mesh_xxxx
☑ Connect automatically   Connect

For Windows Users

Wi-Fi:On
Turn Wi-Fi Off

WAVLINK-Mesh_xxxx
WAVLINK-Mesh_xxxx

Join Other Network....
Create Network....
Open Network Preferences...
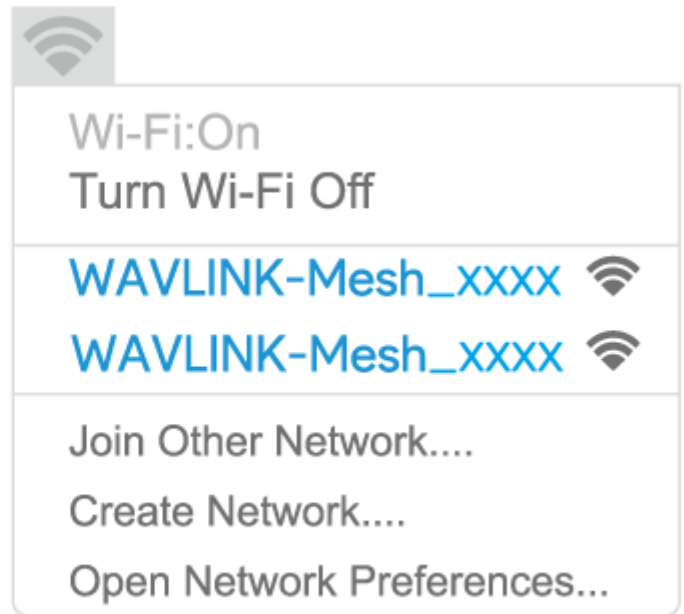
For Mac Users

1. Launch a browser from your computer or smart phone and enter http://wavlogin.link or http://192.168.20.1 in the address field not search bar. Click **EXPERIENCE NOW** to configure.

Note: If you are unable to access to the web-based setup page please get solution from FAQ:Q1.

2. After logging in, choose **WAN Type**. Then click **NEXT**.

Note: You could contact ISP to check the correct **Wan Type**. Or if possible, please connect the host router/modem to your PC directly via Ethernet cable and check if you could get Internet. If you could get Internet, please choose **DHCP** as **Wan Type**.If you could not get Internet, please choose **PPPoE** as the **Wan Type**.

3. Choose your **Country code/Time zone**, and configure the **WiFi Name** and create a new **Wi-Fi Password** for 2.4G and 5G band network.

4. After setting, click **SAVE**.

5. Wait the setup to complete, after clicking **REFRESH** you can use the new Wi-Fi Password to reconnect to the Wi-Fi.

Note: 1.If you want same WiFi Name/Password for your 2.4G and 5G network, open **Dual-band convergence**.

2.If it is necessary for you to set the device's administration password same as the WiFi password, choose **Same as the Wi-Fi password**.

Repeater Mode

1. If you want to change the router mode into repeater mode to get a larger Wi-Fi coverage, put the device in the range of the existing Wi-Fi network.
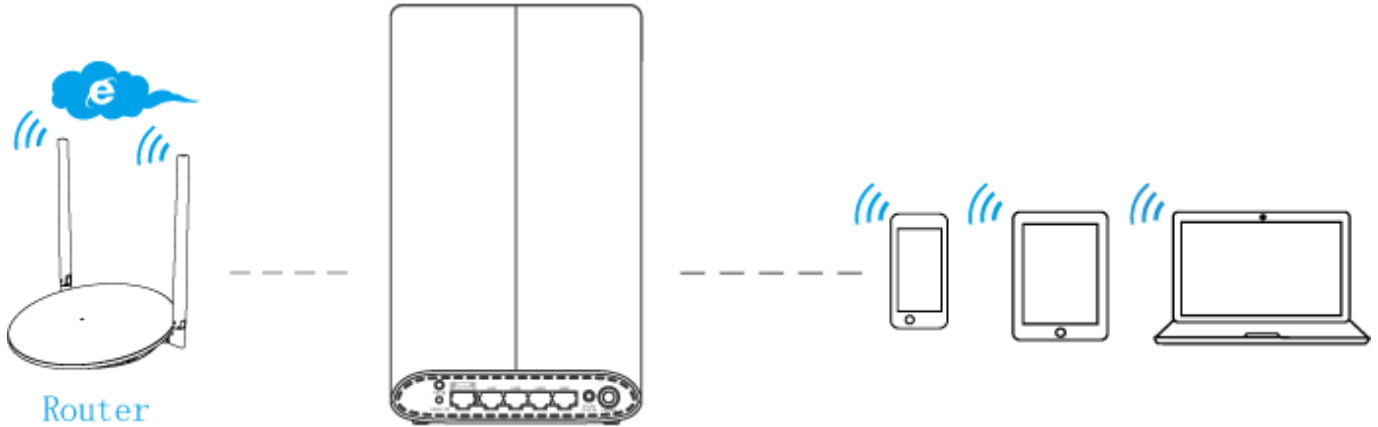

2. Launch a browser from your computer or smart phone and enter http://wavlogin.link in the address field not search bar.

3. Click **More>Network>Mode Selection**, choose **Repeater Mode** from the **Mode Selection** list.Then click **NEXT**.
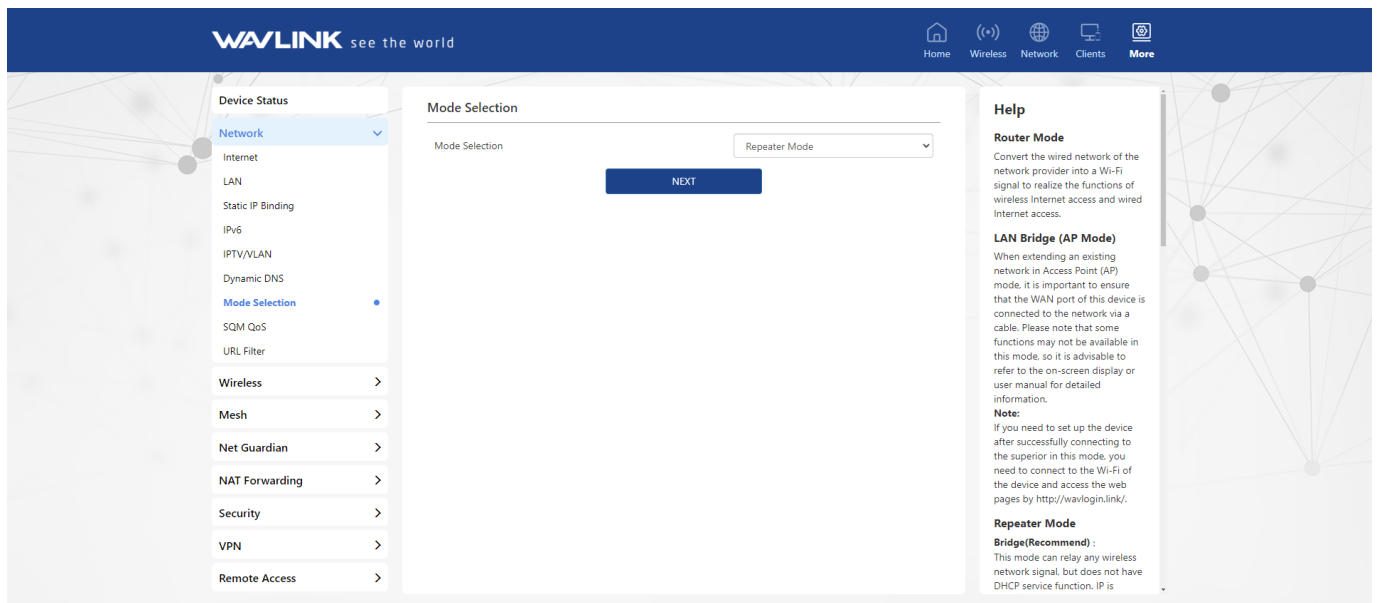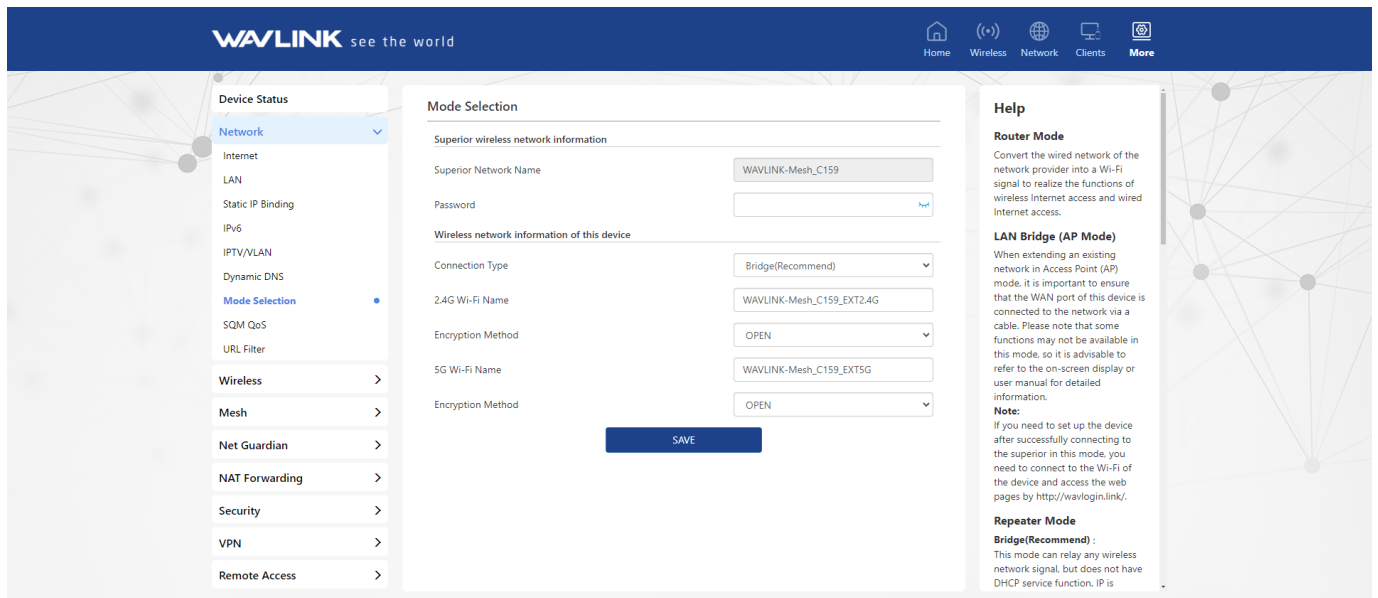

4. Select the Wi-Fi signal of the host router and click **NEXT**, if you didn't find the signal, click **RESCAN**. If the SSID(network name) is hidden, try to follow the guide of **Manual input(Point 6)**.
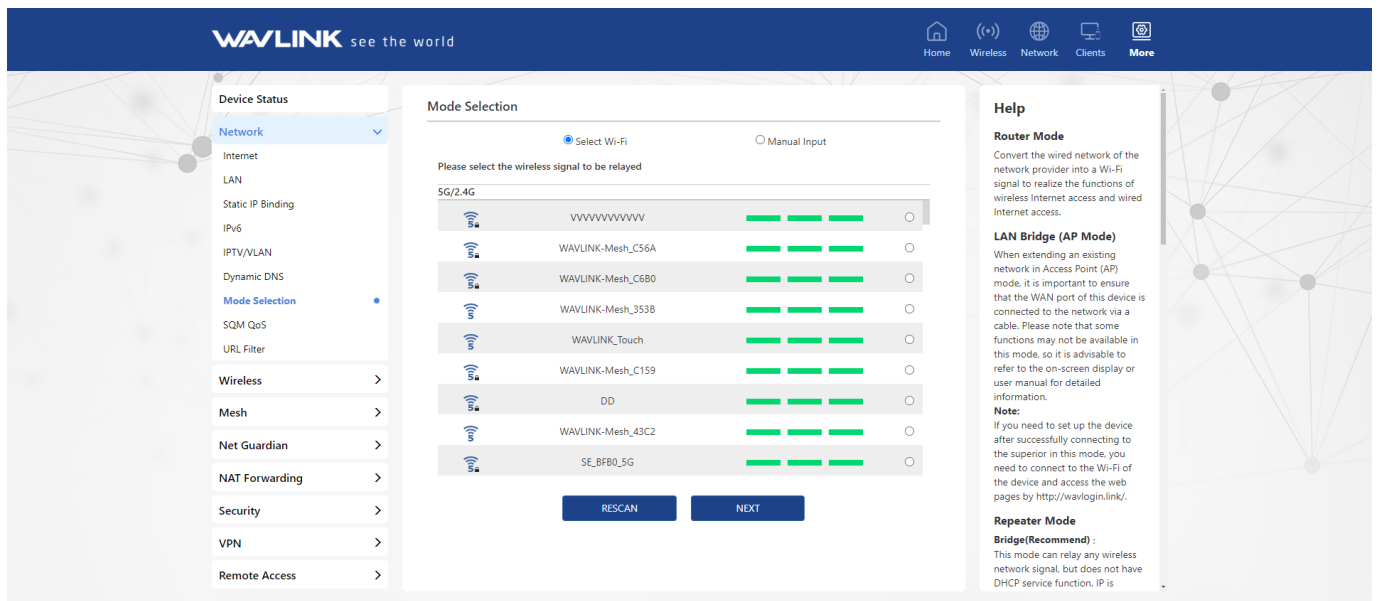
5. Follow the wizard to set the network information of the host router and this product.

6. If the SSID(network name) of the host router is hidden, please try to select **Manual input** and enter the SSID of the host router manually.

7. After setting the wireless information of the device, click **SAVE**.

8. Enjoy the network by reconnecting to the WiFi.

AP Mode

1. If you want to change the router mode into AP mode, connect this device's WAN port to the host router's LAN port.
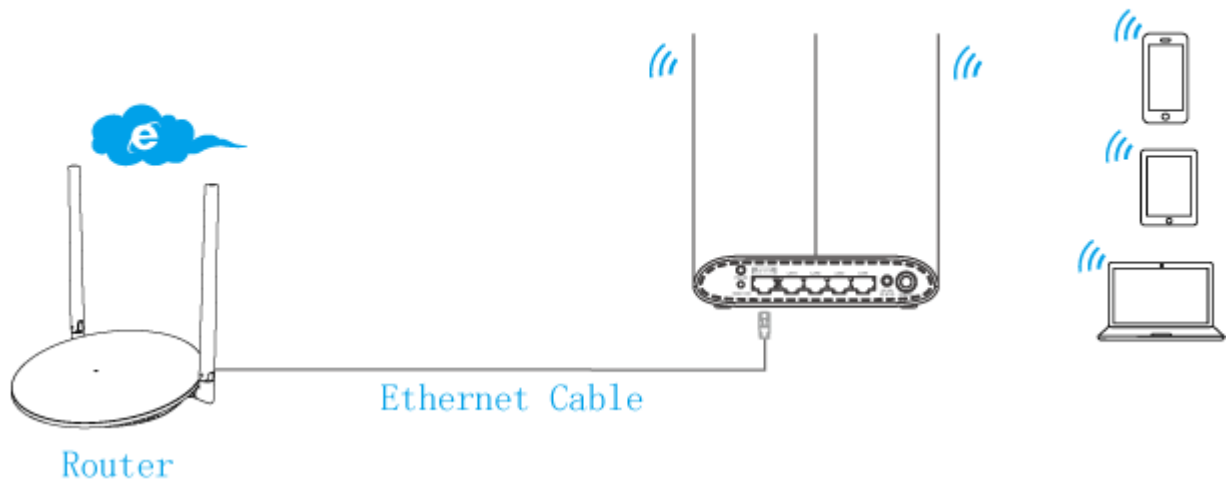
Router   Ethernet Cable

2. Launch a browser from your computer or smart phone and enter http://wavlogin.link in the address field not search bar.

3. Click **More>Network>Mode Selection**, choose **LAN Bridge(AP Mode)** from the **Mode Selection** list. Then click **SAVE**.
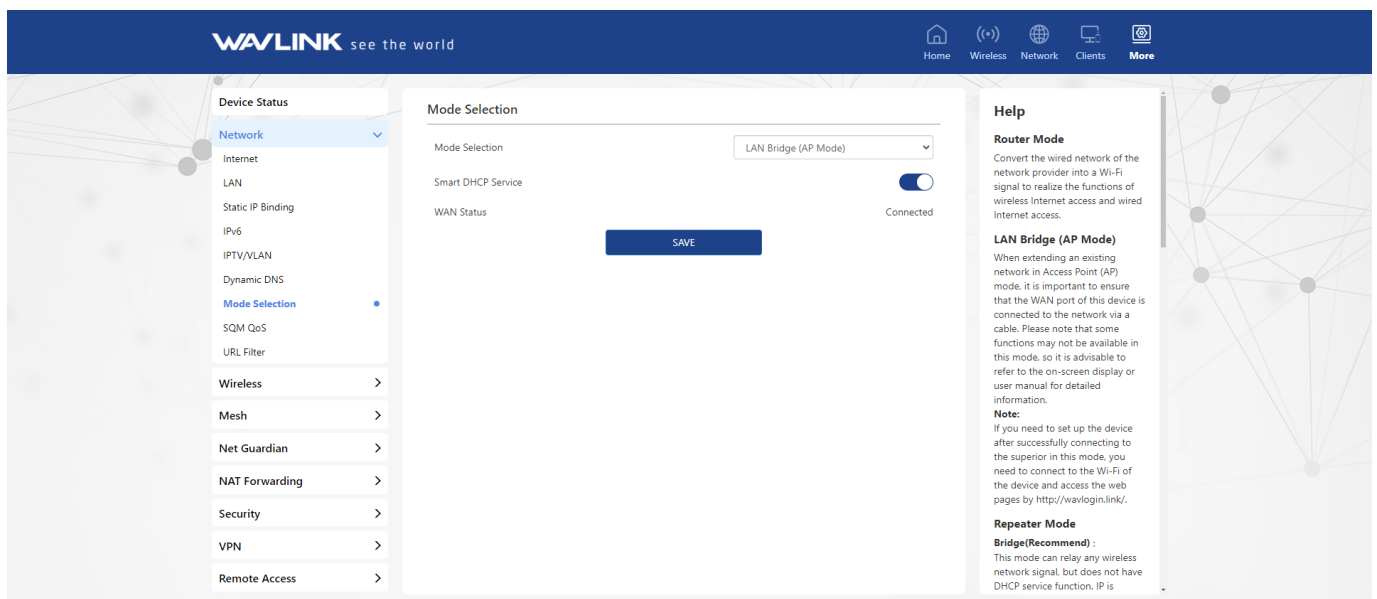
Note: By turning on Smart DHCP Serve, the router will automatically configure the IP service when no higher-level device is connected. If you do not need automatic IP configuration, you can turn off it.
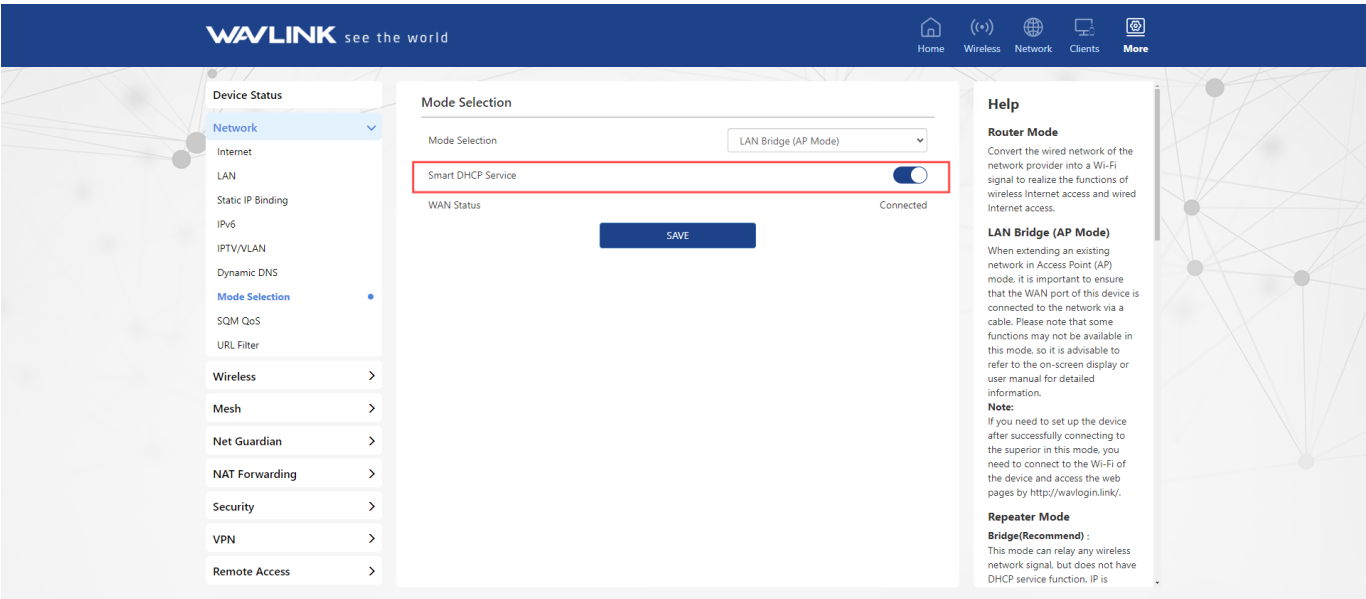
4. Enjoy the network by reconnecting to the WiFi.

Chapter 4 More Mesh Devices

This chapter contains the following sections :

• Pairing on the Web

• Pairing with Pair Button

More Mesh Devices

Pairing on the Web

1. Enter http://wavlogin.link in the address field not search bar. Click on **More>Mesh>Mesh Devices** and select **Mesh Table**. Then click on **ADD** and then follow the prompts on the screen.
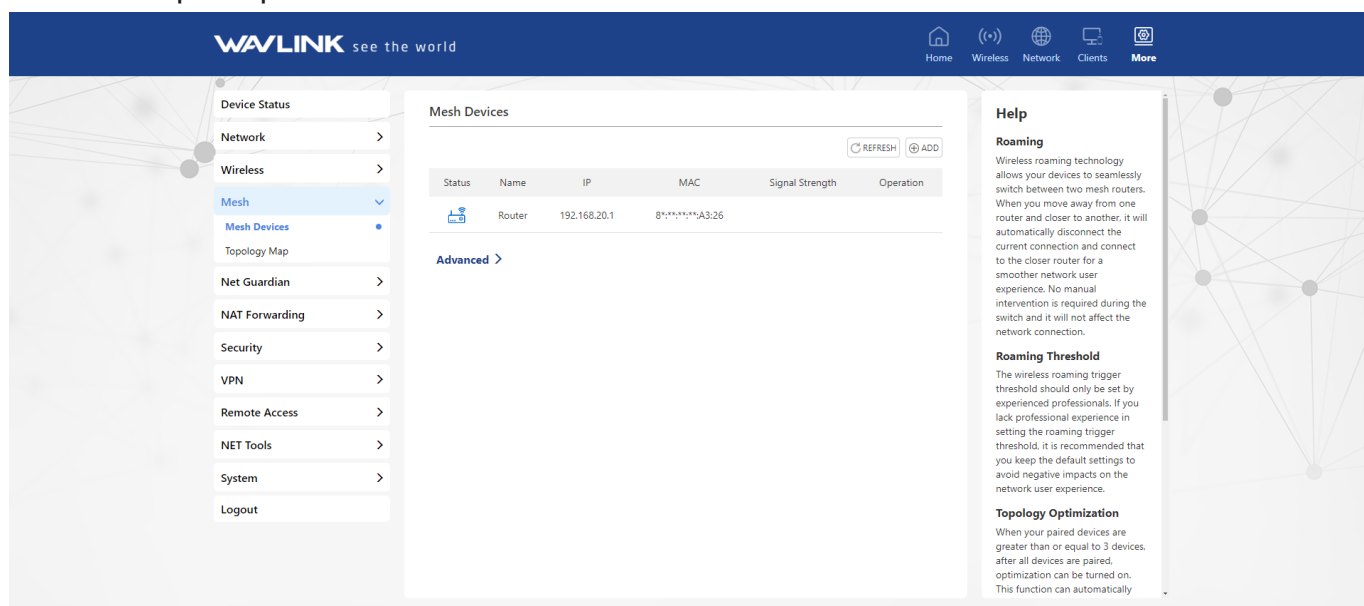
2. After scanning, please make sure the device you want to add is listed, and click **ADD**. If not, make sure the Mesh extender to be added is in a paired state, then click **RESCAN**.
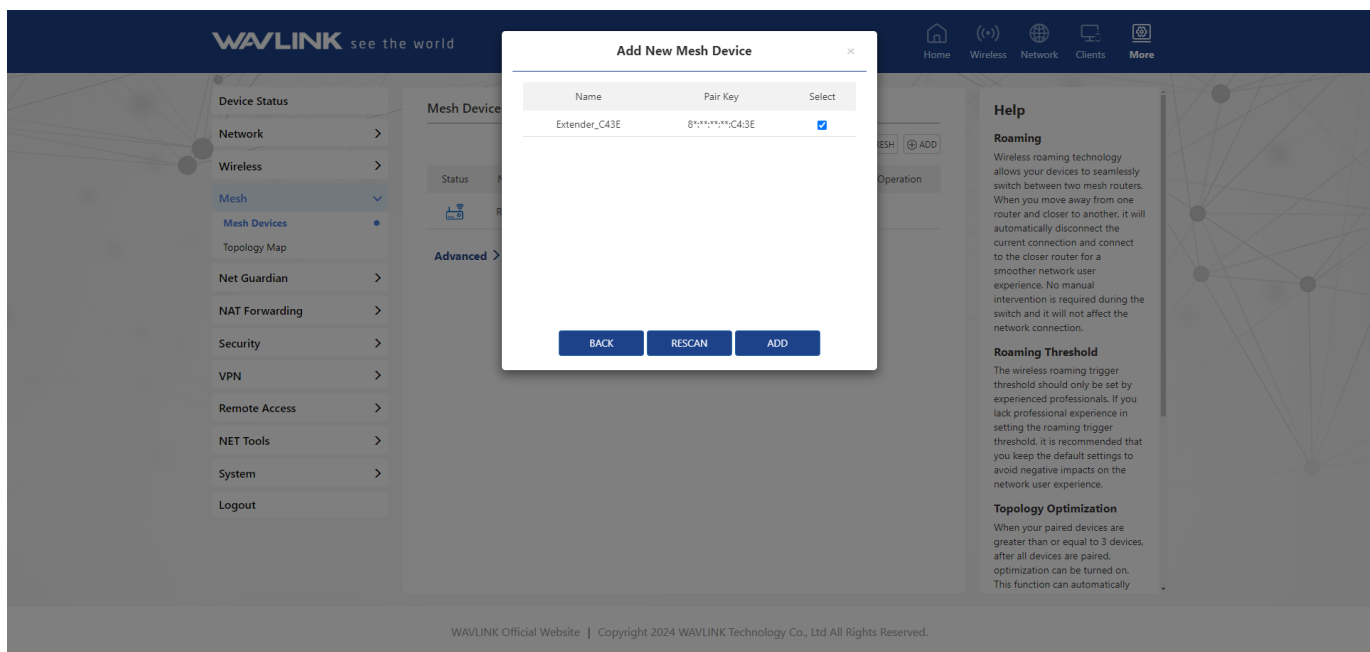
Pairing with Pair Button

After configuring the main router and when the main router has the Internet, press and hold the pair button for both the main router and the mesh extender for 2 seconds. If you hold down the Pair button for 2 seconds, the Light will start to blink slowly in blue, but it won't turn solid until the Pair is successful.
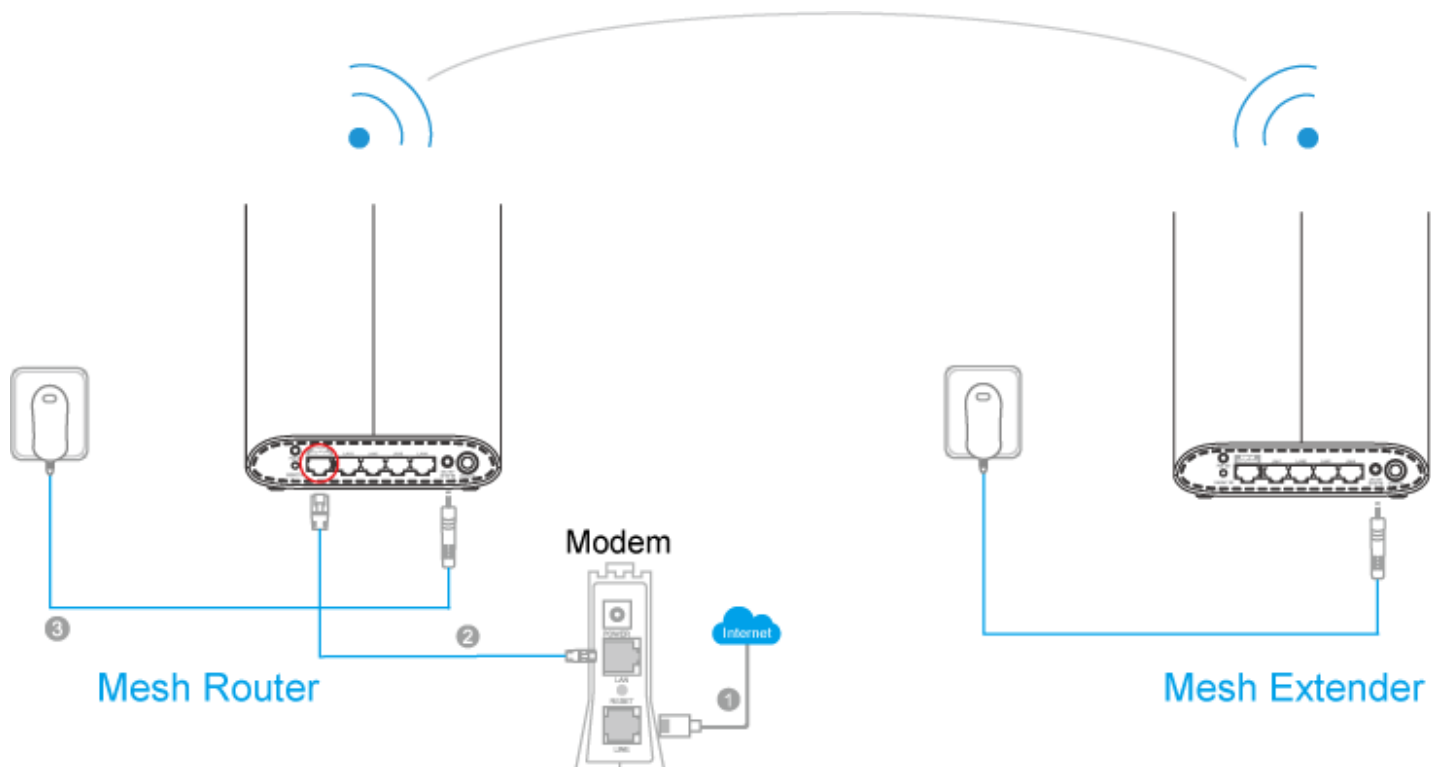
Chapter 5 LAN Backhaul

LAN Backhaul

1. If your wireless signal weakens because of complex environment, you can try the second option **LAN Backhaul**.

Mesh Router   Mesh Extender
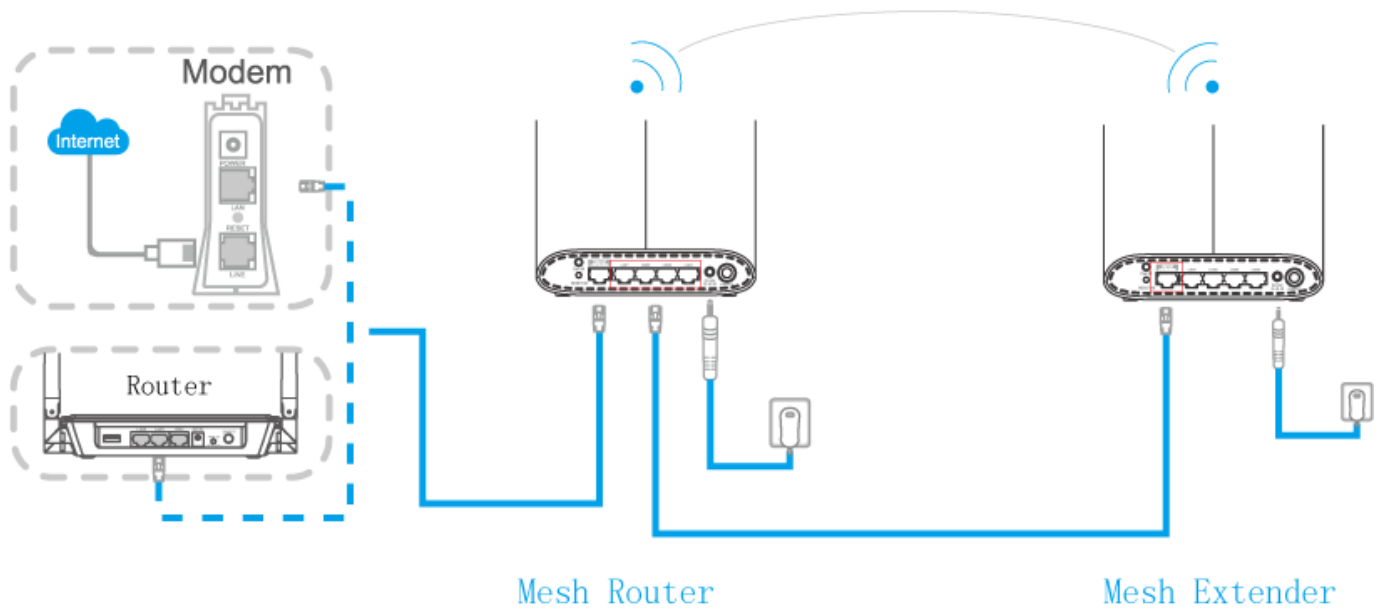
2. After mesh router is paired with mesh extender section, please connect the **WAN** port of the extender to **LAN** port of your router.

Chapter 6 TouchLink Technology

TouchLink Technology

TouchLink is the patented technology of Wavlink. On the front of the mesh device there is the TouchLink sensing pad, once you touch the pad, the sensing pad will blink blue, indicating that TouchLink is in process, then you can search "WAVLINK_Touch" and connect to it without any password.
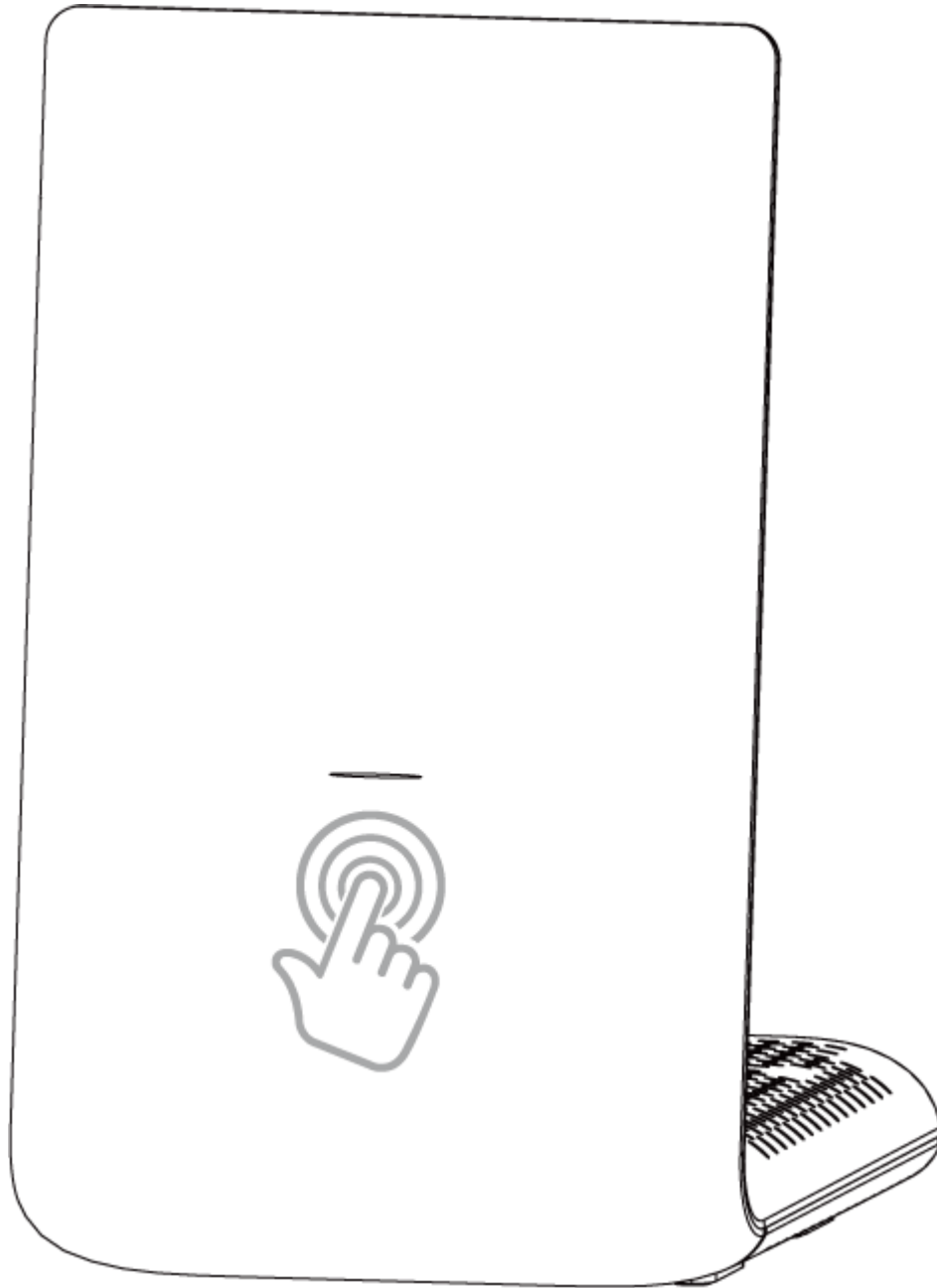
Chapter 7 Firmware Update

This chapter contains the following sections :

- Local Upgrade

- Online Upgrade

Firmware Upgrade

Firmware Upgrade can fix bugs of the router. However, we don't recommend you to upgrade the firmware, if the router works properly.

Local Upgrade

1. Download the latest firmware from the official website.

2. Enter http://wavlogin.link in the address field not search bar.

3. Click **More>System>Firmware Upgrade**.

4. Click on file icon to locate the extracted firmware file.

5. Click on **Upload Upgrade** and choose **Apply**, and wait for the firmware upgrade process to complete.

> If your all mesh devices are same model, you can check and upgrade your deviecs together at ①. If the model of your devices are not same, please visit the web interface of each device and upgrade it in ②.
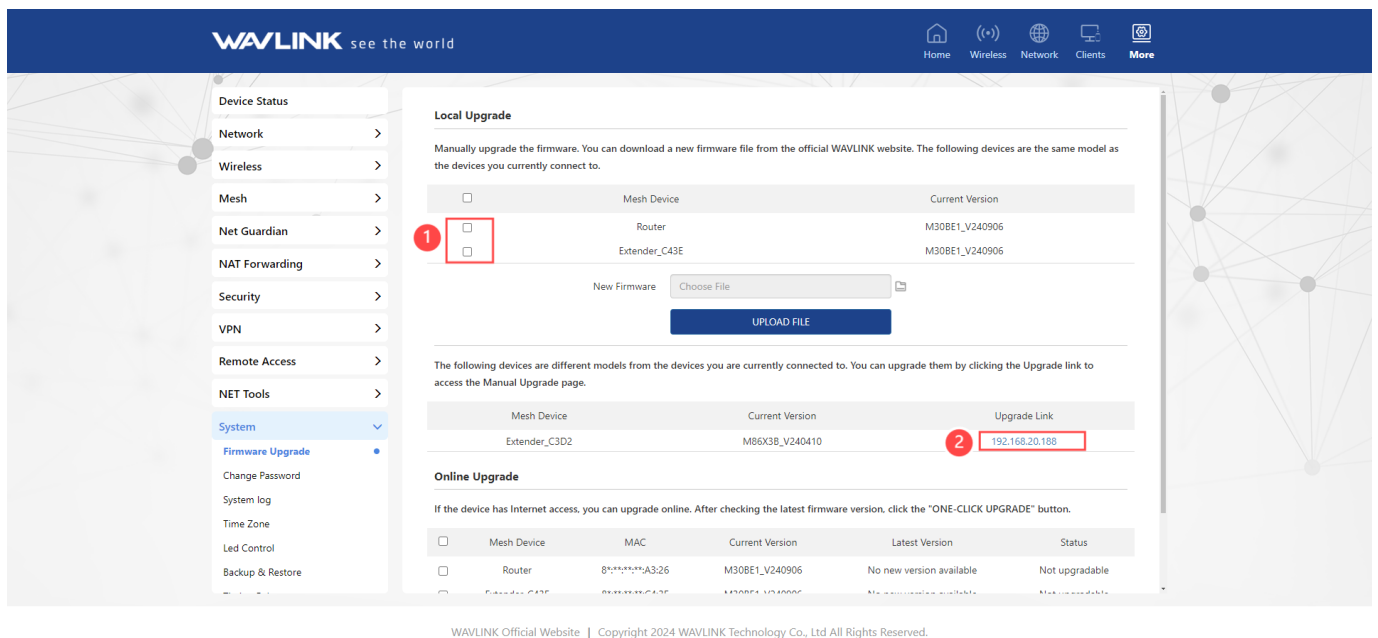
Online Upgrade

1. Enter http://wavlogin.link in the address field not search bar.

2. Click **More>System>Firmware Upgrade**.

3. Select the Mesh Node Name in ❸ that needs to be upgraded.
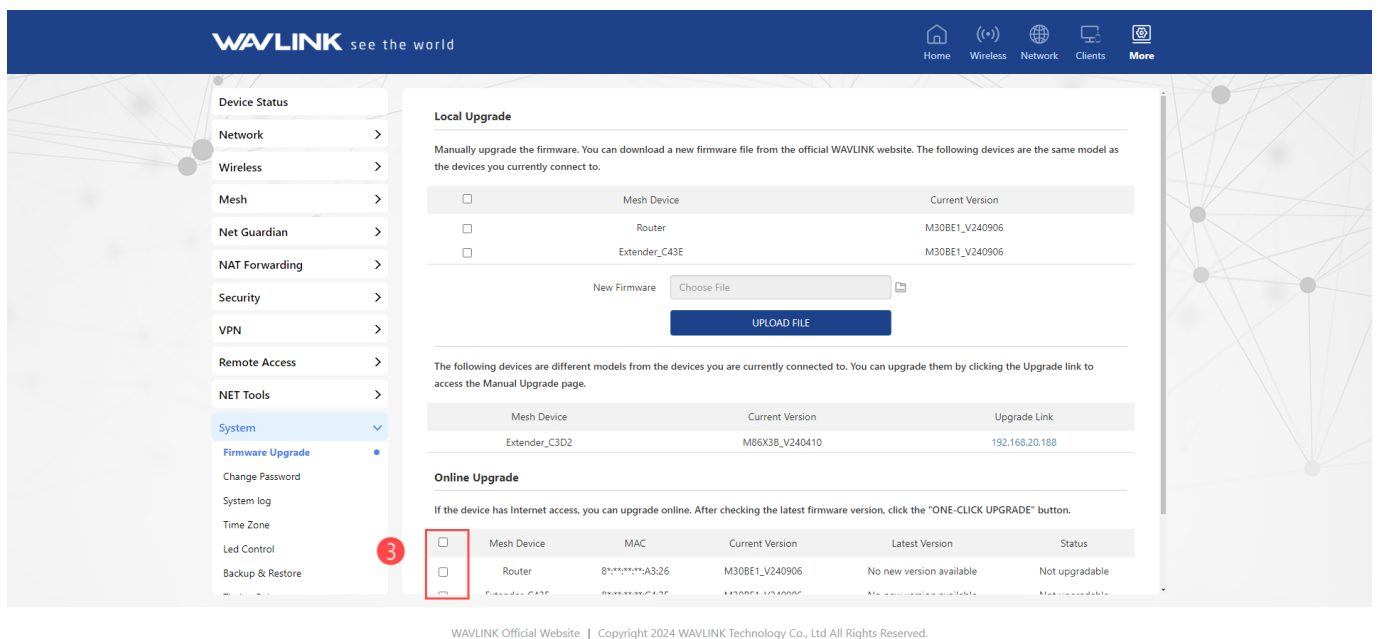
4. Click on **Check for new version** to find the latest version.

5. Click on **One-Click Upgrade**, and wait for the firmware upgrade process to complete.

Device Status
Network
Wireless
Mesh
Net Guardian
NAT Forwarding
Security
VPN
Remote Access
NET Tools
System
Firmware Upgrade
Change Password
System log
Time Zone
Led Control
Backup & Restore

	Mesh Device	Current Version
☐	Router	M30BE1_V240906
☐	Extender_C43E	M30BE1_V240906

New Firmware   Choose File

UPLOAD FILE

The following devices are different models from the devices you are currently connected to. You can upgrade them by clicking the Upgrade link to access the Manual Upgrade page.

Mesh Device	Current Version	Upgrade Link
Extender_C3D2	M86X3B_V240410	192.168.20.188

Online Upgrade

If the device has Internet access, you can upgrade online. After checking the latest firmware version, click the "ONE-CLICK UPGRADE" button.

	Mesh Device	MAC	Current Version	Latest Version	Status
☐	Router	8*:**:**:**:A3:26	M30BE1_V240906	No new version available	Not upgradable
☐	Extender_C43E	8*:**:**:**:C4:3E	M30BE1_V240906	No new version available	Not upgradable
☐	Extender_C3D2	8*:**:**:**:C3:D2	M86X3B_V240410	No new version available	Not upgradable

CHECK FOR NEW VERSION   ONE-CLICK UPGRADE

Note: After updating firmware, please **Reset The Device And Clear Your Browser Cache**.

What is firmware upgrade and why do I need it?
Firmware fixes bugs for your device, contains new features, and improves the experience of using the product. For your device update and security, please ask us for help. Wrong upgrade may damage your device and void the product warranty.

Chapter 8 FAQ

This chapter contains the following sections :

- FAQ
- GNU-General-Public-License-Notice
- After-sale-Service

FAQ

Q1. Why doesn't the login page appear after entering http://wavlogin.link ?

- Please make sure your computer is set to obtain an IP address automatically.
- Verify if http://wavlogin.link is correctly entered in the web browser.
- Use another web browser and try it again.
- Reboot your router and try it again.

Q2. What can I do if I cannot access the Internet?

- Please check if the Internet is working normally by connecting a computer directly to the modem with an Ethernet cable.If it is not, contact your internet service provider.
- Open a web browser, enter http://wavlogin.link and run the quick setup again.
- Reboot your router and try again.

Q3. How can I restore the router to its factory default settings?

- While the router is powered on, press and hold the Reset button for more than 6 seconds.

Q4. What can I do if I forget my Administration Management password?**

- Refer to FAQ:Q3 to reset the router.

Q5.What can I do if I forget my wireless network password?

- Log in the router's web management page at http://wavlogin.link and go to Wireless, you can find your Wi-Fi password here.

Q6. How to deploy the router to get the best Wi-Fi signal?

- Keep the router in the most central spot in your home and away from anything that might block its signal.

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http://www.gnu.org/licenses/old-licenses/lgpl-2.0.html

http://www.gnu.org/licenses/gpl.html

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

After-sale Service

Need help?

We're here for you!

Online support: wavlink.com
Available Mon-Fri 8:30 am-5:30pm (UTC+8)

support@wavlink.com
Available Mon-Fri 8:30 am-5:30pm (UTC+8)

+1 8889730883 (US Local)
Mon-Fri 9:00 am - 10:00 pm (UTC-5)

www.wavlink.com

Thank you for purchasing WAVLINK product!