

AX3000 Dual-Band 5GNR Mesh Router

Model: QuantumWave 5G Base

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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** to provide feedbacks or contact online customer service, thank you!

Speed/Coverage Disclaimer

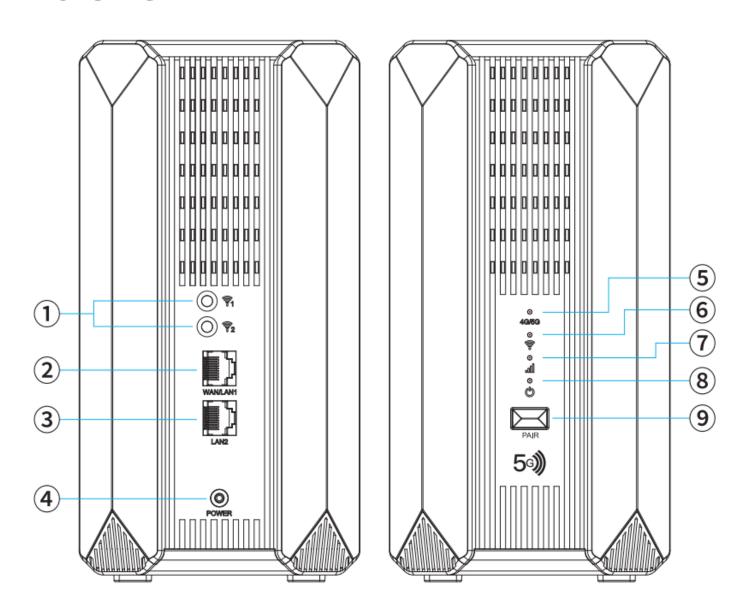
*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network 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.

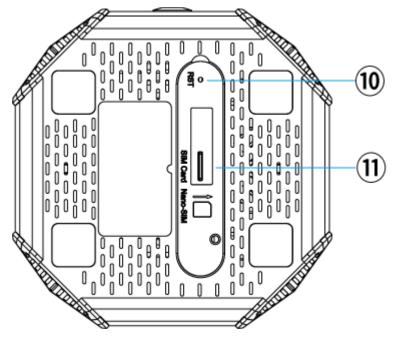
Overview

This chapter contains the following sections:

- Overview
- **LED Indicators**
- Basic Info
- In the Box

1. Overview





- ① External 5G cellular antenna port (TS-9)
- ② WAN/LAN1 port
- 3 LAN2 port
- Power port (DC IN)
- **5** 4G/5G LED
- 6 Wi-Fi LED
- SSI (Signal Strength Indicator) LED
- 8 Power LED
- 9 PAIR button
- RESET button
- 11 SIM card slot

RESET Button: Press and hold for 6 seconds to reset the device.

PAIR Button: Press and hold for 2 seconds to pair.

2. LED Indicators

LED	St	ate	Description		
5G/4G LED	Blue light		The SIM card is inserted.		
		e light flashing)	No SIM card is inserted.		
WiFi LED	Blue light		Working normally.		
		e light flashing)	Starting pairing.		
SSI LED	Both WAN/5G mode or 5G mode	Green light	The signal strength is excellent.		
		Blue light	The signal strength is good.		
		Red light	The signal strength is weak.		
		OFF	The modem is turned off or no SIM card is inserted.		
		Red light (fast flashing)	No access to the Internet.		
	WAN	Red light (fast flashing)	A network cable is connected to the WAN port but no network/ No network cable is connected to WAN port.		
	mode	OFF	A network cable is connected to the WAN port and the network is normal.		
Power LED	Solid on		Power on and working normally.		

3. Basic Info

Default IP: http://192.168.40.1

Login: http://wavlogin.link

 $2.4G/5G \; \mathsf{SSID}: \textbf{WAVLINK-Mesh_XXXX}$

Official Website : www.wavlink.com

Technical Support: support@wavlink.com

4. In the Box

- 1 x AX3000 Dual-Band 5GNR Mesh Router
- 1 x Power Adapter
- 1 x Ethernet Cable
- 1 x Quick Start Guide

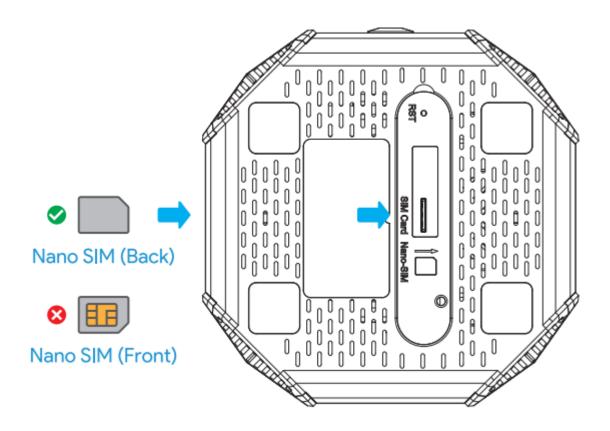
Access to the Internet

This chapter contains the following sections:

- Option I: 5G/4G Mobile Network
- Option II: WAN Wired Network

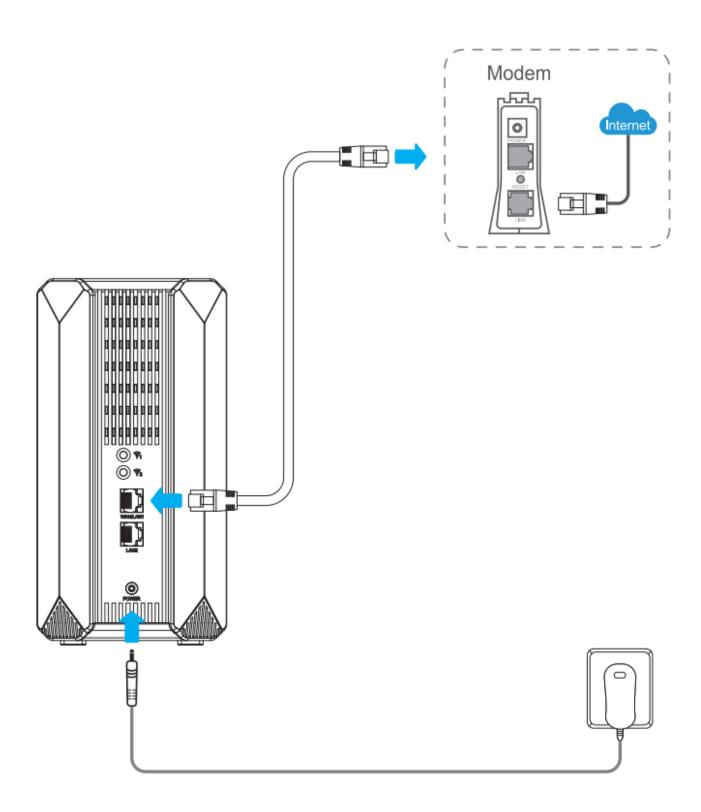
Option I: 5G/4G Mobile Network

Insert the Nano-SIM card into the slot at the bottom.



Option II: WAN Wired Network

Access to the network with a network cable connecting the WAN/LAN 1 port of the product.



Configuration

This chapter introduces steps for setup guide:

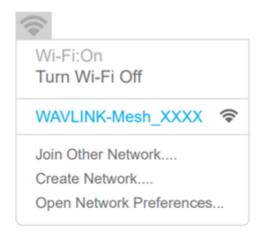
Step 1: Connecting the Router

1.1 Via Wireless

Turn on your Wi-Fi, search SSID of this product on your devices (smartphone, tablet computer, laptop, etc.), and connect it, then you can start configuring.



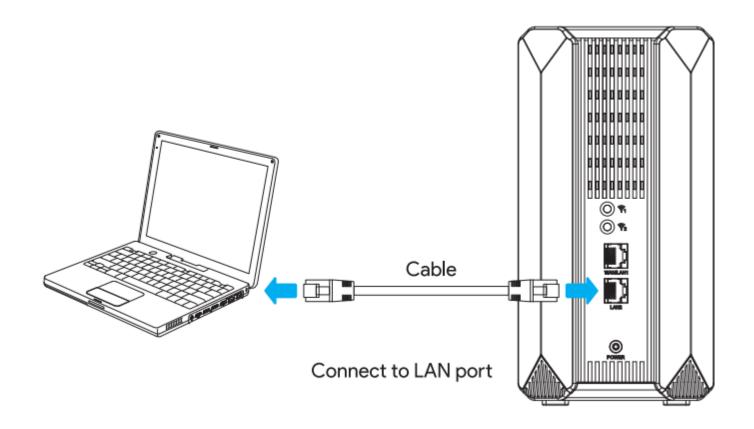
For Windows users



For Mac users

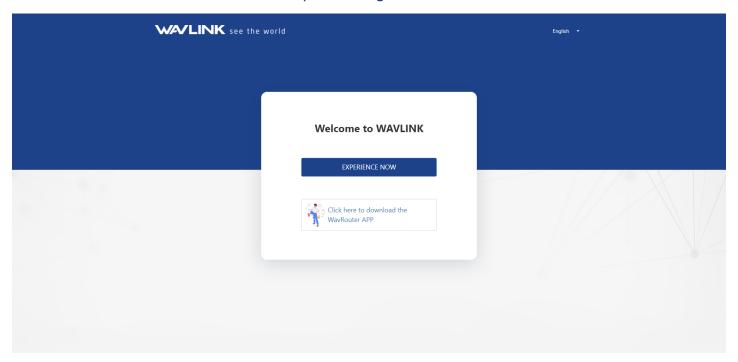
1.2 Via Cable

Connect the Ethernet cable to your PC/laptop and LAN port of the product, then you can start configuring.



Step 2: Logging in to Management Page

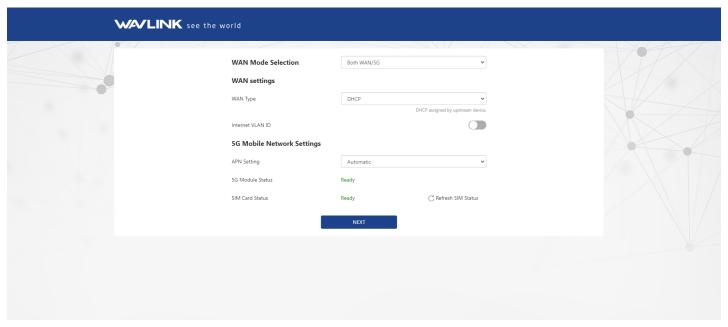
Launch a web browser and enter http://wavlogin.link in the address field.



Step 3: Selecting WAN Mode

Select "Both WAN/5G" for "WAN Mode Selection", then click "NEXT".

Note: If you choose Option I, please ensure the SIM Card is inserted and refresh SIM status.

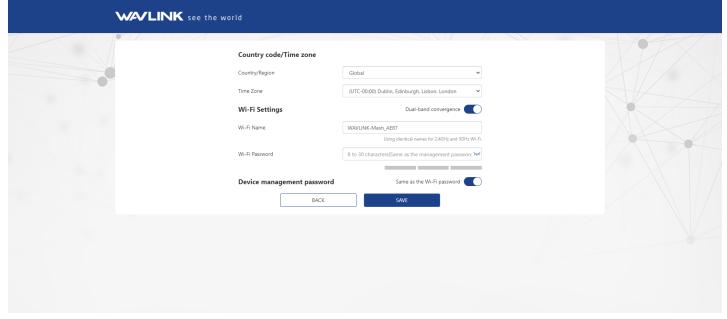


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Step 4: Basic Settings

Select your Country/Region, and Time Zone; for your network security, we suggest that you set a new login password following the rules accordingly.

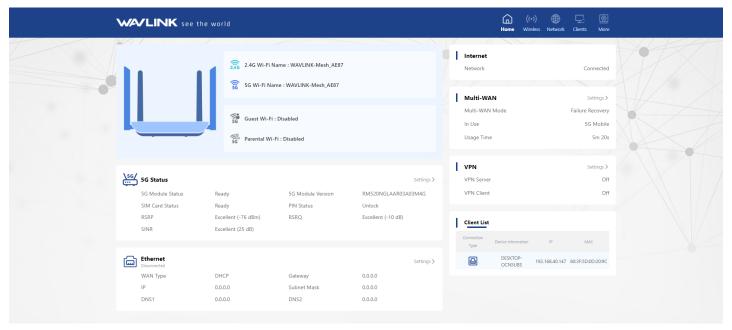
Note: The Dual-band convergence switch is on by default. 2.4G WiFi and 5G WiFi use the same SSID and password. Turning off the Dual-Band convergence switch allows you to set the SSID and password for 2.4G WiFi and 5G WiFi separately.



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Step 5: Done

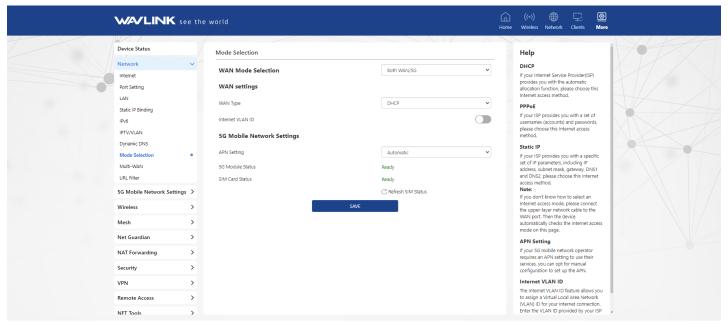
Log in again, then you can see 2.4G&5G Wi-Fi in Home.



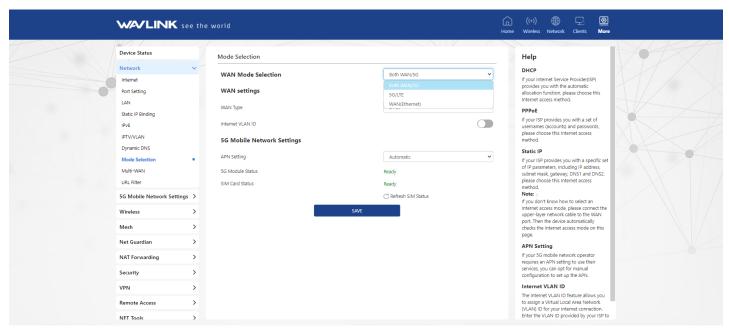
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Step 6: Switching to Other Modes

Click "More", enter Network and click "Mode Selection". You can switch modes; the default is Both WAN/5G.



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Firmware Upgrade

This chapter contains the following sections:

- Option I: Local Upgrade
- Option II: Online Upgrade

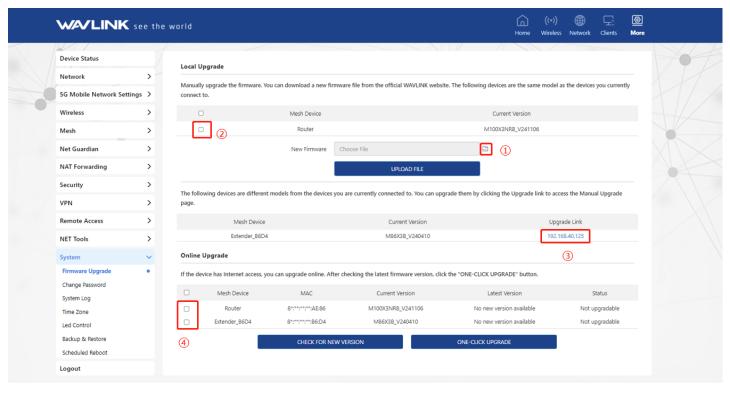
Option I: Local Upgrade

- 1. Download the latest firmware file from WAVLINK website.
- 2. Extract the firmware from the downloaded file.
- 3. Log in to http://wavlogin.link, then click **"More"**, enter System and click **"Firmware" Upgrade"**.
- 4. Click on ① to locate the extracted firmware file.
- 5. Click on " **UPLOAD FILE**" and choose "**Apply**", and wait for the firmware upgrade process to complete.

Note: If your all mesh routers are the same model, you can check and upgrade your routers together at ②. If the models of your routers are not the same, please visit the web interface of each router and upgrade it in ③.

Option II: Online Upgrade

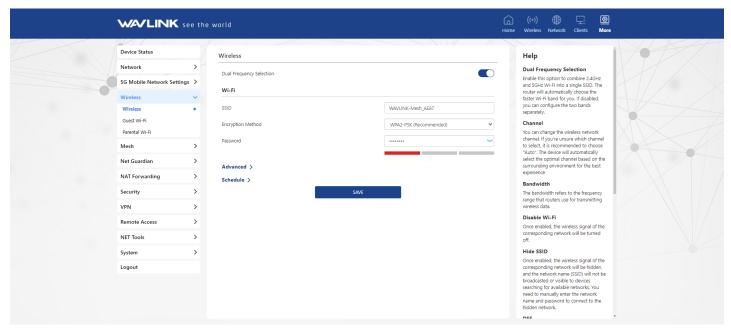
- 1. Log in to http://wavlogin.link, click "More", enter System and click "Firmware Upgrade".
- 2. Select the Mesh Node Name in ④ that needs to be upgraded.
- 3. Click "CHECK FOR NEW VERSION" to find the latest version.
- Click "ONE-CLICK UPGRADE", and wait for the firmware upgrade process to complete.



Wi-Fi Password Management

This chapter introduces guide for changing Wi-Fi password.

When you need to change your Wi-Fi password, please click **"More"**, enter Wireless, and click **"Wireless"**.



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Q&A

Q1. Unable to access to network.

- Please check your device configuration.
- After powering on, the device needs 1-2min to initialize, please wait.
- Check the LED indicator's status.

Q2. Unable to access the 5G CPE management page.

- Please type the correct IP address in the browser address bar. Check the label on the bottom of the device to obtain the default IP address.
- Please use a network card in the computer. Multiple network cards may cause address resolution to fail.
- Please do not use a proxy server.

Q3. Unable to use Wi-Fi to connect devices and clients.

- Check if the device's Wi-Fi is enabled.
- Refresh the wireless network list and select the correct SSID to connect.
- Check if the client's IP address is set to obtain automatically.
- Enter the correct Wi-Fi connection key. Connect the power adapter.

Q4. What should I do if I fail to connect to the internet over the mobile connection?

- Make sure that your SIM card is an NR or LTE card.
- Make sure that the nano-SIM card is inserted correctly into the 5G CPE device and that the 5G CPE device is operating in 4G, 5G-SA, 5G-NSA, and Auto mode.
- Check with your ISP to ensure that your SIM card is in your ISP's service area.
- Check with your ISP to ensure your 4G/5G mobile plan is available.
- Move your 5G CPE device to a different location such as closer to the window or door to see whether it gets better signal strength.

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After Sales

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