WAVLINK

see the world

AX3000 Dual-Band 5G NR Router

Model: QuantumWave 5G

@WavlinkOfficial

@WavlinkTechSupport

Table of contents:

About This Guide

This guide serves as a companion to the Quick Installation Guide for your wired USB product. The Quick Installation Guide provides essential steps for immediate setup, while this document offers detailed explanations of product features and advanced configuration options.

Please note that product functionality may vary slightly depending on your specific model, software version, geographic region, language, and connected devices. Screenshots, parameters, and descriptions in this guide are for illustrative purposes 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.
Note:	Critical reminders to prevent operational errors or functionality issues.
Tips:	Best practices or optimization suggestions for enhanced performance.

More Info

The latest driver, firmware and utilities are available from the Download Center at **WAVLINK SUPPORT** .

Included in your product packaging or available digitally via the link above.

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.

Information in this document is subject to change without notice.The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage,including but not limited to special, incidental, consequential, or other damage.

Safety Instructions

Always read the safety instructions carefully.

Keep this Quick Start Guide for future reference.

Keep this equipment away from humidity.

If any of the following situation arises, get the equipment checked by a service technician:

􀀁The equipment has been exposed to moisture.

􀀁The equipment has been dropped and damaged.

􀀁The equipment has an obvious sign of breakage.

􀀁The equipment has not been working well or you cannot get it work according to Quick start Guide.

Copyright Statement
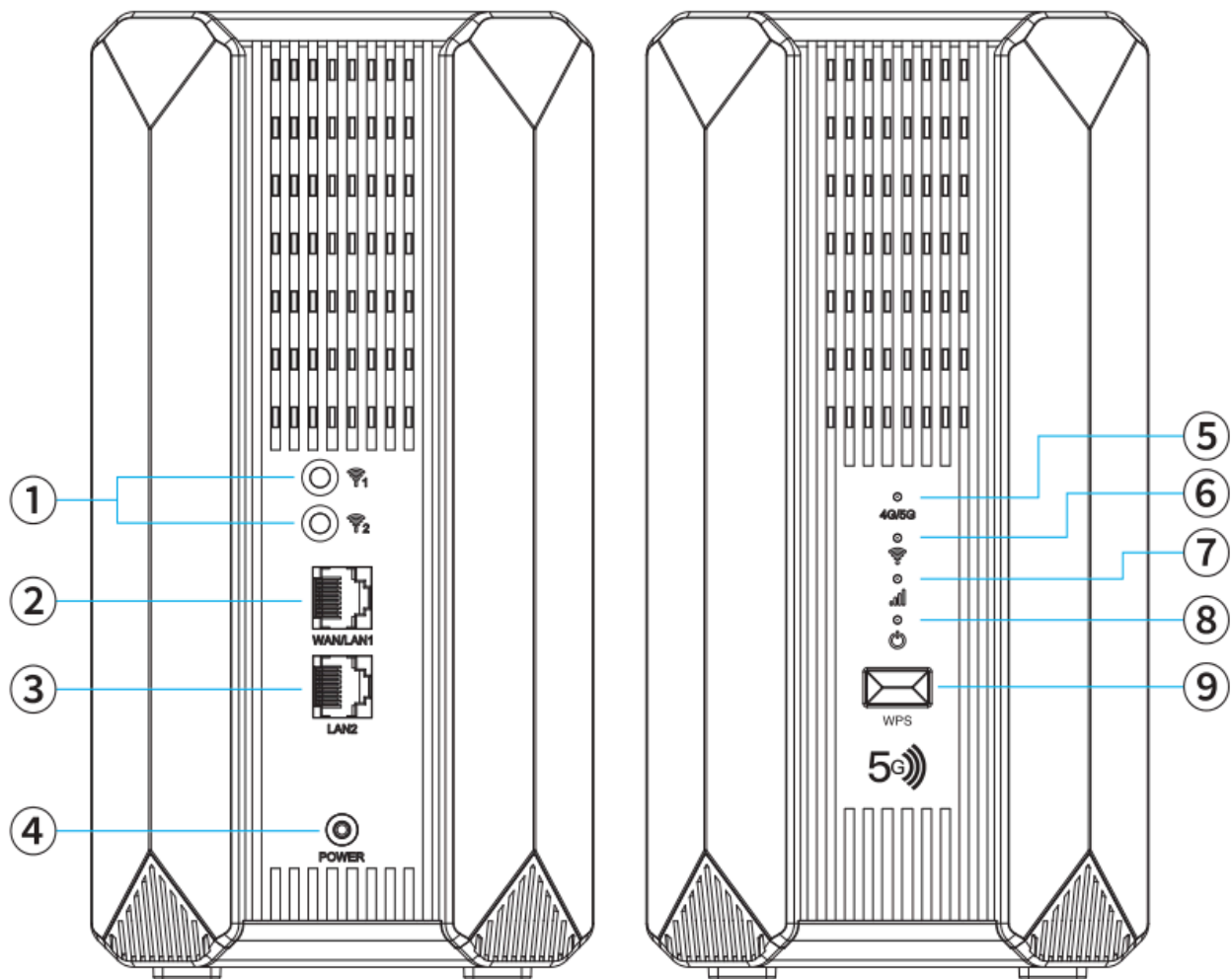
WEEE Directive & Product Disposal

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.
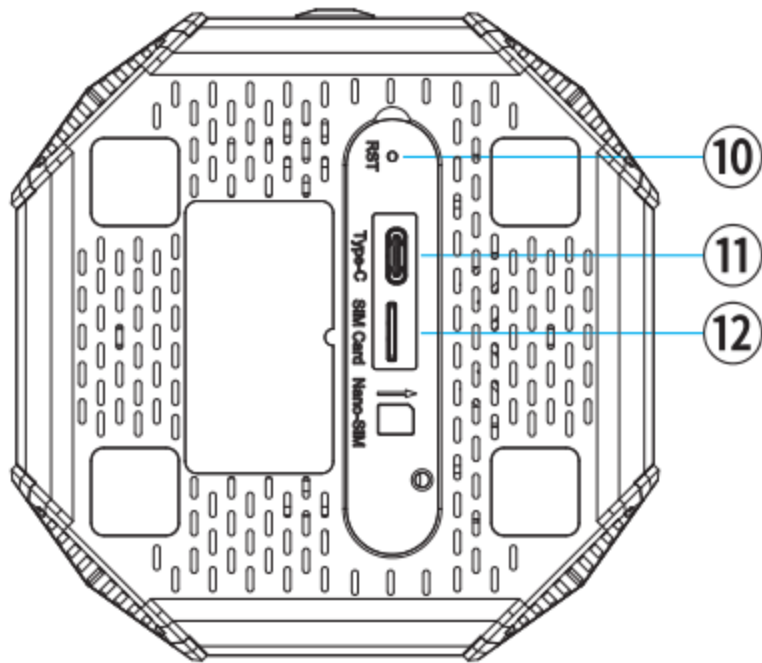
Chapter 1 Basic Product Info

Overview

① External 5G cellular antenna port (TS-9)

② WAN/LAN1 port

③ LAN2 port

④ Power port (DC IN)

⑤ 4G/5G LED

⑥ Wi-Fi LED

⑦ SSI(Signal Strength Indicator) LED

⑧ Power LED

⑨ WPS button

⑩ Reset button

⑪ Type-C port (only for debug)

⑫ SIM card Slot

Reset Button: press and hold for **6** seconds to reset the device. **WPS Button:** press and hold the WPS button for **2** seconds to enter pairing status, and wait for the terminal device to connect.

In the Box

- 1 x AX3000 Dual-Band 5G NR Router

- 1 x Power Adapter
- 1 x Ethernet Cable
- 1 x Quick Start Guide

Basic Info

Default IP: 192.168.40.1

Login: http://wavlogin.link

Default Password: admin

2.4G/5.8G SSID: WAVLINK-AX_XXXX

Official Website: www.wavlink.com

Technical Support: support@wavlink.com

LED Indicator

LED	Status	Description
5G/4G LED	Green	The device is connected to 5G network
5G/4G LED	Blue	The device is connected to 4G network
5G/4G LED	OFF	5G/4G not working or SIM not inserted
WiFi LED	Green	Dual band WiFi works normally or When 2.4GHz WiFi is turned off, 5.8GHz WiFi works normally
WiFi LED	Blue	When 5.8GHz WiFi is turned off, 2.4GHz WiFi works normally
WiFi LED	Flashing	WPS function is in progress
WiFi LED	OFF	2.4GHz and 5.8GHz WiFi are both turned off
SSI LED	Green	The signal strength is excellent

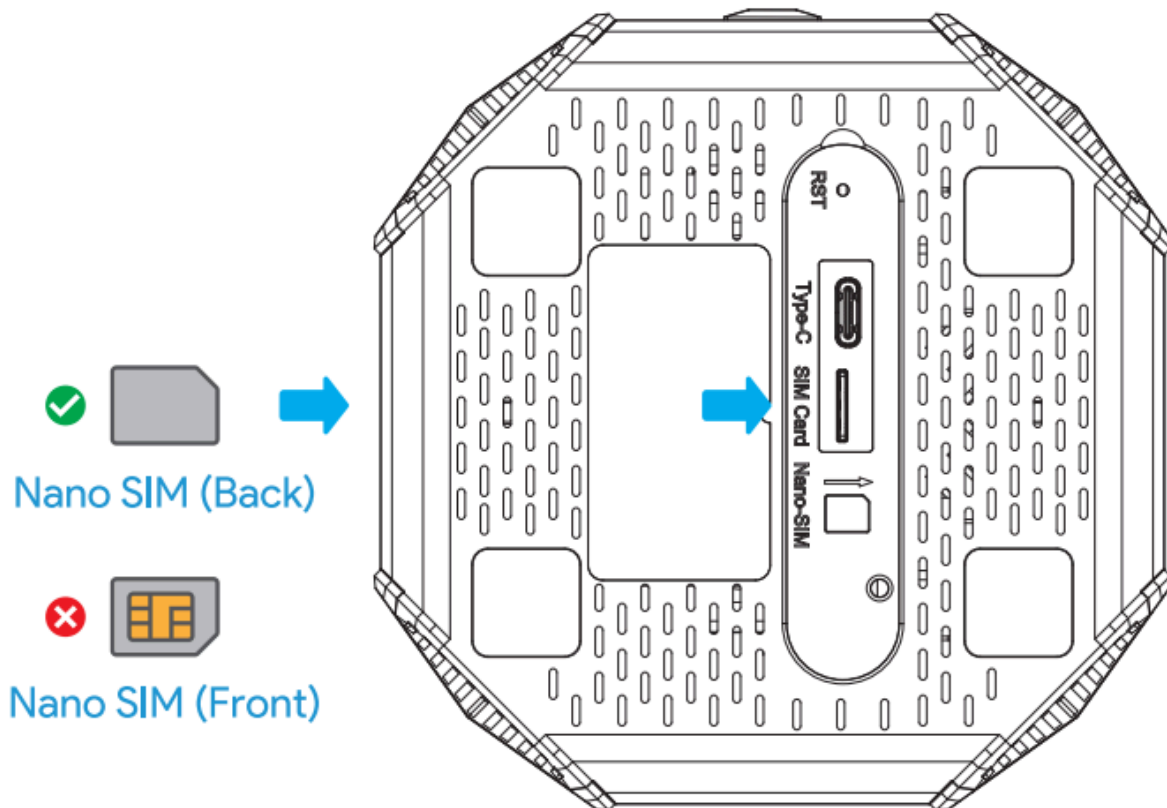| LED	Status	Description
SSI LED	Blue	The signal strength is good
SSI LED	Red	The signal strength is weak
SSI LED	OFF	5G/4G not working or SIM not inserted
Power	Green	Power on and working properly
Power	OFF	Power OFF

Chapter 2 Access to the Internet and Configuration

This chapter introduces the steps to configure this router.

• Access to the Internet

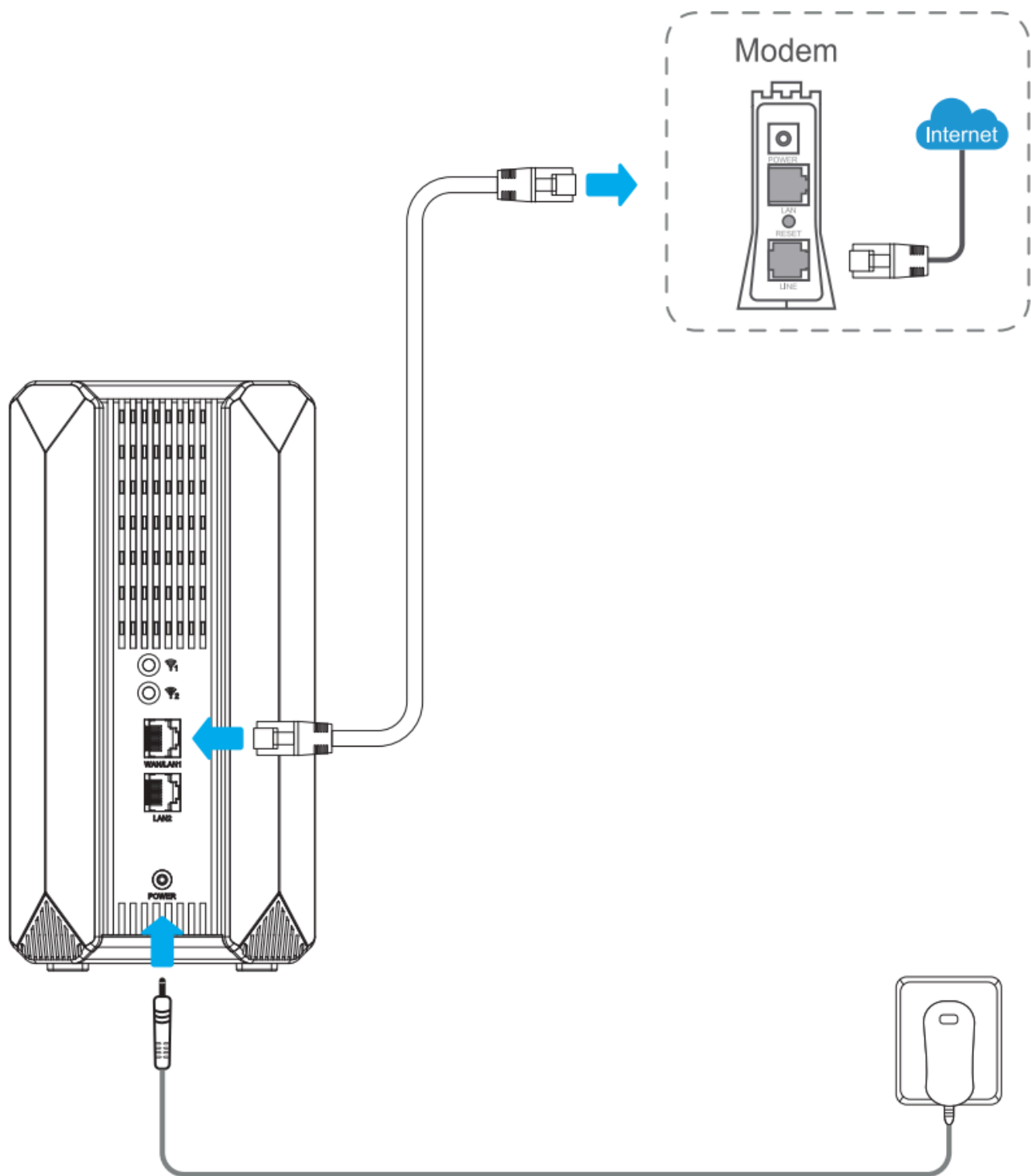• Configuration

Access to the Internet

Option I: 5G/4G Mobile Network

1. Insert the nano-SIM card in the bottom slot.

Option II: WAN Wired Network

1. Connect to the network with a network cable through the WAN/LAN1 port of the device.
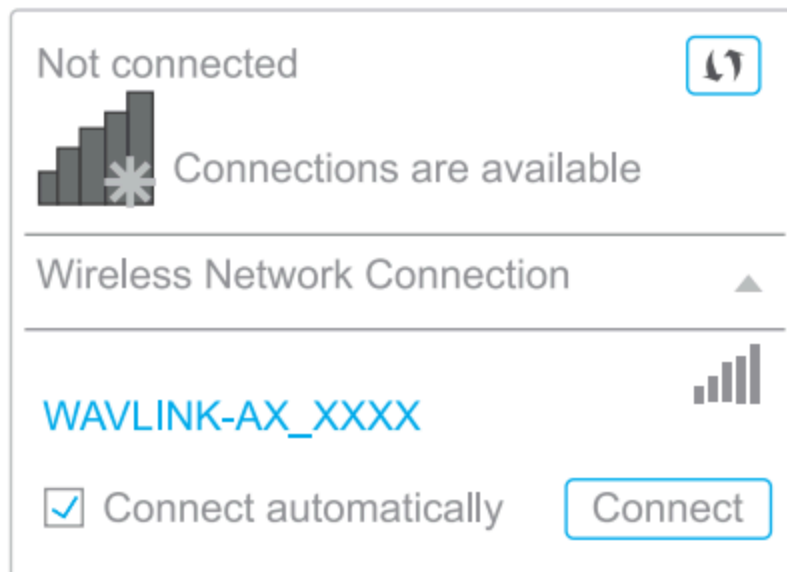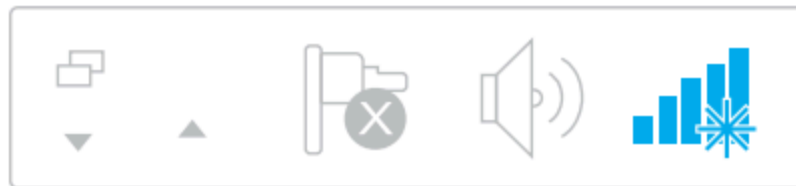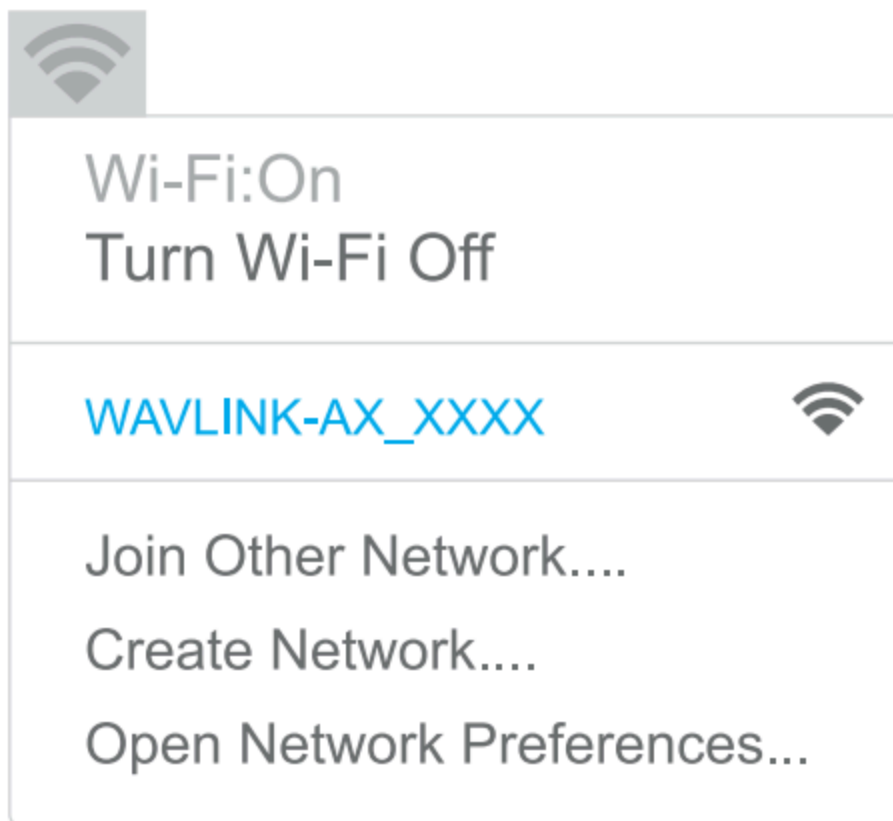
Configuration

1.Connecting the Router

- 1.1 Wireless Connection

On your laptop or smartphone, connect to the default SSID printed on the router: WAVLINK-AX_XXXX.

Not connected

Connections are available

Wireless Network Connection

WAVLINK-AX_XXXX

☑ Connect automatically   Connect

For Windows users

Wi-Fi:On
Turn Wi-Fi Off

WAVLINK-AX_XXXX

Join Other Network....

Create Network....

Open Network Preferences...

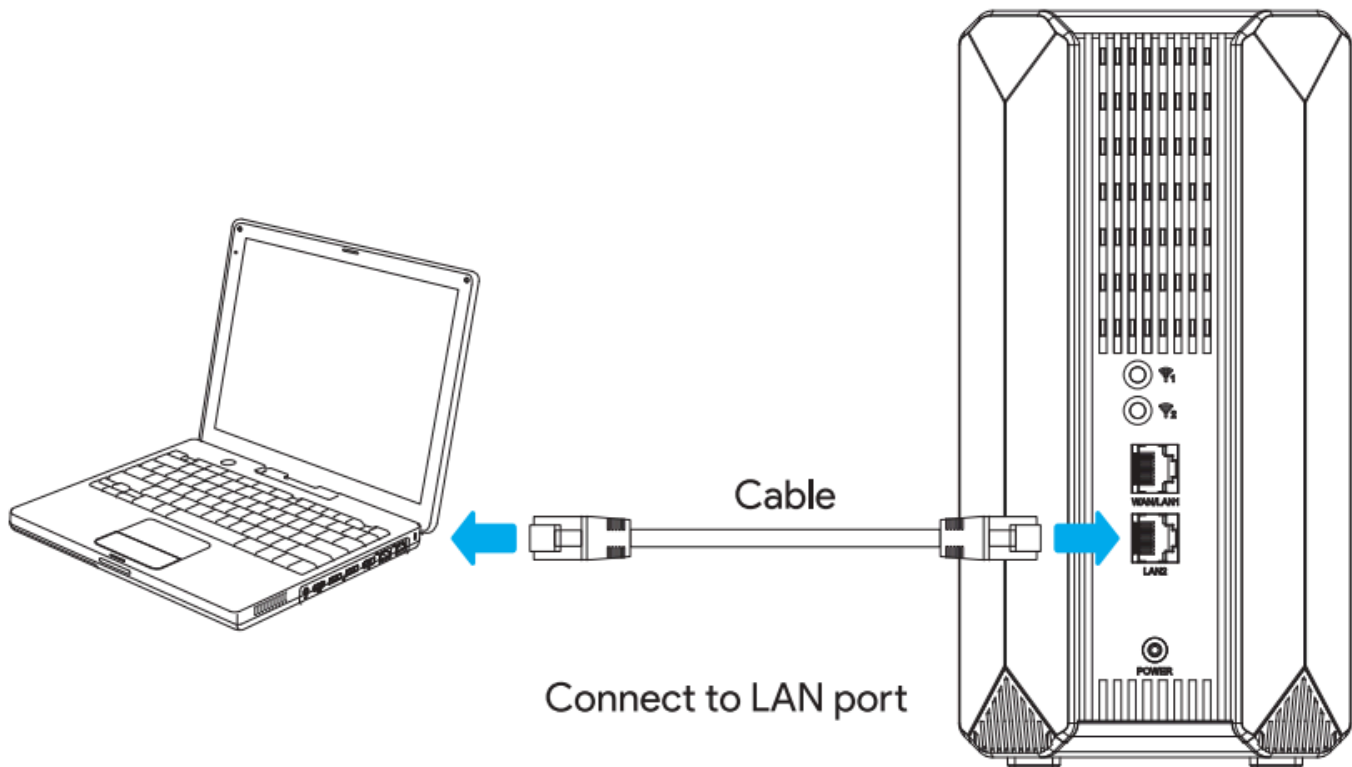**For Mac users**

- 1.2 Wired Connection

Use an Ethernet cable to connect your computer to the LAN2 port on the router.

Cable

Connect to LAN port
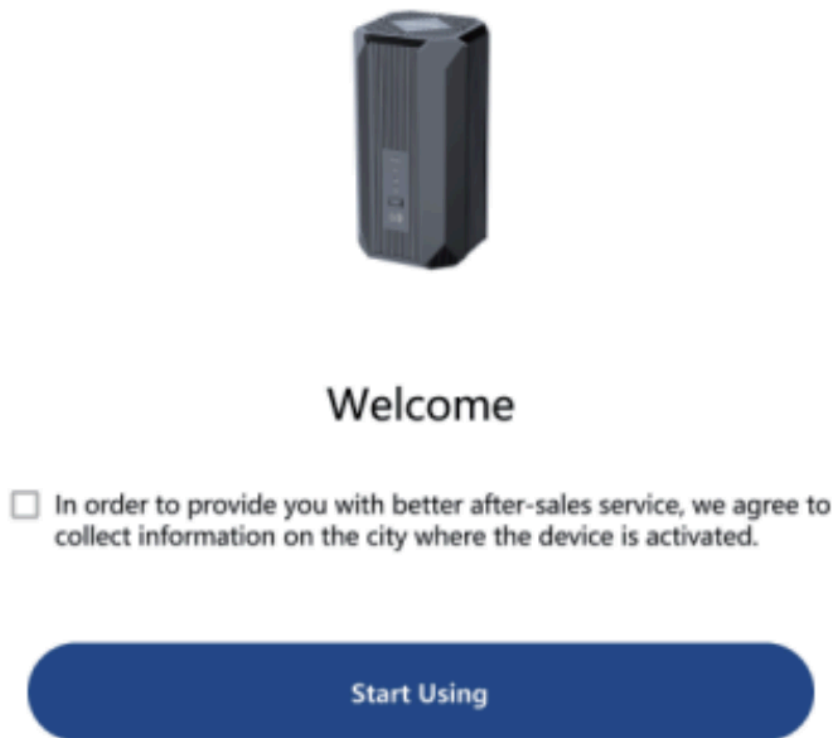
2.Software Configuration

- 2.1 Open a web browser (via wired or wireless connection) and enter http://wavlogin.link in the address bar. You will automatically enter the Wavlink router initial setup page. If not, manually enter **192.168.40.1** in the browser's address bar.

- 2.2. Click **"Start Using"**.

Welcome

☐ In order to provide you with better after-sales service, we agree to collect information on the city where the device is activated.
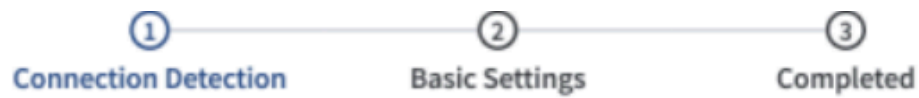
Start Using

- **Note**: If the SIM card is not inserted, this page will appear. Click **"Skip"**. The device automatically uses a WAN wired network. Otherwise, please insert the SIM card and refresh the page.

① Connection Detection ——— ② Basic Settings ——— ③ Completed

No SIM Card
Pleae insert your SIM card

Skip

- 2.3 If the SIM card is inserted smoothly and recognized, the interface will jump to this page. Enter **"SIM Settings"**. The settings you can make are shown below.

The current device have a SIM card inserted.

Please proceed to the SIM settings.

SIM Settings

Profile Name:	APN1
IPv4&IPv6:	IPv4&IPv6 ⌄
APN:	cmnet
User Name:	AAAAAA
Password:	********* 👁
Authentication Type:	NONE ⌄

NEXT

- 2.4 Enter **"Basic Settings"**. Select **"Time Zone"** respectively. For your network security, please set Wi-Fi password and login password.

① Connection Detection ——— ② Basic Settings ——— ③ Completed

*TimeZone: (UTC-10:00)Hawaii ⌄

WiFi Settings

ⓘ Wi-Fi name for 2.4 GHz 8 5 GHz.Smart devices will auto connect to the better Wi-Fi network. ✕

*WiFi Name: [WiFi Name(SSID)]

*Wi-Fi Password: [Wi-Fi password of 8-32 characters.] 👁

☑ Sync the login password with the Wi-Fi password.

Login Password Settings

*Login Password: [Login password of 5-32 characters] 👁

☑ No Password

[NEXT]

- **Note**: If the SIM card is not inserted or is not recognized, it will cross over **4** to this page.
- 2.5 The setup is successful, and you can access the network.

Connection Detection — **Basic Settings** — **Completed**

WiFi Name: **AAAsdsk**
Password: **12345678**

Congratulations!
You can access the internet now. Please connect to the WiFi network.

Login

Back

- 2.6 This is the Dashboard page, which displays basic information about the device, including the modem basic information, wireless basic information, attached end-user and traffic usages.

Dashboard
Network
Security
Connected Devices
Devices Management
System
Phonebook
About

Successfully connected to the Internet

5G ONLINE
Signal Test

3 DEVICE

2.4GHz WIFI
WiFi Name
AAAsdsk
Password
12345678
Copy   Details

5GHz WIFI
WiFi Name
AAAsdsk
Password
****
Copy   Details

CMCC Mobile, CN

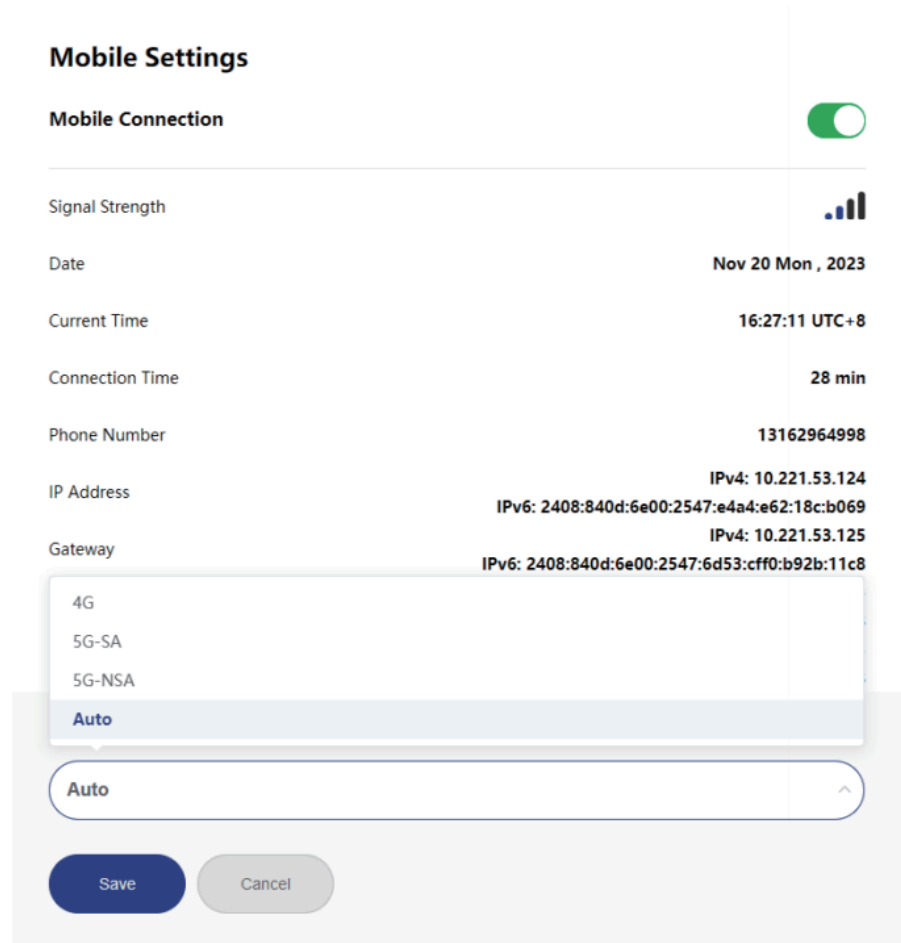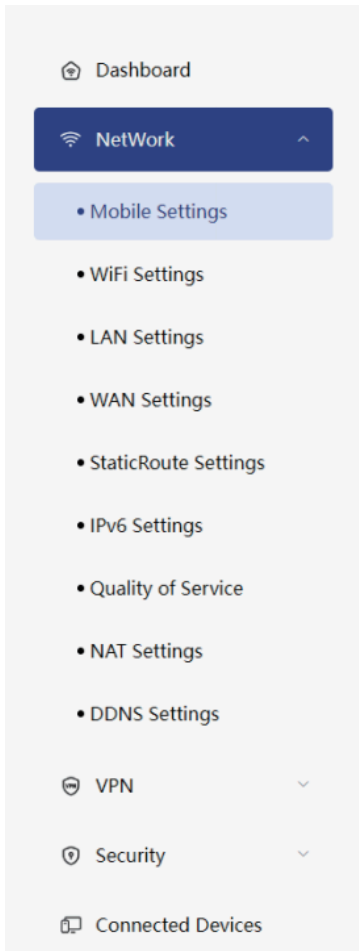**Data used this month**
Since Jan 1
36.5 kb
Learn more

Data used this session
Since connected
1.24 kb
--min

- 2.7 Click **Network** and select **Mobile Settings** to change modes. Auto is the default setting.

Chapter 3 Firmware Upgrade and FAQ

- [Firmware Upgrade](#)
- [FAQ](#)
- [After-Sales Service](#)

Firmware Upgrade

If you need to update firmware, please proceed as the following steps:

1. Download the latest firmware file from WAVLINK website.
2. Extract the firmware from the downloaded file.
3. Log in to http://wavlogin.link or **192.168.40.1**, then choose **"System"** and select **"Firmware"**.
4. Click on to locate the firmware file.
5. Click on "Update" and wait for the firmware upgrade process to complete.

FAQ

Q1: No access to network.

- Try to change the APN settings manually.
- Please make sure you have strong 5G/4G signal reception
- After powering on, the device needs 1–2 min to initialize. Please wait.
- If you still have issues, please contact our support team.

Q2: Unable to access 5G CPE management page.

- Please type the correct address in the browser address bar.
- Make sure you are connected to the Wavlink device either via Wi-Fi or via Ethernet cable.
- After connecting to the Wavlink device, disconnect any other Internet connections, including VPV. If you configure the device via smartphone, please disable the mobile network.
- Please do not use a proxy server.

Q3: What should I do if I could not get Internet after I install the SIM card in the device?

- Make sure that the nano-SIM card is inserted correctly into 5G CPE device and the 5G CPE device is operating in 4G、5G-SA、5GNSA、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 that 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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programs are distributed WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY Or FITNESS FOR A PARTICULAR PURPOSE.Please refer to the GNU General Public License Website for further information. http://www.gnu.org/licenses/old-licenses/lgpl-2.0.html http://www.gnu.org/licenses/gpl.html

After-Sales 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
Mon-Fri 9:00 am - 6:00 pm (UTC-5)

www.wavlink.com

**Thank you for purchasing
WAVLINK product!**

Chapter 4
Safety and Emission Statement

- [Safety and Emission Statement](#)

Safety and Emission Statement

CE Mark Warning

This is a Class B product. In a domestic environment,
this product may cause radio interference,
in which case the user may be required to take adequate measures.

NOTE:

(1)The manufacturer is not responsible for any radio or TV interference caused by unaut
horized modifications to this equipment.

(2)To avoid unnecessary radiation interference, it is recommended to use a shielded RJ4
5 cable.

Declaration of Conformity

Hereby, Winstars Technology Limited,
declares that the radio equipment type QuantumWave 5G is
in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following Internet add
ress:https://www.wavlink.com/en_us/ce.html

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following
two conditions: (1) This device may not cause harmful interference, and (2) this device
must accept any interference received, including interference that may cause undesired
operation.

This equipment has been tested and found to comply with the limits for a Class B digital
device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide
reasonable protection against harmful interference in a residential installation. This
equipment generates, uses and can radiate radio frequeney energy and, if not installed
and used in accordance with the instructions, may cause harmful interference to radio
communications. However, there is no guarantee that interference will not occur in a
particular installation. If this equipment dose cause harmful interference to radio or

television reception,which can be determined by tuming the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

NOTE:

(1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

(2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.