

# WAVLINK



see the world

**N300 4G WiFi Router**

**Model: WL-WN529E4**

**@WavlinkOfficial**

**@WavlinkTechSupport**

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# 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
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
<b>Teal</b>	The content and text that needs to be emphasized on the web page is the theme color <b>#1D428A</b> , 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 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](mailto: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.

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

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Other trademarks or brand names mentioned herein are trademarks or registered trademarks of their respective companies.

## WEEE Directive & Product Disposal

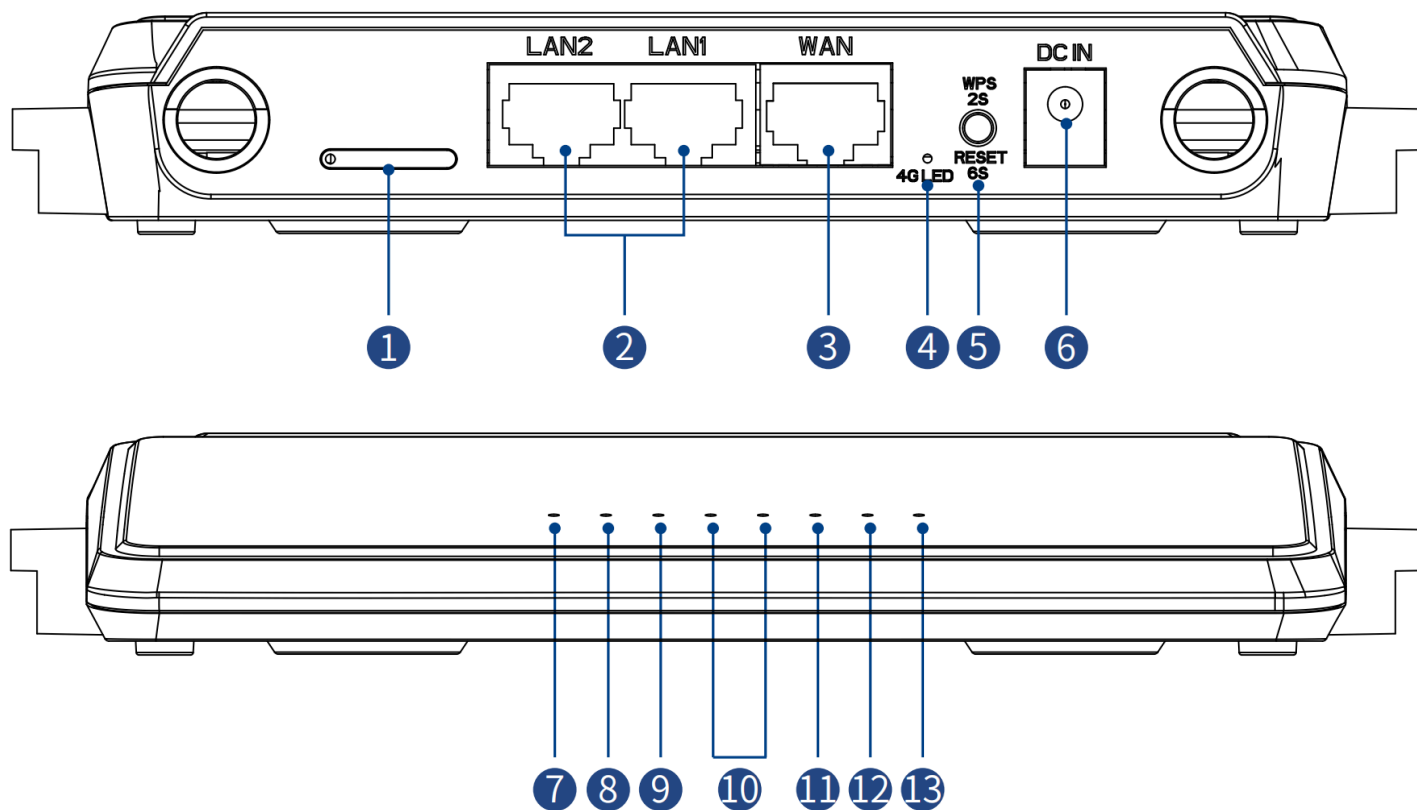
At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.



# Chapter 1 Basic Product Info

- [Overview](#)
- [In the Box](#)
- [Basic Info](#)
- [LED Indicator](#)

## Overview



- ① Built-in SIM Card Slot
- ② LAN Ports
- ③ WAN Port
- ④ 4G LED
- ⑤ RESET/WPS Button
- ⑥ DC In Port
- ⑦ Power LED
- ⑧ WiFi LED

⑨ WAN LED

⑩ LAN LED

⑪ Internet LED

⑫ SYS LED

⑬ WPS LED

**Reset:** press and hold RESET button for **6-8** seconds. **WPS:** press and hold WPS button for **2** seconds.

## In the Box

- 1 x N300 4G WiFi Router
- 1 x Power Adapter
- 1 x RJ45 Ethernet Cable
- 1 x SIM Card Needle
- 1 x Quick Start Guide

## Basic Info

Default IP: 192.168.40.1

Login: <http://wavlogin.link>

Default Password: admin

2.4G SSID: WAVLINK-N\_XXXX

Official Website: [www.wavlink.com](http://www.wavlink.com)

Technical Support: [support@wavlink.com](mailto:support@wavlink.com)

## LED Indicator

LED	Status	Indication
WiFi LED	On	Wi-Fi is active and working normally
Internet LED	Solid On	Internet is connected

LED	Status	Indication
Internet LED	Flashing	The WAN port is connected but no Internet access; The 4G network is connected but no Internet access
Internet LED	Off	No Internet connection
SYS LED	On	System is starting up
WPS LED	Flashing	The WPS process is activated
WPS LED	Off	The WPS process is completed or disabled
4G LED	Flashing Slowly	SIM card is not detected
4G LED	Flashing Rapidly	SIM card is detected



# Chapter 2 4G LTE Mode Configuration

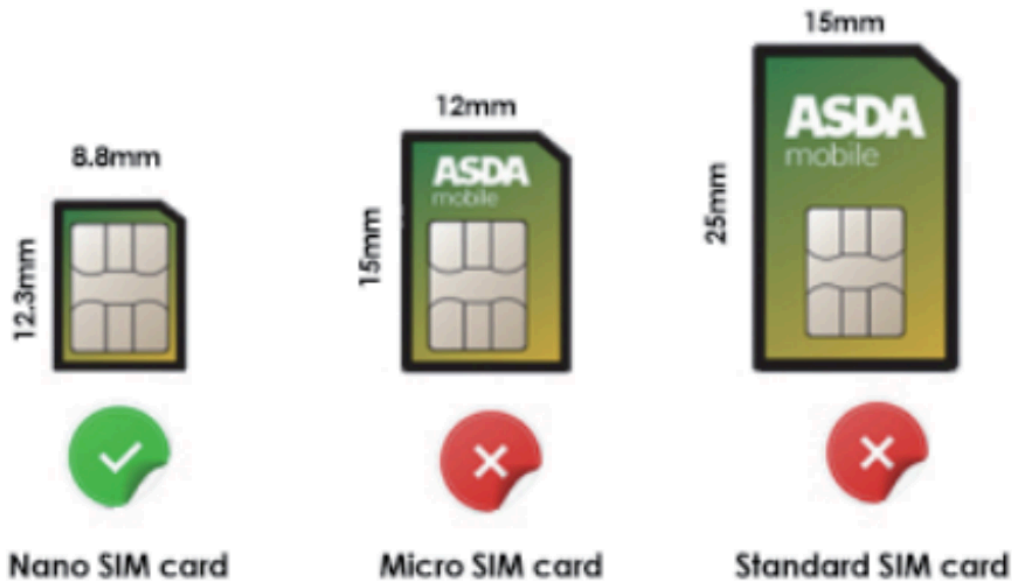
This chapter introduces the steps to configure 4G LTE mode.

- [4G LTE Mode Configuration](#)

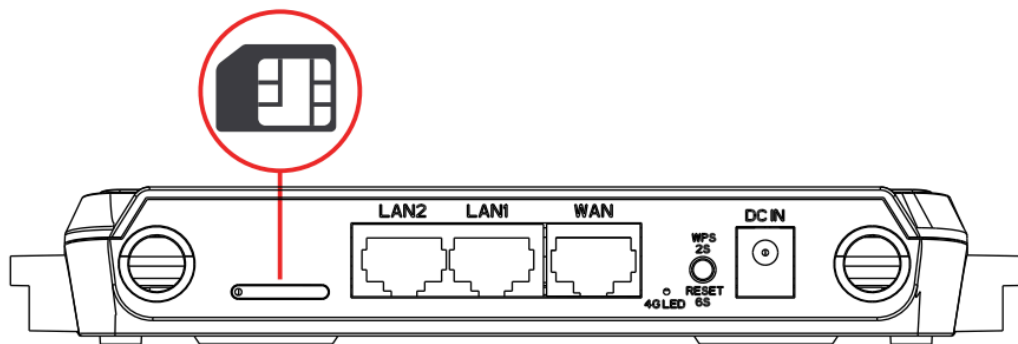
## 4G LTE Mode Configuration

### 1. Hardware Connection

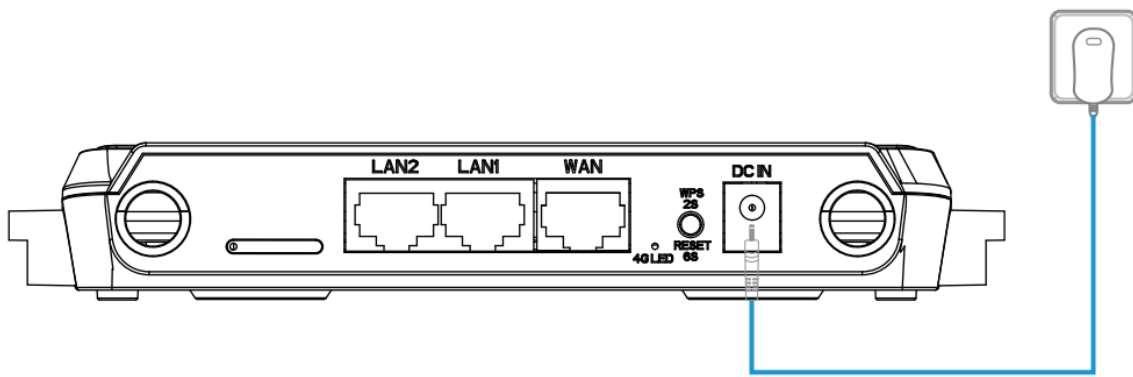
- 1.1 Prepare a compatible Nano SIM card in advance.



- 1.2 Carefully insert the SIM card into the slot until it clicks into place.

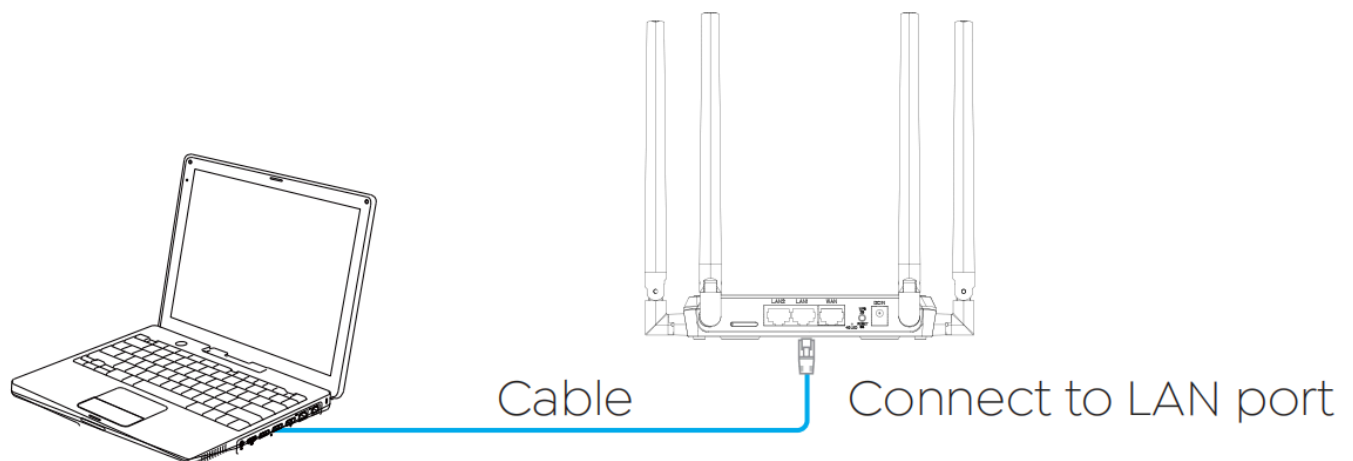


- 1.3 Insert the power adapter into the router's DC IN port and check the LED's Status.

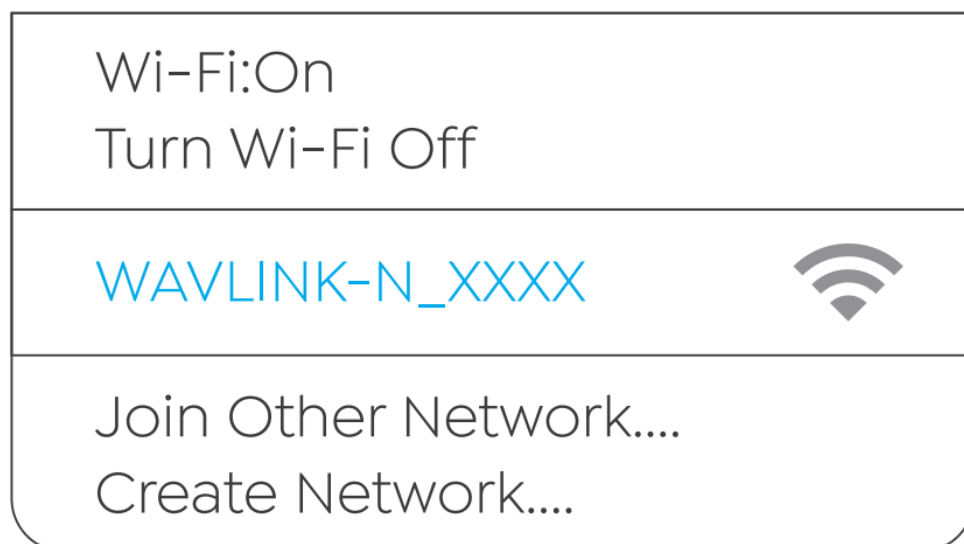


## 2. Router Connection Methods

- 2.1 Wired Connection: Use another Ethernet cable to connect your computer to one of the LAN ports on the router.



- 2.2 Wireless Connection: On your laptop or smartphone, connect to the default SSID printed on the router: **WAVLINK-N\_XXXX**



## 3. Software Configuration

- 3.1 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.



- 3.2. After logging in, select **Country/Region** and **Time Zone**, create a **New Login Password**. Click **Next** to continue.

Country/Region

Country/Region

Time Zone

(UTC+08:00) Beijing, Chongqing, HongKong, Urumqi

Admin Password

Not less than 6 characters

Password strength

Next

- 3.3 Customize the Wi-Fi **SSID, Encryption Method and Password**. Click **Next** to continue.

SSID

WAVLINK-N\_4F44

Encryption Method


WPA2-PSK(Recommend)


Password


Between 8~63 characters

Next

- 3.4 At the Network page, choose **4G LTE** for **WAN Mode Selection**, the system automatically identifies and displays the SIM card information.

 System

 Wireless

 Network

WAN Mode Selection

4G LTE

Mobile network mode:

4G only

APN Setting

Automatic

Connection state:

Online

IMEI:

868105041618578

ICCID:

89860320767553588698

Operator name:

CHN-CT

Network system:

FDD LTE

Back

Save

- **Note:** For most service providers, a 4G router will automatically detect APN (Access Point Name) settings. However, on rare occasions, you may need to manually configure the APN settings before accessing the internet. To do so, you must obtain the correct configuration from your mobile service provider in advance.
- **Solution:** Set the APN manually Please select **Manual** to manually enter **APN Settings**, including **APN name, User name, Password**, and Authorization information.

System

Wireless

Network

WAN Mode Selection

4G LTE

Mobile network mode:

Auto mode(4G/3G/2G)

APN Setting

Manual

Automatic

Manual

APN name:

Username:

Password:

Authentication method:

Automatic

Connection state:

Online

IMEI:

868105041618578

ICCID:

89860320767553588698

Operator name:

CHN-CT

Network system:

FDD LTE

Back

Save

- 3.5 Click **Save** to complete the settings.
- 3.6 Connect to the new Wi-Fi network after the setup is complete.

# Chapter 3 Router Mode Configuration

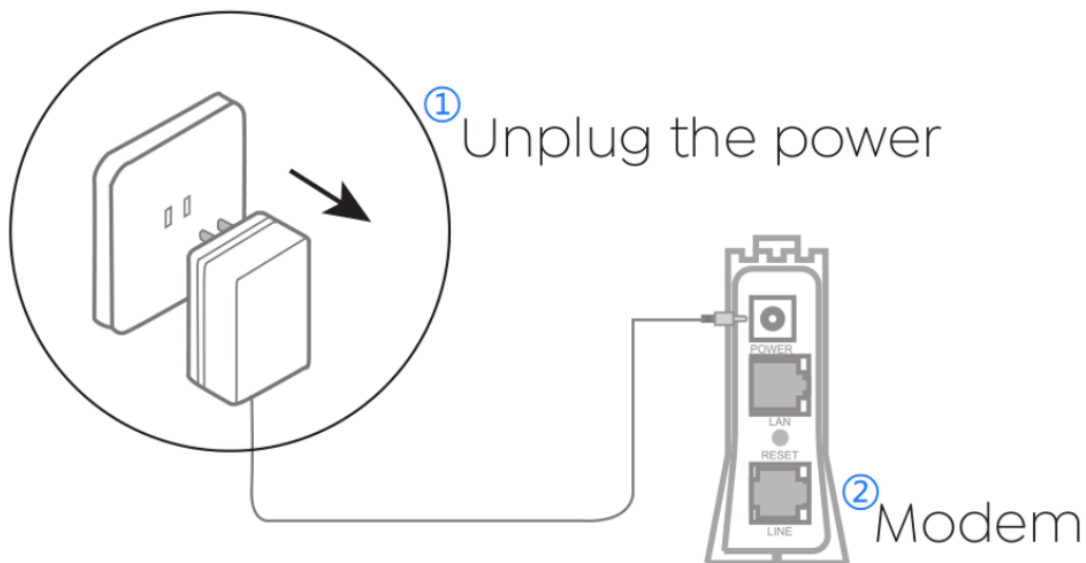
The 4G LTE router can not only act as a 4G LTE router, but also operate as a common home router.

- [Router Mode Configuration](#)

## Router Mode Configuration

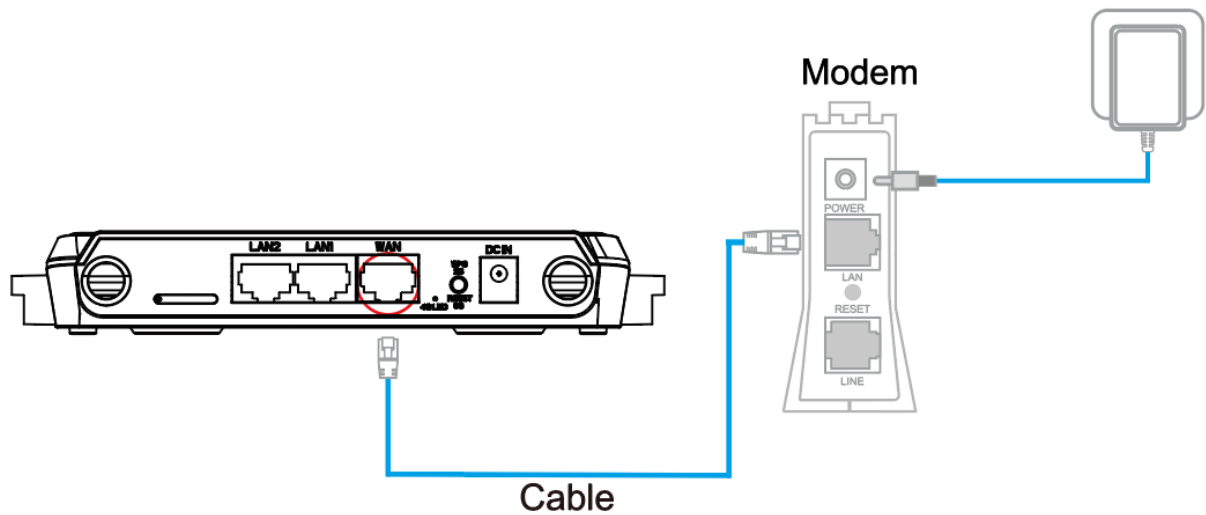
### 1. Prepare the Modem

- 1.1 Unplug the power adapter from your DSL modem. If the modem has backup battery, please remove it.
- **Note:** If using a DSL Internet connection, obtain the login credentials (username/password) from your Internet Service Provider (ISP) to properly configure your wireless router.



### ① Unplug the power ② Modem

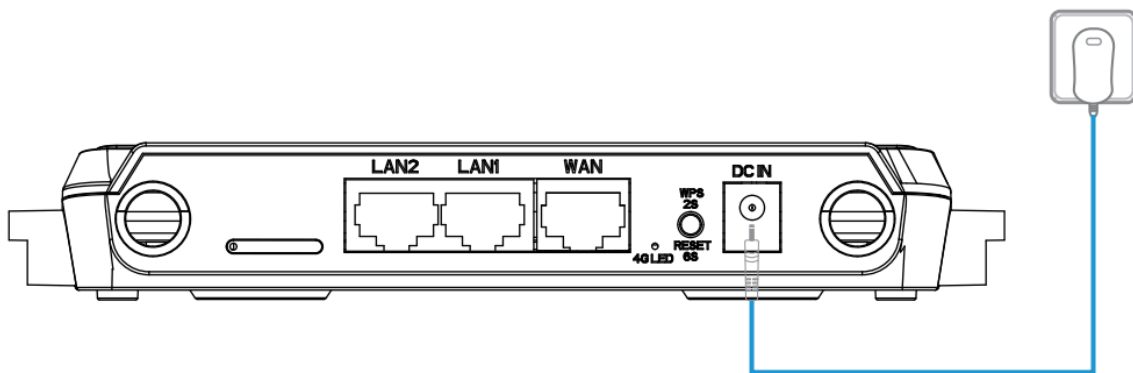
- 1.2 Use the provided Ethernet cable to connect the modem to the WAN port of the router.



- 1.3 Plug the modem into a power outlet and turn it on.

## 2. Install Your Router

- 2.1 Insert the power adapter into the router's DC IN port and press the power switch (if applicable; some models lack a physical switch).

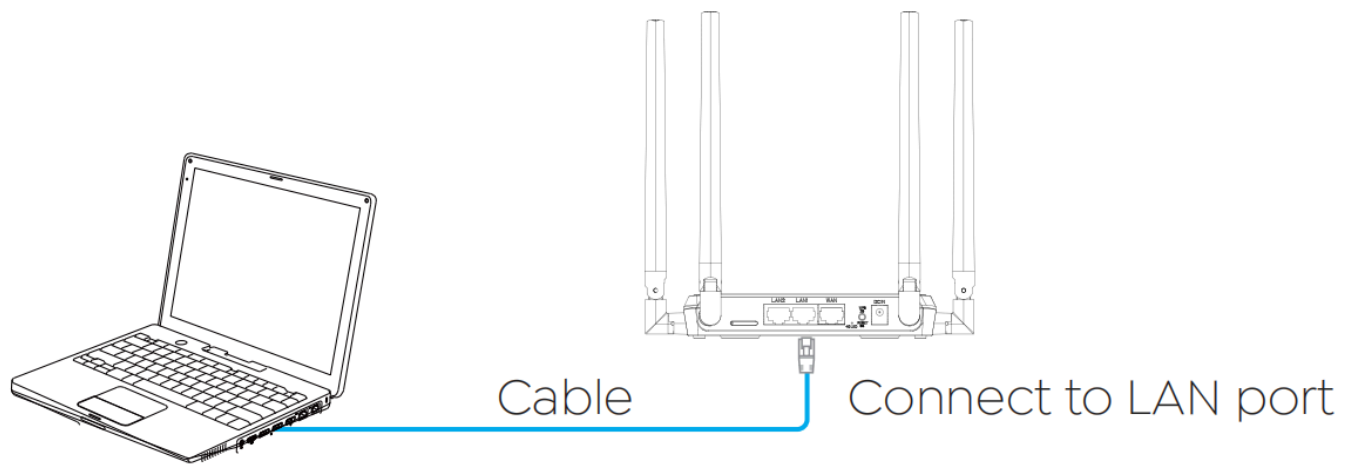


- 2.2 Wait for about 2-3 minutes, then the router is ready.
- 2.3 Note: After waiting 2 or 3 minutes, if the router still can not connect to the Internet, please try to plug and unplug the Internet LAN Backhaul port's network cable.

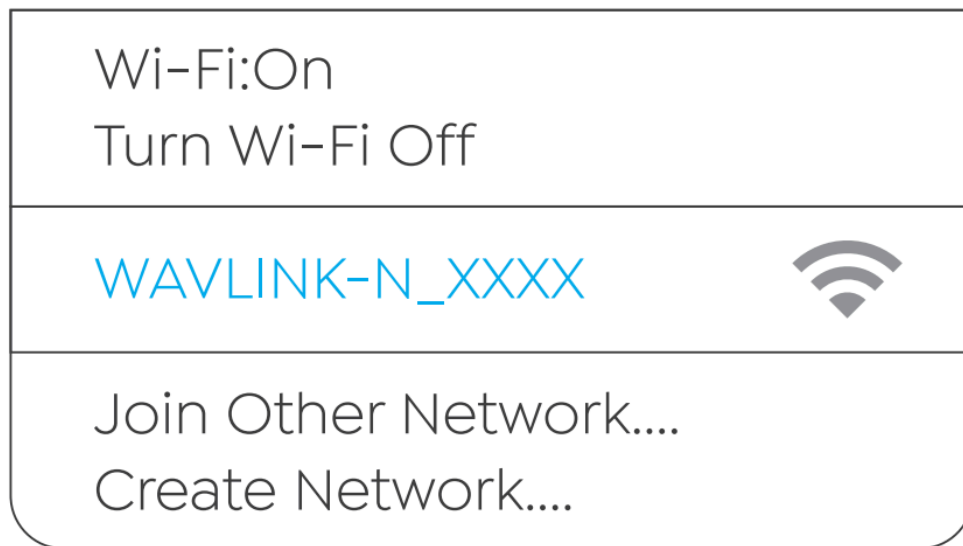
## 3. Configure the Router via Web Browser

- 3.1 Wired Connection: Use another Ethernet cable to connect your computer to one of the LAN ports on the router.





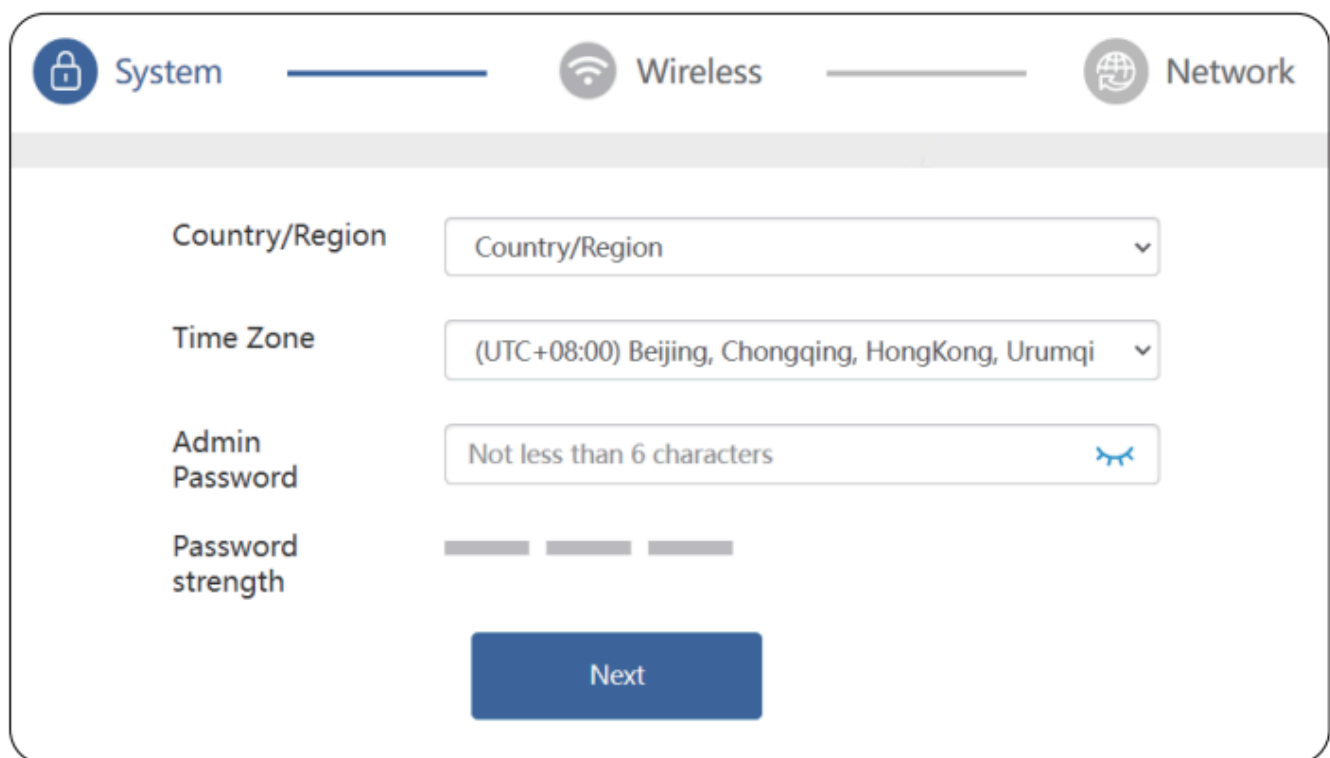
- 3.2 Wireless Connection: On your laptop or smartphone, connect to the default SSID printed on the router: **WAVLINK-N\_XXXX**



- 3.3 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.



- 3.4. After logging in, select **Country/Region** and **Time Zone**, create a **New Login Password**. Click **Next** to continue.

The image shows the WAVLINK configuration interface. At the top, there is a navigation bar with three tabs: "System" (selected, with a lock icon), "Wireless" (with a Wi-Fi icon), and "Network" (with a globe icon). Below the navigation bar, the "System" tab is active. It contains four configuration items: "Country/Region" with a dropdown menu showing "Country/Region"; "Time Zone" with a dropdown menu showing "(UTC+08:00) Beijing, Chongqing, HongKong, Urumqi"; "Admin Password" with a text input field containing "Not less than 6 characters" and a blue eye icon; and "Password strength" with three gray bars. At the bottom of the configuration area is a solid blue rectangular button with the word "Next" in white text.

- 3.5 Customize the Wi-Fi **SSID, Encryption Method and Password**. Click **Next** to continue.

System Wireless Network

SSID WAVLINK-N\_4F44

Encryption Method WPA2-PSK(Recommend)

Password Between 8~63 characters

Next

- 3.6 At the **Network** page, Choose **WAN Ethernet** for **WAN Mode Selection**, and Select **DHCP/Static IP/PPPoE** for **WAN(Ethernet) Type**.

System Wireless Network

WAN Mode Selection WAN Ethernet

Wan Type WAN Ethernet

Back Save

- **Which WAN Type am I supposed to choose?**
- ① If you choose "DHCP", you will need to select whether to clone the MAC address. Some ISPs register the MAC address of your computer when you first access the Internet through their cable modem , we need to clone the MAC address of your computer to the router.
- ② If you choose "PPPoE", enter the "Username" and "Password" provided by your ISP. PPPoE is usually designed for such as DSL or fiber optics.

- ③ If you choose "Static IP", enter a specified IP parameters including IP address, Subnet Mask, Gateway, DNS1 and DNS2 provided by your ISP.
- 3.7 Click **Save** to complete the settings.
- 3.8 Join the new Wi-Fi after setting.

# Chapter 4 FAQ & After Sales

This chapter includes FAQ and After Sales.

- [FAQ](#)
- [After Sales](#)

## FAQ

### Q1. SIM card cannot be detected

Potential cause:

1. SIM card is not matched or destroyed.
2. SIM card slot issue on router.

Troubleshooting:

1. Ensure that the SIM card is correctly installed and that it has good contact with the SIM card slot.
2. Try another SIM card.
3. Turn off the WAVLINK router, then remove the SIM card and gently wipe the metal contacts with a dry, soft cloth. Insert the SIM card into the slot in the correct direction. Turn on the WAVLINK router and try again.

### Q2. No internet access when SIM card is detected

Potential cause:

1. The default APN profile of the router does not match the SIM card.
2. The SIM card is bound to the IMEI of a specific device.
3. Weak mobile signal or damaged LTE antenna.
4. The SIM card may be overdue on payment or have no data plan.
5. The supported band of the SIM card does not match the router.

Troubleshooting:

1. Get the APN (Access Point Name) settings from your Mobile Service Provider or insert the same SIM card into your phone and find APN settings from phone. Then log into the web-base setup page of the router and select MANUAL to manually

enter APN Settings, including APN Name, User Name, Password, and Authorization information.

The image displays two screenshots of a mobile device's settings interface, specifically the APN (Access Point Name) configuration screen.

**Left Screenshot (Main Settings):**

- WAN Mode Selection:** 4G LTE
- Mobile network mode:** Auto mode(4G/3G/2G)
- APN Setting:** Manual (selected from a dropdown menu showing Manual, Automatic, and Manual)
- APN name:** (empty field)
- Username:** (empty field)
- Password:** (empty field)
- Authentication method:** Automatic
- Connection state:** Online
- IMEI:** 868105041618578
- ICCID:** 89860320767553588698
- Operator name:** CHN-CT
- Network system:** FDD LTE
- Buttons:** Back, Save

**Right Screenshot (Edit access point):**

- Title:** Edit access point
- Name:** UNIM2M.GZM2MAPN
- APN:** UNIM2M.GZM2MAPN (highlighted with a red box)
- Proxy:** Not set (Note: APN in the phone)
- Port:** Not set
- Username:** Not set
- Password:** Not set
- Server:** Not set
- MMSC:** (empty field)
- Buttons:** Delete APN

2. Remove the IMEI binding with your SIM card carrier.
  3. Relocate the router in a suitable place to get better 4G signal.
- **Note:** If you know the band your SIM card supports, go to the WAVLINK device's management page and select the corresponding band to optimize connection performance.

4. Please check with your carrier to confirm which bands your SIM card supports.

LTE Frequency Bands EU Version	LTE-FDD: B1/B3/B7/B8/B20/B28A
	LTE-TDD: B38/B40/B41
	WCDMA: B1/B8
	GSM/EDGE: B3/B8

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#### **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 Sales**



# Need help?

We're here for you!



**Online support: [wavlink.com](https://www.wavlink.com)**

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



**[support@wavlink.com](mailto:support@wavlink.com)**

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



**+1 8889730883**

Mon-Fri 9:00 am - 10:00 pm (UTC-5)

**[www.wavlink.com](https://www.wavlink.com)**



**Thank you for purchasing  
WAVLINK product!**



# Chapter 5

## 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 unauthorized modifications to this equipment.

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

#### Declaration of Conformity

Hereby, Winstars Technology Limited, declares that the radio equipment type WL-WN529E4 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following Internet address:[https://www.wavlink.com/en\\_us/ce.html](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 frequency 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 does cause harmful interference to radio or

television reception, which can be determined by tuning 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.