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**WAVLINK WN529E4**

# WAVLINK N300 4G LTE WiFi Router Instruction Manual

Model: WN529E4

## 1. Introduction

This manual provides detailed instructions for setting up, operating, and maintaining your WAVLINK N300 4G LTE WiFi Router. This device is designed to provide high-speed internet access using a 4G SIM card or a traditional wired broadband connection, offering versatile connectivity for various environments.




Figure 1.1: WAVLINK N300 4G LTE WiFi Router Overview

## 2. Package Contents

Please check the package contents carefully. If any items are missing or damaged, contact WAVLINK customer support.

- 1 x WAVLINK N300 4G LTE Router
- 1 x RJ45 Networking Cable
- 1 x Power Adapter

- 1 x Quick Start Guide




Figure 2.1: Package Contents

# 3. Product Overview

## 3.1 Front Panel Indicators

The front panel of the router features several LED indicators that provide information about the device's status.

- **Power LED:** Indicates power status.
- **WiFi LED:** Indicates Wi-Fi activity.
- **WAN LED:** Indicates WAN port connection status.
- **LAN LED:** Indicates LAN port connection status.
- **Internet LED:** Indicates internet connectivity.
- **SYS LED:** Indicates system status.
- **WPS LED:** Indicates WPS function status.

- **4G LED:** Indicates 4G network status.




Figure 3.1: Front Panel LED Indicators

## 3.2 Rear Panel Ports and Buttons

The rear panel provides all the necessary ports for connectivity and control.

- **2x LAN Ports:** Connect wired devices such as computers, gaming consoles, or printers.
- **WAN Port:** Connect to an optical modem or broadband modem for traditional router mode.
- **DC IN:** Power input port.
- **WPS/RESET Button:** Press for 2 seconds for WPS function. Press and hold for 6-8 seconds to reset the router to factory settings.
- **SIM Card Slot:** Insert a Nano 4G SIM card for 4G LTE connectivity.




Figure 3.2: Rear Panel Ports and Buttons

## 3.3 Antennas

The router is equipped with 4x5dBi omnidirectional antennas. These antennas are foldable and can be adjusted to optimize signal direction and coverage.

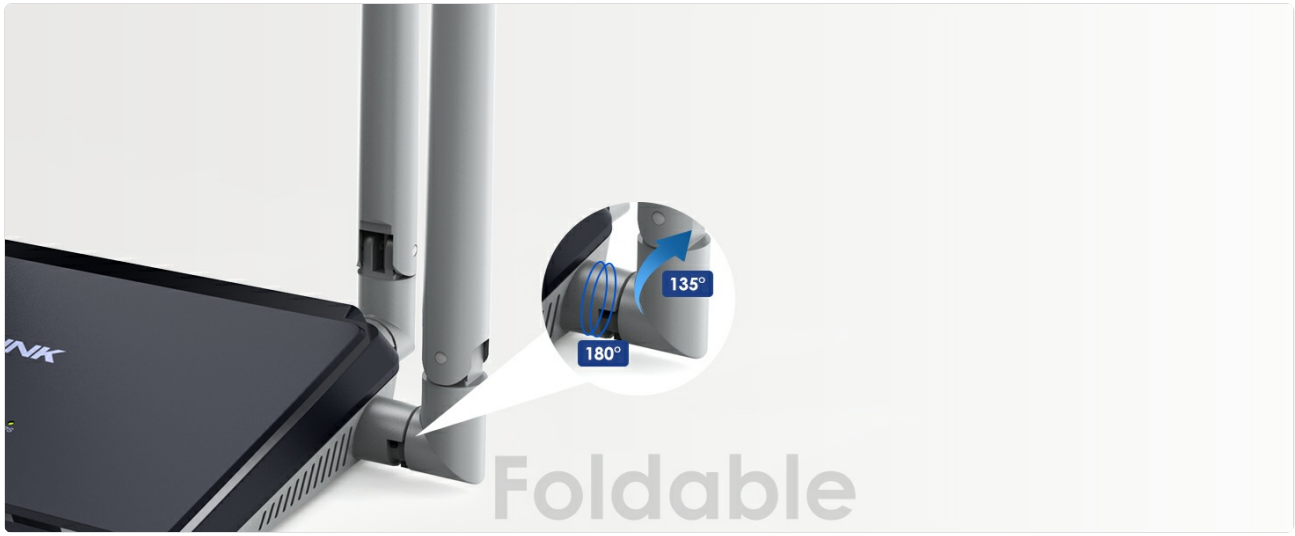


Figure 3.3: Foldable Antennas

## 4. Setup Guide

Follow these steps for the initial setup of your WAVLINK N300 router.

### 4.1 Inserting the SIM Card (for 4G Router Mode)

1. Ensure the router is powered off.
2. Locate the SIM card slot on the rear panel.
3. Insert your Nano 4G SIM card into the slot until it clicks into place. Ensure the SIM card is oriented correctly as indicated on the device.
4. Close the SIM card slot cover if applicable.




Figure 4.1: SIM Card Insertion

**Note: This item is designed to work with SIM cards from AT&T and T-Mobile in North America.**




Figure 4.2: SIM Card Compatibility

## 4.2 Powering On the Router

1. Connect the power adapter to the DC IN port on the router.
2. Plug the power adapter into a standard electrical outlet.
3. The Power LED on the front panel should illuminate, indicating the router is powered on.

## 4.3 Initial Configuration (Web-based Interface)

The router features a simple and intuitive web-based management page for easy setup and monitoring.

1. Connect your computer or mobile device to the router's Wi-Fi network (SSID and password are usually found on a sticker on the router).
2. Open a web browser and enter the default IP address (e.g.,192.168.1.1) into the address bar. Refer to the Quick Start Guide for the exact default IP and login credentials.
3. Log in using the default username and password.
4. Follow the on-screen instructions to complete the initial setup, including setting up your Wi-Fi name (SSID) and password.

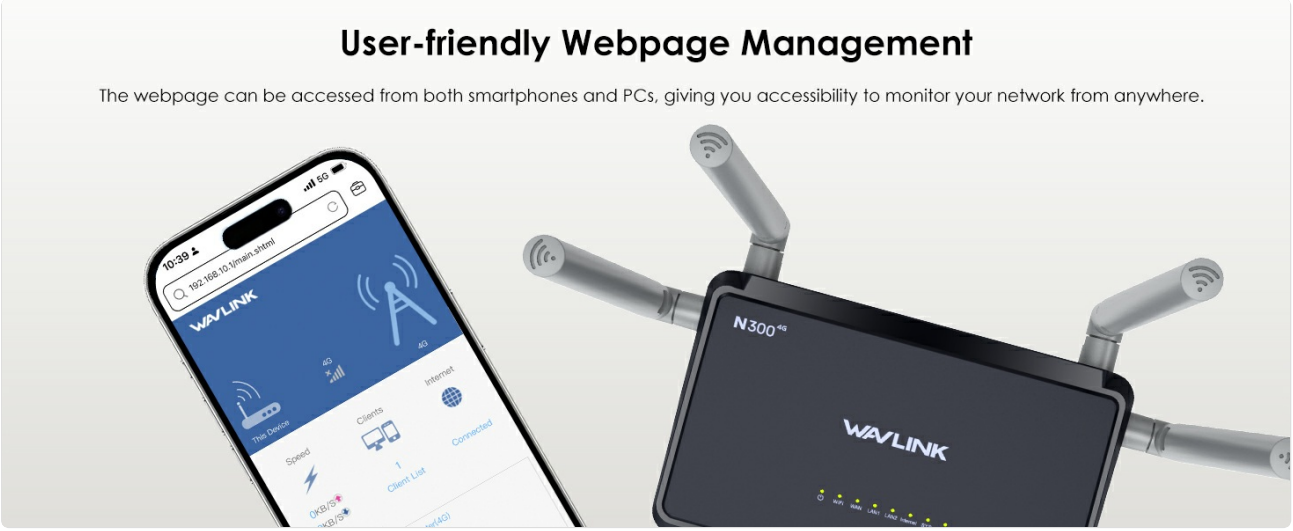


Figure 4.3: User-friendly Webpage Management

# 5. Operating Modes

The WAVLINK N300 router supports two primary operating modes: 4G Router Mode and Router Mode.

## 5.1 4G Router Mode

In 4G Router Mode, the device uses a 4G SIM card to provide internet access. This mode is ideal for mobile use, remote locations, or as a primary internet source where wired broadband is unavailable.

- Insert a compatible 4G SIM card into the router.
- The router will automatically detect the 4G network and establish an internet connection.
- Devices can connect wirelessly via Wi-Fi or via Ethernet cables to the LAN ports.




Figure 5.1: 4G Router Mode

## 5.2 Router Mode

In Router Mode, the device functions as a traditional Wi-Fi router, connecting to an existing broadband modem (e.g., cable, DSL, fiber optic modem) via the WAN port.

- Connect the WAN port of the WAVLINK N300 router to your broadband modem using an Ethernet cable.
- The router will obtain an IP address from the modem and provide internet access to connected devices.
- This mode is suitable for home or office networks with existing wired internet infrastructure.




Figure 5.2: Router Mode

## 5.3 Mixed Mode

The router also supports a 4G/Router mix mode, allowing for flexible network configurations based on your needs and environment.

# 6. Connectivity and Security

## 6.1 Connecting Devices

The WAVLINK N300 router allows up to 15 devices to connect simultaneously.

- **Wireless Devices:** Connect smartphones, tablets, laptops, and other Wi-Fi enabled devices using the Wi-Fi

SSID and password.

- **Wired Devices:** Use Ethernet cables to connect devices like desktop computers, smart TVs, or gaming consoles to the LAN ports.




Figure 6.1: Wireless Coverage and Device Connectivity

### 6.2 Network Security

The router incorporates WPA2-PSK encryption and a built-in firewall to protect your network from unauthorized access and online threats.

- **WPA2-PSK Encryption:** Provides robust wireless security. It is recommended to use a strong, unique password for your Wi-Fi network.
- **Built-in Firewall:** Helps prevent unauthorized access to your network from the internet.
- **WPS (Wi-Fi Protected Setup):** Allows for easy connection of WPS-compatible devices without manually entering the password. Press the WPS button on the router and on the device to establish a connection.

## 7. Maintenance

To ensure optimal performance and longevity of your WAVLINK N300 router, consider the following maintenance tips:

- **Placement:** Place the router in a central location, away from obstructions and sources of interference (e.g., microwaves, cordless phones).
- **Ventilation:** Ensure adequate airflow around the router to prevent overheating. Do not cover ventilation openings.
- **Cleaning:** Gently wipe the router with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Periodically check the WAVLINK official website for firmware updates. Keeping your firmware up-to-date can improve performance, security, and add new features.
- **Restarting:** If you experience network issues, try restarting the router by unplugging the power adapter for 10 seconds and then plugging it back in.

## 8. Troubleshooting

This section addresses common issues you might encounter with your WAVLINK N300 router.

### 8.1 No Internet Connection

- **Check LEDs:** Verify that the Power, 4G (if in 4G mode), WAN (if in Router mode), and Internet LEDs are illuminated and stable.
- **SIM Card (4G Mode):** Ensure the SIM card is correctly inserted and active. Check with your mobile carrier if there are any service issues.
- **Cables (Router Mode):** Ensure the Ethernet cable connecting the WAN port to your modem is securely plugged in.
- **Modem (Router Mode):** Check if your broadband modem is working correctly and has an internet connection.
- **Restart:** Power cycle both the router and your modem (if applicable).
- **Configuration:** Access the web management page to ensure the router's settings (e.g., APN settings for 4G, WAN settings for Router mode) are correct.

### 8.2 Weak Wi-Fi Signal or Slow Speed

- **Router Placement:** Move the router to a more central location, away from walls, large metal objects, and other electronic devices that may cause interference.
- **Antenna Adjustment:** Adjust the router's antennas to optimize signal reception and transmission.
- **Interference:** Avoid placing the router near devices that emit radio frequency interference (e.g., microwaves, cordless phones, Bluetooth devices).
- **Connected Devices:** Too many devices connected simultaneously can impact performance. The router supports up to 15 devices.
- **Channel Selection:** In the web management interface, try changing the Wi-Fi channel to a less congested one.

### 8.3 Cannot Access Web Management Page

- **IP Address:** Ensure you are using the correct default IP address (e.g.,192.168.1.1).
- **Connection:** Verify your device is connected to the router's Wi-Fi network or via an Ethernet cable to a LAN port.
- **IP Settings:** Ensure your computer's network adapter is set to obtain an IP address automatically (DHCP).
- **Browser Cache:** Clear your browser's cache and cookies, or try a different browser.
- **Firewall/Antivirus:** Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
- **Reset:** If all else fails, perform a factory reset by pressing and holding the WPS/RESET button for 6-8 seconds. Note that this will erase all custom settings.

## 9. Specifications

| Feature | Description |
|---|---|
| Model Number | WN529E4 |
| Product Dimensions | 5.7 x 3.5 x 3 inches |
| Item Weight | 15.8 ounces |
| Chipset | Qualcomm |
| Wi-Fi Standard | N300 (2.4GHz 300Mbps) |
| 4G LTE Category | Cat4 |

| Feature | Description |
|---|---|
| 4G Download Speed | Up to 150Mbps |
| Antennas | 4x5dBi Omnidirectional, Foldable |
| Ethernet Ports | 1x 10/100Mbps WAN, 2x 10/100Mbps LAN |
| SIM Card Type | Nano SIM |
| Max Connected Devices | 15 |
| Security | WPA2-PSK, Built-in Firewall |
| Operating Modes | 4G Router Mode, Router Mode, 4G/Router Mix Mode |




Figure 9.1: Product Dimensions

## 10. Support & Warranty

WAVLINK provides comprehensive customer support and a lifetime technical support for its products.

## 10.1 Customer Support

- **Phone Support:** +18889730883 (UTC-5) Mon - Fri 9AM - 6PM
- **Email Support:** Contact@wavlink.com

WAVLINK aims to provide solutions within 8 hours for email inquiries.

## 10.2 Warranty Information

For detailed warranty information, please refer to the official WAVLINK website or contact customer support directly. WAVLINK offers life-long technical support for this product.

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