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WAVLINK WL-WN572HE4

WAVLINK Outdoor 4G LTE Modem Router User Manual

Model: WL-WN572HE4

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your WAVLINK Outdoor 4G LTE Modem Router. Please read this manual carefully before using the device to ensure optimal performance and safety.
The WAVLINK Outdoor 4G LTE Modem Router is designed to provide robust and stable internet connectivity in outdoor environments, converting 4G LTE signals into a dual-band Wi-Fi hotspot. It is ideal for locations where traditional wired internet is unavailable.

2. Package Contents

Verify that all items are present in your package:

- 1x WiFi Outdoor 4G LTE Router
- 1x 4G Omni Antenna
- 1x 2.4G Omni Antenna
- 2x 5G Omni Antennas
- 1x RJ45 Networking Cable
- 1x Power Adapter
- 1x PoE Converter
- 1x Main Body Holder
- 2x Cable Ties
- 1x Screw Fitting Kit
- 1x SIM Card Ejector
- 1x Quick Start Guide



Figure 2.1: Contents of the WAVLINK Outdoor 4G LTE Modem Router package.

3. Product Overview

The WAVLINK Outdoor 4G LTE Modem Router is designed for robust outdoor performance, featuring multiple antennas and a durable casing. Below is an overview of its main components and their functions.



Figure 3.1: Key components of the WAVLINK Outdoor 4G LTE Modem Router.

1. SIM Card Slot: Insert your Nano SIM card here for 4G LTE connectivity.
2. LAN Port: Connect to a local network device (e.g., PC, switch).
3. WAN/PoE In: Connect to the PoE converter for power and internet access.
4. 4G LED: Indicates 4G signal status.
5. GND: Grounding terminal for lightning protection.
6. Reset/Pair Button: Used for resetting the device or initiating WPS pairing.
7. 5G Antenna: Two antennas for 5GHz Wi-Fi band.
8. 2.4G Antenna: One antenna for 2.4GHz Wi-Fi band.
9. 4G Antenna: One antenna for 4G LTE signal reception.
10. LED Indicators: Display power, LAN, WAN, and 4G signal strength.



Figure 3.2: Detailed view of the SIM card slot and ports.

4. Setup and Installation

Follow these steps to set up your WAVLINK Outdoor 4G LTE Modem Router.

4.1. SIM Card Insertion

Ensure the device is powered off before inserting the SIM card.

1. Unscrew the bottom cap of the router to access the ports.
2. Locate the SIM card slot. Use the provided SIM ejector tool to open the SIM tray.
3. Insert a Nano SIM card into the tray, ensuring correct orientation as shown in the diagram.
4. Carefully reinsert the SIM tray into the slot until it clicks into place.
5. Screw the bottom cap back on securely to ensure weatherproofing.



Figure 4.1: Proper insertion of a Nano SIM card.

4.2. Antenna Installation

Attach the provided antennas to their respective ports on the router. Ensure they are securely tightened for optimal signal reception.

- Connect the 4G Omni Antenna to the port labeled "4G".
- Connect the 2.4G Omni Antenna to the port labeled "2.4G".
- Connect the two 5G Omni Antennas to the ports labeled "5G".

4.3. Power over Ethernet (PoE) Connection

The router is powered via Power over Ethernet (PoE) using the included PoE converter.

1. Connect one end of the RJ45 Networking Cable to the WAN/PoE In port on the router.
2. Connect the other end of this cable to the "PoE" port on the PoE converter.
3. Connect the Power Adapter to the DC IN port on the PoE converter.
4. Plug the Power Adapter into a power outlet. The Power LED on the router should illuminate.
5. If connecting to an existing network, connect another RJ45 cable from your modem/router to the "LAN Data In" port on the PoE converter.

4.4. Mounting Options

The router can be mounted in various ways to suit your outdoor environment.

- **Pole Mounting:** Use the provided cable ties and main body holder to secure the router to a pole.
- **Wall Mounting:** Use the screw fitting kit to attach the main body holder to a wall, then slide the router into the holder.



Figure 4.2: Examples of pole and wall mounting for the router.

Note: The PoE part of the router is not waterproof. Ensure the PoE converter and power adapter are protected from moisture.

5. Operating Instructions

5.1. LED Indicators

Monitor the status of your router using the LED indicators:

- **Power:** Solid blue indicates the device is powered on.
- **LAN:** Solid blue indicates a successful connection to a LAN device. Blinking indicates data transfer.
- **WAN:** Solid blue indicates a successful connection to the WAN (internet). Blinking indicates data transfer.
- **Status:** Indicates overall system status. Refer to the Quick Start Guide for detailed blinking patterns.
- **4G:** Multiple blue bars indicate 4G signal strength. More bars mean stronger signal.

5.2. Wi-Fi Connectivity

Once powered on and with a valid SIM card, the router will broadcast Wi-Fi networks (2.4GHz and 5GHz). The default SSID and password can be found on the label of the device or in the Quick Start Guide.

- Search for available Wi-Fi networks on your device (smartphone, laptop, tablet).
- Select the appropriate SSID (e.g., "WAVLINK_2.4G" or "WAVLINK_5G").
- Enter the default Wi-Fi password when prompted.
- For enhanced security, it is recommended to change the default SSID and password via the router's web management interface.

The router supports dual-band operation, offering speeds up to 300Mbps on 2.4GHz and 867Mbps on 5GHz. It can support up to 64-96 connected devices simultaneously.

5.3. Web Management Interface

To configure advanced settings, access the router's web management interface:

1. Connect your computer to the router via an Ethernet cable (to the LAN port on the PoE converter) or wirelessly to its Wi-Fi network.
2. Open a web browser and enter the default IP address (usually 192.168.10.1 or similar, check the device label or Quick Start Guide).
3. Enter the default username and password (usually "admin" for both).
4. From the interface, you can configure network settings, Wi-Fi settings, security protocols (WPA3 supported), and monitor device status.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your router.

- **Cleaning:** Periodically wipe the exterior of the router with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Check the WAVLINK official website for the latest firmware updates. Keeping the firmware

updated can improve performance, add new features, and fix bugs.

- **Antenna Check:** Ensure all antennas are securely attached and free from obstruction.
- **Cable Integrity:** Inspect all cables (Ethernet, power) for any signs of wear or damage. Replace damaged cables immediately.
- **Environmental Protection:** While designed for outdoor use, avoid direct exposure to extreme weather conditions if possible, especially for the non-waterproof PoE components.

7. Troubleshooting

If you encounter issues with your WAVLINK router, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power LED indication.	Power adapter or PoE connection issue.	Check if the power adapter is securely plugged into the outlet and the PoE converter. Ensure the Ethernet cable from the router is correctly connected to the PoE port on the converter.
No 4G signal.	Incorrect SIM card insertion, no active SIM, or poor signal area.	Verify the SIM card is correctly inserted and active. Relocate the router to an area with better 4G coverage. Ensure 4G antennas are properly attached.
Cannot connect to Wi-Fi.	Incorrect Wi-Fi password, Wi-Fi disabled, or out of range.	Double-check the Wi-Fi password. Ensure Wi-Fi is enabled via the web management interface. Move closer to the router.
Slow internet speed.	Weak 4G signal, network congestion, or interference.	Check 4G signal strength on the router's LEDs. Try repositioning the router. Reduce the number of connected devices.
Forgot login password for web interface.	Password lost.	Press and hold the Reset/Pair button for 6 seconds until the LEDs flash to restore factory default settings. Note: This will erase all custom configurations.

8. Specifications

- **Model:** WL-WN572HE4 (AC1200 4G)
- **Dimensions:** 14.17 x 4.92 x 2.8 inches (Package)
- **Item Weight:** 1.66 pounds
- **Wi-Fi Standard:** IEEE 802.11ac/a/b/g/n
- **Wi-Fi Speed:** 2.4GHz up to 300Mbps, 5GHz up to 867Mbps
- **4G LTE Speed:** Up to 150 Mbps download, 50 Mbps upload (CAT4)

- **Antennas:** 4 x 7dBi Detachable Omni-directional Antennas (1x 4G, 1x 2.4G, 2x 5G)
- **Ports:** 1x LAN Port, 1x WAN/PoE In Port, 1x SIM Card Slot
- **Security:** WPA3, SPI Firewall, IP & MAC Binding, DDoS Attack Prevention
- **Power:** Power over Ethernet (PoE)
- **Operating Temperature:** Withstands broad ranges (e.g., -30°C to 70°C)
- **Weather Resistance:** IP65-rated weatherproof, heat-resistant case (Note: PoE part is not waterproof)



Figure 8.1: The router features multi-protection design for outdoor usage.



Figure 8.2: The router supports up to 64-96 devices with high speeds.

9. Warranty and Support

WAVLINK provides comprehensive after-sales support for its products.

- **Phone Support:** +18889730883 (UTC-5) Mon - Fri 9AM - 6PM
- **Email Support:** Contact@wavlink.com
- WAVLINK aims to provide solutions within 8 hours and offers life-long technical support.

For the latest warranty information and product registration, please visit the official WAVLINK website or refer to the Quick Start Guide included in your package.

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