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WAVLINK N300

WAVLINK N300 Wireless Outdoor Access Point User Manual

Model: N300 (B0H2TX24DW)

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1. Introduction

The WAVLINK N300 Wireless Outdoor Access Point is designed to extend Wi-Fi coverage to outdoor areas. It features long-range wireless data transmission, robust weatherproofing, and multiple operating modes to suit various networking needs. This manual provides instructions for installation, configuration, and general use of the device.

2. Package Contents

Verify that all items are present in your package:

- WAVLINK N300 Outdoor Wi-Fi Extender
- PoE Adapter
- Power Adapter
- Ethernet Cable (3ft)
- Mounting Kit (Bracket Plate, Screws, Bolts, Nuts, U-shaped clamps)
- Quick Installation Guide



Image: Contents of the WAVLINK N300 package, showing the main unit, PoE injector, power supply, ethernet cable, and various mounting accessories.

3. Key Features

- **Outdoor Wi-Fi Extension:** Extends Wi-Fi signal to gardens, yards, garages, and other outdoor areas.
- **Long Range Transmission:** Supports wireless data transmission up to 5000ft (1.5km) in obstacle-free, point-to-point configurations.
- **High-Gain Directional Antennas:** Equipped with two 11dBi directional MIMO antennas for focused signal delivery and improved range.
- **Weatherproof Design:** IP65-certified housing, waterproof and heatproof, operating in temperatures from -22℉ to 158℉. Includes 15KV ESD and 4KV lightning protection.
- **PoE Installation:** 24V passive Power over Ethernet (PoE) simplifies installation by integrating power and network connectivity through a single Ethernet cable.

- **Multiple Operating Modes:** Supports Access Point (AP), Repeater, Router, Point-to-Point (PtP), and Point-to-Multi-Point (PtMP) modes.
- **High Speed & Device Support:** Delivers up to 300Mbps over 2.4GHz and supports up to 64 devices simultaneously.



Image: Visual representation of the N300's weather-resistant features, including lightning protection, anti-freezing capabilities, and waterproof design.

4. Setup

4.1 Physical Installation

The WAVLINK N300 can be mounted on a pole or wall. Ensure the chosen location provides a clear line of sight to the desired coverage area and is within reach of the Ethernet cable for PoE.

1. **Attach Bracket Plate:** Secure the bracket plate to the rear of the main unit using the provided screws.

2. **Mounting:**
    - **Pole Mounting:** Use the U-shaped clamps to fasten the bracket plate assembly to a pole. Ensure it is securely tightened.
    - **Wall Mounting:** Mark the drilling points using the bracket plate, drill holes, insert wall plugs, and secure the bracket plate to the wall with screws.
3. **Connect Antennas:** Connect the two external antennas to the main unit.
4. **Cable Routing:** Route the Ethernet cable from the PoE adapter to the WAN/LAN (PoE) port on the device. Ensure cables are properly secured and protected from the elements.

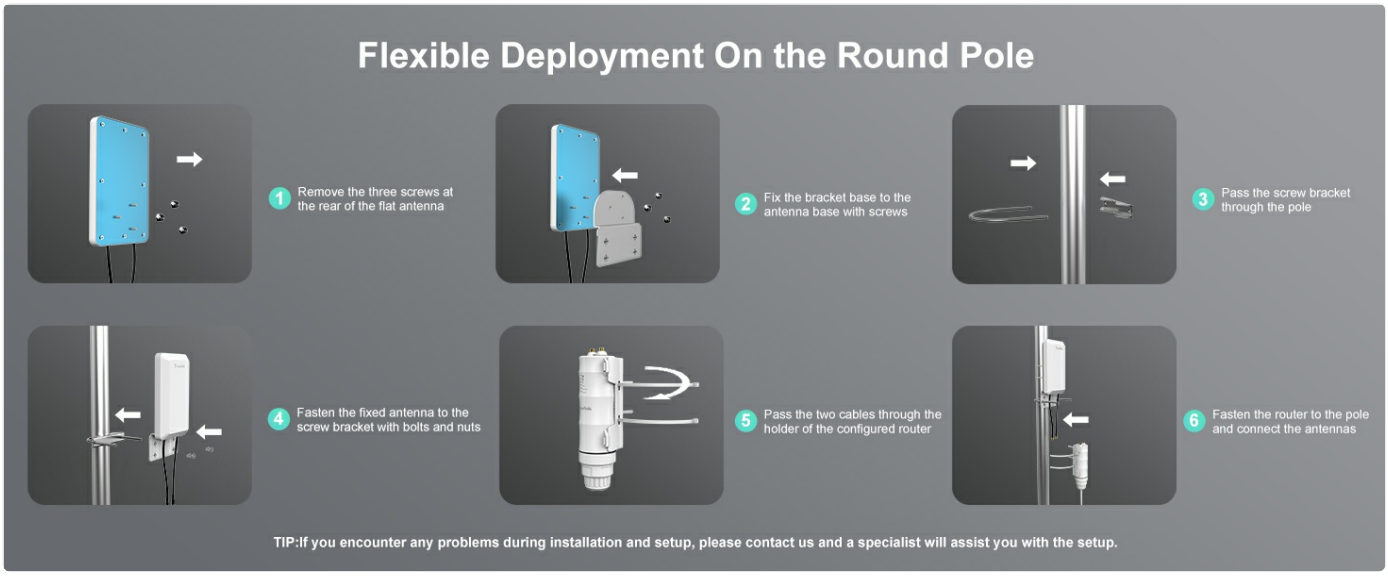


Image: Step-by-step guide for mounting the WAVLINK N300 on a pole, illustrating the bracket attachment and cable connections.



Image: Examples of the N300 mounted on a pole and a wall, showcasing its adaptability for various outdoor environments.

4.2 Power over Ethernet (PoE) Connection

The device is powered using the included PoE adapter, which combines power and data into a single Ethernet cable.

1. Connect one end of the Ethernet cable (from the N300's WAN/LAN port) to the **PoE** port on the PoE adapter.
2. Connect another Ethernet cable from your router/network switch to the **LAN** port on the PoE adapter.
3. Connect the power adapter to the PoE adapter and plug it into a power outlet.
4. Verify the LED indicators on the device and PoE adapter illuminate, indicating power and network activity.



Image: Connection diagram for the PoE power supply, showing how the extender connects to the PoE adapter and then to the network and power source.

4.3 Initial Configuration

The WAVLINK N300 can be configured via a web-based management interface.

1. Connect your computer directly to the LAN port of the PoE adapter (or to your network if the N300 is already connected to your router).
2. Open a web browser and enter the default IP address (usually192.168.10.1 or refer to the Quick Installation Guide).
3. Log in using the default username and password (typicallyadmin for both).
4. Follow the on-screen wizard to select your desired operating mode (AP, Repeater, Router, etc.) and configure network settings such as Wi-Fi name (SSID) and password.
5. Save your settings and restart the device if prompted.

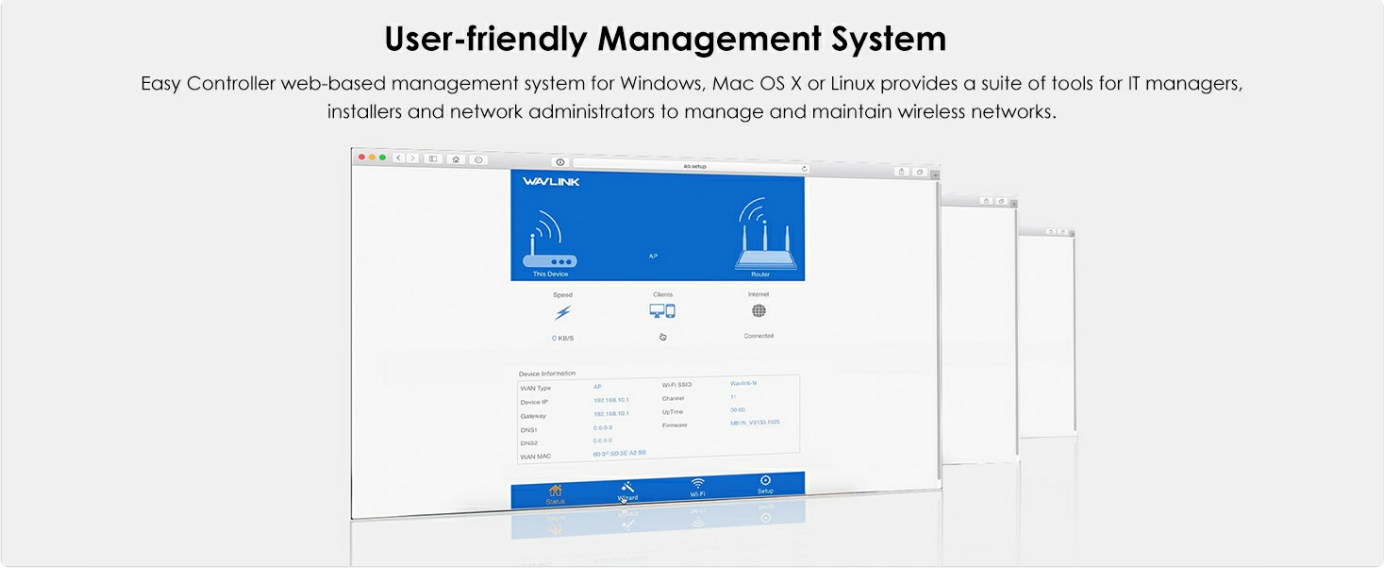


Image: Screenshot of the WAVLINK N300's web-based management interface, showing status, network settings, and configuration options.

5. Operating Modes

The WAVLINK N300 supports several operating modes to meet different networking requirements:

5.1 Access Point (AP) Mode

In AP mode, the device converts a wired network connection into a wireless one, allowing Wi-Fi devices to connect. It acts as a central hub for wireless clients.



Image: Diagram illustrating the Access Point (AP) mode, where the N300 connects to a wired network and provides wireless access.

5.2 Repeater Mode

Repeater mode extends the coverage of an existing wireless network. The N300 connects wirelessly to your main router and re-broadcasts the signal, expanding the Wi-Fi range.



Image: Diagram illustrating the Repeater mode, showing the N300 wirelessly extending the signal from an existing router.

5.3 Router Mode

In Router mode, the device acts as a primary router, connecting to an internet source (e.g., modem) and providing both wired and wireless network access to connected devices.



Image: Diagram illustrating the Router mode, where the N300 functions as a primary router, connecting to the internet and distributing network access.

5.4 Point-to-Point (PtP) Application

This mode is used to bridge a network connection between two distant locations where a direct Wi-Fi signal is not available. Two N300 devices are typically used, one as a transmitter and one as a receiver, to create a long-distance wireless link. The maximum spacing supported is 1.5 km.

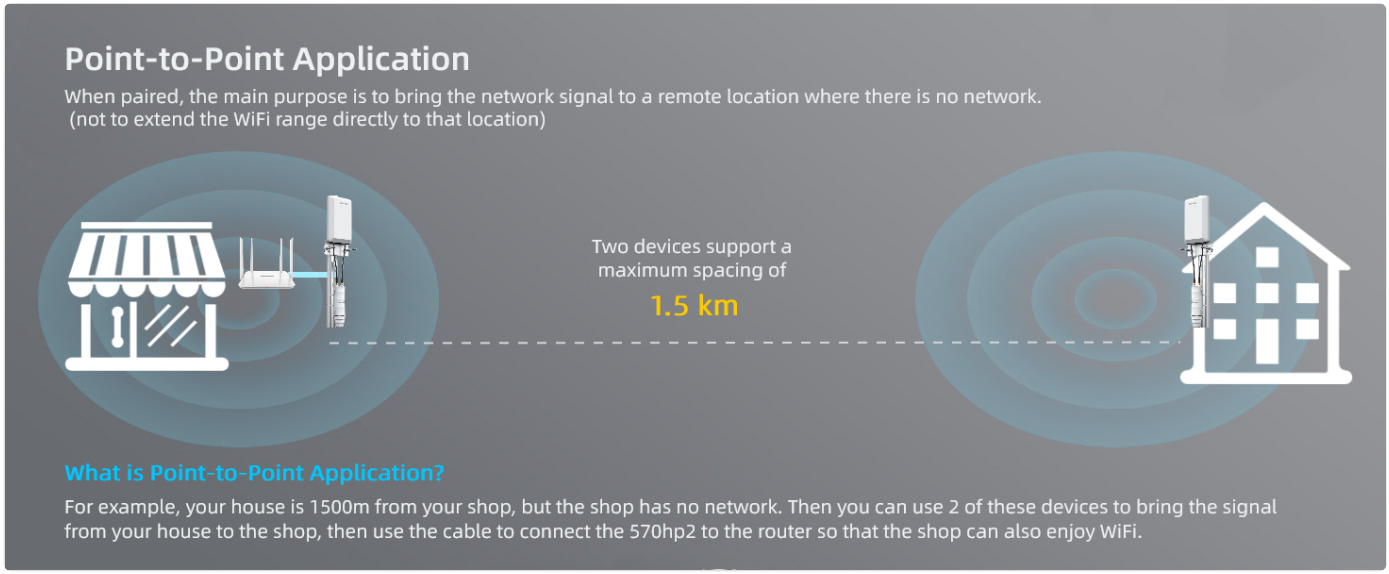


Image: Diagram illustrating a Point-to-Point application, showing two N300 devices creating a long-distance wireless bridge between two buildings.

5.5 Point-to-Multi-Point (PtMP) Application

Similar to PtP, this mode allows one N300 device to transmit a signal to multiple other N300 devices, extending network access to several remote locations. This is ideal for scenarios like connecting multiple buildings or areas within a large property. The maximum spacing supported is 1.5 km.

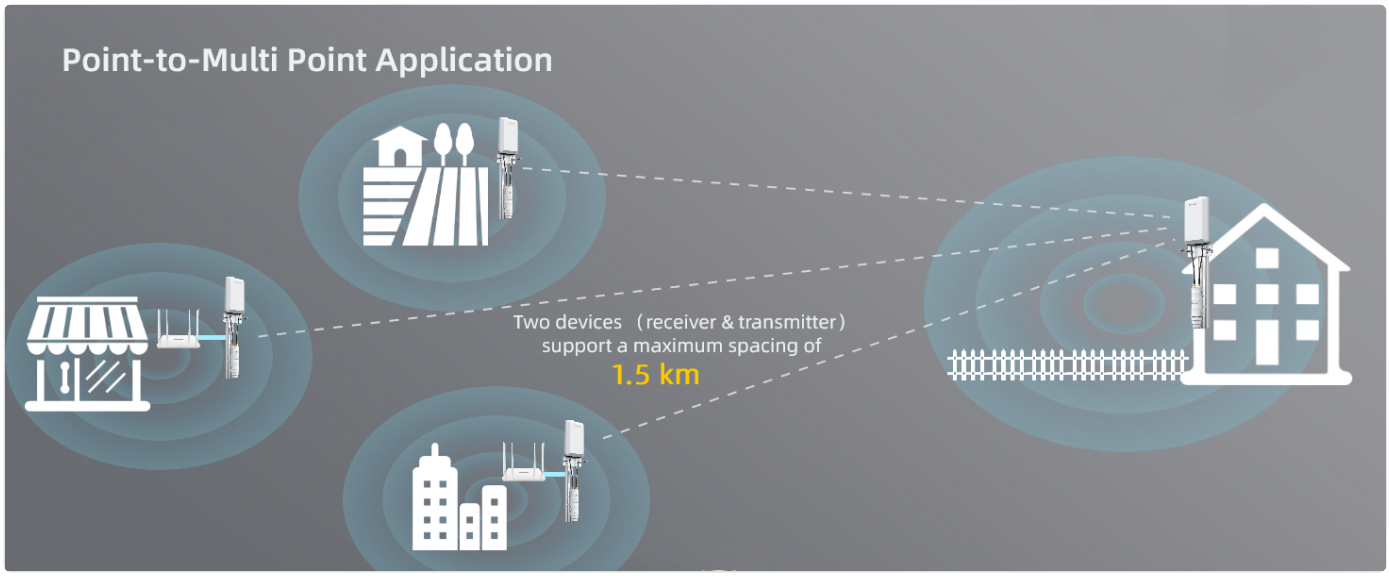


Image: Diagram illustrating a Point-to-Multi-Point application, showing one N300 transmitting to multiple other N300 devices across different locations.

6. Maintenance

To ensure optimal performance and longevity of your WAVLINK N300 Outdoor Access Point, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically inspect the device for dirt, dust, or debris accumulation, especially around ports and antenna connections. Clean with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Firmware Updates:** Check the official WAVLINK website regularly for firmware updates. Keeping the firmware updated ensures the latest features, security patches, and performance improvements.
- **Cable Inspection:** Inspect all connected cables (Ethernet, power) for any signs of wear, damage, or corrosion.

Replace damaged cables immediately to prevent connectivity issues or electrical hazards.

- **Secure Mounting:** Periodically check the mounting hardware to ensure the device remains securely fastened to its pole or wall, especially after severe weather conditions.
- **Environmental Considerations:** While the device is weatherproof, avoid direct exposure to extreme conditions beyond its specified operating range (-22℉ to 158℉). Ensure proper ventilation around the unit if installed in an enclosed outdoor space.

7. Troubleshooting

If you encounter issues with your WAVLINK N300, refer to the following common problems and solutions:

7.1 No Power/LED Indicators Off

- Ensure the power adapter is securely connected to the PoE adapter and plugged into a working electrical outlet.
- Verify the Ethernet cable from the PoE adapter's PoE port to the N300 is properly connected and not damaged.
- Test the power outlet with another device.

7.2 No Internet Connection

- Check the Ethernet cable connection from your main router/network switch to the PoE adapter's LAN port.
- Confirm your main router has an active internet connection.
- In Repeater mode, ensure the N300 is successfully connected to your main Wi-Fi network. Reconfigure if necessary.
- Verify the N300's operating mode is correctly configured for your network setup (AP, Repeater, Router).

7.3 Weak Wi-Fi Signal or Limited Range

- Ensure the N300 is mounted in a location with minimal obstructions (e.g., thick walls, metal structures) between it and the desired coverage area.
- For directional antennas, ensure the device is properly aimed towards the area where you need coverage.
- Reduce interference from other 2.4GHz devices (e.g., cordless phones, microwaves) by changing the Wi-Fi channel in the N300's settings.

7.4 Unable to Access Web Management Interface

- Ensure your computer is connected to the same network as the N300.
- Verify you are using the correct IP address for the N300 (default is often192.168.10.1). If you changed it, use the new IP.
- Clear your browser's cache and cookies, or try a different browser.
- If you forgot the login credentials, you may need to perform a factory reset (refer to the Quick Installation Guide for instructions).

7.5 Firmware Upgrade Issues

- Clear your browser's cache (Ctrl+Shift+Delete, select 'All time').
- Download the correct firmware for your specific model from the official WAVLINK website.
- Ensure a stable power supply during the upgrade process. Do not interrupt power.

8. Specifications

Feature	Detail
Brand	WAVLINK
Model	N300
Wireless Communication Standard	802.11a/b/g/n
Data Transfer Rate	300 megabits per second
Frequency Band Class	Single-Band (2.4 GHz)
Antenna Type	2 x 11dBi Directional MIMO
Special Features	Access Point Mode, Dustproof, LED Indicator, Power Over Ethernet, Weatherproof
Compatible Devices	IP Camera, Personal Computer, Smartphone, Speaker, Tablet
Range	Up to 5000 feet (1.5 km) in PtP/PtMP configurations (obstacle-free)
Waterproof Rating	IP65
Operating Temperature	-22℉ to 158℉ (-30℃ to 70℃)
Lightning Protection	15KV ESD, 4KV
Power Supply	24V Passive PoE

9. Warranty

The WAVLINK N300 Wireless Outdoor Access Point comes with a**1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or external causes such as power surges or natural disasters. Please retain your proof of purchase for warranty claims.

10. Support

For technical assistance, troubleshooting, or any questions regarding your WAVLINK N300, please contact our support team:

- **Phone Support:** +1 8889730883 (UTC-5, Mon - Fri 9AM - 6PM)
- **Online Support:** Contact us via Amazon Message or visit the official WAVLINK website for FAQs and additional resources.

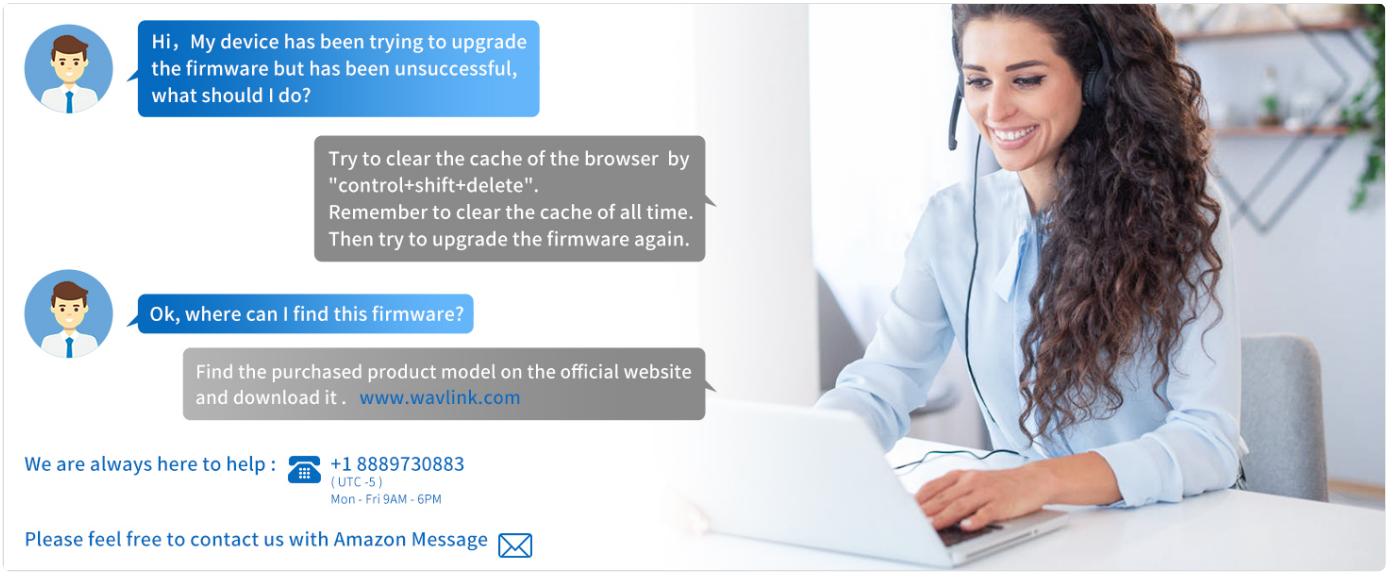


Image: WAVLINK customer support information, including phone number and online contact options.

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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