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WAVLINK B0CY1S568K

WAVLINK AX3000 WiFi 6 Outdoor Wireless Access Point User Manual

Model: B0CY1S568K
Brand: WAVLINK

INTRODUCTION

The WAVLINK AX3000 WiFi 6 Outdoor Wireless Access Point is designed to provide robust and extended Wi-Fi coverage in outdoor environments. Featuring dual-band AX3000 speeds, Power over Ethernet (PoE) support, and an IP67 weatherproof enclosure, this device is ideal for expanding network access for up to 256 devices in various outdoor settings such as homes, camping sites, factories, communities, and farms. It offers multiple operating modes including Mesh, AP, Router, and Repeater to suit diverse networking needs.

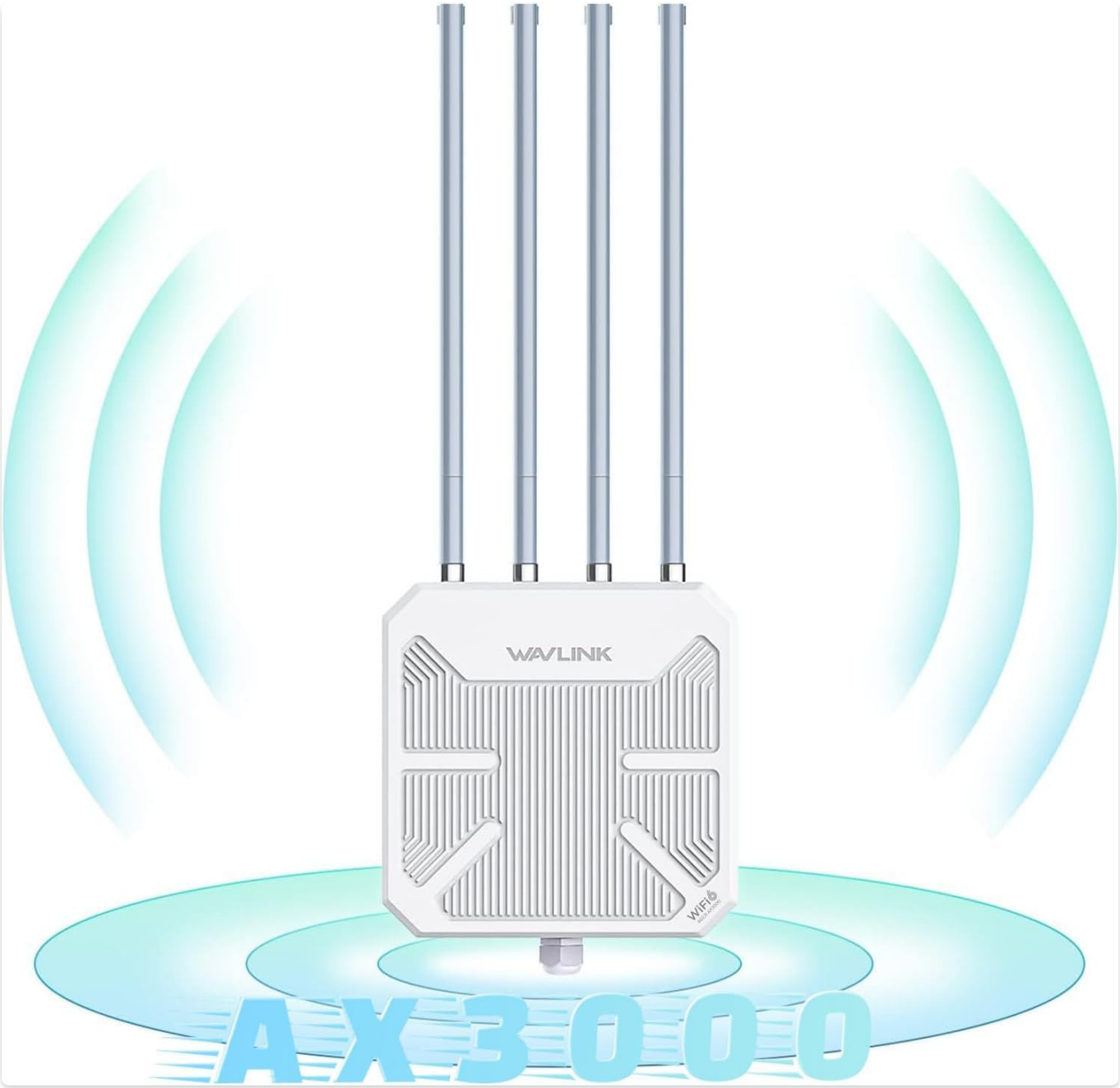


Image: The WAVLINK AX3000 WiFi 6 Outdoor Wireless Access Point with its four omni-directional antennas, illustrating its powerful signal reach.

What's in the Box

Verify that all components are present in the package before proceeding with installation.

- 1 x AX3000 WiFi 6 Outdoor Access Point
- 4 x Omni Antennas
- 4 x Cable Ties
- 1 x Ethernet Cable Connectors
- 1 x Quick Installation Guide
- 1 x Wrench
- 2 x Silicone Pads
- Several Screws
- Optional Passive PoE Components:

- 1 x 54V Power Adapter
- 1 x PoE Converter
- 1 x Ethernet Cable



Image: All components included in the WAVLINK AX3000 package, laid out for inspection.

Setup

Physical Installation

The WAVLINK AX3000 is designed for outdoor use and can be mounted in various locations to optimize signal coverage. Ensure the mounting location provides a clear line of sight to the desired coverage area and minimizes obstructions.

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Video: A brief physical installation guide for the WAVLINK AX3000, demonstrating mounting options and initial setup steps.

Power over Ethernet (PoE) Connection

The device supports both 802.3AF/AT active PoE and passive PoE, allowing data and power transfer through a single Ethernet cable. **Important: The PoE converter and power adapter are NOT waterproof and must be used indoors or in a protected environment.** Use a CAT5E or higher cable, not exceeding 100m (328ft) in length.

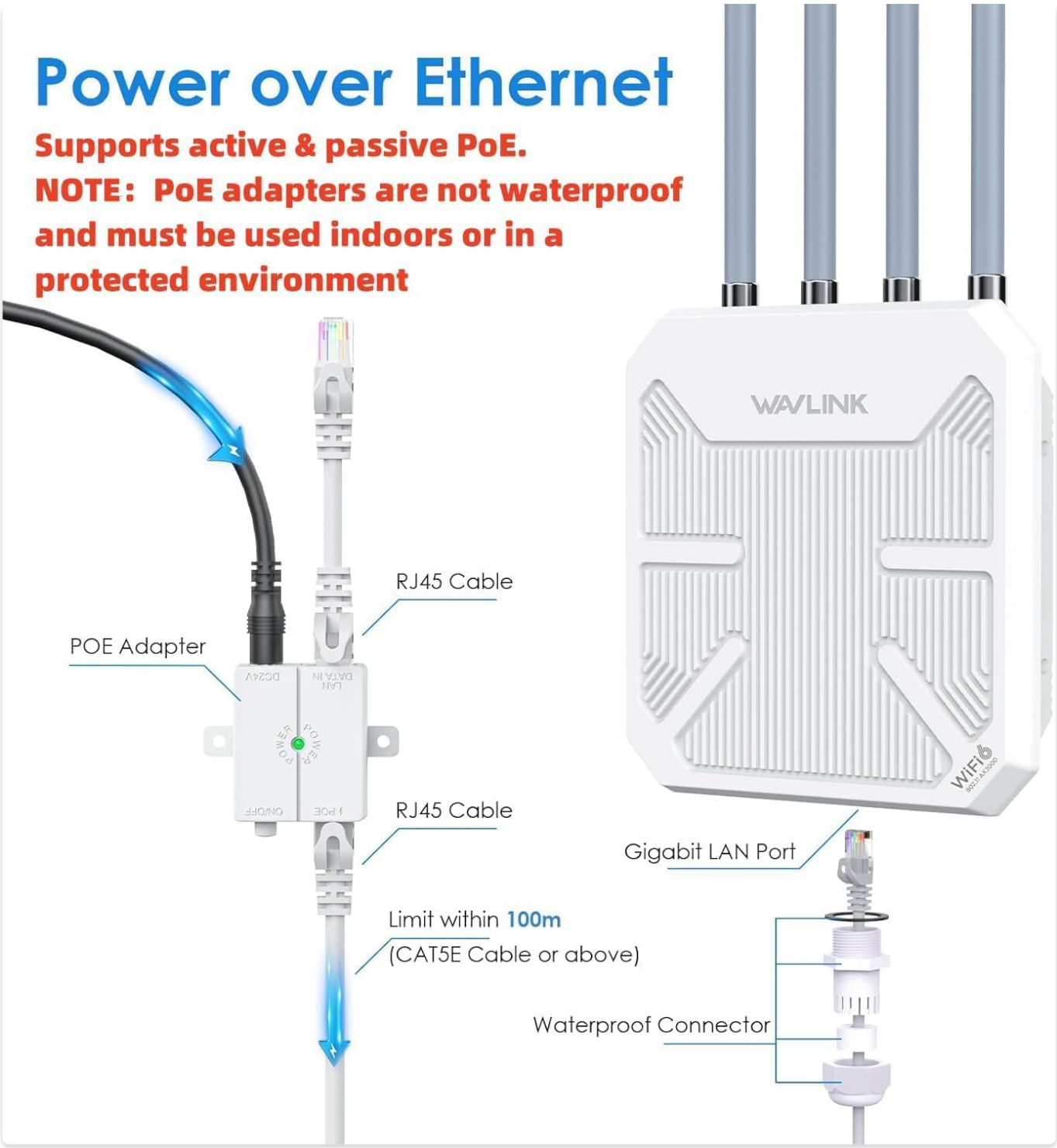


Image: Diagram illustrating how to connect the WAVLINK AX3000 using Power over Ethernet (PoE, showing the PoE adapter and Ethernet cable connection.

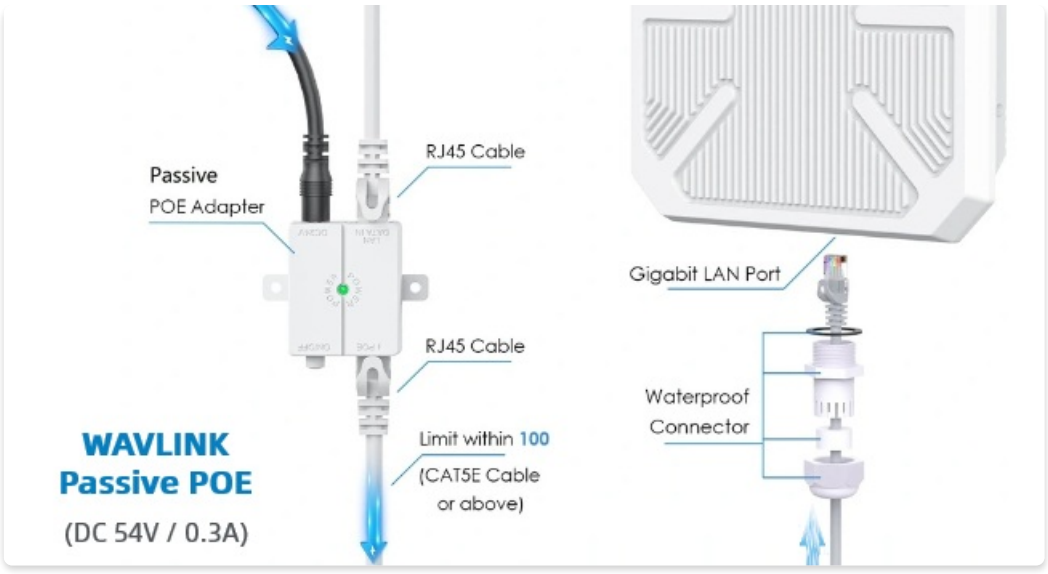


Image: Detailed diagram for Passive PoE connection, showing the 54V DC input and RJ45 cable connections.

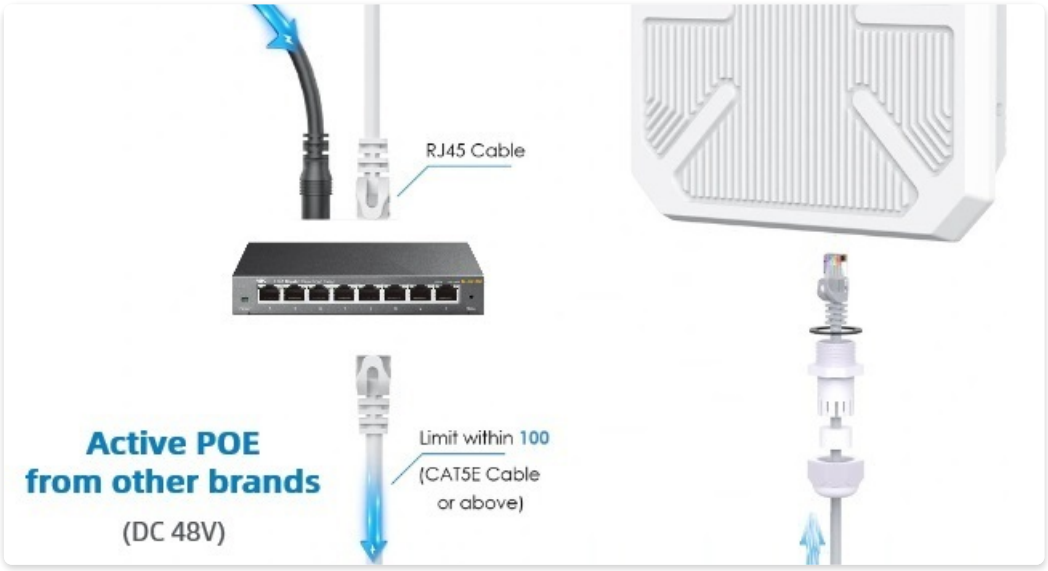


Image: Detailed diagram for Active PoE connection from other brands, showing the 48V DC input and RJ45 cable connections.

Starlink Router and WAVLINK Outdoor AP Setup Guide

For users integrating with a Starlink system, follow these guidelines for optimal performance:

1. **Compatibility and Connection Type:** The Starlink router (specifically the standard Gen 2 router) lacks an Ethernet port. When operating in Access Point (AP) mode, an additional Starlink Ethernet adapter is required to connect the WAVLINK outdoor AP to the Starlink router.
2. **WAVLINK AP Placement (Location):**
    - **Line of Sight:** Position the WAVLINK AP in a location with as clear a line of sight as possible to cover your desired outdoor area. Minimize obstructions such as walls, trees, and buildings.
    - **Central Location:** Place the AP at the center of your intended outdoor coverage area to ensure even signal distribution.
    - **Height:** Mounting the AP at a higher elevation (e.g., on a pole, under an eave, or on a wall) typically improves coverage and reduces interference from ground-level obstacles.
    - **Within Ethernet Cable Range:** Ensure the location is reachable by the Ethernet cable from the Starlink router. Account for cable length limitations (Cat5e/Cat6 cables generally support up to 100 meters).

3. **WAVLINK AP Power Supply:** The WAVLINK outdoor AP supports PoE (802.3at/af). If the Starlink router lacks a PoE port, a PoE adapter may be required to power the AP via the Ethernet cable. PoE simplifies wiring by combining data and power transmission into a single cable. When using PoE, confirm voltage and power requirements for both the WAVLINK AP and PoE injector (Active PoE: 48V; Passive PoE: 54V).



Image: Diagram illustrating the connection setup between a Starlink Router and the WAVLINK Outdoor Access Point.

Operating Modes

The WAVLINK AX3000 supports multiple operating modes to adapt to various network configurations and requirements.

Mesh Mode

In Mesh mode, the device can act as a Mesh Router or a Mesh Extender, creating a seamless, unified Wi-Fi network that covers a large area. This mode is ideal for eliminating dead zones and providing consistent coverage across your property.

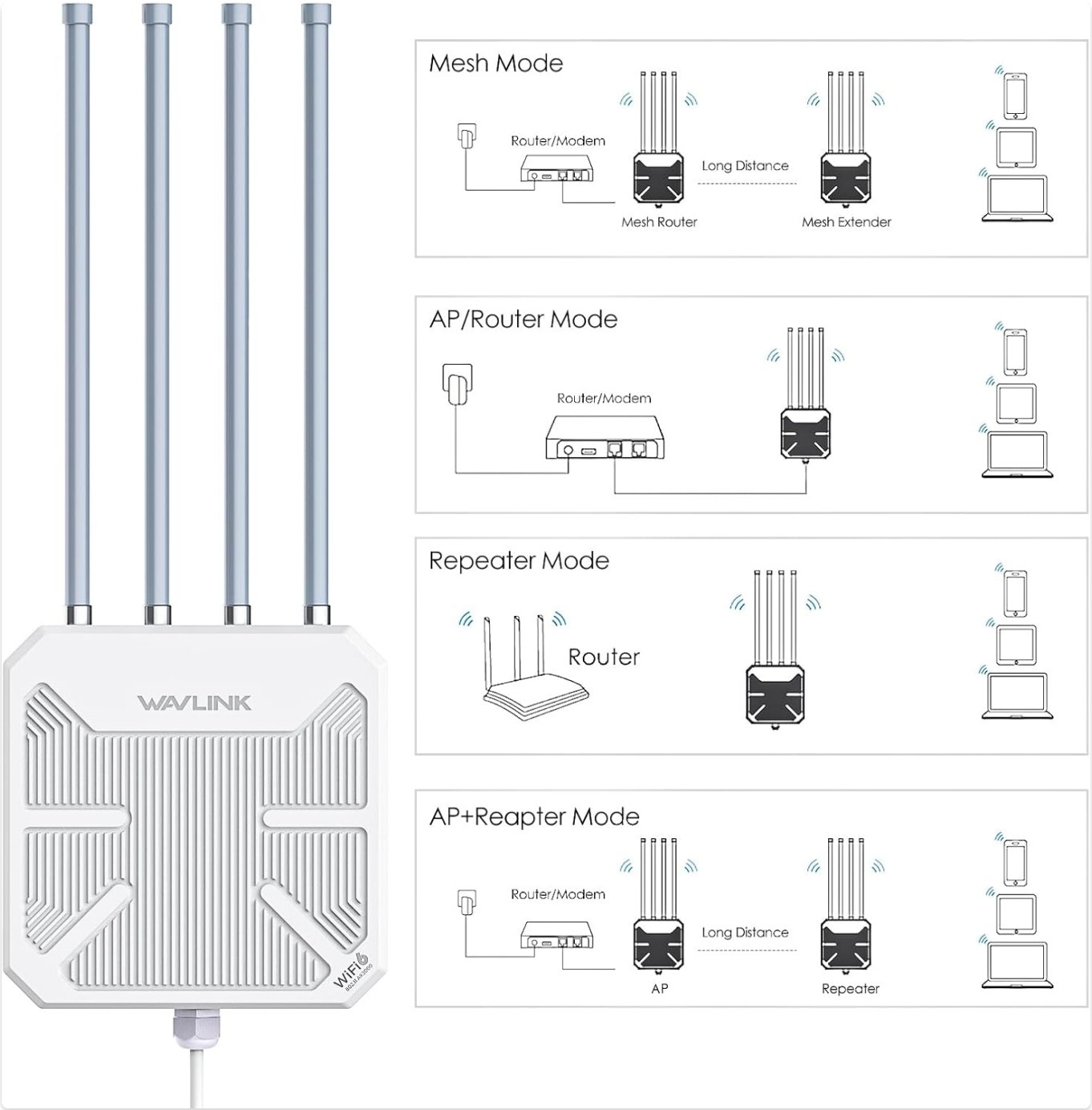


Image: Visual representation of the Mesh, AP/Router, Repeater, and AP+Repeater operating modes.

AP (Access Point) Mode

In AP mode, the device connects to an existing wired network (e.g., from a router or modem) and broadcasts a wireless signal, effectively extending the wired network wirelessly.

Router Mode

In Router mode, the device acts as a primary network device, connecting directly to your internet service provider's modem and creating a new local network with its own IP address range.

Repeater Mode

In Repeater mode, the device extends the range of an existing wireless network by receiving the Wi-Fi signal and re-transmitting it. This is useful for boosting signal strength in areas with weak coverage.

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Video: Demonstrates how the WAVLINK AX3000 can improve signal coverage in various environments, including

commercial buildings and garages.

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Video: An overview of the AX3000 WiFi Beast's usage experience, highlighting its performance and features.

Maintenance

The WAVLINK AX3000 is built for durability in outdoor conditions. Its IP67 waterproof enclosure, 15kV ESD protection, and 6kV lightning protection ensure reliable operation in various weather conditions, including rain, snow, wind, and thunderstorms. No specific routine maintenance is required beyond ensuring the device is securely mounted and connections are intact.



Image: The WAVLINK AX3000 showcasing its IP67 weatherproof enclosure, designed to withstand high temperatures, cold, and water.

Periodically check the physical mounting and cable connections for any signs of wear or damage, especially after severe weather events. Ensure the non-waterproof PoE converter and power adapter remain in a dry, protected location.

Troubleshooting

This section addresses common questions and issues you might encounter with your WAVLINK AX3000.

Why the Wi-Fi signal could not reach the advertised distance?

- Please make sure there is no obstacle between the Wavlink device and the target area. If there is an obstacle, the performance will be limited.
- Do not install the Wavlink device too high for better performance. It is better to install the Wavlink device 2-3m higher than the ground.
- There should be four antennas. Two of them should be the 2.4G antennas and two of them should be the 5G antennas. Please make sure you install the antennas at the corresponding connectors.

Why the Wavlink device could not repeat the Wi-Fi signal of the existing Wi-Fi signal?

- Our device does not support the Wi-Fi signal with the Captive Portal. If you connect the Wi-Fi signal by your phone, you will enter a web page and confirm some information, which means the Wi-Fi signal should come with the Captive Portal.
- When you try to repeat the existing Wi-Fi signal, please make sure you enter the correct Wi-Fi password of the existing Wi-Fi signal.
- To repeat the 5G signal of the host router, there should be less Wireless Interference on the 5G signal.
- Please make sure the MAC filter of the host router is disabled and the DHCP should be enabled.



Image: A visual representation of common questions and answers regarding the WAVLINK AX3000 (WN573HX3) performance and connectivity.

Specifications

Feature	Detail
Model Number	B0CY1S568K
Brand	WAVLINK
Wireless Communication Standard	802.11a/b/g/n/ac, 802.11ax (WiFi 6)
Data Transfer Rate	Up to 3000 Megabits Per Second (AX3000)
Frequency Band Class	Dual-Band (2.4GHz and 5GHz)
Power Output	Up to 600mW
Antennas	4 x 8dBi Fiberglass tube high-gain omnidirectional antennas
PoE Support	802.3AF/AT Active PoE and Passive PoE (54V)

Weather Protection	IP67 Waterproof Enclosure, 15kV ESD Protection, 6kV Lightning Protection
Max Connected Devices	Up to 256 devices
Operating Modes	Mesh, AP, Router, Repeater, AP/Repeater
Dimensions (Product)	Approx. 24cm x 24cm x 7cm (9.4in x 9.4in x 2.8in) - based on image
Antenna Length	Approx. 40cm (15.7in) - based on image
Item Weight	2.42 pounds
Country of Origin	China

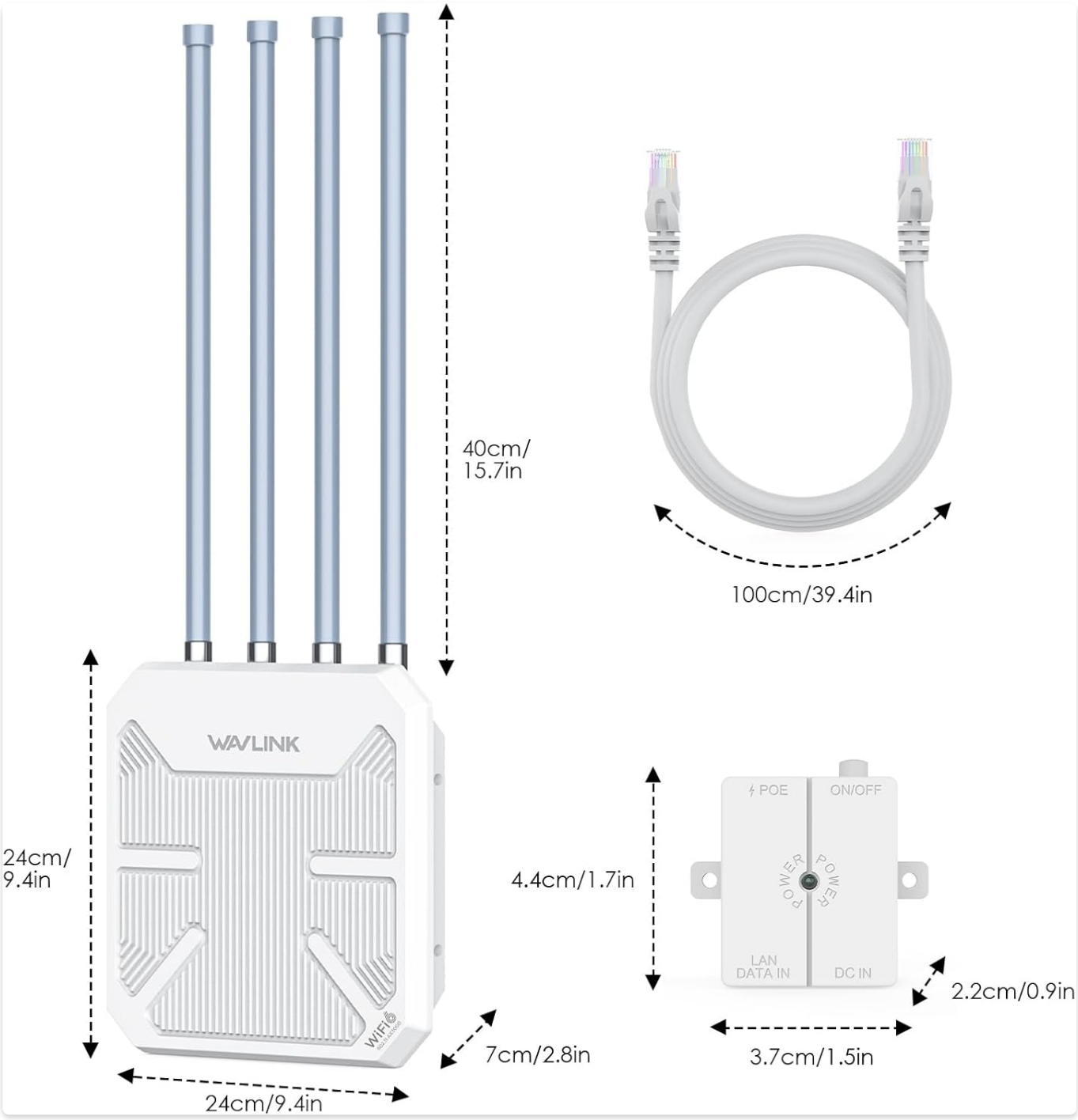


Image: Diagram showing the physical dimensions of the WAVLINK AX3000 unit and its antennas.

Warranty and Support

WAVLINK is committed to providing excellent customer service and technical support for its products.

- **Phone Support:** +18889730883 (UTC-5) Monday - Friday, 9 AM - 6 PM
- **Email Support:** Contact@wavlink.com
- WAVLINK aims to provide solutions within 8 hours for email inquiries.
- Life-long technical support is provided for this product.
- WAVLINK will never charge for support or sell services. Be cautious of third-party teams pretending to be official WAVLINK support.

For more information, please visit the official WAVLINK website:www.wavlink.com

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Question

Example: How do I reset this device or fix this error?

Details

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

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