AdaLov CPE467

AdaLov CPE467 Wireless Bridge User Manual

Comprehensive guide for setup, operation, maintenance, and troubleshooting of your AdaLov CPE467 Wireless Bridge.

PRODUCT OVERVIEW

The AdaLov CPE467 Wireless Bridge is designed for long-range 5.8GHz outdoor point-to-point wireless connections. It features an 8dBi high-gain directional antenna, IP65 weatherproof housing, and supports 24V PoE power. This device is ideal for extending network coverage to remote locations such as warehouses, barns, shops, and for surveillance camera systems or Starlink network extension.

Key Features

- **Easy Plug-and-Play Setup:** Simple installation without requiring GUI access for basic point-to-point setups.
- **1.5KM Long-Range Connectivity:** Achieves stable connections up to 1.5KM in clear line-of-sight with an 8dBi high-gain antenna.
- **High-Speed 5.8GHz Performance:** Ensures anti-interference and high-speed data transfer, suitable for demanding applications.
- **IP65 Weatherproof Design:** Built to withstand harsh outdoor conditions including rain, dust, and extreme temperatures.
- **Versatile Mounting & PoE Power:** Includes mounting brackets for pole or wall installation and is powered by 24V PoE for simplified cabling.
- **Point-to-Multipoint Support:** Capable of extending wireless coverage across large areas with multiple units.
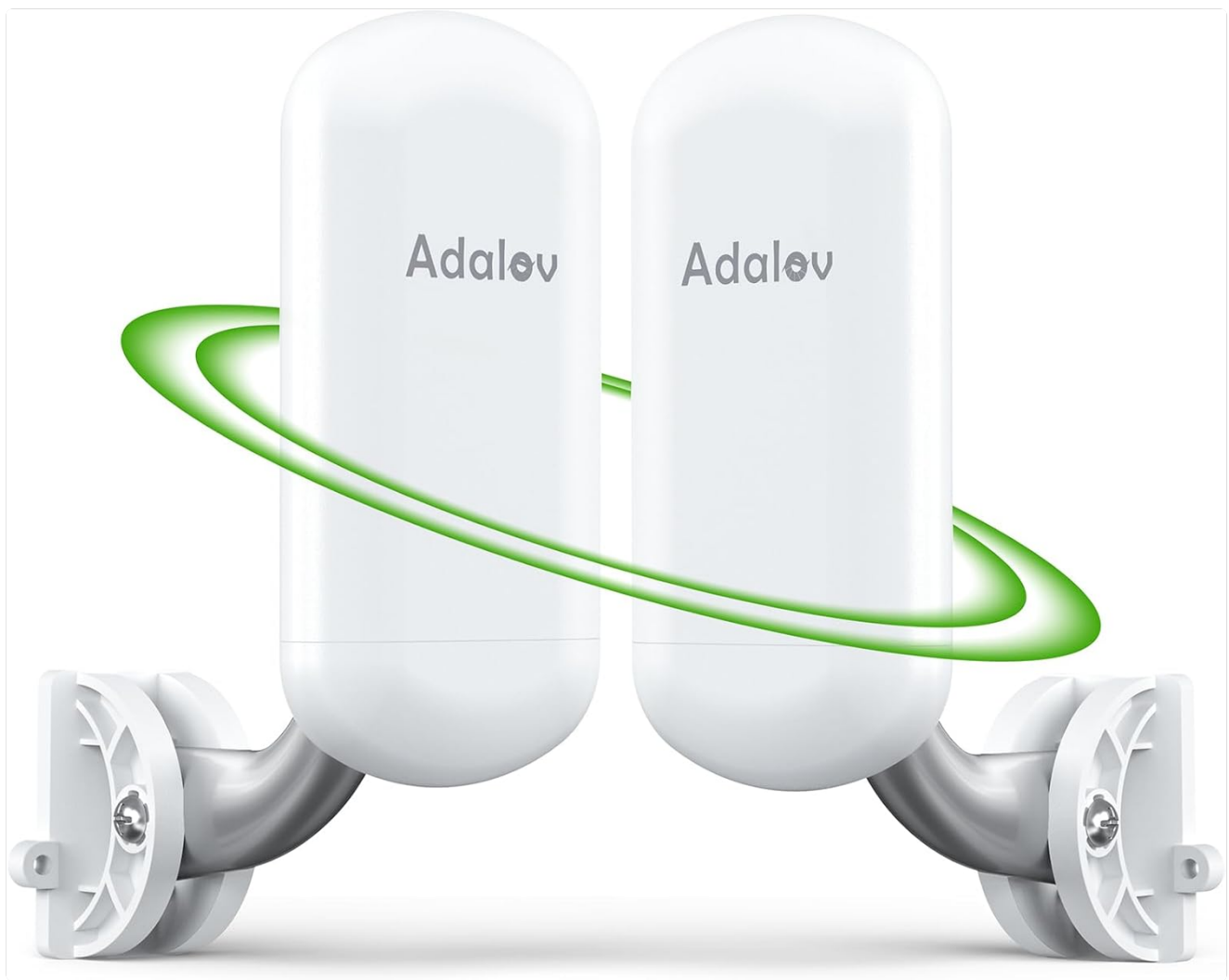
Figure 1: Two AdaLov CPE467 Wireless Bridge units, illustrating their sleek design and wireless connection capability.

2*Network Cable

2*PoE Adapter

1*Bracket kits

4*Nylon Cable Ties

1*User Manual

8.8cm/3.5in

17.8cm/7.0in

Adalov

Outdoor Wireless digital bridge
Model: CPE467
IP Address: 169.254.254.254
Username/Password: admin
Power supply: PoE 24V/0.5A
Made in China

2*CPE467 Wireless Bridge

Figure 2: The IP65-rated weatherproof design of the AdaLov CPE467 ensures durability against sun, rain, snow, and dust, making it suitable for harsh outdoor environments.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 2 x CPE467 Wireless Bridges
- 2 x PoE Adapters
- 2 x Short Network Cables
- 2 x Bracket Mounts
- 4 x Nylon Cable Ties
- 1 x User Manual

Figure 3: Detailed view of all components included in the AdaLov CPE467 Wireless Bridge package, including the two bridges, PoE adapters, network cables, mounting kits, and user manual.

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Video 1: An unboxing video demonstrating the contents of the CPE467 Wireless Bridge package, showing each item as it is removed from the box.

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Video 2: A detailed unboxing of the CPE467 Wireless Bridge, highlighting the bridges and mounting accessories included in the kit.

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Video 3: An unboxing and first look at the CPE467 High-Speed Wireless Bridge Kit, showcasing its components and initial impressions.

SAFETY INFORMATION

- Ensure proper grounding for outdoor installations.
- Do not use 48V PoE power supply; only use the provided 24V PoE adapters.
- Avoid installing the devices during lightning storms.

- Maintain a clear line of sight between the two bridge units for optimal performance. Obstructions can significantly degrade signal quality.
- Ensure the bridges are placed facing each other.

Figure 4: Illustration of correct (facing each other) and incorrect (not facing) placement of master and slave bridge units for optimal signal.

Figure 5: Visual representation emphasizing the importance of a clear line of sight between the master and slave bridge units, free from obstructions like walls or trees.

SETUP GUIDE

1. Physical Installation

1. Attach the mounting brackets to the desired pole or wall location using appropriate screws or cable ties.
2. Securely attach the CPE467 Wireless Bridge units to the mounted brackets.
3. Ensure the units are positioned for a clear line of sight to each other.

2. Initial Configuration and Connections

1. Connect one end of a network cable to the LAN/PoE port of the PoE adapter.
2. Connect the other end of the network cable from the PoE adapter to the LAN/PoE port on the CPE467 bridge unit.
3. Plug the PoE adapter into a power outlet. The device will power on.
4. Repeat steps 1-3 for the second CPE467 bridge unit.

5. Identify one unit as the Master (connected to your main router) and the other as the Slave (for the remote location).
6. For auto-pairing, ensure both units are powered on in the same room. The pairing process typically takes less than 1 minute if units are in factory default settings.
7. Connect the Master unit's PoE adapter's LAN port to your main router using a network cable.

Figure 6: Instructions for single-key operation and auto-pairing: Set Master CPE to A, Slave CPE to B, set the same number/letter on both, and wait for pairing.

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Video 4: A step-by-step guide on how to pair and connect CPE467 bridges to extend your network, demonstrating the initial setup process.

OPERATING INSTRUCTIONS

1. Point-to-Point Network Extension

The CPE467 bridges are pre-configured for point-to-point operation. Once paired, they will automatically establish a wireless link. You can then connect a router, switch, or other network device to the Slave unit's PoE adapter's LAN

port to extend your network.

Figure 7: Diagram illustrating a point-to-point network extension setup, connecting a main router to a master bridge, and a slave bridge to a remote network device like a switch or DVR.

2. Surveillance Camera Connectivity

For surveillance systems, connect your IP camera to the Slave unit's PoE adapter's LAN port. The Master unit will then transmit the camera feed back to your NVR or monitoring station connected to your main network.

Figure 8: Illustration of how to extend surveillance camera ranges using a point-to-point wireless bridge setup, connecting an IP camera to the slave unit and monitoring via a computer.

3. Starlink Internet Extension

The CPE467 can extend your Starlink internet. Connect the Starlink Ethernet Adapter to the Master unit's PoE adapter's LAN port. The Slave unit will then provide internet access to a router or computer at the remote location.

Figure 9: Setup diagram for extending Starlink internet service using the AdaLov Wireless Bridge, connecting the Starlink adapter to the master unit and providing internet to a remote router via the slave unit.

4. Point-to-Multipoint Configuration

For extending network to multiple remote locations, configure one CPE467 as a Master and additional CPE467 units as Slaves. The Master unit can communicate with multiple Slave units within its 60-degree transmission angle.

Figure 10: Illustration of a point-to-multipoint setup where one master bridge connects to multiple slave bridges, each linked to an IP camera, all within a 60-degree angle.

Figure 11: Examples of broad applications for the CPE467 Wireless Bridge, including compatibility with antennas, Starlink, network expansion to barns, and camera surveillance.

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Video 5: A performance test of the CPE467 Wireless Bridge, showcasing its speed and reliability in various scenarios.

MAINTENANCE

1. Cleaning

Periodically inspect the CPE467 units for dirt, dust, or debris, especially on the antenna surface. Clean with a soft, dry cloth. Do not use harsh chemicals or abrasive materials.

2. Firmware Updates

Check the AdaLov official website regularly for firmware updates. Keeping your device's firmware up-to-date ensures optimal performance and security. Follow the instructions provided with the firmware update package carefully.

TROUBLESHOOTING

Common Issues and Solutions

- **No Signal/Weak Signal:**

    - Ensure clear line of sight between units. Remove any obstructions.
    - Verify both units are powered on and correctly paired.
    - Check cable connections for looseness or damage.
    - Adjust horizontal and vertical alignment for optimal signal strength.

- **No Internet Access:**

    - Confirm your main router has internet access.
    - Verify the Master unit is correctly connected to your main router.
    - Check the network settings of devices connected to the Slave unit.

- **Device Not Powering On:**

    - Ensure the PoE adapter is correctly plugged into a working power outlet.
    - Verify the network cable is securely connected to the PoE port on both the adapter and the CPE unit.
    - Confirm you are using the correct 24V PoE adapter.

SPECIFICATIONS

Feature	Detail
Product Dimensions	3.54 x 2.17 x 9.84 inches
Item Weight	2.41 pounds
Item Model Number	CPE467
Brand	AdaLov
Frequency Band Class	Single-Band (5.8GHz)
Wireless Communication Standard	802.11a, 802.11ac, 802.11n
Connectivity Technology	5G, Ethernet, RJ45, Wi-Fi
Special Features	Access Point Mode, Guest Mode, LED Indicator, Remote Access, Weatherproof (IP65)
Color	White

WARRANTY AND SUPPORT

Your AdaLov CPE467 Wireless Bridge comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact AdaLov customer service through their official website or the contact information provided in the user manual.

Related Documents - CPE467

Adalov **WIRELESS BRIDGE** — USER MANUAL — Model: CPE380	[Adalov CPE380 Wireless Bridge User Manual](#) Comprehensive user manual for the Adalov CPE380 Wireless Bridge, detailing product specifications, installation guides, pairing procedures, application examples, and technical support information.
Adalov **WIRELESS BRIDGE** — USER MANUAL — Model: CPE660	[Adalov CPE660 Wireless Bridge User Manual](#) Comprehensive user manual for the Adalov CPE660 Wireless Bridge, detailing installation, pairing, application diagrams, specifications, and support information for extending network connectivity.
Adalov **WIRELESS BRIDGE** — USER MANUAL — Model: CPE380	[Adalov CPE380 Wireless Bridge User Manual](#) Comprehensive user manual for the Adalov CPE380 Wireless Bridge, detailing product specifications, installation guides, pairing procedures, application examples, and technical support information.
Adalov **WIRELESS BRIDGE** — USER MANUAL — Model: CPE660	[Adalov CPE660 Wireless Bridge User Manual](#) Comprehensive user manual for the Adalov CPE660 Wireless Bridge, detailing installation, pairing, application diagrams, specifications, and support information for extending network connectivity.