

AdaLov CPE361

AdaLov CPE361 5KM Outdoor Wireless Bridge User Manual

Model: CPE361 | Brand: AdaLov

1. INTRODUCTION

The AdaLov CPE361 is a 5.8GHz outdoor wireless bridge designed to extend network connectivity over long distances, up to 5 kilometers. It provides a stable, high-speed link for various applications, including connecting remote buildings, extending Starlink internet, and supporting IP camera systems. This manual provides detailed instructions for setting up, operating, and maintaining your CPE361 wireless bridge.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 2 x AdaLov CPE361 Wireless Bridges
- 2 x Adjustable Mounting Brackets
- 2 x PoE Adapters
- 2 x Test Network Cables
- 1 x User Manual (this document)
- Metal Cable Ties and Screws (for mounting)



Image: Contents of the AdaLov CPE361 wireless bridge package, including two wireless bridges, mounting brackets, PoE adapters, network cables, and a user manual.

3. PRODUCT FEATURES

- **5KM Long-Range Outdoor Link:** Establishes a stable line-of-sight connection for extending internet to remote locations.
- **Dual Gigabit Ports:** Two 10/100/1000Mbps Ethernet ports for connecting multiple devices with high throughput.
- **5.8GHz Frequency with 14dBi Antenna:** Provides up to 900Mbps wireless throughput and 500Mbps LAN performance, minimizing interference from 2.4GHz networks.
- **Plug-and-Play Dial Pairing:** Simplifies setup by matching dial codes and aligning units.
- **Compatible with Starlink Internet:** Extends Starlink service to outbuildings without additional subscriptions.
- **Reliable Backhaul for IP Cameras:** Creates a dedicated wireless link for surveillance systems.
- **Flexible PtP and PtMP Networking:** Supports Point-to-Point (PtP) and Point-to-Multipoint (PtMP) configurations.
- **Outdoor Housing with Adjustable Mounts:** IP65 weather-resistant enclosure with adjustable brackets for precise aiming.



Image: The AdaLov CPE361 wireless bridge is engineered for all-weather outdoor performance, resistant to rain, wind, heat, and cold.

4. SETUP GUIDE

Follow these steps for initial setup and pairing of your AdaLov CPE361 wireless bridges.

4.1. Component Overview

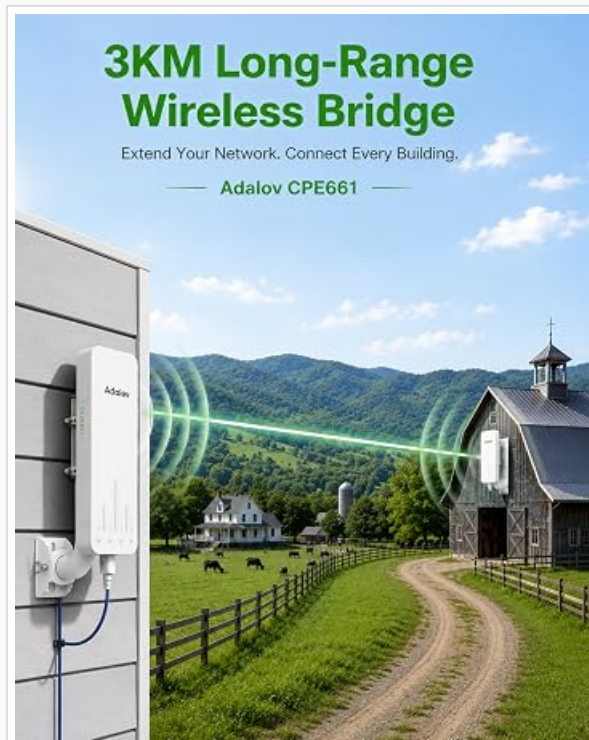


Image: Detailed view of the CPE361 unit showing Gigabit Ethernet Port (RJ45), DC Power Port, Reset Button, Channel Display, TX/RX Mode Switch, and various LED indicators (Wi-Fi Status, Signal Strength, LAN Activity, Power).

4.2. Initial Pairing (DIP Switch Method)

1. **Power On:** Connect both CPE361 units to their respective PoE adapters and power them on.

2. **Set Channel:** Use the DIP switches on each unit to set them to the same channel (0-9 or A-F). One unit will be the Transmitter (A) and the other the Receiver (B). Ensure the TX/RX mode switch is correctly set for each unit.
3. **Align for Pairing:** Place the two units face-to-face, approximately 1-2 meters apart, to facilitate initial pairing.
4. **Wait for Pairing:** The units will automatically attempt to pair. Observe the signal indicator LEDs. A successful connection is indicated by stable green lights.



Image: A visual guide demonstrating the four steps for DIP fast pairing: setting Bridge A, setting Bridge B, setting both to the same channel, and successful pairing.

Your browser does not support the video tag.

Video: A demonstration of how to pair the CPE361 wireless bridges, including using the reset button to change channels and ensuring both bridges are on the same channel for successful pairing.

4.3. Web Management (Advanced Configuration)

For advanced settings such as SSID, password, and operating mode adjustments, access the web management interface. Refer to the included user manual for default IP addresses and login credentials.

5. OPERATING MODES

The CPE361 supports various operating modes to suit different network extension needs.

5.1. Point-to-Point (PtP)

In PtP mode, two CPE361 units create a direct wireless link between two locations. One unit acts as the Access Point (AP Bridge) and the other as the Client Bridge. This is ideal for extending a network from a main building to a single remote building.

Go Wireless. Skip The Trench.



Image: Diagram illustrating a Point-to-Point network extension, showing a router connected to an AP Bridge, wirelessly linked to a Client Bridge, which then connects to a remote router for devices.

5.2. Point-to-Multipoint (PtMP)

In PtMP mode, one CPE361 unit acts as a central Access Point (AP Bridge), connecting to multiple client CPE361 units. This allows for expanding network coverage to several remote locations from a single source.

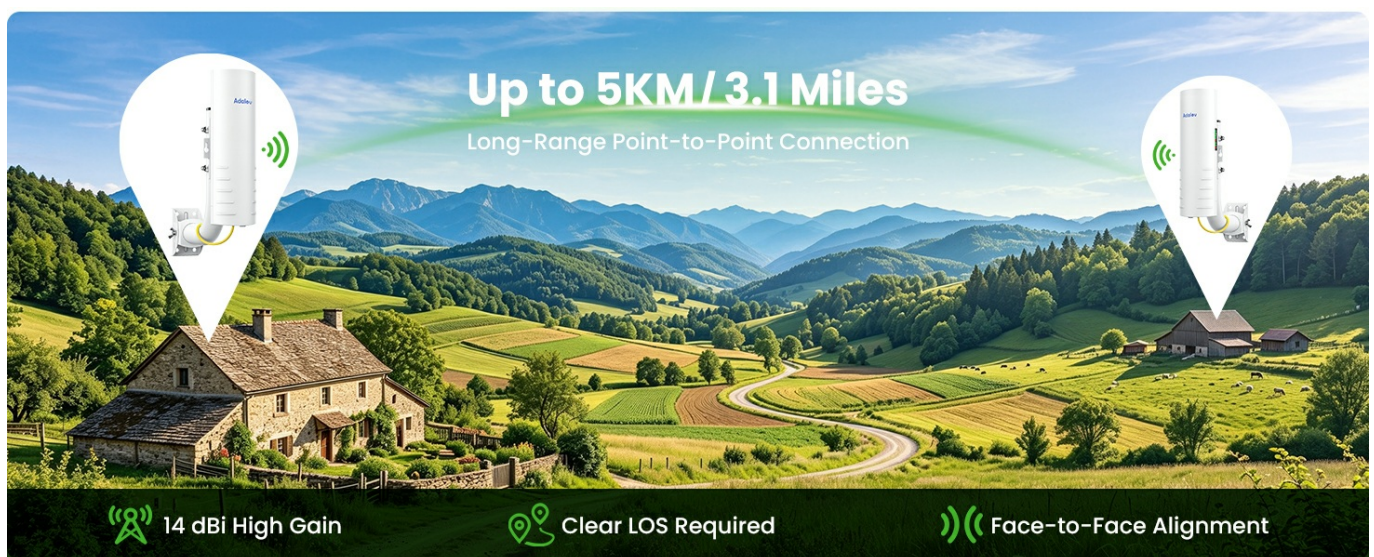


Image: Diagram showing a Point-to-Multipoint setup where one AP Bridge wirelessly connects to multiple Client Bridges, each supporting cameras, with a central NVR for monitoring.

5.3. Repeater Mode

For extending the range even further or around obstacles, two pairs of wireless bridges can be configured in a repeater setup. This involves a source site, a relay site, and a remote site, with Ethernet connections between the bridges at the relay site.

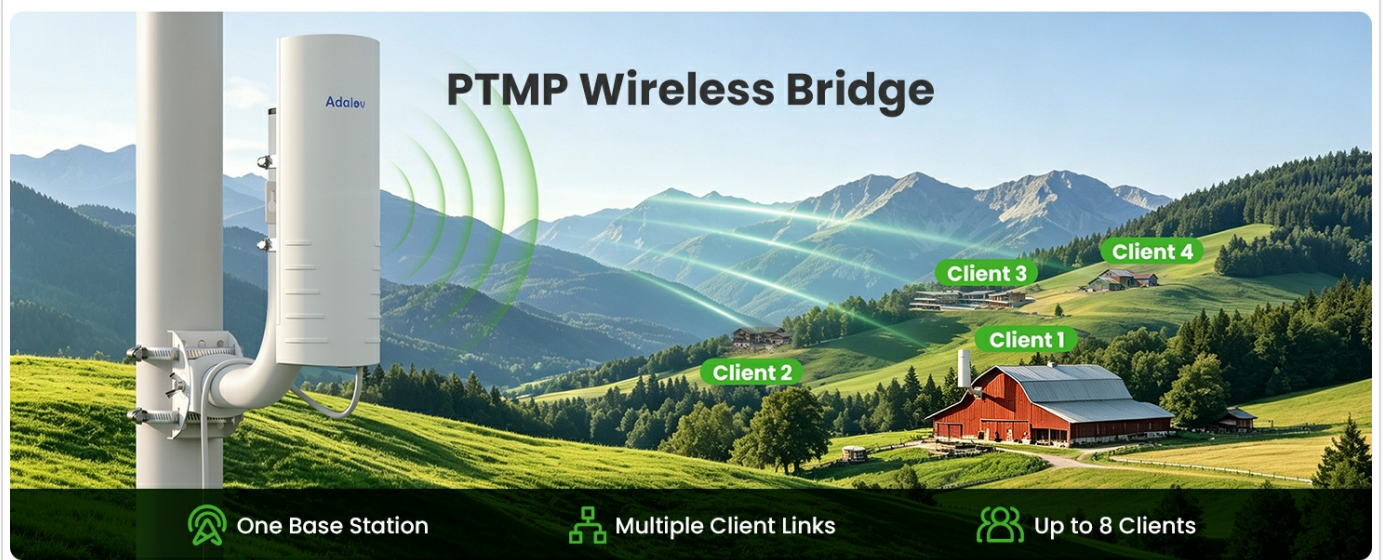


Image: Diagram illustrating Repeater Mode using two pairs of wireless bridges (A-B and C-D) to extend network coverage from a source site to a remote site via a relay site with an Ethernet link.

6. INSTALLATION AND MOUNTING

Proper installation and alignment are crucial for optimal performance of the CPE361 wireless bridge.

6.1. Site Selection and Line of Sight

Choose mounting locations that provide a clear line of sight between the two units. Obstructions like trees, buildings, or dense foliage can significantly degrade signal quality and range.



Image: Comparison showing how signal can be blocked by obstacles like buildings or trees, leading to poor performance, versus a clear line of sight for optimal throughput.

6.2. Mounting Options

The CPE361 units can be mounted on poles or walls using the included adjustable mounting brackets. The brackets allow for 150° vertical and 180° horizontal adjustment for precise aiming.

- **Pole Mount:** Use the metal cable ties to secure the bracket to a pole.
- **Wall Mount:** Use the provided screws to attach the bracket to a wall.

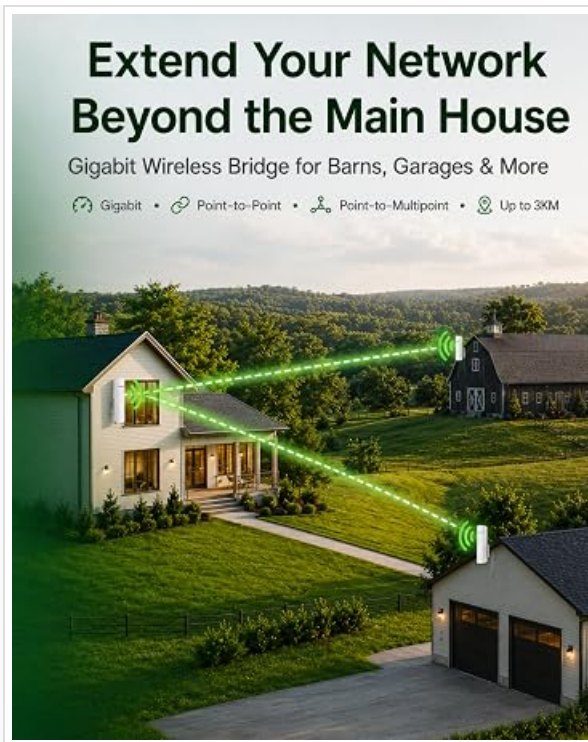


Image: Demonstrates flexible installation options for the CPE361, including pole mount and wall mount, highlighting 150° vertical and 180° horizontal adjustment capabilities.

Your browser does not support the video tag.

Video: A real-world test of the CPE361 Dual Gigabit Wireless Bridge, showing installation and performance in an outdoor environment.

6.3. Aiming and Alignment

After mounting, fine-tune the direction of each unit using the adjustable brackets. The signal indicator lights on the CPE361 will help you achieve optimal alignment for the strongest signal.

7. POWER SUPPLY OPTIONS

The CPE361 offers flexible power options:

- **24V PoE Adapter:** Use the included 24V PoE adapters for standard power and data transmission over Ethernet.
- **48V PoE Switch:** Compatible with 48V PoE switches for integration into existing PoE networks.
- **12V DC:** Supports 12V DC power adapters (not included) for alternative power sources.



Image: Illustrates the three power supply options for the CPE361: 24V PoE, 48V PoE (via a compatible switch), and 12V DC.

8. TROUBLESHOOTING

If you encounter issues with your CPE361 wireless bridge, consider the following:

- **No Connection/Poor Signal:**

- Ensure clear line of sight between units. Obstacles like trees or buildings can block the signal.
- Verify both units are powered on and their LED indicators are active.
- Re-check the DIP switch settings to ensure both units are on the same channel and correctly configured as Transmitter (A) and Receiver (B).
- Adjust the physical alignment of the units using the mounting brackets to optimize signal strength. The signal indicator LEDs can assist with this.

- **Slow Speed:**

- Ensure optimal alignment for maximum signal strength.
- Check for any new obstructions in the line of sight.
- Verify that connected Ethernet cables are in good condition and properly seated.
- Confirm that the connected network devices (router, switch) are operating correctly.

- **Network Security Concerns:**

- Access the web management interface to change default login credentials and Wi-Fi passwords.
- Use strong, unique passwords for all network devices.
- Consult the full user manual for detailed security configuration options.

- **Unit Not Responding:**

- Perform a factory reset by pressing and holding the reset button for approximately 10 seconds. Note that this will revert all settings to default.

9. SPECIFICATIONS

Feature	Detail
Model Name	CPE361
Frequency Band Class	Single-Band (5.8 GHz)
Wireless Communication Standard	802.11a, 802.11ac, 802.11n
Data Transfer Rate	Up to 1000 Mbps (Gigabit)
LAN Port Bandwidth	10/100/1000Mbps
Number of Ports	2 (Gigabit Ethernet)
Antenna Type	Internal, 14dBi Directional
Security Protocol	WPA-Enterprise, WPA-PSK, WPA2-Enterprise
Power Supply	24V PoE, 48V PoE (compatible), 12V DC
Weather Resistance	IP65 Rated
Control Method	Push Button (DIP Switch), Web Management
Item Weight	295 g
Item Dimensions (L x W x H)	12"L x 3.4"W x 17"H

10. WARRANTY AND SUPPORT

The AdaLov CPE361 comes with a **1-Year Manufacturer Warranty**. For technical support, troubleshooting assistance, or warranty claims, please refer to the contact information provided in the full user manual or visit the official AdaLov support website.

For additional resources and product information, you may visit the [AdaLov Store on Amazon](#).

© 2026 AdaLov. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

conversion attribution. [Privacy details](#).

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.

Submit question