AdaLov CPE369

AdaLov CPE369 Wireless Bridge Kit User Manual

Model: CPE369 | Brand: AdaLov

1. Introduction

This user manual provides detailed instructions for the installation, configuration, operation, and maintenance of the AdaLov CPE369 Wireless Bridge Kit. This kit includes three wireless bridges designed for outdoor network expansion, offering high-speed 5.8G wireless connectivity with a 1000Mbps LAN port and a 16dBi antenna for long-range transmission up to 3 kilometers.
The CPE369 kit supports Point-to-Point (PTP) and Point-to-Multipoint (PTMP) connections, making it ideal for extending networks, video surveillance, and internet sharing across various outdoor environments.

2. Package Contents

Verify that all items are present in your package:

- 3 x CPE369 Wireless Bridges
- 3 x POE Adapters
- 3 x Metal Cable Ties
- 3 x Network Cables
- 1 x User Manual

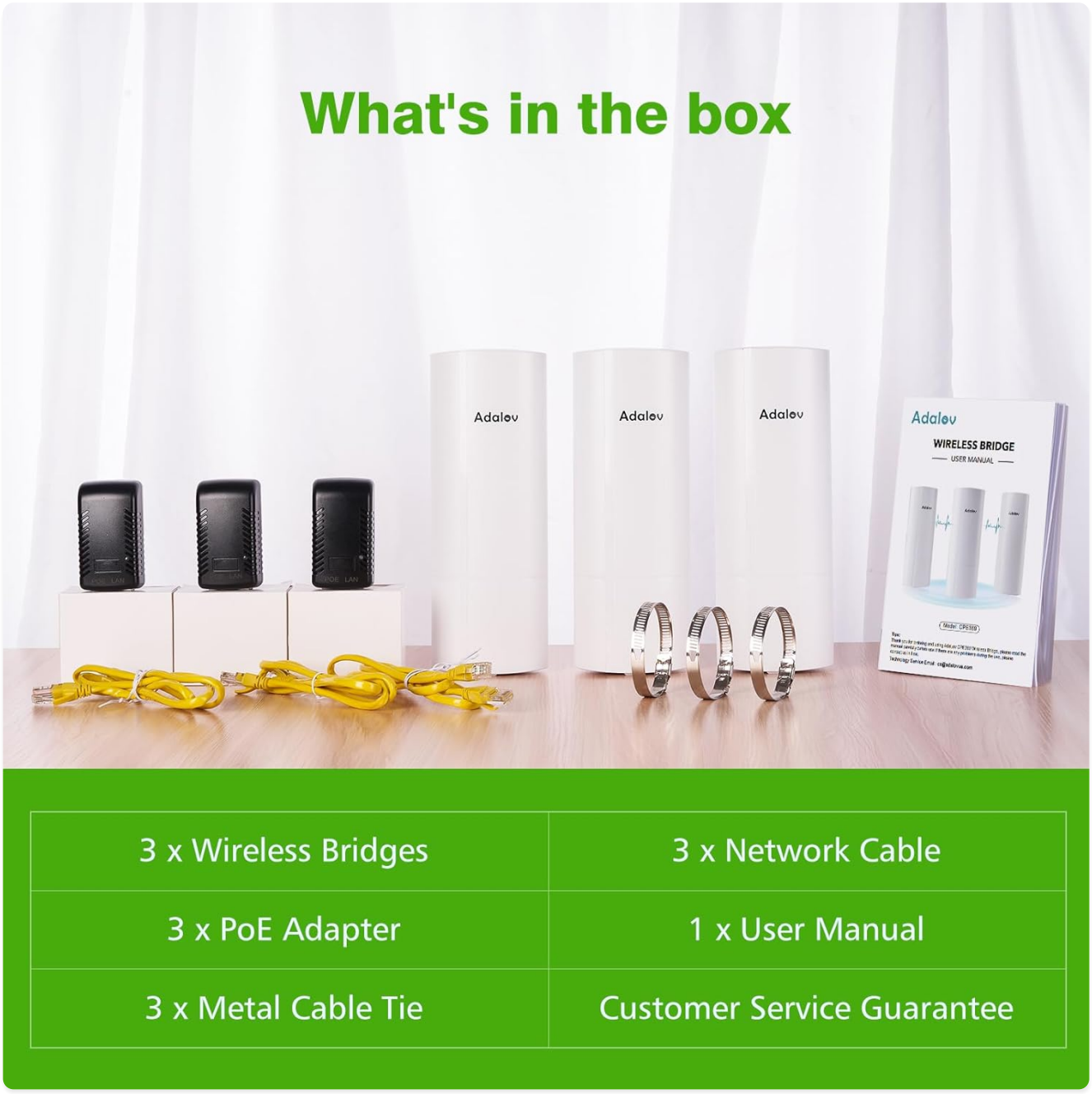

Image: All components included in the CPE369 Wireless Bridge Kit.

3. Product Overview

The AdaLov CPE369 Wireless Bridge is an outdoor-rated device designed for robust and long-range wireless network extension. Each unit features a 16dBi high-gain directional antenna and supports 5.8GHz frequency for high-speed, low-latency data transmission.

3.1 Key Features

- **Long Range Transmission:** Up to 3KM (1.9 miles) with 16dBi directional antenna.
- **High Speed:** 5.8GHz wireless with up to 900Mbps wireless transmission rate and 433Mbps LAN data rate.
- **Dual LAN Ports:** Includes one 100Mbps and one 1000Mbps LAN port.
- **Outdoor Durability:** IP65 waterproof and dustproof design, resistant to harsh weather conditions (sunlight, frost, rain, humidity, hail).

- **POE Power:** Supports 24V POE power for flexible installation.
- **Easy Pairing:** One-key dialing pairing for Point-to-Point (PTP) and Point-to-Multipoint (PTMP) connections.
- **Security:** Supports WEP64/128bits, WPA, WPA2, 802.1x.

3.2 Component Identification

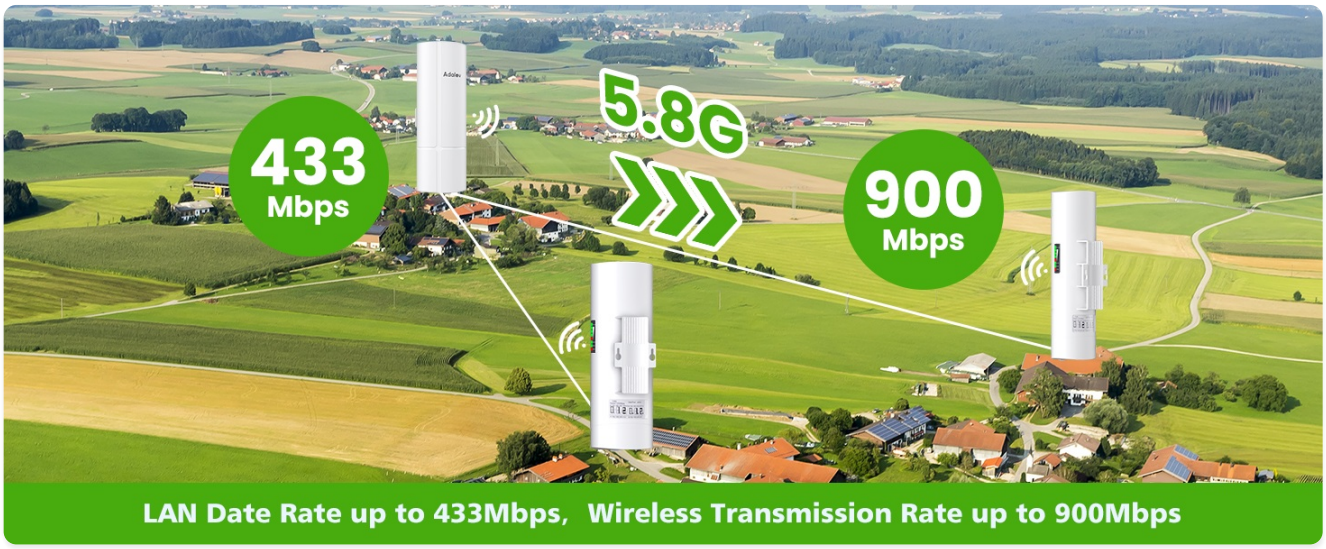

Image: Detailed view of the CPE369 unit with labeled components.

- **Digital Tube:** Displays current mode (Transmitter A Mode, Receiver B Mode) and pairing status.
- **Reset Button:** Used for resetting the device or setting the same channel during pairing.
- **A-B Button:** Toggles between Master (A) and Slave (B) modes for pairing.
- **LAN (100Mbps) Port:** Ethernet port for network connection.
- **LAN (1000Mbps) Port:** Gigabit Ethernet port for high-speed network connection.
- **DC Power:** Power input for the device.
- **WLAN Signal Light:** Indicates wireless signal strength.
- **Power Indicator:** Shows power status.

4. Setup and Installation

4.1 Safety Precautions

- Ensure proper grounding for outdoor installations.
- Do not open the device casing; refer servicing to qualified personnel.
- Use only the provided POE adapters.
- Mount the devices securely to prevent falling.

4.2 Mounting the Devices

The CPE369 units can be installed on a pole or wall-mounted using the provided metal cable ties. Ensure the mounting location provides a clear line of sight between the master and slave bridges for optimal performance.

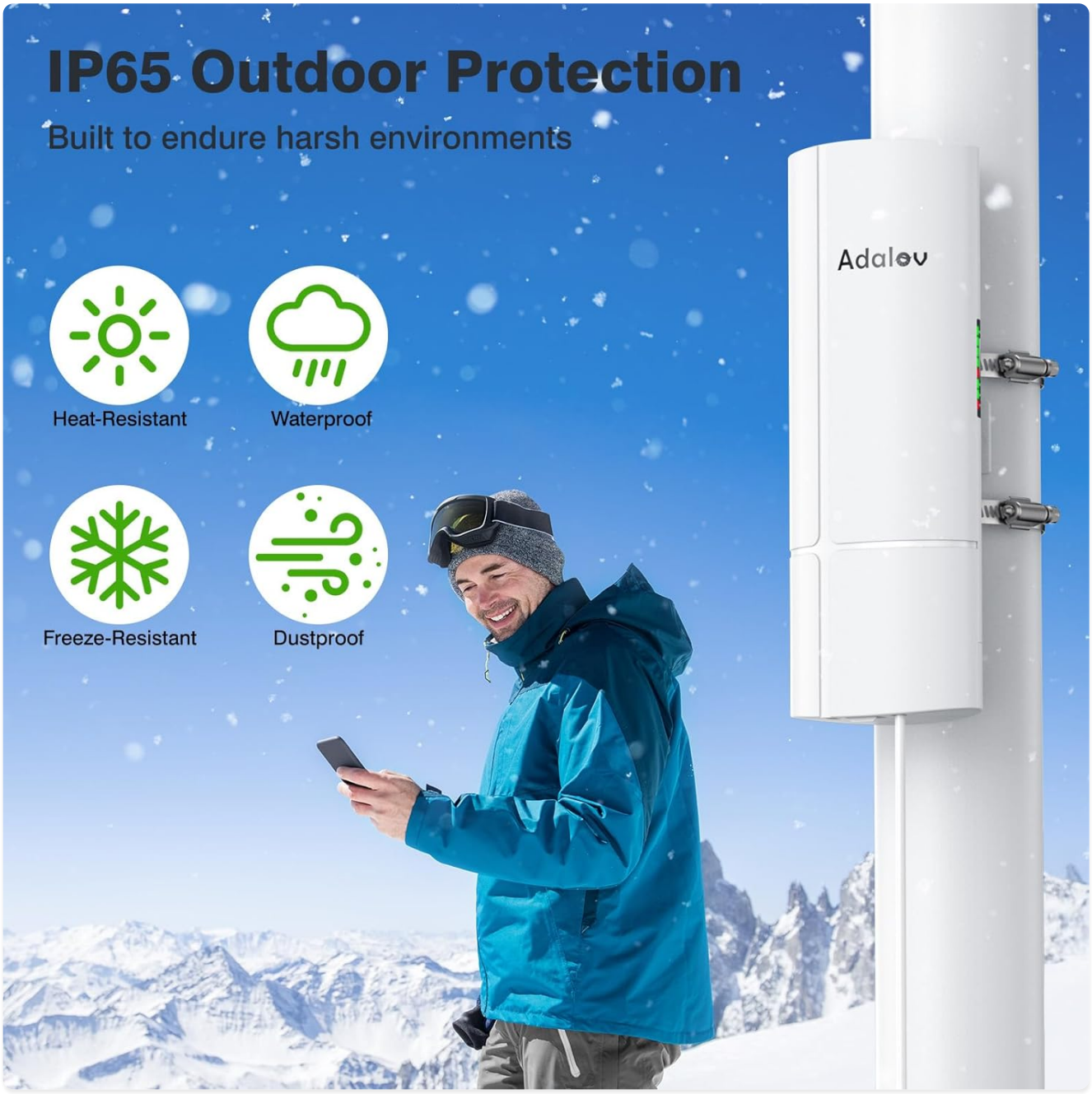

Image: Example of outdoor wall mounting for the CPE369.

4.3 Powering the Devices (POE)

Connect the provided POE adapters to power the CPE369 units. The POE adapter simplifies installation by delivering both power and data over a single Ethernet cable.

4.4 Dialing Pairing (Point-to-Multipoint Configuration)

The CPE369 kit supports easy one-key dialing pairing for Point-to-Multipoint (PTMP) connections. One unit acts as the Master Bridge (Transmitter A Mode), and the other two units act as Slave Bridges (Receiver B Mode).

1. **Set Master Bridge:** On one CPE369 unit, push the 'A-B' button to the 'A' position. The digital tube will display 'A'.
2. **Set Slave Bridges:** On the other two CPE369 units, push the 'A-B' button to the 'B' position. The digital tube on these units will display 'B'.
3. **Set Same Channel:** Press the 'Reset' button on all three bridges simultaneously. This will set them to the same channel for pairing.
4. **Pairing Successful:** The devices will automatically pair. The WLAN signal lights will indicate successful connection and signal strength.

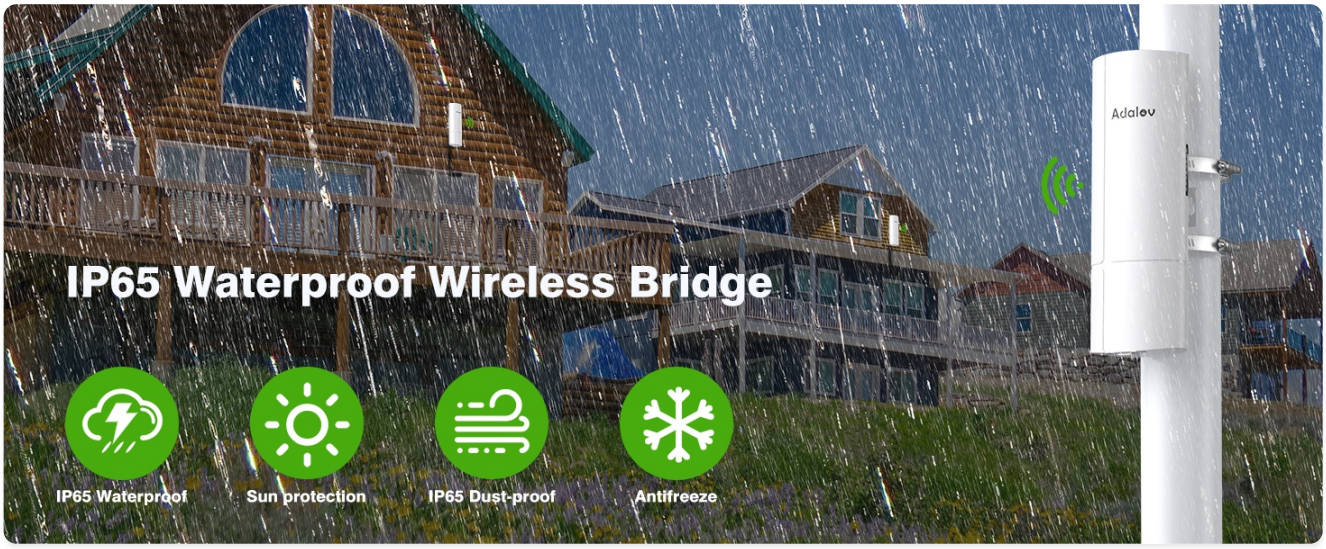

Image: Step-by-step guide for dialing pairing the CPE369 units.

Important Considerations for PTMP Setup:

- The slave bridges must be in front of the master bridge.
- The master bridge and slave bridges must be face-to-face.
- The maximum angle between the master bridge and slave bridges should not exceed 60 degrees.

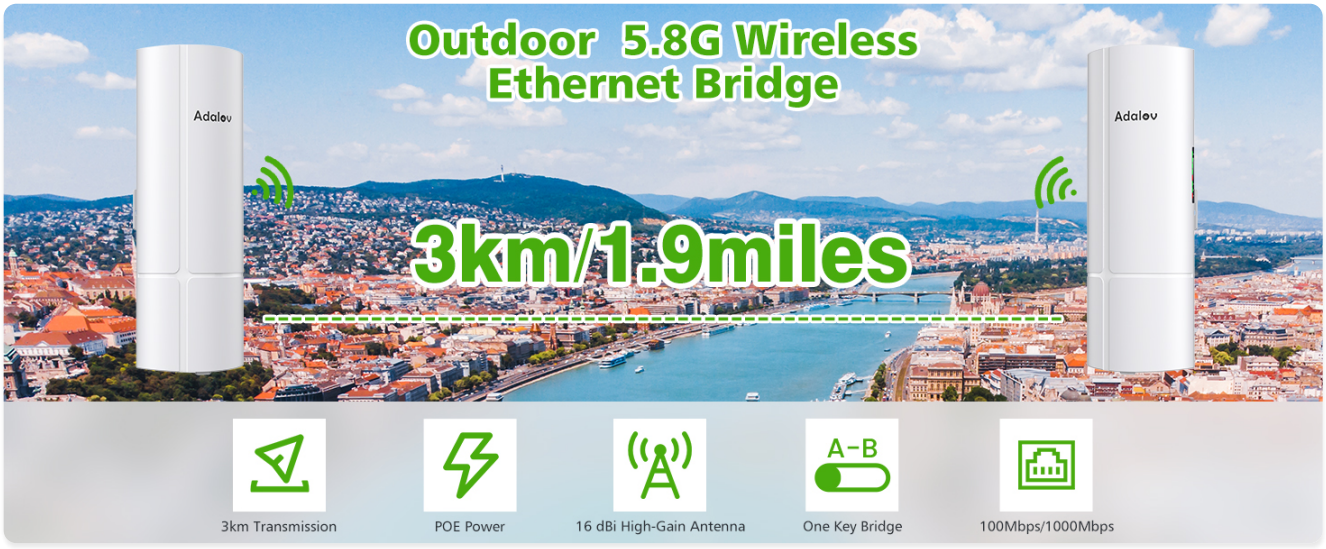

Image: Guidelines for optimal placement in a Point-to-Multipoint setup.

5. Operation and Applications

5.1 Network Extension (PTMP)

The CPE369 kit is designed to extend your network wirelessly over long distances. The Master CPE connects to your main network (e.g., router, ALDS), and the Slave CPEs provide network access at remote locations.

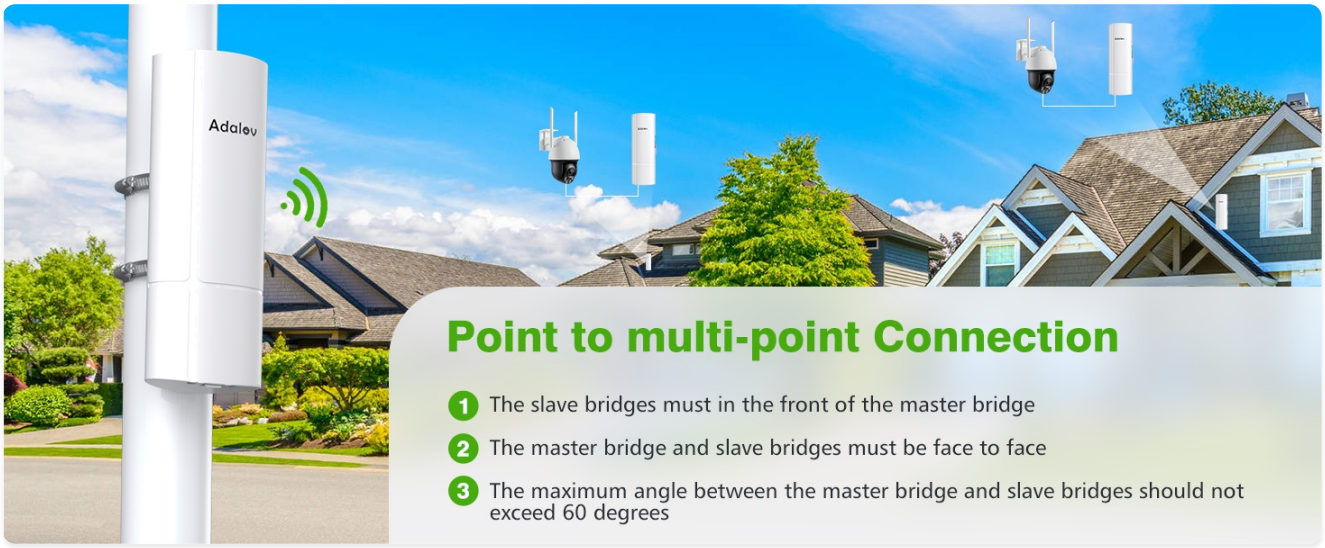

Image: Network extension diagram using CPE369 in PTMP mode.

5.2 Video Surveillance Transmission

The high-speed and low-latency capabilities of the CPE369 make it ideal for transmitting video streams from security cameras to a central monitoring system (DVR/NVR).

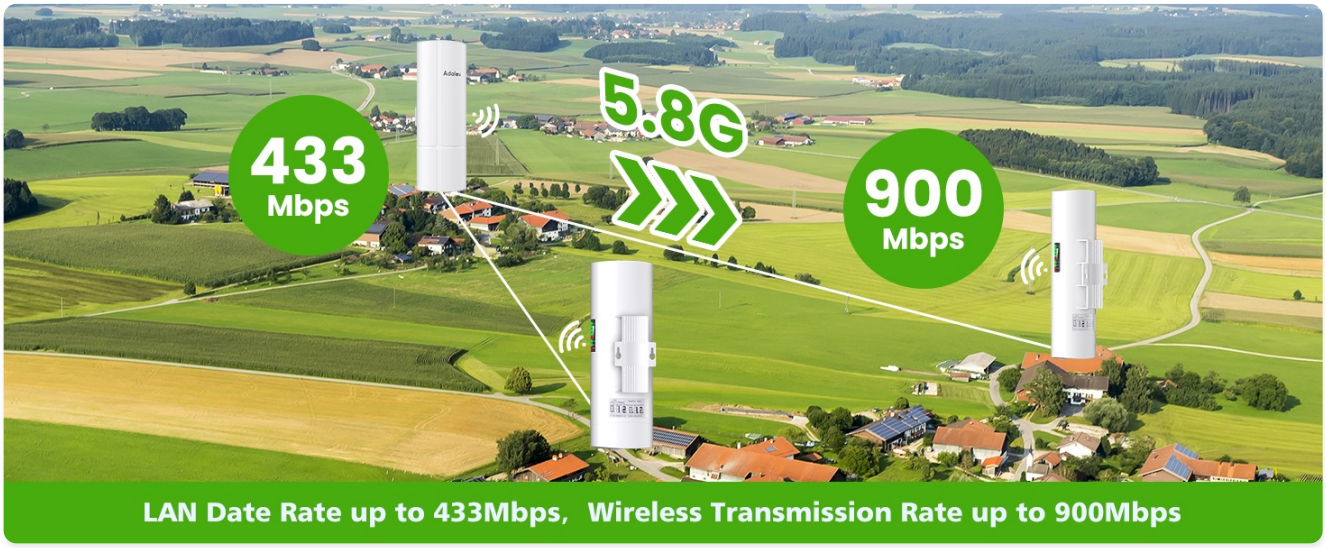

Image: Video surveillance transmission setup with CPE369.

5.3 Starlink Network Extension

The CPE369 can be used to extend Starlink internet service to areas where the Starlink router cannot reach directly, by placing the master bridge near the Starlink dish and extending the network to remote locations.

Image: Starlink network extension using CPE369.

5.4 General Applications

The CPE369 Wireless Bridge Kit is suitable for a wide range of outdoor applications, including:

- Farm and barn network extension
- Warehouse connectivity
- Building-to-building network links
- Garage network extension
- Connecting CCTV cameras
- Corporate WAN connections
- Internet access for remote locations
- Telecommunication masts

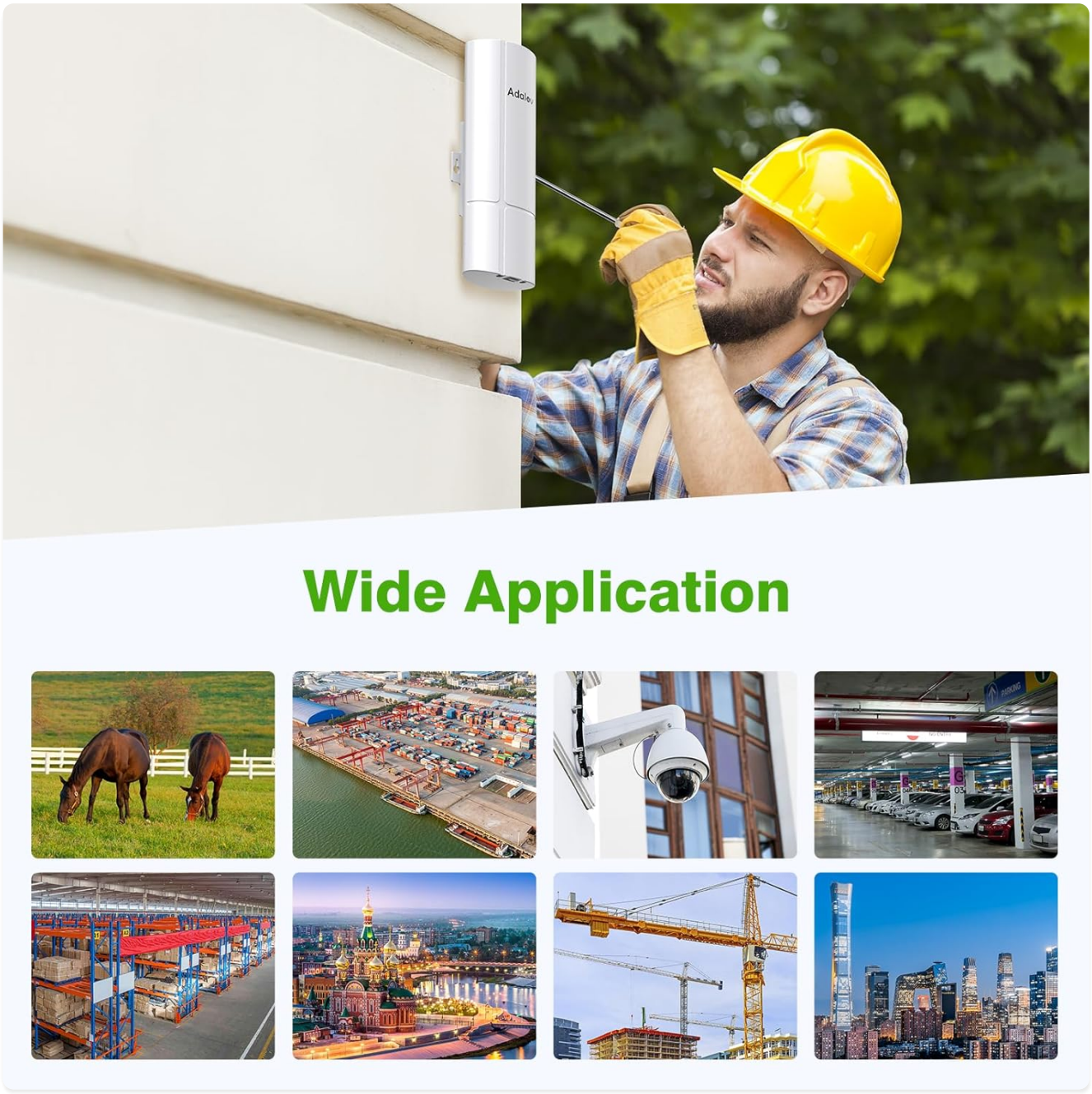

Image: Diverse application scenarios for the CPE369.

6. Maintenance

The AdaLov CPE369 is designed for minimal maintenance due to its robust IP65 outdoor rating. However, periodic checks can ensure optimal performance and longevity.

- **Physical Inspection:** Periodically inspect the units for any physical damage, loose mounts, or cable wear.
- **Clear Line of Sight:** Ensure that there are no new obstructions (e.g., growing trees, new buildings) blocking the line of sight between the bridges.
- **Cleaning:** If necessary, gently wipe the exterior of the units with a damp cloth to remove dirt or debris. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates to ensure the device operates with the latest features and security enhancements.

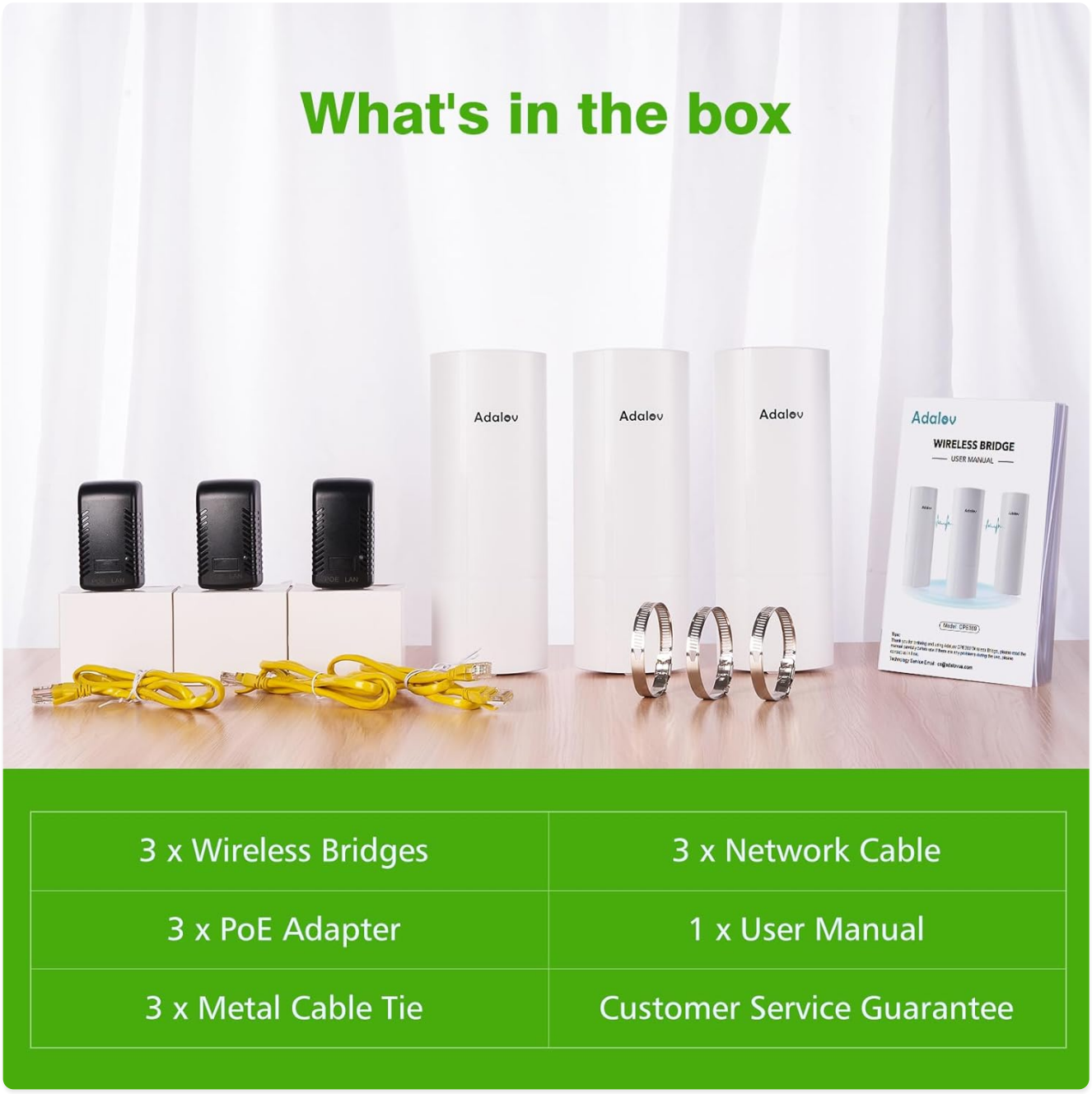

Image: The CPE369's IP65 rating ensures durability in various weather conditions.

7. Troubleshooting

Problem	Possible Cause	Solution
No Power Indicator Light	No power supply; Faulty POE adapter or cable.	Check power connection to POE adapter. Ensure Ethernet cable from POE adapter to CPE is securely connected. Test with a different POE adapter or cable if available.

Problem	Possible Cause	Solution
No Wireless Connection / Low Signal	Incorrect pairing; Obstruction in line of sight; Devices too far apart; Interference.	• Re-perform the dialing pairing process (Section 4.4). • Ensure clear line of sight between master and slave bridges. • Verify devices are within the 3KM range. • Check for strong interference sources (e.g., other 5.8GHz devices). • Adjust the angle of slave bridges to be within 60 degrees of the master.
Slow Network Speed	Poor signal quality; Network congestion; Cable issues.	• Check WLAN signal light for strong signal. Adjust alignment if needed. • Ensure connected devices are using the 1000Mbps LAN port for high-speed connections. • Verify network cables are Cat5e or Cat6 and in good condition.
Cannot Access Device Interface	Incorrect IP address; Network configuration issue.	Refer to the full user manual for default IP address and login details. Ensure your computer's IP address is in the same subnet as the device.

8. Technical Specifications

Feature	Specification
Model	CPE369
Brand	AdaLov
Frequency	5.8 GHz
Antenna Gain	16 dBi Directional
Wireless Standard	802.11a, 802.11ac, 802.11n
Data Transfer Rate (Wireless)	Up to 900 Mbps
LAN Data Rate	Up to 433 Mbps
LAN Ports	1 x 100Mbps, 1 x 1000Mbps Ethernet
Work Distance	Up to 3 KM (1.9 miles)
Power Supply	24V POE

Feature	Specification
IP Rating	IP65 Waterproof/Dustproof
Security Protocols	WEP64/128bits, WPA, WPA2, 802.1x
Operating System (Internal)	RouterOS
Product Dimensions	9 x 6.3 x 24.5 cm
Item Weight	1.97 kg (for the kit)

9. Warranty and Support

For warranty information and technical support, please refer to the official AdaLov website or contact their customer service directly. The product typically comes with a standard manufacturer's warranty covering defects in materials and workmanship.

Manufacturer: AdaLov

Place of Business: Room 1702, Unit 2, Building 10, Jingyuan Shengshihuadu, Qingfeng Street Middle Road Zhoukou City Chuanhui District 466000 Henan Province China

Please retain your proof of purchase for warranty claims.

Related Documents - CPE369

	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.