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AdaLov CPE366

AdaLov CPE366 Gigabit Wireless Bridge User Manual

Model: CPE366

Brand: AdaLov

Product Overview

The AdaLov CPE366 Gigabit Wireless Bridge is designed to provide robust and high-speed wireless connectivity over long distances. It operates on the 5.8GHz frequency band, offering excellent anti-interference capabilities and low latency, making it suitable for voice and video transmission. With both 100Mbps and 1000Mbps LAN ports, it significantly enhances data transfer rates, supporting seamless streaming, gaming, and large file transfers. The device is equipped with a 16dBi high-gain antenna, enabling point-to-point connections up to 3,000 meters (line of sight). Its IP65-rated design ensures durability in harsh weather conditions, making it ideal for extending networks to remote locations like farms, barns, warehouses, or for surveillance systems.



Figure 1: AdaLov CPE366 Gigabit Wireless Bridge

What's in the Box

The CPE366 package includes all necessary components for installation and operation:

- 2 x Gigabit Wireless Bridges
- 2 x PoE Adapters
- 2 x Mounting Brackets
- 2 x Small Metal Cable Ties
- 4 x Big Metal Cable Ties
- 2 x Network Cables
- 1 x User Manual



Figure 2: Package Contents

Key Features

- **Wide Application with 2 Adjustable Mount Brackets:** The CPE366 Wireless Bridge comes with two mounting pole kits that adjust vertically and horizontally, allowing for easy installation on walls or poles to ensure optimal signal positioning.
- **Seamless High-Speed Connectivity:** With both 100Mbps and 1000Mbps LAN ports that significantly enhances data transfer rates. This ultra-fast port allows for seamless streaming, gaming, and large file transfers. Ideal for modern networking needs.
- **3KM Long-Range Transmission:** The WiFi bridge, equipped with a 16dBi high-gain antenna, supports point-to-point connections up to 3,000 meters (Light of Sight). Ideal for factories, warehouses, and more, without the need for costly buried cables.
- **5.8GHz for High-Speed Connectivity:** The CPE366 operates on 5.8GHz, wireless delivering speeds up to 900Mbps and a LAN data rate of up to 433Mbps. It offers excellent anti-interference and low latency, making it ideal for voice and video transmission.
- **Multi-Functional CPE366 for Extensive Connectivity:** The AdaLov CPE366 supports PTP, PTMP, AP,

and Bridge modes, making it ideal for long-range wireless needs in industrial settings, rural areas, and construction sites.

- **Affordable Link Sharing:** The CPE366 is a cost-effective solution for connecting security cameras, Starlink, and buildings. It provides shared communication, maximizing channel efficiency and reducing the need for costly cable infrastructure.
- **IP65-Rated for Outdoor Durability:** With an IP65 waterproof and dustproof rating, the wireless bridge kit is ideal for harsh weather conditions. It extends your network to garages, barns, or surveillance systems with reliable Wi-Fi transmission.
- **Suitable for Various Scenarios:** The CPE366 extends networks to other properties (farms, garage, building-to-building), supports surveillance, and integrates with Starlink for seamless connectivity. It also allows for internet sharing with neighbors.
- **Effortless Network Expansion:** The wireless bridge supports 12V DC power (not included) and 24V POE with two included POE adapters, making it easy to deploy in remote locations without nearby power outlets and avoiding extensive network rewiring.

Setup & Installation

1. Unboxing and Component Identification

Upon opening the package, verify all components are present as listed in the 'What's in the Box' section. Familiarize yourself with the main units and accessories.

Your browser does not support the video tag. Please update your browser.

Video 1: Unboxing and overview of the AdaLov Wireless Bridge components.

2. Powering On and Initial Configuration

The CPE366 units are powered via Power over Ethernet (PoE) adapters. Each unit has two LAN ports (100Mbps and 1000Mbps) and a DC 12V input option. For typical setup, PoE is used.

1. **Connect PoE Adapter:** Plug one end of the provided network cable into the 'PoE' port of the PoE adapter.
2. **Connect to CPE366:** Plug the other end of the network cable from the PoE adapter into the desired LAN port (100Mbps or 1000Mbps) on the CPE366 unit.
3. **Power On:** Plug the PoE adapter into a wall outlet. The unit will begin to power on. This process may take up to two minutes for initialization.
4. **Set Master/Slave:** Each CPE366 unit has a switch to designate it as a 'Master' (A) or 'Slave' (B) unit. For a point-to-point connection, one unit must be set to 'A' and the other to 'B'. For point-to-multipoint, one unit is 'Master' (A) and all others are 'Slave' (B).
5. **Channel Selection:** Use the reset button on the unit to scroll through the available channels (indicated by a digital display). Ensure the Master and Slave units are set to the same channel for communication.



Figure 3: CPE366 Ports and Digital Display

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Video 2: Demonstrating power connection and channel selection on the CPE366 unit.

3. Mounting the Units

The CPE366 comes with adjustable mounting brackets for flexible installation on walls or poles. The brackets feature a U-shaped metal plate that can be removed for flat surface mounting or used with hose clamps for pole mounting.

1. **Attach Bracket to Unit:** Secure the CPE366 unit to its respective mounting bracket.
2. **Choose Mounting Method:**
    - *For Pole Mounting:* Use the provided metal hose clamps to secure the bracket to a pole. The U-shaped plate helps prevent slippage.
    - *For Wall Mounting:* Remove the U-shaped metal plate from the bracket. Use appropriate screws (not included) to directly mount the bracket to a flat wall surface.
3. **Adjust Angle:** Adjust the angle of the mounted unit to ensure a clear line of sight between the Master and

Slave units for optimal signal strength.



Figure 4: Mounting Bracket Details

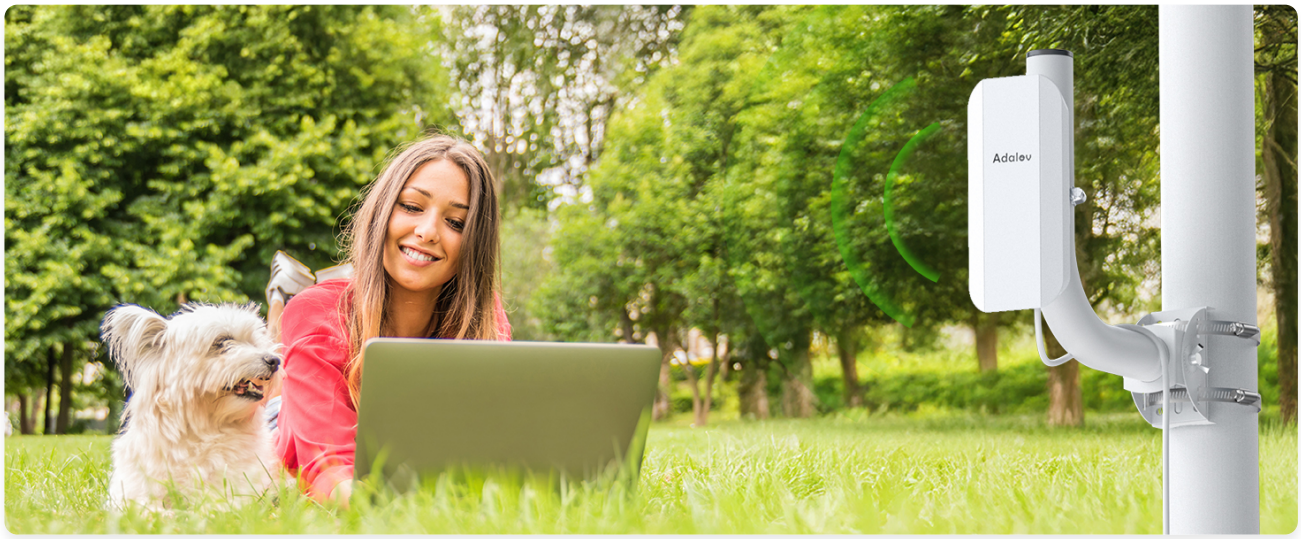


Figure 5: Example of outdoor installation.

Operating Modes

The AdaLov CPE366 supports multiple operating modes to suit various networking needs:

- **Point-to-Point (PTP) Mode:** Connects two locations wirelessly, extending network access over long distances. Ideal for building-to-building connections.
- **Point-to-Multipoint (PTMP) Mode:** A single Master unit communicates with multiple Slave units, allowing network extension to several remote locations.
- **AP (Access Point) Mode:** The unit acts as a wireless access point, broadcasting a Wi-Fi signal for devices to connect to.
- **Bridge Mode:** Connects two wired networks wirelessly, acting as a transparent bridge.

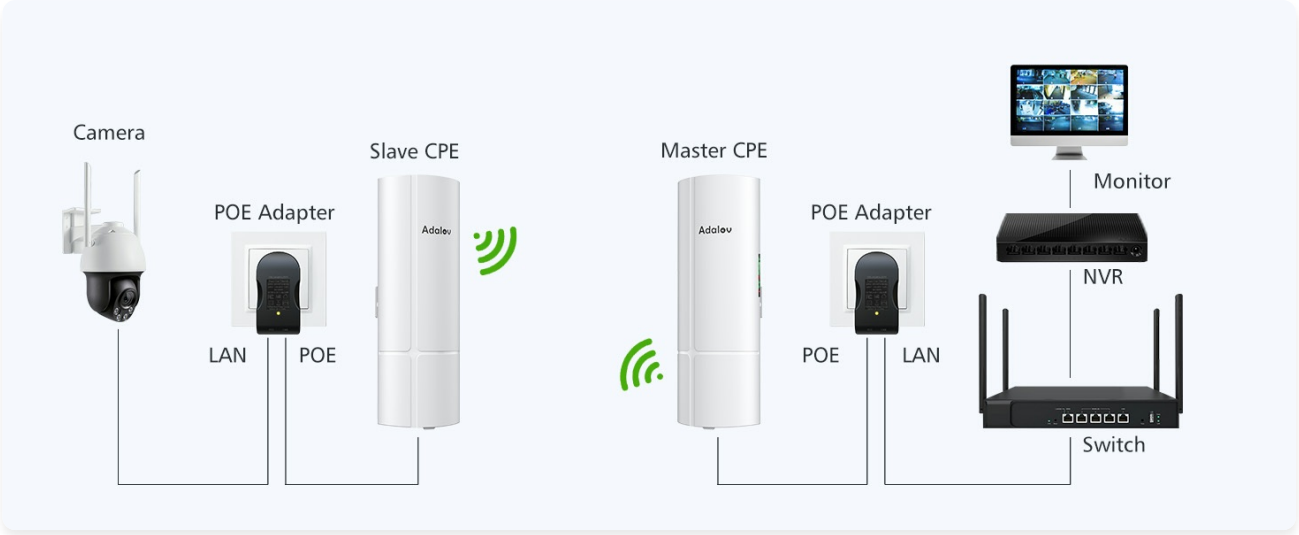


Figure 6: Point-to-Point (PTP) Connection

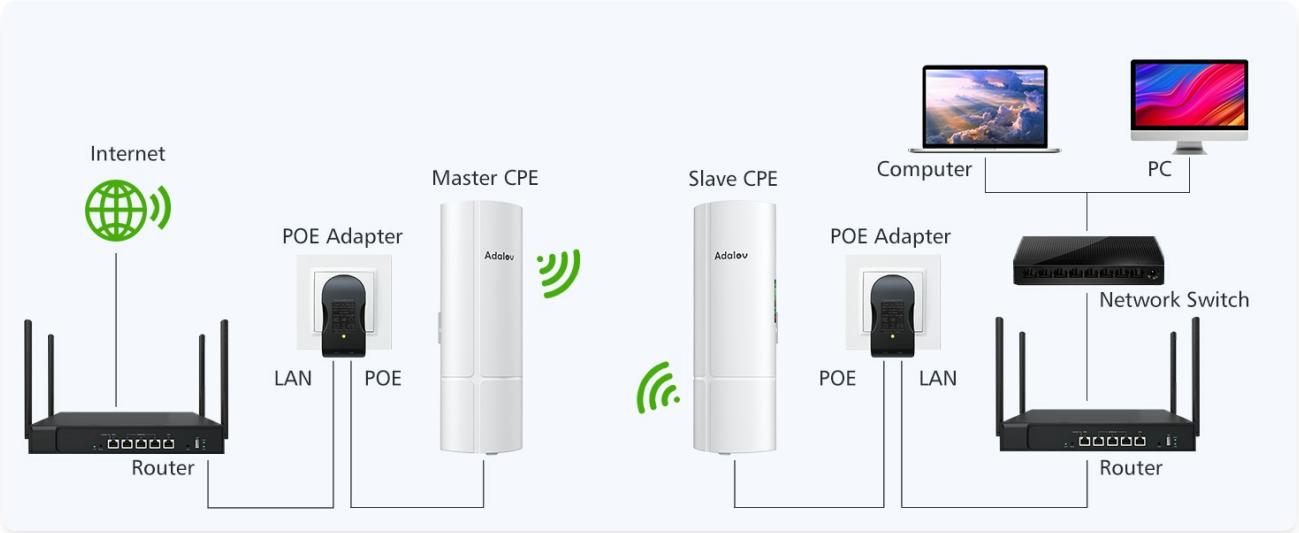


Figure 7: Point-to-Multipoint (PTMP) Connection

Specifications

Attribute	Value
Model Name	CPE366 Gigabit Wireless Bridge with Mounts

Frequency Band Class	Single-Band (5.8 GHz)
Wireless Communication Standard	802.11a, 802.11ac, 802.11n
LAN Ports	100Mbps, 1000Mbps
Antenna Gain	16dBi
Transmission Range	Up to 3KM (Light of Sight)
Waterproof Rating	IP65
Power Support	12V DC (not included), 24V PoE
Operating Modes	PTP, PTMP, AP, Bridge

Troubleshooting

- **No Power:** Ensure the PoE adapter is correctly connected to the CPE366 unit and plugged into a working power outlet. Check the power indicator light on the PoE adapter.
- **No Signal/Poor Signal:**
  - Verify clear line of sight between the Master and Slave units. Obstructions like trees or buildings can significantly degrade signal quality.
  - Ensure both units are set to the same channel and the correct Master/Slave configuration.
  - Adjust the mounting angles of both units for optimal alignment.
- **No Internet Access:**
  - Check the network cable connections from the CPE366 to your router/network switch.
  - Verify your main internet source (router, modem) is functioning correctly.
  - Ensure the CPE366 units have successfully established a wireless link (check signal strength indicators).
- **Slow Speed:**
  - Confirm both CPE366 units are connected via the 1000Mbps LAN ports if gigabit speeds are desired.
  - Minimize interference from other 5GHz devices in the area.
  - Ensure optimal alignment and clear line of sight.

Safety Information

- Ensure proper grounding for outdoor installations to protect against lightning and electrical surges.
- Do not open or attempt to repair the device. Refer to qualified personnel for servicing.
- Keep the device away from excessive heat, moisture, and corrosive environments.
- Use only the provided PoE adapters to power the units.
- Follow all local electrical codes and safety regulations during installation.

Warranty and Support

The AdaLov CPE366 Gigabit 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 the contact information provided in your product documentation or on the official AdaLov website.

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