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## UeeVii CPE242

# UeeVii 2.4G Wireless Bridge User Manual

Model: CPE242

## PRODUCT OVERVIEW

The UeeVii 2.4G Wireless Bridge is designed to extend your network wirelessly over long distances, providing stable and reliable internet connectivity to remote locations. This device is suitable for various outdoor applications, including extending network coverage to outbuildings, surveillance systems, and connecting distant properties.



Image: Two UeeVii wireless bridge units, designed for point-to-point wireless connectivity.

## Key Features

- **Long-Range Transmission:** Extends network range up to 1 Km (3281 ft) for seamless point-to-point WiFi coverage.
- **Stable 2.4GHz Frequency:** Offers reliable and interference-resistant coverage with speeds up to 300Mbps, suitable for basic internet use and light streaming.
- **IP65 Waterproof Rating:** Built with a durable enclosure to withstand harsh weather conditions, ideal for outdoor installations.
- **Easy Plug-and-Play Setup:** Pre-configured for simple installation; devices automatically re-pair after power interruptions.
- **PoE Power Supply:** Supports 24V Power over Ethernet for convenient and safer installation in locations without direct electrical outlets.

## WHAT'S INCLUDED

The UeeVii 2.4G Wireless Bridge package contains all necessary components for a standard installation:



Image: All components included in the UeeVii Wireless Bridge package.

- 2 x UeeVii Wireless Bridge Units
- 2 x PoE Power Adapters
- 2 x Ethernet Cables
- 2 x Mounting Brackets
- 4 x Stainless Steel Cable Ties
- Mounting Screws and Wall Anchors
- 1 x Quick Start Guide

### TECHNICAL SPECIFICATIONS

| Feature | Specification |
|---------|---------------|
| Brand   | UeeVii        |

|                                 |                               |
|---------------------------------|-------------------------------|
| Model Name                      | CPE242                        |
| Frequency Band Class            | Single-Band (2.4 GHz)         |
| Wireless Communication Standard | 802.11b                       |
| Connectivity Technology         | Ethernet                      |
| Working Distance                | Up to 1 KM (3281 ft)          |
| Power Supply                    | 24V POE                       |
| Waterproof Rating               | IP65                          |
| Item Weight                     | 5.1 pounds                    |
| Package Dimensions              | 13.19 x 8.31 x 7.24 inches    |
| Recommended Uses                | Monitoring, Network Extension |

## INSTALLATION AND SETUP

### Pre-configuration and Pairing

The UeeVii Wireless Bridge units are designed for easy setup. They come pre-configured for plug-and-play operation. One unit acts as the 'Master' (AP mode) and the other as the 'Slave' (STA mode). Ensure the switch on the unit connected to your main network (router/modem) is set to 'AP' (Master), and the unit at the remote location is set to 'STA' (Slave).



Image: PoE Port and WLAN Port detail, illustrating power and data connection.



Image: Display showing 'H' for Master, 'C' for Slave, and channel number.

To pair the devices, follow these steps:

1. Set one unit to 'H' (Master bridge) using the internal switch.
2. Set the other unit to 'C' (Slave bridge) using the internal switch.
3. With both units powered on and connected via their PoE adapters, press the reset button on both units simultaneously.
4. The units will pair successfully when their displays show the same channel number.



Image: Step-by-step visual guide for pairing the wireless bridge units.

## Physical Installation

Mount the units in a location that provides a clear line of sight between them for optimal performance. The IP65 waterproof rating ensures durability in various outdoor conditions.



Image: Example of an outdoor installation on a building exterior.

## OPERATING INSTRUCTIONS

### Extending Network to Outbuildings

The UeeVii Wireless Bridge is ideal for extending your existing network to detached structures such as barns, garages, shops, or even a neighbor's house, eliminating the need for long cable runs.





Image: Various application scenarios for network extension.



Image: Wireless bridge connecting two houses over a distance.

## Starlink Integration

Easily integrate the UeeVii Wireless Bridge with your Starlink system to extend high-speed internet to other buildings on your property.





Image: Diagram illustrating how to set up the wireless bridge with Starlink.



Image: Real-world example of Starlink network extension.

## Surveillance System Extension

Extend your surveillance network to cover wider areas by using the wireless bridge to connect IP cameras or NVRs located at a distance from your main network.

# For House Driveway Surveillance



Image: Wireless bridge used for house driveway surveillance.

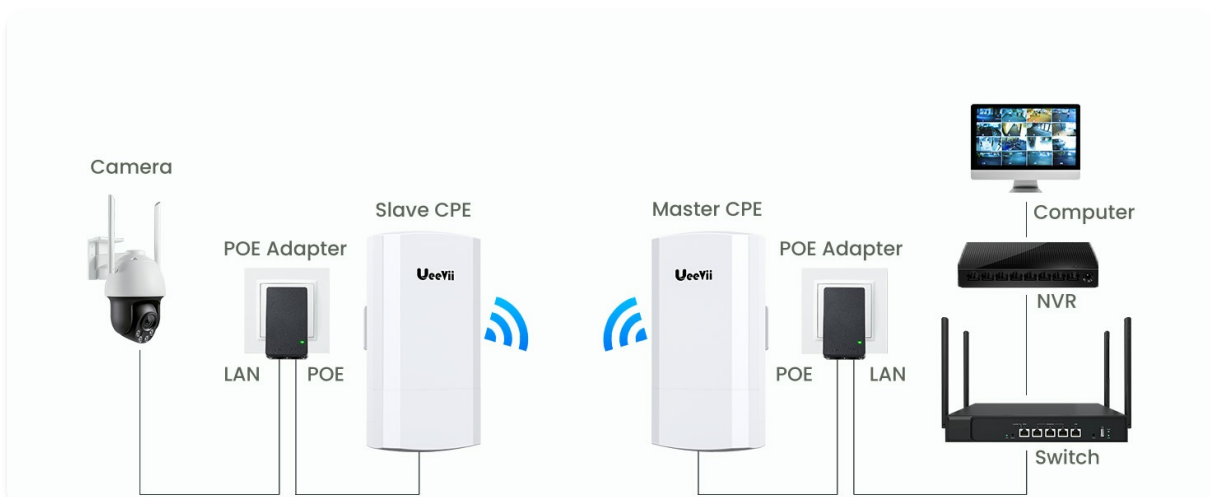


Image: Diagram for extending a surveillance network.

## General Network Extension

The wireless bridge acts as an invisible Ethernet cable, transmitting network signals wirelessly to provide internet access where traditional cabling is impractical.







# 2.4G Diffraction Transmission

200 yd working distance can penetrate 1 wall



Image: 2.4G Diffraction Transmission capability, showing signal penetration.

## MAINTENANCE

The UeeVii Wireless Bridge is designed for minimal maintenance due to its robust IP65 waterproof and weather-resistant construction. To ensure optimal performance:

- Periodically check that the units maintain a clear line of sight, free from new obstructions like growing trees or structures.
- Ensure mounting hardware remains secure, especially after severe weather conditions.
- No internal cleaning or user-serviceable parts are required.



Image: Illustrating the IP65 waterproof rating and weather resistance.

## TROUBLESHOOTING

If you encounter issues with your UeeVii Wireless Bridge, consider the following common solutions:

- **No Connection/Failure to Pair:**

- Verify that both units are powered on and receiving power via their PoE adapters.
- Ensure the Master unit is set to 'H' (AP) and the Slave unit is set to 'C' (STA).
- Confirm that the Ethernet cables are securely connected and are capable of PoE.
- Perform the pairing process again by pressing the reset button on both units simultaneously.
- Check for a clear line of sight between the two units. Any obstructions can significantly degrade performance.

- **Intermittent Connection:**

- Ensure the units are firmly mounted and not susceptible to movement from wind.
- Check for new physical obstructions that may have appeared in the line of sight.



- Verify that the PoE adapters are functioning correctly and providing stable power.
- **Slow Speeds:**
  - Confirm a clear line of sight. Even partial obstructions can reduce throughput.
  - Ensure the units are aligned as precisely as possible towards each other.
  - Check for potential 2.4GHz interference from other wireless devices in the area.
- **Indicator Lights Dim:**
  - The indicator lights can appear dim in bright daylight. Cup your hands around them to verify their status.

## SUPPORT INFORMATION

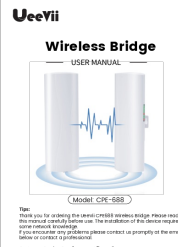

For further assistance, technical support, or warranty inquiries, please contact UeeVii customer service:

**Email:** [support@ueevii.com](mailto:support@ueevii.com)

Please include your product model (CPE242) and a detailed description of your issue when contacting support to ensure a prompt resolution.

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## Related Documents - CPE242

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|---|---|
|  <p><b>UeeVii</b><br/><b>Wireless Bridge</b><br/>USER MANUAL<br/>Model: CPE-688</p> <p><small>Note:<br/>Thank you for ordering the latest CPE688 wireless bridge. Please read this manual carefully before use. The installation of the device requires some electrical knowledge.<br/>If you encounter any problems, please contact us promptly at the email below for further assistance.<br/>Customer Service Email: support@ueevii.com</small></p> | <p><a href="#">UeeVii CPE688 Wireless Bridge User Manual - 5.8GHz Long-Range Network Extender</a></p> <p>Comprehensive user manual for the UeeVii CPE688 Wireless Bridge, detailing installation, configuration, troubleshooting, and specifications for 5.8GHz long-range point-to-point and point-to-multipoint network extension.</p>  |
|  <p><b>UeeVii</b><br/><b>WIRELESS BRIDGE</b><br/>User Manual<br/>Model: CPE58G</p> <p><small>Note:<br/>Thank you for ordering the latest CPE58G wireless bridge. Please read this manual carefully before use. If there are any problems during the use, please contact us for help.<br/>Customer Service Email: support@ueevii.com</small></p>  | <p><a href="#">UeeVii CPE58G Wireless Bridge User Manual - Setup, Specs, and Troubleshooting</a></p> <p>Official user manual for the UeeVii CPE58G 5G high-performance outdoor wireless bridge. Covers product introduction, features, specifications, interface details, button operations, quick start guide, installation, application cases, advanced settings, and troubleshooting for optimal network connectivity.</p> |



UeeVii

## Wireless Bridge

— Quick Start Guide—



Model: CPE242

**Note:**

A. Thank you for order and using our product, please read the manual carefully before use. If there are any problems during the use, please contact us in time.

Customer Service Email: support@ueevii.com

### [\[pdf\]](#) User Manual Quick Start Guide

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