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UeeVii CPE5824WR

UeeVii Dual-Band Wireless Bridge Router Kit

Model: CPE5824WR / 124CA-CPE5824KIT

Instruction Manual

1. Introduction

The UeeVii Dual-Band Wireless Bridge Router Kit is designed to extend network connectivity wirelessly over long distances, up to 5 kilometers. This kit provides a reliable and stable network extension solution for various outdoor environments, including barns, shops, and remote areas. It features dual-band (2.4G and 5.8G) wireless bridges and includes a high-performance WiFi 6 router for comprehensive network coverage.
The system is IP65-rated, ensuring weather resistance for outdoor deployment, and offers a plug-and-play setup for ease of use.

Image 1.1: The UeeVii Wireless Bridge system can extend network connectivity over distances up to 5 kilometers, providing barrier-free wireless freedom.

2. Package Contents

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

- 2 x CPE5824 Dual-band Wireless Bridge Units
- 2 x 24V PoE Adapters
- 2 x Test Network Cables
- 1 x Wireless Bridge User Manual (this document)
- 1 x AX3000 WiFi 6 Router

Image 2.1: All components included in the UeeVii Dual-Band Wireless Bridge Router Kit.

3. Product Overview

3.1. CPE5824 Dual-Band Wireless Bridge Units

The CPE5824 units are the core components for long-range wireless transmission. They support both 2.4GHz and 5.8GHz frequency bands, offering flexibility for different network requirements. The 5.8GHz band provides high-speed transmission up to 900Mbps, suitable for streaming and gaming, while the 2.4GHz band offers stable connections over longer ranges at up to 300Mbps.

- **Dual 100/1000Mbps RJ45 Ports:** Ensures high-speed wired connectivity.
- **14dBi High-Gain Antenna:** Focuses the signal for maximum efficiency and range.
- **IP65 Weatherproof Rating:** Protects against dust, rain, and extreme temperatures.
- **Power Options:** Supports 12V DC and 24V Passive PoE for flexible installation.

Image 3.1: The CPE5824 bridge units support both 5.8GHz for high-speed data and 2.4GHz for extended range.

3.2. AX3000 WiFi 6 Router

The included AX3000 WiFi 6 router provides wide wireless coverage and high-speed internet access within your local area network. It features a 6-antenna design for enhanced signal strength and reliability.

- **WiFi 6 Standard:** Offers improved speed, efficiency, and capacity.
- **Dual-Band Operation:** Supports 2.4GHz and 5GHz for versatile device connectivity.
- **Multiple Ports:** Includes a 2Gbps WAN port and 1Gbps LAN ports for high-speed wired connections.

Image 3.2: The AX3000 WiFi 6 router provides extensive wireless coverage.

4. Setup Instructions

The UeeVii Wireless Bridge Router Kit is designed for straightforward installation. The bridge units are pre-configured for a plug-and-play experience. If reconfiguration is necessary, pairing can be done using a simple dial mechanism.

4.1. Physical Installation and Power

The CPE5824 wireless bridge units can be mounted on poles or walls using the included hoops. Ensure a clear line of sight between the two bridge units for optimal performance.

- **Pole Mounting:** Use the provided hoops to secure the unit to a pole.
- **Wall Mounting:** Attach the unit securely to a wall.

Power can be supplied via the included 24V PoE adapters or a 12V DC power source.

Image 4.1: The CPE units can be powered via 12V DC or 24V Passive PoE.

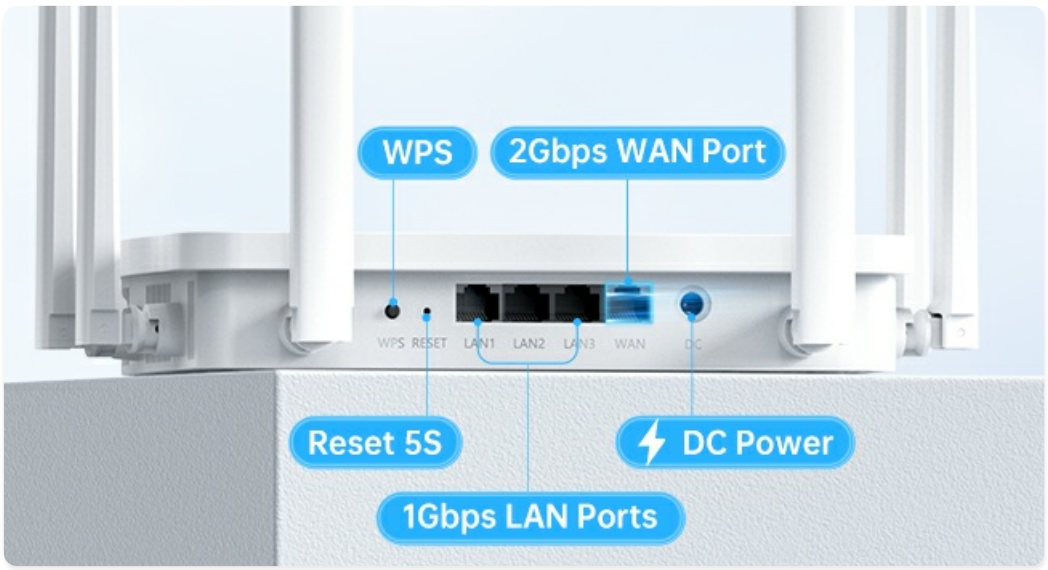

Image 4.2: An example of a CPE unit mounted on a pole for outdoor use.

4.2. Configuring the Bridge Units

The CPE units feature A/B dials for easy pairing and mode selection. Refer to the specific instructions on the device or the quick start guide for detailed dial settings if manual configuration is required.

Image 4.3: The CPE units feature LAN ports, a DC power input, and A/B dials for configuration.

4.3. Connection Scenarios

4.3.1. Point-to-Point (P2P) Connection

This setup extends your existing network from one location to another, acting as a wireless Ethernet cable.

1. Connect the **Master CPE** to your existing modem or router's LAN port using an Ethernet cable. Power the Master CPE via its PoE adapter.
2. Position the **Slave CPE** at the remote location, ensuring it has a clear line of sight to the Master CPE.
3. Connect the Slave CPE to the WAN port of the included**AX3000 Router** using an Ethernet cable. Power the Slave CPE via its PoE adapter.
4. The AX3000 Router will then provide Wi-Fi and wired network access at the remote location.

Image 4.4: Point-to-Point connection diagram for extending a home network.

4.3.2. Starlink Signal Extension

This kit is designed for extending Starlink V2/V3 signals to remote areas.

1. Connect the **Master CPE** to your Starlink Router using a Starlink RJ45 Adapter and an Ethernet cable. Power the Master CPE via its PoE adapter.
2. Position the **Slave CPE** at the remote location (e.g., barn, garage), ensuring a clear line of sight to the

Master CPE.

3. Connect the Slave CPE to the WAN port of the included**AX3000 Router** using an Ethernet cable. Power the Slave CPE via its PoE adapter.
4. The AX3000 Router will then provide Wi-Fi and wired network access, extending your Starlink coverage.

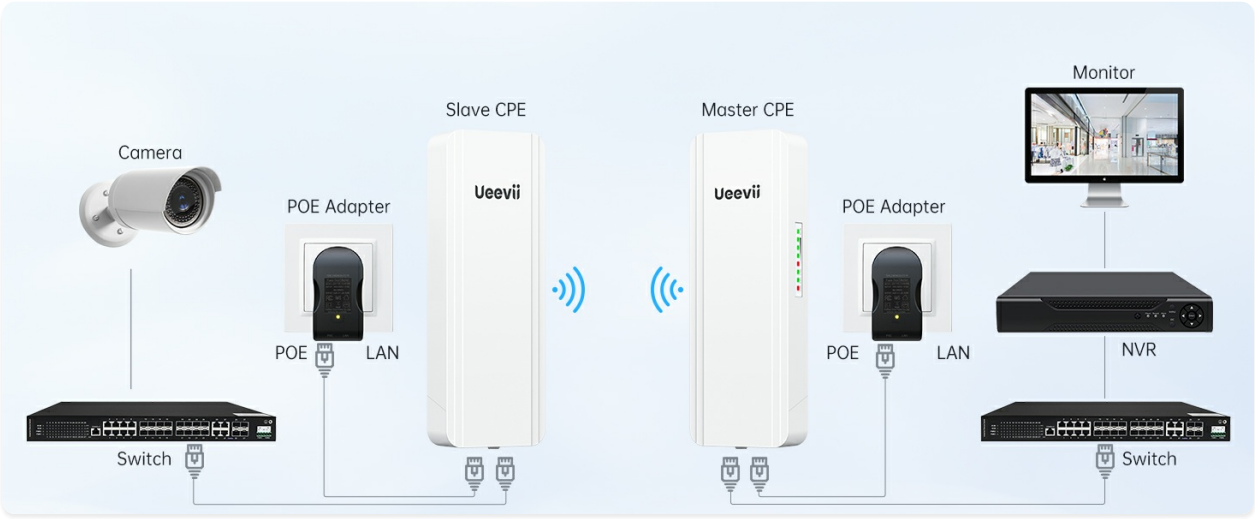

Image 4.5: Starlink signal extension setup diagram.

4.3.3. Point-to-Multipoint (P2MP) Connection

For connecting multiple remote devices, such as security cameras, to a central network point.

1. Connect the **Master CPE** to your network (e.g., NVR, switch) via its PoE adapter.
2. Deploy multiple **Slave CPEs** at various remote locations, each connected to a device (e.g., a security camera).
3. Ensure all Slave CPEs are within the 60-degree transmission angle of the Master CPE and have a clear line of sight.

Image 4.6: Point-to-Multipoint connection diagram for security cameras.

5. Operating Instructions

5.1. LED Indicators

The CPE units feature LED indicators to show signal strength and operational status. Refer to the device's quick start guide for a detailed explanation of LED patterns.

5.2. Web User Interface (Web UI)

For advanced configuration and monitoring, the devices can be accessed via a web-based user interface. Connect a computer to the LAN port of the CPE or the AX3000 router, then open a web browser and enter the default IP address (usually found in the quick start guide or on the device label).

Image 5.1: The Web UI allows for detailed configuration and monitoring of the wireless bridge system.

6. Maintenance

The UeeVii Wireless Bridge units are designed for durability in outdoor conditions.

- **Weather Resistance:** The IP65-rated casing provides robust protection against dust, rain, and extreme temperatures (-20°C to 65°C / -4°F to 149°F). It is also anti-UV and anti-aging.
- **Regular Inspection:** Periodically check the physical condition of the units and mounting hardware for

any signs of damage or loose connections.

- **Clear Line of Sight:** Ensure that there are no new obstructions (e.g., growing trees, new buildings) that could block the line of sight between the bridge units, as this can degrade performance.

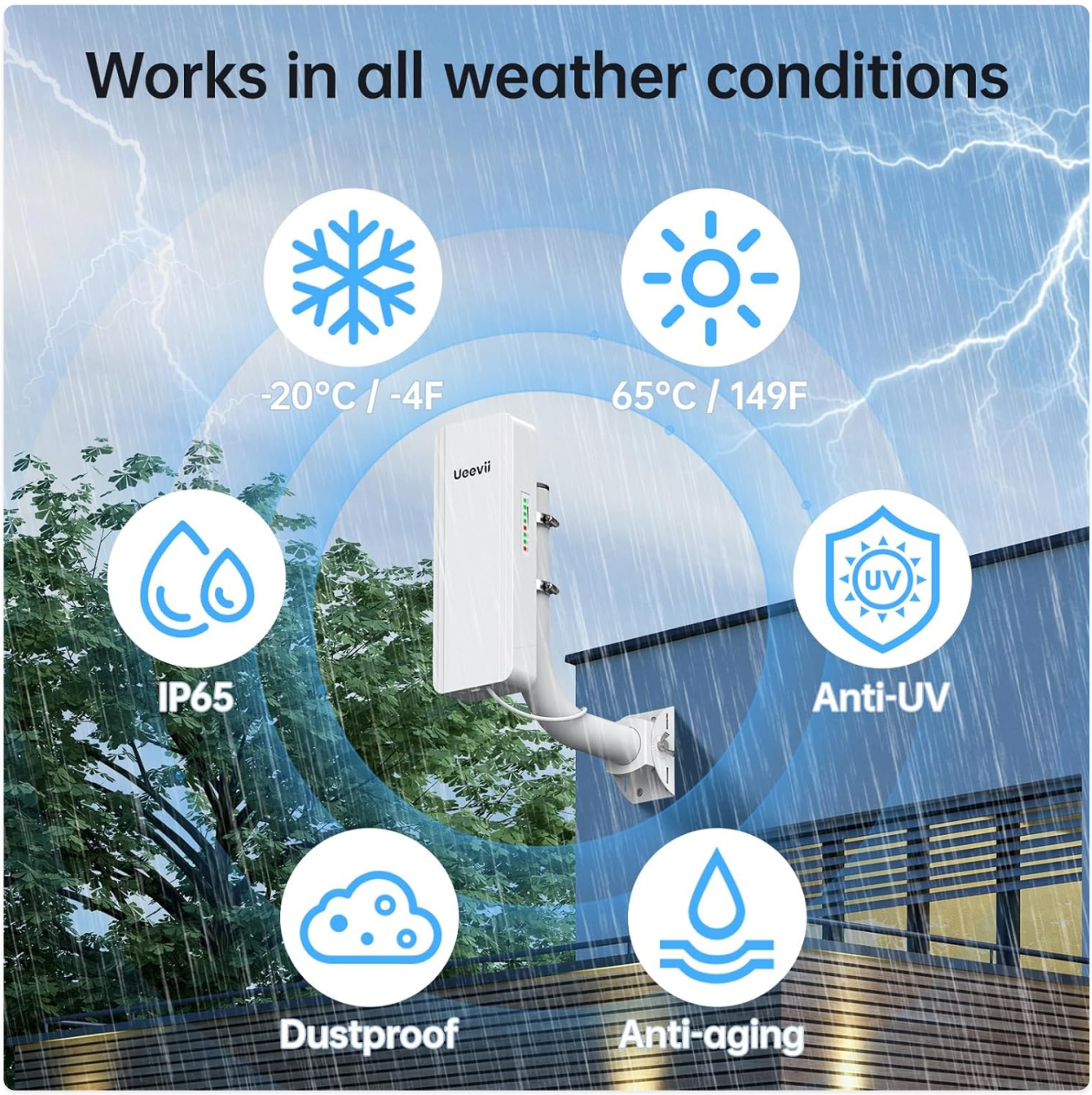

Image 6.1: The CPE units are built to withstand various weather conditions.

7. Troubleshooting

- **No Network Connection:**
  - Verify all Ethernet cables are securely connected.
  - Ensure both CPE units and the router are powered on.
  - Check the LED indicators on the CPE units for signal strength and link status.
  - Confirm a clear line of sight between the Master and Slave CPE units.
- **Slow Network Speed:**
  - Check for any new obstructions between the CPE units.

- Ensure the CPE units are aligned correctly for optimal signal.
- Reduce interference by checking for other wireless devices operating on similar frequencies.

- **Starlink Connectivity Issues:**
  - If using a Starlink system, ensure you are using an official Starlink RJ45 adapter. Aftermarket adapters may cause compatibility issues.
- **Resetting Devices:**
  - Both the CPE units and the AX3000 router have reset buttons. A long press (typically 5 seconds) can restore factory default settings if needed for troubleshooting.

8. Specifications

Brand	UeeVii
Model Name	CPE5824WR
Item Model Number	124CA-CPE5824KIT
Product Dimensions	3.5 x 2 x 9.6 inches
Item Weight	4.6 pounds
Manufacturer	UeeVii
Frequency Band Class	Dual-Band (2.4GHz, 5.8GHz)
Wireless Communication Standard	802.11a, 802.11ac, 802.11g, 802.11n (CPE); WiFi 6 (Router)
Connectivity Technology	5G, Ethernet, Wi-Fi
Special Features	Access Point Mode, Internet Security, LED Indicator, Weatherproof
Compatible Devices	Personal Computer, Printer, Security Camera, Smart Thermostat, Smartphone
Recommended Uses	Business, Gaming, Home, Indoor/Outdoor

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or visit the official UeeVii website. Contacting UeeVii customer support is recommended for any issues not resolved by the troubleshooting steps provided in this manual.

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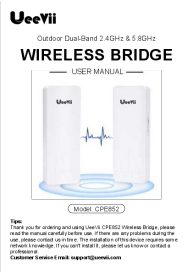
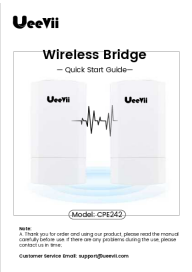
Related Documents - CPE5824WR

	UeeVii CPE852 Outdoor Dual-Band Wireless Bridge User Manual Comprehensive user manual for the UeeVii CPE852 Outdoor Dual-Band Wireless Bridge. Learn about installation, configuration, specifications, troubleshooting, and application cases for extending network range up to 5KM.
	UeeVii CPE688 Wireless Bridge User Manual - 5.8GHz Long-Range Network Extender 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.
	UeeVii CPE990 Wireless Bridge User Manual: Setup, Configuration, and Troubleshooting Comprehensive user manual for the UeeVii CPE990 5.8GHz Wireless Bridge. Learn about installation, pairing, advanced settings, WiFi configuration, and troubleshooting for extending network range and surveillance camera connectivity.
	UeeVii CPE242 Wireless Bridge Quick Start Guide This guide provides essential information for setting up and configuring the UeeVii CPE242 Wireless Bridge, covering product introduction, specifications, installation, and advanced settings for reliable wireless connectivity.
	UeeVii UAP180 Wireless Access Point User Manual Comprehensive user manual for the UeeVii UAP180 outdoor high-power Gigabit Wireless Access Point. Covers product description, functions, package contents, interfaces, quick start guide, advanced settings, working modes, installation, specifications, and troubleshooting.
	UeeVii CPE58G Wireless Bridge User Manual - Setup, Specs, and Troubleshooting 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.