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UeeVii CPE450, WR3000K

UeeVii CPE450 Wireless Bridges & WR3000K WiFi Router User Manual

Model: CPE450, WR3000K

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the UeeVii CPE450 Wireless Bridges (4-Pack) and WR3000K WiFi Router (1 Set). This comprehensive network suite is designed to extend your network wirelessly over long distances and provide robust indoor Wi-Fi coverage.

The UeeVii CPE450 wireless bridges enable point-to-point wireless network expansion, ideal for connecting remote buildings or areas without direct cable access. The WR3000K WiFi 6 router enhances signal coverage and data efficiency within your home or office.



Figure 1.1: UeeVii CPE450 Wireless Bridges (4 units) and WR3000K WiFi Router (1 unit) included in the set.

2. PACKAGE CONTENTS

- 4 x UeeVii CPE450 Wireless Bridges (2 sets of 2 bridges)

- 1 x UeeVii WR3000K Dual Band WiFi6 WiFi Router
- Associated Power Adapters (PoE adapters for bridges)
- User Manual (this document)

3. SETUP INSTRUCTIONS

3.1. CPE450 Wireless Bridge Setup (Point-to-Point)

The CPE450 bridges are designed for outdoor point-to-point wireless connections. One bridge acts as the 'Master' and the other as the 'Slave'.

1. **Mounting:** Securely mount the CPE450 bridges in desired outdoor locations, ensuring a clear line of sight between the Master and Slave units for optimal performance. The bridges are IP65 waterproof for outdoor use.
2. **Powering via PoE:** Connect the PoE adapter to the CPE450 bridge. The LAN1 port supports non-standard 24V/48V PoE, and LAN2 supports standard 48V PoE.
3. **Master Bridge Connection:**
 - Connect the LAN port of the Master CPE450's PoE adapter to your existing router or network switch.
4. **Slave Bridge Connection:**
 - Connect the LAN port of the Slave CPE450's PoE adapter to your desired network device (e.g., computer, switch, or the WR3000K router).
5. **Configuration:** The bridges are typically pre-configured for point-to-point operation. If manual configuration is required, refer to the advanced settings section (not covered in this basic manual, refer to manufacturer's website for detailed firmware configuration).

Extend Network to Other Place

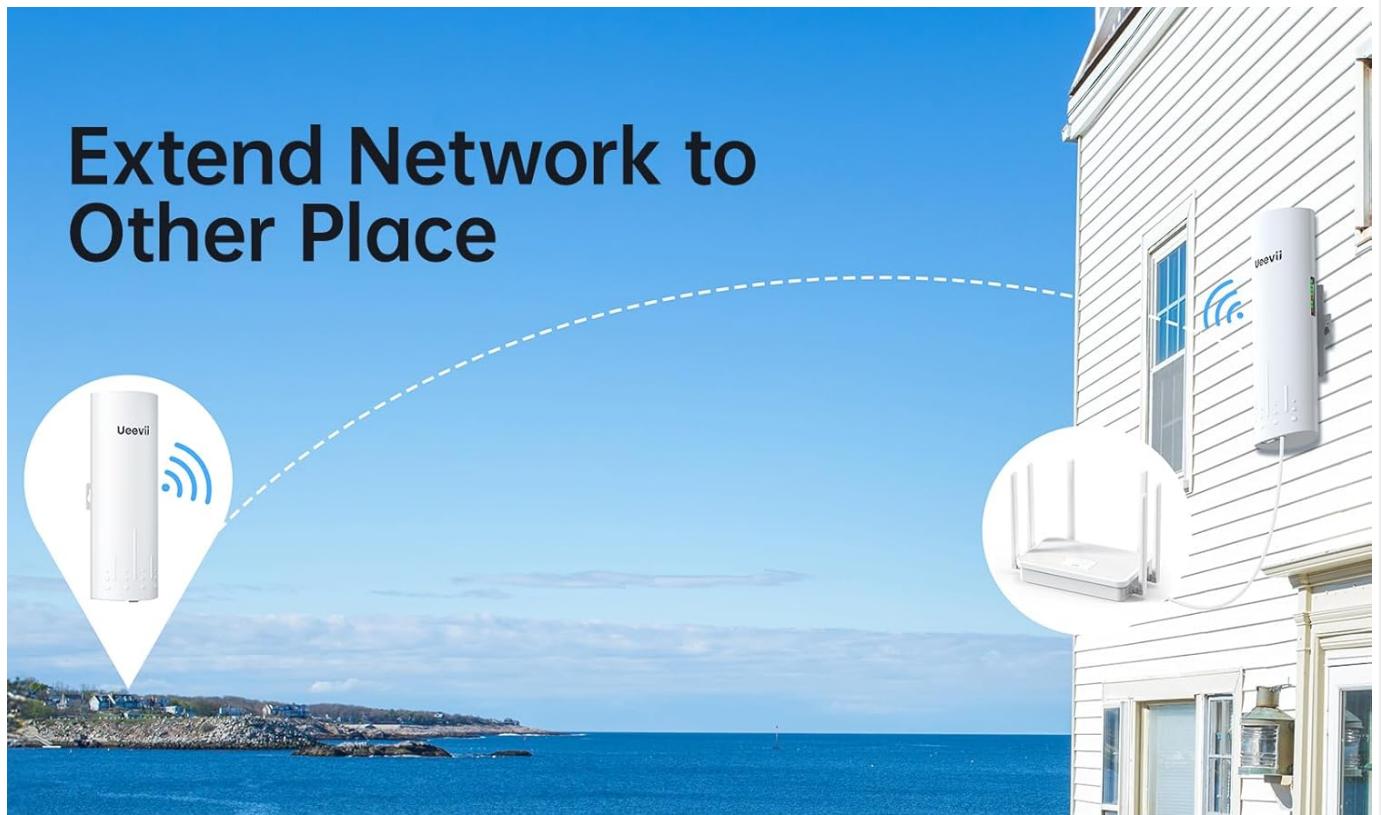


Figure 3.1: Example setup for extending network to another location using CPE450 bridges.

Extend Monitoring to Other Place



Figure 3.2: Example setup for extending a monitoring system using CPE450 bridges.

24V~48V PoE Powered



LAN1 only supports non-standard 24V/48V. LAN2 supports standard 48V

Figure 3.3: CPE450 bridge powered via PoE adapter.

3.2. WR3000K WiFi Router Setup

The WR3000K router provides Wi-Fi coverage for your indoor environment.

- Power Connection:** Connect the power adapter to the WR3000K router and plug it into a power outlet.
- Internet Connection:** Connect an Ethernet cable from your modem or the Slave CPE450 bridge (if using the bridge for internet backhaul) to the WAN port of the WR3000K router.
- Device Connection:** Connect your devices (computers, smartphones, tablets) to the router via Wi-Fi or by connecting an Ethernet cable to one of the LAN ports.
- Initial Configuration:** Refer to the quick start guide included with the WR3000K router for initial Wi-Fi name (SSID) and password setup.

Dual-Band WiFi 6

5GHz
2402Mbps

2.4GHz
573.5Mbps



Figure 3.4: WR3000K Dual-Band WiFi 6 Router in an operational setting.

4. OPERATING INSTRUCTIONS

4.1. CPE450 Wireless Bridge Operation

Once properly set up, the CPE450 bridges establish a stable wireless link, extending your network.

- **Data Rate:** The bridges offer a data transfer speed of up to 300Mbps between point-to-point connections on the 5.8GHz band.
- **LAN Ports:** Each bridge is equipped with dual 10/100Mbps RJ45 ports for reliable wired connections.
- **Long Range Transmission:** Capable of transmitting data over distances up to 3 kilometers (approximately 1.86 miles) with clear line of sight.
- **Applications:** Ideal for extending network access to remote buildings like old houses, barns, shops, or garages. Can also be used to share internet with neighbors or for extending surveillance camera networks.

5.8G 300Mbps Data Rate

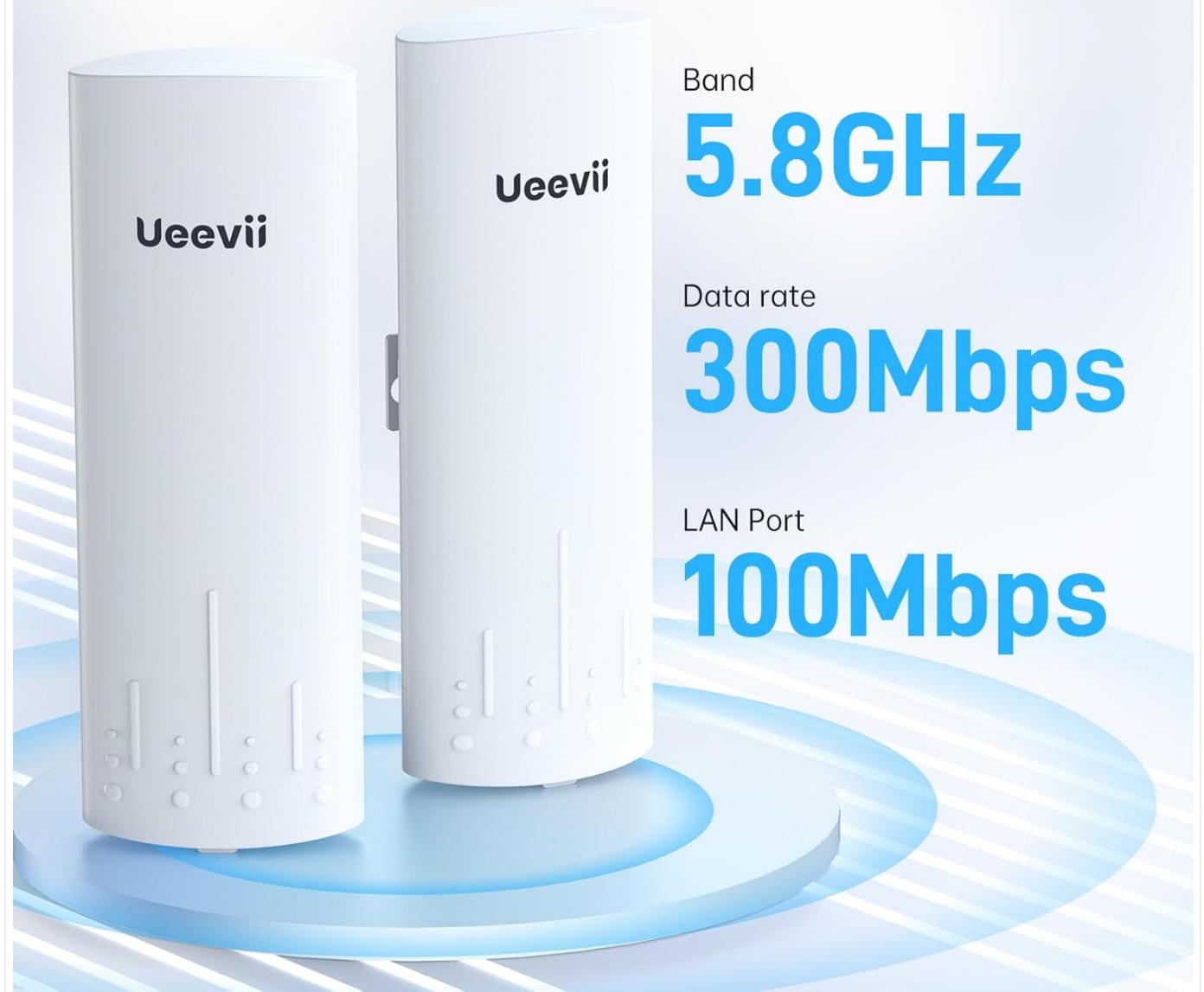


Figure 4.1: CPE450 bridge data rate and port specifications.

3KM Long Range Transmission



Figure 4.2: Visual representation of 3KM long-range transmission capability.

More Applications

Point-to-point is suitable for a variety of scenarios, portable and recycling, quick the project start-up.



Figure 4.3: Diverse applications for the CPE450 wireless bridges.

4.2. WR3000K WiFi Router Operation

The WR3000K router provides high-speed Wi-Fi connectivity.

- **Dual-Band WiFi 6:** Supports both 2.4GHz and 5.8GHz bands, offering faster speeds (up to 573.5Mbps on 2.4GHz and 2402Mbps on 5GHz) and improved efficiency for multiple devices.
- **6-Antenna Design:** Enhances signal coverage and stability throughout your home or office.
- **Gigabit Ports:** Equipped with gigabit Ethernet ports for high-speed wired connections.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your UeeVii devices.

- **CPE450 Wireless Bridges:**

- The CPE450 bridges have an **IP65 waterproof** rating, making them resistant to dust and water jets. However, avoid

submerging them in water.

- Periodically inspect the mounting and cable connections for any signs of wear or damage.
- Gently wipe the exterior with a soft, damp cloth to remove dust or dirt. Do not use harsh chemicals.

- **WR3000K WiFi Router:**

- Keep the router in a well-ventilated area to prevent overheating.
- Dust the router regularly with a soft, dry cloth.
- Ensure cables are securely connected and not kinked.

- **Firmware Updates:** Check the official UeeVii website periodically for firmware updates for both the bridges and the router. Firmware updates can improve performance, add features, and fix bugs.



Figure 5.1: CPE450 outdoor wireless bridge highlighting its IP65 waterproof rating.

6. TROUBLESHOOTING

If you encounter issues, try the following troubleshooting steps:

Problem	Possible Cause	Solution
No internet connection (CPE450)	No clear line of sight; incorrect Master/Slave setup; power issue; cable issue.	Ensure clear line of sight between bridges. Verify Master/Slave configuration. Check power adapters and Ethernet cables. Reboot both bridges.
Slow network speed (CPE450)	Interference; poor alignment; distance too great.	Check for sources of interference. Re-align bridges for optimal signal. Ensure distance is within 3KM.
No Wi-Fi signal (WR3000K)	Router not powered on; Wi-Fi disabled; incorrect setup.	Verify power connection. Check router's Wi-Fi indicator lights. Ensure Wi-Fi is enabled in router settings. Reboot router.
Cannot access router settings	Incorrect IP address; network issue.	Ensure your device is connected to the router's network. Use the correct default gateway IP (usually printed on the router). Try a different browser.

If problems persist, please contact UeeVii customer support.

7. SPECIFICATIONS

7.1. UeeVii CPE450 Wireless Bridge

- Wireless Standard:** 5.8GHz
- Data Rate:** Up to 300Mbps (point-to-point)
- Ports:** Dual 10/100Mbps RJ45 ports
- PoE Support:** LAN1 (non-standard 24V/48V), LAN2 (standard 48V)
- Transmission Distance:** Up to 3KM (with clear line of sight)
- Weather Rating:** IP65 Waterproof

7.2. UeeVii WR3000K WiFi Router

- Wireless Standard:** WiFi 6 (802.11ax)
- Bands:** Dual-Band (2.4GHz and 5.8GHz)
- 2.4GHz Speed:** Up to 573.5Mbps
- 5.8GHz Speed:** Up to 2402Mbps
- Antennas:** 6-antenna design
- Ports:** Gigabit Ethernet ports (WAN/LAN)

8. WARRANTY AND SUPPORT

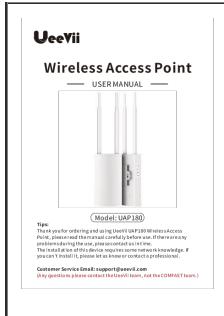
Warranty Information: For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official UeeVii website. The product typically comes with a manufacturer's warranty covering defects in materials and workmanship.

Customer Support: If you require technical assistance, have questions about your product, or need to initiate a warranty claim, please contact UeeVii customer support through their official website or the contact information provided in your product packaging.

UeeVii Official Store: [Visit UeeVii Official Store on Amazon](#)

Related Documents - CPE450, WR3000K

 <p>UeeVii Wireless Bridge User Manual (Model: CPE452)</p> <p><small>Thank you for ordering and using UeeVii wireless bridge. Please read the manual carefully before use. If there are any problems during the use, please contact us in time. The installation of this device requires some network knowledge. If you can't solve the problem, please contact our professional customer service. Customer service email: support@ueevii.com</small></p>	<p>UeeVii Wireless Bridge CPE452 User Manual</p> <p>User manual for the UeeVii Wireless Bridge CPE452, detailing its features, specifications, installation, and troubleshooting.</p>
 <p>UeeVii Wireless Bridge USER MANUAL (Model: CPE688)</p> <p><small>Thank you for ordering and using UeeVii wireless bridge. Please read the manual carefully before use. If there are any problems during the use, please contact us in time. The installation of this device requires some network knowledge. If you can't solve the problem, please contact our professional customer service. Customer service email: support@ueevii.com</small></p>	<p>UeeVii CPE688 Wireless Bridge User Manual - 5.8GHz Long-Range Network Extender</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>UeeVii Wireless Bridge — Quick Start Guide — (Model: CPE242)</p> <p><small>Thank you for ordering and using UeeVii wireless bridge. Please read the manual carefully before use. If there are any problems during the use, please contact us in time. The installation of this device requires some network knowledge. If you can't solve the problem, please contact our professional customer service. Customer service email: support@ueevii.com</small></p>	<p>UeeVii CPE242 Wireless Bridge Quick Start Guide</p> <p>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.</p>
 <p>UeeVii WIRELESS BRIDGE USER MANUAL (Model: CPE990)</p> <p><small>Thank you for ordering and using UeeVii wireless bridge. Please read the manual carefully before use. If there are any problems during the use, please contact us in time. The installation of this device requires some network knowledge. If you can't solve the problem, please contact our professional customer service. Customer service email: support@ueevii.com</small></p>	<p>UeeVii CPE990 Wireless Bridge User Manual: Setup, Configuration, and Troubleshooting</p> <p>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.</p>
 <p>UeeVii Outdoor Dual-Band 2.4GHz+5.8GHz WIRELESS BRIDGE USER MANUAL (Model: CPE852)</p> <p><small>Thank you for ordering and using UeeVii wireless bridge. Please read the manual carefully before use. If there are any problems during the use, please contact us in time. The installation of this device requires some network knowledge. If you can't solve the problem, please contact our professional customer service. Customer service email: support@ueevii.com</small></p>	<p>UeeVii CPE852 Outdoor Dual-Band Wireless Bridge User Manual</p> <p>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.</p>



[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.