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› [KuWiFi 5.8G 2KM Point to Point Wireless Bridge for Outdoor use can Extend The Range of Starlink Router Signal with a 100Mbps Ethernet Bridge 2-Pack pre-configured for WiFi Coverage and CCTV Projects 5.8G 900Mbps 2KM](#)

KuWiFi CPE131-US

KuWiFi 5.8G 2KM Point to Point Wireless Bridge User Manual

Model: CPE131-US

1. INTRODUCTION

The KuWiFi CPE131 is a 5.8G Long Distance Outdoor Wireless Bridge designed for extending network coverage and supporting CCTV projects. This pre-configured 2-pack simplifies point-to-point pairing, eliminating the need for complex Graphical User Interface (GUI) access for initial setup. It is engineered to provide stable and professional long-range wireless coverage and data transmission, suitable for various outdoor environments.



Figure 1.1: KuWFi CPE131 Wireless Bridge Units

This image displays two KuWFi CPE131 wireless bridge units, highlighting their key specifications: 5.8G frequency, 2KM transmission range, and 900Mbps data rate. These units are designed for outdoor point-to-point wireless connectivity.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- Two high-performance CPE131 WiFi bridge units
- Two PoE adapters
- Two LAN cables
- User manual

3. SETUP GUIDE

The CPE131 units are pre-configured for ease of use. Follow these steps for initial setup:

1. **Identify Master and Slave Units:** The units are pre-configured as a pair. One unit will function as the 'Host' (Master) and the other as the 'Client' (Slave). The LED display on each unit will indicate its mode (H for Host, C for Client) and the channel number.
2. **Power Connection:** Connect each CPE131 unit to its respective PoE adapter using a LAN cable. Then, plug the PoE adapter into a power outlet.
3. **Network Connection:**
 - For the **Master (Host) unit**, connect the LAN port of its PoE adapter to your router or network switch.

- For the **Slave (Client) unit**, connect the LAN port of its PoE adapter to the device you wish to provide network access to (e.g., a computer, security camera, or another router).

4. **Mounting:** Mount the units outdoors in a clear line of sight between them for optimal performance. They can be mounted on poles or walls. Ensure they are securely fastened and pointed towards each other.
5. **Signal Verification:** Observe the LED indicators on both units to confirm a successful connection and signal strength. The LED display provides full information including host-client mode and signal strength.



Figure 3.1: Master and Slave Bridge Configuration

This image illustrates the LED display on both the Master (Host) and Slave (Client) KuWFi CPE131 units, showing how their modes and channel numbers are indicated for easy identification and setup.



Figure 3.2: Mounting Options

This diagram demonstrates the two primary mounting methods for the KuWFi wireless bridge: securely attaching it to a pole or mounting it directly onto a wall, providing flexibility for outdoor installations.

4. OPERATING MODES AND APPLICATIONS

The CPE131 supports multiple operating modes to suit various networking needs:

- **Point-to-Point (PTP):** Connects two locations wirelessly, ideal for extending network coverage to a second building or for dedicated CCTV links.
- **Point-to-Multi-Point (PTMP):** Allows one master unit to connect to multiple slave units, useful for covering a wider area with multiple remote devices or cameras.
- **AP (Access Point) Mode:** Functions as a wireless access point.
- **Bridge Mode:** Extends an existing network wirelessly.

The device provides up to 900Mbps wireless speeds with a PTP WiFi distance of up to 2000 meters (barrier-free), significantly improving coverage and signal stability.

Point-to-point extension network to second building



Point-to-point extended camera monitoring range



Point-to-multi point extended camera monitoring range



Figure 4.1: Application Scenarios

This diagram illustrates common applications for the KuWFi wireless bridge, such as extending a network to a second building, and setting up point-to-point or point-to-multi-point connections for camera monitoring systems.

More Applications

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



Figure 4.2: Diverse Applications

This image highlights the versatility of the KuWFi wireless bridge, showcasing its applicability in diverse settings including residential areas, industrial factories, and remote rural locations, emphasizing its 2KM range and 5.8G frequency.

5. MAINTENANCE

The KuWFi CPE131 is designed for outdoor use with an IP65-rated weatherproof shell, offering protection against various environmental conditions. This includes all-weather sunscreen, lightning protection, antifreeze, waterproof, and dustproof sealing. No specific routine maintenance is required beyond ensuring clear line of sight and secure mounting.



Figure 5.1: Weatherproof Design

This image emphasizes the robust, weatherproof design of the KuWFi wireless bridge, indicating its ability to withstand harsh outdoor conditions such as wind, lightning, rain, snow, and frost, with an operating temperature range of -40°C to 70°C.

6. TROUBLESHOOTING

If you encounter issues with your KuWFi CPE131, consider the following troubleshooting steps:

- **No Connection/Poor Signal:**
 - Ensure both units have a clear line of sight to each other. Obstructions like trees or buildings can degrade signal quality.
 - Verify that both units are powered on and their LED indicators show proper status.
 - Check all Ethernet cable connections between the units and PoE adapters, and between PoE adapters and network devices.
- **Incorrect Gateway/DNS Information:** If the device transmits incorrect gateway or DNS information, try setting a manual IP address on the connected device. Use the original modem's gateway address and your preferred DNS server.
- **Resetting the Device:** The reset button on the unit can be used to restore factory settings if necessary. Refer

to the device's physical interface for the exact location of the reset button.

7. SPECIFICATIONS

Feature	Specification
Model Name	CPE131
Item Model Number	CPE131-US
Product Dimensions	3.5 x 1.9 x 6.6 inches
Item Weight	2.05 pounds
Frequency Band Class	Single-Band (5.85 GHz)
Wireless Communication Standard	802.11n, 802.11a, 802.11ac
Ethernet Port	100Mbps WAN/LAN Port
Antenna Gain	12dBi High-gain antenna
Transmission Distance	Up to 2KM (barrier-free)
Weatherproof Rating	IP65
Special Features	Beamforming, Weatherproof, Access Point Mode, Internet Security, LED Indicator
Compatible Devices	Security Camera, Personal Computer, Tablet, Smart Television, Smartphone

8. WARRANTY AND SUPPORT

KuWiFi offers comprehensive customer support and warranty for the CPE131 Wireless Bridge:

- **30-Day Return Policy:** You may return your KuWiFi long-range WiFi antenna intact within 30 days of purchase for a refund for any reason.
- **12-Month Warranty:** A 12-month warranty covers quality-related issues, offering a replacement or refund.
- **3-Year Warranty:** All wireless bridges come with a 3-year warranty.
- For any inquiries or support, please contact KuWiFi customer service.

9. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found to be relevant for inclusion in this instruction manual.