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BrosTrend EAP5 WiFi Bridge Kit

BrosTrend 5KM WiFi Bridge EAP5

USER MANUAL

1. Product Overview

The BrosTrend 5KM WiFi Bridge EAP5 is an outdoor wireless bridge kit designed to extend network connectivity over long distances. It facilitates stable WiFi transmission up to 5 kilometers (3.1 miles) with a clear line of sight, making it suitable for connecting networks between buildings such as homes, barns, garages, sheds, shops, and farms. This kit supports both Point-to-Point (PtP) and Point-to-Multipoint (PtMP) connections, delivering 867 Mbps on the 5 GHz band and featuring dual Gigabit Ethernet ports for efficient data transfer.



The BrosTrend 5KM WiFi Bridge kit includes two identical units that establish a wireless link.

2. Package Contents

Verify that all items are present in your package:

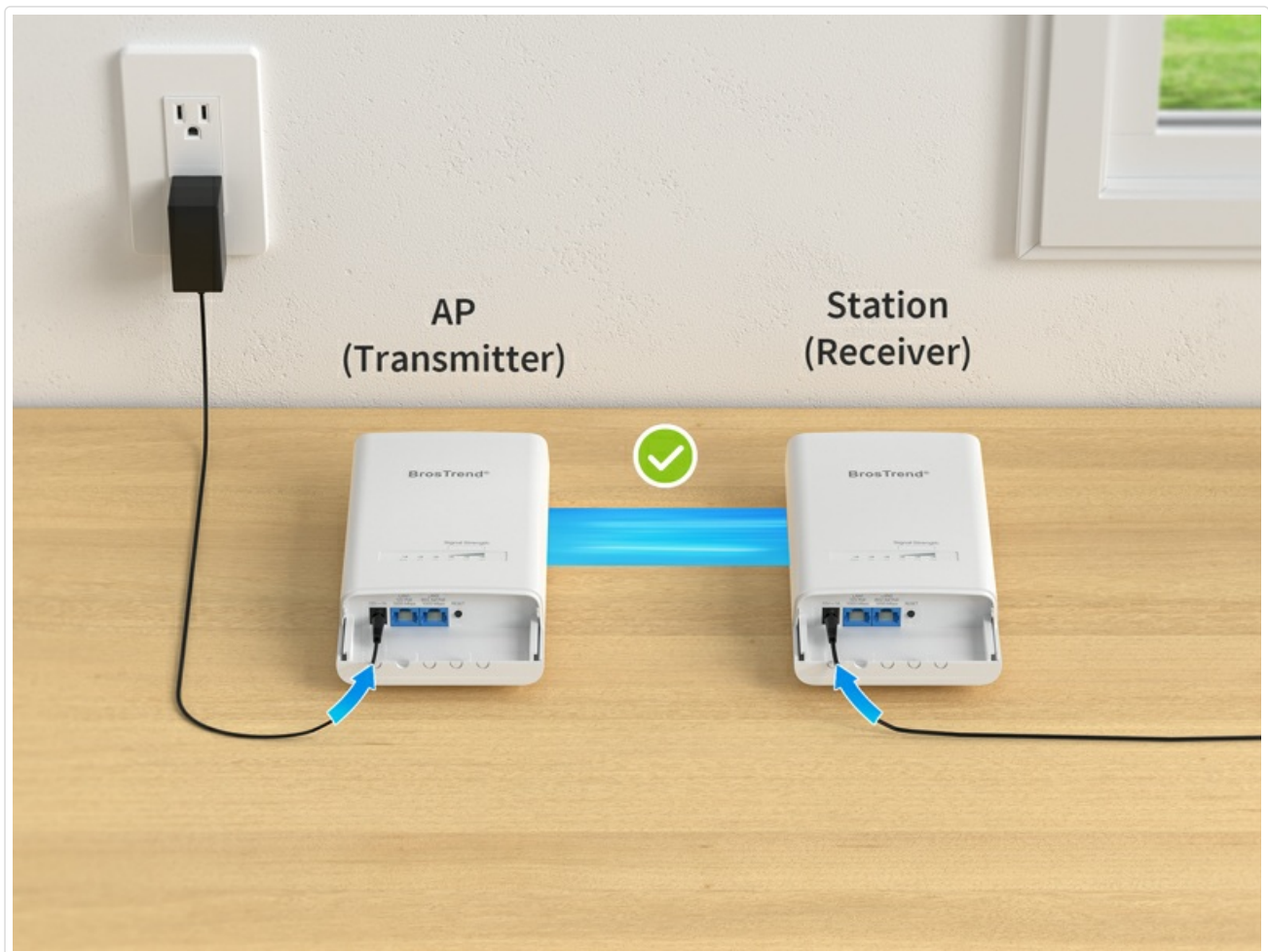
- 2 x Outdoor CPEs (Customer Premises Equipment)
- 2 x Power Adapters
- 2 x Passive PoE Injectors
- 2 x PoE Ethernet Cables
- 4 x Screws
- 4 x Expansion Bolts
- 2 x Plastic Straps
- 1 x Quick Installation Guide

3. Setup Instructions

3.1 Initial Pairing (Plug-and-Play)

The BrosTrend 5KM WiFi Bridge units come pre-paired from the factory for a simplified setup. To initiate the connection:

1. Place both AP (Transmitter) and Station (Receiver) units in the same room.
2. Connect each unit to its respective power adapter and PoE injector.
3. Power on both units. They will automatically detect and pair with each other within minutes.



Initial pairing process: Power on both units in the same room for automatic connection.

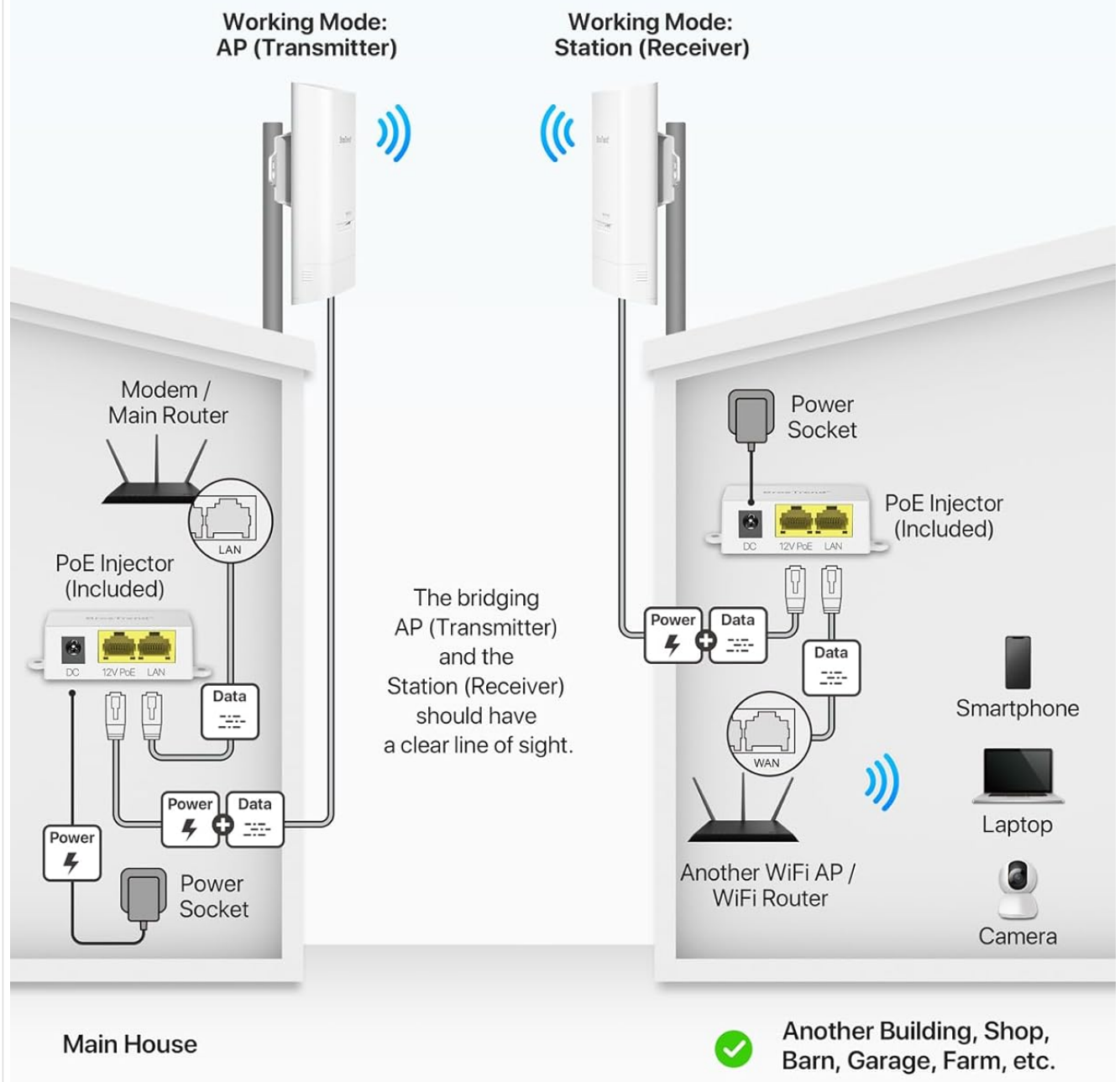
3.2 Physical Installation and Mounting

The units are designed for outdoor use and can be mounted on a wall or pole. Ensure a clear line of sight between the two units for optimal performance.

- **Wall Mounting:** Use the provided screws and expansion bolts to secure the units to a flat surface.
- **Pole Mounting:** Utilize the included plastic straps to attach the units to a pole.

Point-to-Point Connection

Extend Your Network to Another Building



The units are designed for flexible installation, supporting both wall and pole mounting.

3.3 Powering the Device (PoE)

The WiFi bridge units can be powered using one of the following methods:

- The included 12V Passive PoE injector.
- An 802.3af PoE Ethernet switch.
- A DC power adapter (included).

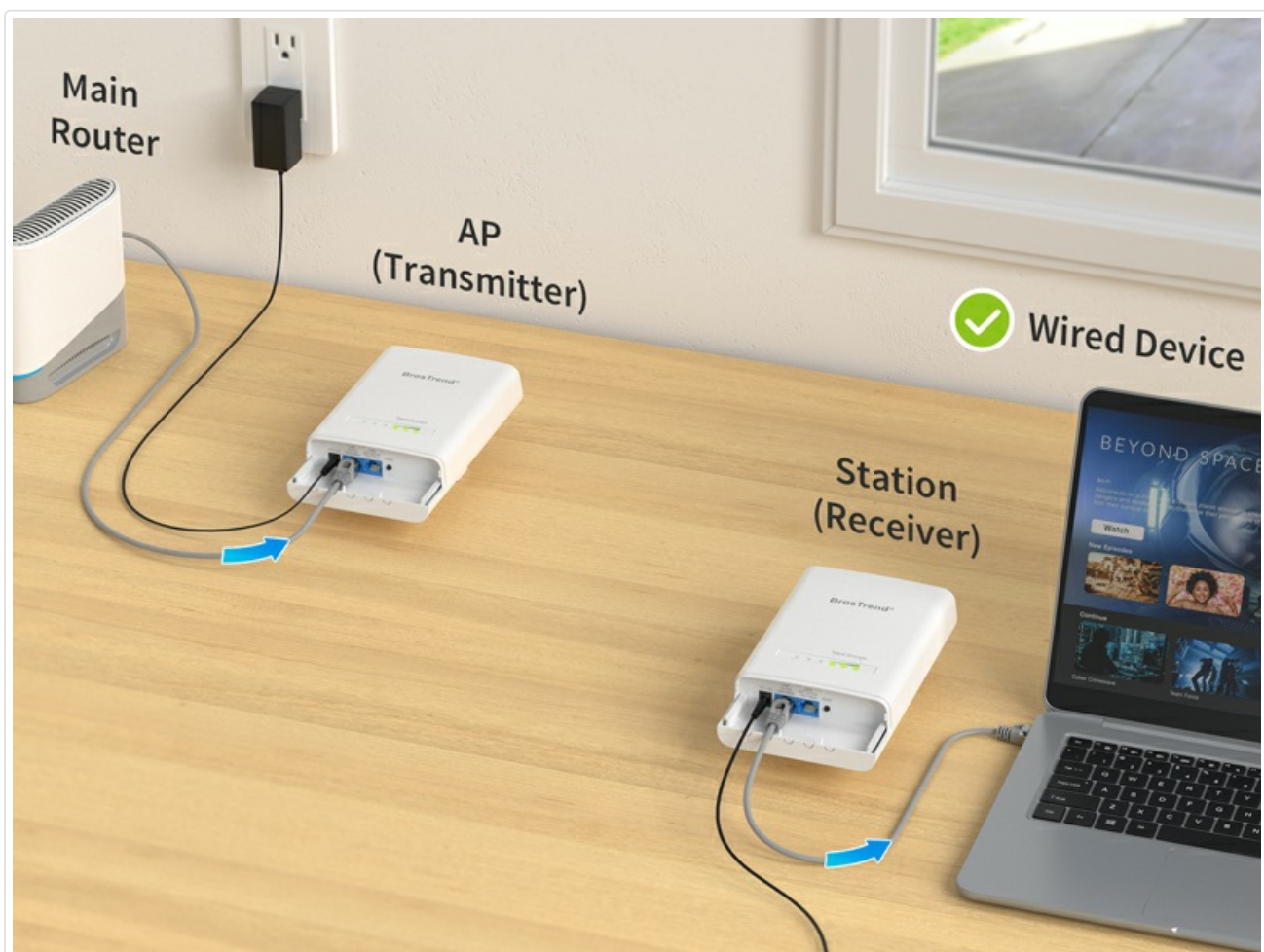
Power over Ethernet (PoE) simplifies deployment by transmitting both data and power through a single Ethernet cable, allowing installation in locations without nearby power sources.

Powering options for the WiFi bridge units, including Passive PoE and 802.3af PoE.

3.4 Connecting to Your Network

After initial pairing and mounting, connect the units to your network:

1. **AP (Transmitter) Setup:** Connect the LAN port of the AP unit to your main router or modem using an Ethernet cable.
2. **Station (Receiver) Setup:** Connect the LAN port of the Station unit to your desired network device (e.g., another WiFi router, camera, laptop) in the remote building.



Connecting the AP to your main router and the Station to a wired device in the remote location.

3.5 Alignment for Optimal Performance

For optimal performance and maximum range, a clear line of sight between the two CPEs is required. Obstacles like trees, buildings, and large steel structures can block the wireless signal. Ensure the units are aligned within a 30-degree vertical and horizontal angle towards each other.

Vertically align within 30°

AP (Transmitter)

Station (Receiver)



Horizontally align within 30°

AP (Transmitter)

Station (Receiver)



Proper alignment of the AP and Station units is crucial for maintaining a strong and reliable connection.

4. Operating the Device

4.1 Working Modes

The BrosTrend WiFi Bridge supports two primary working modes:

- **Point-to-Point (PtP):** Connects two locations directly, extending your network from one building to another.
- **Point-to-Multipoint (PtMP):** Allows one AP unit to connect to multiple Station units, providing network access to several remote locations.

5 km Outdoor Wireless Bridge Kit

Extends reliable network connectivity to various buildings and structures and provides reliable connection for workshops, home offices, and guest houses.



This image demonstrates the point-to-point connection capability of the BrosTrend WiFi Bridge, extending network access up to 5 kilometers with a clear line of sight.

4.2 Signal Strength Indicators

The Signal Strength LED indicators on the devices provide an intuitive way to monitor the connection quality between the AP and Station. More illuminated LEDs indicate a stronger and more reliable signal.

- **LED1/LED2/LED3:** These LEDs light up to show signal strength. If all three are lit, the signal is excellent. If only one is lit, the signal may not be optimal.



The Signal Strength LEDs provide visual feedback on the quality of the wireless link.

5. Maintenance

5.1 Outdoor Durability

The BrosTrend WiFi Bridge features an IP65-rated enclosure, providing waterproof and dustproof protection. It also includes 6kV lightning protection and 8kV ESD protection to withstand harsh weather conditions and ensure reliable operation.

Real Plug And Play

Power On For Auto Pairing, Easy Point To Point Setup



The robust outdoor design ensures the WiFi bridge can withstand various harsh weather conditions, providing reliable operation year-round.

5.2 Cable Recommendations for Outdoor Installations

For outdoor installations, it is recommended to use Cat5e or higher Ethernet cables that are shielded, UV-resistant, waterproof, and PoE-compatible. This ensures long-term durability and performance in challenging environments.

6. Troubleshooting

If you encounter issues with your BrosTrend 5KM WiFi Bridge, consider the following:

- **No Connection/Weak Signal:** Ensure a clear line of sight between the AP and Station units. Obstacles such as trees, buildings, or large metal structures can significantly degrade signal quality. Verify that both units are powered on and their signal strength LEDs indicate a good connection.
- **Configuration Access:** If advanced configuration is needed, connect a computer directly to one of the units via an Ethernet cable. Access the web-based management interface using the default IP addresses (AP: 192.168.2.1, Station: 192.168.2.2) and credentials (Username: admin, Password: admin) as indicated on the product label.
- **Maximum Ethernet Cable Length:** When using Passive PoE, the maximum Ethernet cable length is 196 feet (60 meters). For 802.3af PoE, the maximum length is 263 feet (80 meters). Exceeding these lengths can lead to power or data transmission issues.
- **Resetting Devices:** If issues persist, you may perform a factory reset. Refer to the Quick Installation Guide for specific instructions on locating and using the reset button.

Outdoor Design For Any Weather



-22°F to 140°F
(-30°C to 60°C)
Working Range



IP65
Waterproof
& Dustproof



6 kV
Lightning
Protection



8 kV ESD
Protection

Product labels provide default login information for configuration access.

7. Specifications

Feature	Detail
Product Dimensions	7.6 x 4.33 x 2.36 inches

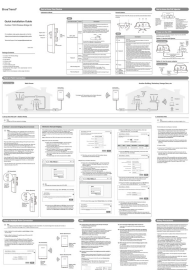
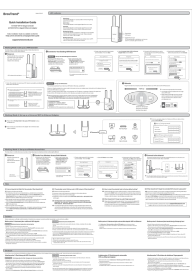
Item Weight	9.4 ounces
Model Number	EAP5 WiFi Bridge Kit
Brand	BrosTrend
Model Name	5 km Outdoor Wireless Bridge Kit
Frequency Band Class	Single-Band (5 GHz)
Wireless Communication Standard	802.11a, 802.11ac, 802.11n
Wireless Speed	Up to 867 Mbps
LAN Ports	2 x 10/100/1000 Mbps Gigabit Ethernet ports per unit
Power Supply Methods	12V 1A Passive PoE, 802.3af PoE, or 12V 1A DC
Operating Temperature	-22°F to 140°F (-30°C to 60°C)
Waterproof Level	IP65
Lightning Protection	6kV
ESD Protection	8kV
Deployment	Pole/Wall Mounting

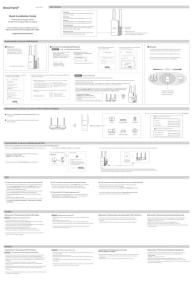
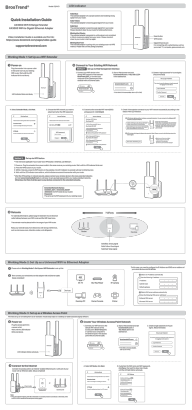
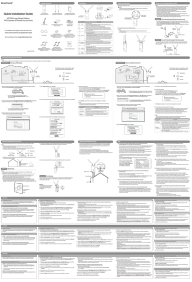
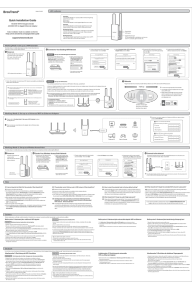
8. Warranty and Support

For warranty information, please refer to the documentation included with your product or visit the official BrosTrend website. For technical support, you can contact BrosTrend directly.

- **Support Email:** support@brostrend.com
- **Manufacturer:** BrosTrend Technology LLC

Related Documents - EAP5 WiFi Bridge Kit

	<p>BrosTrend WiFi Bridge Quick Installation Guide</p> <p>Comprehensive quick installation guide for the BrosTrend Outdoor CPE WiFi Bridge. Learn how to set up point-to-point wireless connections, configure network settings, and ensure optimal performance for long-range connectivity.</p>
	<p>BrosTrend AX1500 WiFi 6 Range Extender & Ethernet Adapter Quick Installation Guide</p> <p>Get step-by-step instructions for setting up your BrosTrend AX1500 WiFi 6 Range Extender and Gigabit Ethernet Adapter. Learn to configure it as an extender, a WiFi-to-Ethernet adapter, or a wireless access point. Includes LED indicators, FAQs, and compliance information.</p>

	<p>BrosTrend AX1500 WiFi 6 Range Extender & Ethernet Adapter Quick Installation Guide</p> <p>A comprehensive guide for setting up and using the BrosTrend AX1500 WiFi 6 range extender and universal WiFi to Ethernet adapter. Learn about different operating modes, setup methods (Web UI and WPS), LED indicator meanings, relocation tips, and troubleshooting FAQs.</p>
	<p>BrosTrend AX3000 WiFi 6 Range Extender & Ethernet Adapter: Quick Installation Guide</p> <p>Step-by-step instructions for setting up your BrosTrend AX3000 WiFi 6 Range Extender and Gigabit Ethernet Adapter. Learn how to configure it as a WiFi extender, Ethernet adapter, or access point.</p>
	<p>BrosTrend AC1200 Outdoor WiFi Access Point Quick Installation Guide</p> <p>Step-by-step instructions for installing and configuring the BrosTrend AC1200 Outdoor WiFi Access Point. Includes setup, LED indicators, and troubleshooting.</p>
	<p>AX3000 WiFi 6 Range Extender & Gigabit Ethernet Adapter Quick Installation Guide</p> <p>Quick installation guide for the BrosTrend AX3000 WiFi 6 Range Extender and Gigabit Ethernet Adapter (Model: E3/AX3). Learn how to set up the device as a WiFi extender, WiFi to Ethernet adapter, or Access Point using web interface or WPS.</p>