









## USER GUIDE

# Compact Bridge Outdoor CPE/AP/Point-to-Point KIT

PROAPE900C



# Contents

 Introduction	1, 2
 Safety Instructions	3
 Tips	4
 Step-by-step Instructions	5
 Troubleshooting	6
 Maintenance	7
 FAQs	8
 Warranty & Compliance	9



# Introduction

## Product summary

Experience uninterrupted outdoor connectivity with our compact point-to-point external access point. Achieve speeds of 900Mbps on the 5G band, ensuring reliable and high-performance wireless networking for your outdoor environments. Enjoy hassle-free setup with LED configuration and buttons. Switch effortlessly between host and client modes for versatile networking options. Benefit from single-band 5G for high-speed Wi-Fi, all in a sleek and compact design.

## Features & Benefits

- **Lightning-fast speeds:** Achieve up to 900Mbps on the 5G band for high-speed data transfer.
  - **Seamless outdoor connectivity:** Enjoy reliable wireless networking in outdoor environments.
  - **Simple setup:** Easily configure the access point using LED indicators and intuitive buttons.
  - **Single-band 5G:** Utilise high-speed Wi-Fi connectivity for enhanced performance.
  - **Compact design:** Space-saving and unobtrusive, ideal for discreet installation.
  - **Host and client switch:** Easily switch between host and client modes for versatile networking options.
  - **High-performance:** Ensures consistent and efficient data transmission for your outdoor networking needs.
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- Enables high-speed, long-range wireless connectivity
  - Facilitates versatile point-to-point and point-to-multipoint connections
  - Provides reliable data transmission at up to 900Mbps
  - Ensures compatibility with IEEE 802.11 standards for seamless integration
  - Features a robust weatherproof design for outdoor use in various conditions
  - Simplifies setup and configuration with intuitive operation switch and LED indicators

## Kit Contents

- x2 Outdoor Access Points
- x2 24V PoE Injector
- x2 1m CAT5e Patch Leads
- x4 Clear Cable Ties



## Applications

- **Digital Signage:** Supporting outdoor advertising or informational displays with reliable wireless connectivity, enabling dynamic content delivery in high-traffic areas such as shopping malls, transport hubs, or public squares.
- **Outdoor Recreation:** Providing Wi-Fi access for visitors in parks, campgrounds, or outdoor recreational areas, enhancing visitor experience and enabling connectivity for leisure activities such as streaming, navigation, or social media sharing.
- **Construction Sites:** Facilitating temporary network setups for construction projects, enabling seamless communication and collaboration among workers, contractors, and project managers, thereby improving efficiency and productivity on-site.
- **Disaster Recovery:** Establishing emergency communication networks in disaster-stricken areas where traditional infrastructure may be damaged or unavailable, enabling coordination of rescue efforts, dissemination of critical information, and support for affected communities.
- **Remote Industrial Monitoring:** Supporting remote monitoring and control of industrial equipment or infrastructure in isolated locations, enabling real-time data collection, diagnostics, and preventive maintenance to improve operational efficiency and minimise downtime.
- **Agricultural Automation:** Facilitating precision agriculture by enabling wireless connectivity for sensors, drones, and other IoT devices in rural areas, allowing farmers to monitor crops, soil conditions, and equipment remotely, optimising resource allocation and increasing yields.
- **Mobile Wi-Fi Hotspots:** Deploying portable Wi-Fi hotspots in vehicles, such as buses, trains, or mobile command centres, to provide internet access to passengers, emergency responders, or field personnel while on the move, enhancing connectivity and productivity during transit or operations.

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# Safety Instructions

## Overall safety instructions

For safe usage, carefully adhere to installation instructions, especially for outdoor setups or electrical connections. Consider professional assistance if necessary. Avoid placing near electromagnetic interference sources or in hazardous locations. Secure the wireless network to prevent unauthorised access and safeguard data privacy.



### Electrical Hazard

- When setting up the compact bridge, ensure proper electrical wiring and connection to power sources.



### Structural Integrity

- Ensure that the mounting location for the compact bridge is structurally sound and capable of supporting its weight.



### Environmental Exposure

- Exposing the compact bridge to extreme weather conditions or environmental hazards can lead to equipment damage or malfunction.



### Cable Management

- Routing cables or wires from the compact bridge across walkways or high-traffic areas may create trip hazards.



# Tips










Follow our advice to fully utilise our products:

- b Optimal Placement:** Position the compact bridge in a location that maximises signal strength and minimises interference. Avoid obstacles such as large metal objects or dense vegetation that may obstruct the wireless signal.
- b Weatherproofing:** Ensure that all outdoor installations are adequately protected from the elements. Use waterproof connectors and cables.
- b Regular Maintenance:** Carry out inspections to check for any signs of damage or wear, especially in outdoor installations exposed to harsh conditions. Clean the device regularly to maintain optimal performance.
- b Security Settings:** Configure the wireless network with robust security settings to prevent unauthorised access and safeguard data privacy. Use strong passwords, enable encryption protocols such as WPA2, and consider implementing MAC address filtering for added security.
- b Professional Assistance:** If unsure about any aspect of installation, configuration, or maintenance, don't hesitate to seek assistance from our technical team by ringing us on [0114 223 5000](tel:01142235000)

# Step-By-Step Instructions

To ensure a smooth and successful setup process, please follow these step-by-step instructions carefully. By following these steps sequentially, you can quickly and effectively set up your device and enjoy the benefits of high-speed, long-range wireless connectivity.

**Before you begin, set up your devices near the router and then mount your devices after setup is complete.**

-  Power the CPE with a 24v IA POE Power supply.
-  Remove the base of the unit and use the switch to select your host on the unit that will be near the router (H) and client on the unit that will be at the receiving location (C).
-  Press the F button; the display will flash to show confirmation of saved information.
-  Ensure that they are on the same ETSI channel.
-  Press the S button to display the last 3 digits of the IP (e.g. A253 would be 192.168.188.253).
-  Press the RST button and leave for 1 minute until the slave and host have bonded.
-  Press the select button until P is displayed.
-  Mount your devices, aligning both Host and Client until the maximum achieved number is displayed. Transmission angle is 60° maximum.
-  The CPE is supplied with cable ties for pole mounting but can be wall mounted with the two screw mounting holes.



# Troubleshooting



My compact bridge is not powering on.

Check if the power adapter is properly connected to the bridge and the power source. Ensure that the power source is functional by testing it with another device. If the issue persists, try using a different power adapter compatible with the bridge. If none of these steps resolve the problem, please contact our customer support for further assistance.



I am unable to connect to the wireless network.

Verify that the wireless network is enabled on the compact bridge and that the SSID and password are entered correctly on your device. Ensure that you are within range of the bridge and that there are no obstructions blocking the signal.



I am experiencing intermittent connectivity issues.

Restart both the compact bridge and your connected devices to refresh the network connection. Check for any sources of interference, such as nearby electronic devices or neighbouring wireless networks, and try moving away from them if possible. Alternatively, contact customer support.





# Maintenance

Regular maintenance is crucial for ensuring optimal performance and longevity of the compact bridge. By conducting routine inspections and upkeep, you can identify and address any issues before they escalate, preventing potential downtime and costly repairs. This includes checking for signs of damage or wear, cleaning the device and antenna to remove dust and debris, and ensuring that all connections are secure.

**Prioritising maintenance not only preserves the functionality of the bridge but also ensures continued reliability and satisfaction with your wireless connectivity solution.**

- b Regular Inspections:** Conduct routine visual inspections to check for any signs of damage, wear, or corrosion on the compact bridge and its components.
- b Cleaning:** Clean the device and antenna regularly to remove dust, dirt, and debris that may accumulate over time and affect performance.
- b Environmental Considerations:** Protect the compact bridge from exposure to harsh weather conditions, extreme temperatures, and other environmental factors that may affect its performance and longevity.
- b Documentation:** Keep thorough documentation of maintenance activities, including inspection dates, firmware updates, and any issues encountered, for future reference and troubleshooting purposes.



# FAQs

## How far can the compact bridge transmit signals?

The compact bridge is capable of transmitting signals over distances exceeding 2 kilometres in ideal conditions. However, actual range may vary depending on factors such as environmental obstacles and interference.

## Can the compact bridge withstand outdoor conditions?

Yes, the compact bridge is designed to be weatherproof and can withstand outdoor conditions. Its robust construction and waterproof enclosure ensure durability and reliability in various environments.

## Does the compact bridge support remote management?

Yes, the compact bridge features remote management capabilities, allowing users to monitor and control the device from any location via a cloud-based interface. This enables convenient access to configuration settings, firmware updates, and troubleshooting tools.



# Warranty & Compliance

PROAPE900C



## Compliance statement

Hereby, Blake UK declares that the **PROAPE900C** is in compliance with the relevant statutory requirements.

The full text of the declaration of conformity is available at the following internet address:

[www.blake-uk.com/DoC](http://www.blake-uk.com/DoC)

# Notes

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