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MikroTik wAP ac RBwAPG-5HacD2HnD-BE Wireless Access Point User Manual

Model: RBwAPG-5HacD2HnD-BE

INTRODUCTION

The MikroTik wAP ac (RBwAPG-5HacD2HnD-BE) is a weatherproof wireless access point designed for outdoor installations. It provides dual-band 2.4/5 GHz wireless connectivity with enhanced antenna performance and features two Gigabit Ethernet ports. This device is suitable for extending wireless coverage in various outdoor environments such as gardens, porches, or other areas requiring a robust wireless connection.

This manual provides instructions for the proper installation, configuration, operation, and maintenance of your wAP ac device.

PACKAGE CONTENTS

Verify that all items listed below are included in your product package. If any items are missing or damaged, please contact your vendor.



wAP ac (RBwAPG-5HacD2HnD-BE)

Weatherproof Wireless Access Point



2.4 / 5 GHz
Dual Chain



802.11b/g/n (2.4 GHz)
802.11a/n/ac (5 GHz)
Wireless Standards



2x 10/100/1000
Ethernet Port



2.5 dBi
Antenna gain

Included parts



24V 0.8A power



Gigabit PoE injector



K52 screw kit



wAP mount bracket



wAP mount

Image: The MikroTik wAP ac device shown with all its included accessories, including the power supply, Gigabit PoE injector, screw kit, wAP mount bracket, and wAP mount.

- **MikroTik wAP ac (RBwAPG-5HacD2HnD-BE)** Wireless Access Point
- **24V 0.8A Power Supply:** An AC/DC adapter providing 24 volts at 0.8 amps for powering the device.



Image: A black 24V 0.8A power supply unit with a standard US plug and a barrel connector cable.

- **Gigabit PoE Injector:** A Power over Ethernet injector for supplying power and data over a single Ethernet cable.



Image: A white and grey Gigabit PoE injector with "PoE out" and "DATA" ports, designed to combine power and data for network devices.

- **K52 Screw Kit:** A set of screws and wall plugs for mounting the device.



Image: A set of six grey wall plugs and six silver screws of various sizes, part of the K52 screw kit.

- **wAP Mount Bracket:** A bracket for securing the wAP ac to a surface.

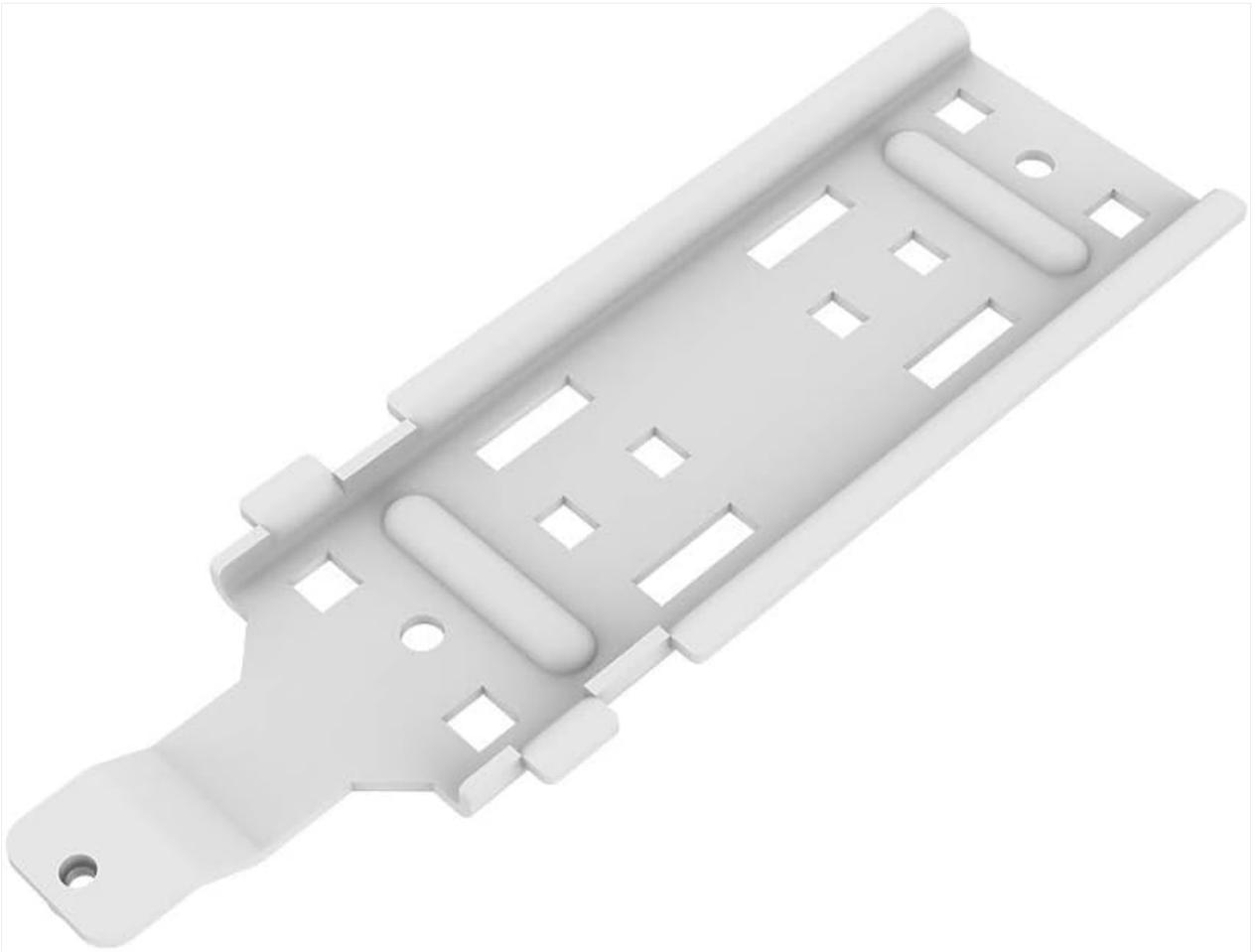


Image: A white plastic wAP mount bracket with multiple slots and holes for securing the access point.

- **wAP Mount:** An additional mounting accessory for the wAP ac.

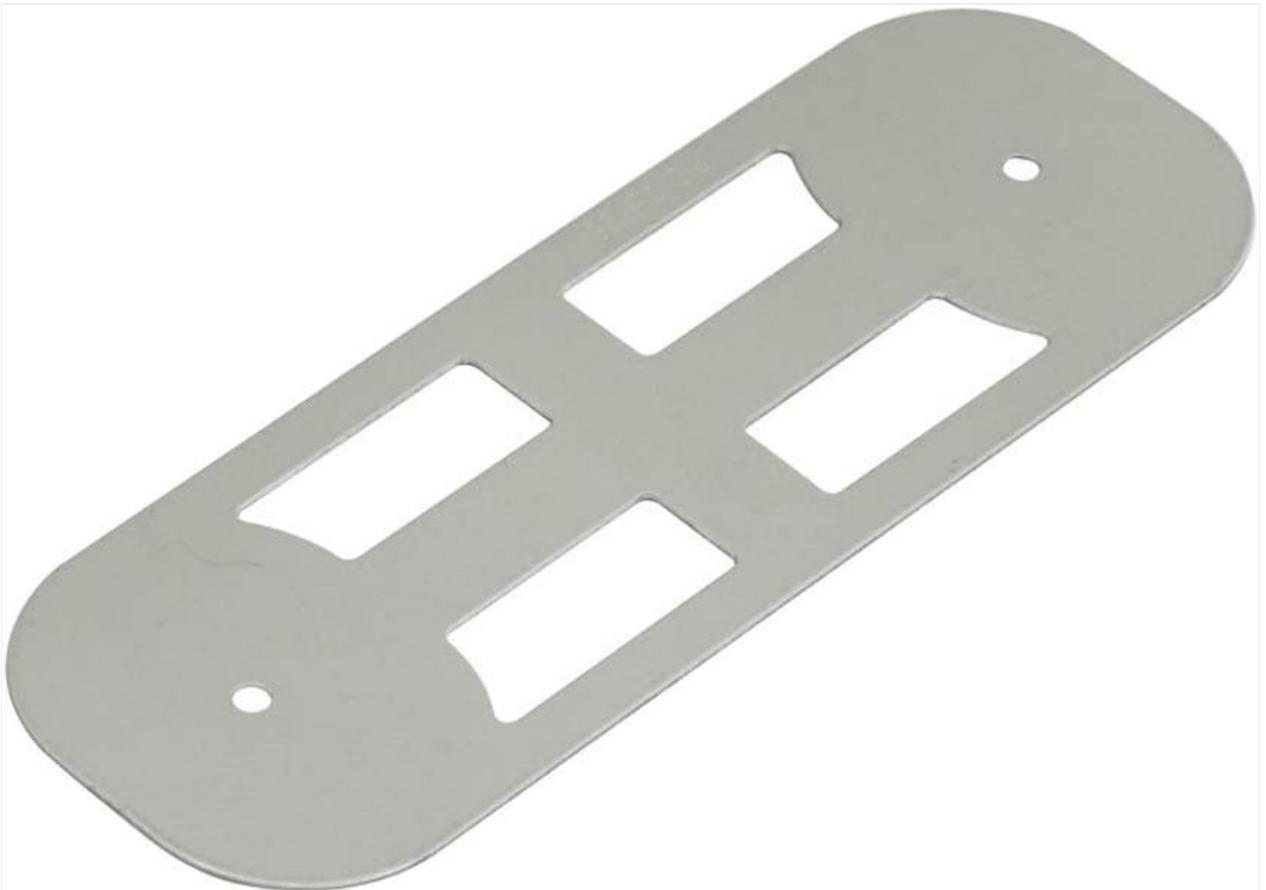


Image: A white rectangular wAP mount plate with four rectangular cutouts and two screw holes.

SETUP

1. Mounting the Device

The wAP ac is designed for weatherproof outdoor installation. It can be fixed to any external wall from the inside of the case for enhanced security and a less visible attachment. An opening in the back of the case allows for routing the Ethernet cable directly behind the unit and through the wall, ensuring a clean installation.

1. Choose a suitable outdoor location for optimal wireless coverage.
2. Use the provided wAP mount bracket and screw kit to securely attach the device to a wall or pole.
3. For added security, the bottom part of the device can be secured with a special anti-vandal screw.

2. Powering the Device

The wAP ac can be powered using the included 24V 0.8A power supply or via the Gigabit PoE Injector.

1. **Using Power Supply:** Connect the 24V 0.8A power supply to the device's power input port.
2. **Using PoE Injector:**
 - a. Connect an Ethernet cable from your network switch or router to the "DATA" port on the Gigabit PoE Injector.
 - b. Connect another Ethernet cable from the "PoE out" port on the injector to one of the Gigabit Ethernet ports on the wAP ac device.
 - c. Plug the power supply into the PoE injector.

3. Initial Configuration

After powering on, the device will boot up. For initial configuration, connect a computer directly to one of the wAP ac's Gigabit Ethernet ports using an Ethernet cable. Access the device's web interface or use MikroTik's WinBox utility for detailed setup. Refer to the official MikroTik documentation for specific IP addresses and login credentials, as these can vary or be customized.

It is recommended to immediately change default login credentials for security purposes.

OPERATING INSTRUCTIONS

The wAP ac functions as a wireless access point, providing Wi-Fi connectivity to your mobile devices and other wireless clients.

- **Dual-Band Operation:** The device supports concurrent dual-band 2.4 GHz and 5 GHz wireless frequencies.
 - The 2.4 GHz band is suitable for older devices or for extending range, though it may be more susceptible to interference.
 - The 5 GHz band offers higher speeds and is generally less cluttered, ideal for newer devices requiring higher bandwidth.
- **Network Connectivity:** The two Gigabit Ethernet ports allow for high-speed wired connections to your network infrastructure.
- **Security:** Ensure your wireless network is secured with strong encryption (e.g., WPA2/WPA3) and a complex password. Regularly update the device's firmware to maintain security and performance.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your wAP ac device.

- **Cleaning:** Periodically inspect the device for dirt or debris, especially around ventilation areas. Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Check the official MikroTik website regularly for firmware updates. Keeping the firmware updated ensures you have the latest features, security patches, and performance improvements.
- **Physical Inspection:** Ensure all cables are securely connected and that the mounting remains stable, especially after severe weather conditions.

TROUBLESHOOTING

If you encounter issues with your wAP ac, refer to the following troubleshooting steps:

1. Device Not Powering On:

- Verify that the power supply or PoE injector is correctly connected and receiving power from the outlet.
- Check the power cable for any damage.

2. Unable to Access Web Interface/WinBox:

- Ensure your computer is directly connected to one of the wAP ac's Ethernet ports.
- Confirm your computer's IP address is in the same subnet as the wAP ac's default IP (e.g., if the device is 192.168.88.1, set your computer to 192.168.88.x).
- Try resetting the device to factory defaults (refer to MikroTik documentation for the specific reset procedure for this model). This will erase all configurations.
- Disable any firewall or antivirus software on your computer temporarily to rule out interference.
- Ensure you are using the correct default IP address and login credentials.

3. No Wireless Connectivity:

- Check if the wireless interface is enabled in the device's configuration.
- Verify the SSID (network name) and password are correctly configured and match what clients are attempting to connect with.
- Ensure the device's firmware is up to date.
- Check for channel interference, especially in crowded 2.4 GHz environments. Consider switching to a less congested channel or utilizing the 5 GHz band.

4. Slow Network Speeds:

- Confirm that your internet connection speed is as expected.
- Check for high network traffic or too many connected devices.
- Ensure the device is placed in an optimal location, free from obstructions.
- Verify that the Ethernet cables used are Gigabit-capable and in good condition.

For more advanced troubleshooting or specific configuration issues, consult the official MikroTik documentation and support resources available on their website.

SPECIFICATIONS

Feature	Value
Model Number	wAP ac (RBwAPG-5HacD2HnD-BE)

Feature	Value
Wireless Standards	802.11a/b/g/n/ac (2.4 GHz and 5 GHz)
Ethernet Ports	2x Gigabit Ethernet (10/100/1000)
CPU	Quad-core
RAM	Enhanced RAM (specific value not provided)
Antenna Gain	2.5 dBi
Wireless Features	Dual-chain, Dual-band 2.4/5 GHz
Weatherproof	Yes
Product Dimensions	3.94 x 5.91 x 11.81 inches
Item Weight	1.54 pounds
Manufacturer	Mikro Tik
Date First Available	July 20, 2021

WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation provided with your purchase or visit the official MikroTik website. MikroTik provides extensive online documentation, forums, and support resources for their products.

Official MikroTik Website: <https://mikrotik.com/>

It is recommended to register your product on the manufacturer's website if applicable, to receive updates and support notifications.