

## MikroTik RBwAPGR-5HacD2HnD&R11e-LTE6

# MikroTik wAP ac LTE6 kit (RBwAPGR-5HacD2HnD&R11e-LTE6) Instruction Manual

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your MikroTik wAP ac LTE6 kit (model RBwAPGR-5HacD2HnD&R11e-LTE6). This device is a dual-band (2.4 / 5 GHz) wireless access point with an integrated CAT6 LTE modem, designed for robust indoor and outdoor connectivity. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

## PRODUCT OVERVIEW

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The MikroTik wAP ac LTE6 kit is a versatile device combining a powerful wireless access point with a high-speed CAT6 LTE modem. It features two Gigabit Ethernet ports and supports carrier aggregation for enhanced LTE performance. Its weatherproof design allows for flexible deployment in various environments.



Image: MikroTik wAP ac LTE6 kit, illustrating its compact and weatherproof design suitable for various installations.

## SETUP

### 1. Unboxing and Component Identification

Before beginning installation, ensure all components are present:

- MikroTik wAP ac LTE6 kit unit
- Power adapter
- Mounting accessories

### 2. Physical Installation

The wAP ac LTE6 kit can be mounted on walls, ceilings, or poles. Choose a location that provides optimal signal coverage for both Wi-Fi and LTE. Ensure the device is protected from direct exposure to extreme weather conditions, although it is designed to be weatherproof.

### 3. SIM Card Insertion

The device requires a Micro SIM card for LTE connectivity. Follow these steps to insert the SIM card:

1. Locate the SIM card slot, typically found under a protective cover or within the device's internal compartment.
2. Carefully open the cover or access panel.
3. Insert the Micro SIM card into the designated slot with the gold contacts facing down and the notched corner oriented correctly.
4. Ensure the SIM card is fully seated.
5. Close the cover or panel securely.

## 4. Connecting Power and Ethernet

The device supports Power over Ethernet (PoE) on ETH1 or can be powered via a DC jack. Connect the power source and any desired Ethernet cables:

- **Power Input:** Connect the provided power adapter to the DC jack (10-57 V DC) or use a PoE injector/switch with ETH1 (18-57 V PoE in).
- **Ethernet Ports:** Connect your network cables to ETH1 (PoE in) and ETH2. These are Gigabit Ethernet ports.



Image: Detailed view of the MikroTik wAP ac LTE6 kit's connectivity options, including Ethernet ports, DC power input, reset button, LED indicators, and the Micro SIM card slot.

## 5. Initial Configuration

Upon first power-on, the device will boot up. It runs MikroTik's RouterOS. You can access the device for initial configuration via a web browser or WinBox utility. Refer to the MikroTik documentation for detailed RouterOS configuration guides.

## OPERATING INSTRUCTIONS

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### 1. LED Indicators

Monitor the device's status using the LED indicators:

- **PWR (Power):** Indicates the device is powered on.
- **USR (User):** Programmable LED, often used to indicate user-defined status or activity.
- **LTE:** Indicates LTE modem status (e.g., solid for connected, blinking for activity).

## 2. Wireless Connectivity (Wi-Fi)

The device operates as a dual-band (2.4 GHz and 5 GHz) 802.11ac wireless access point. Once configured, client devices can connect to the Wi-Fi networks broadcast by the wAP ac LTE6 kit using the configured SSID and password.

## 3. LTE Connectivity

With a properly inserted and activated Micro SIM card, the integrated CAT6 LTE modem will establish a connection to the cellular network. The CAT6 modem supports carrier aggregation, allowing for download speeds up to 300 Mbps and improved performance in congested areas.

## 4. Wired Network (Ethernet)

The two Gigabit Ethernet ports (ETH1 and ETH2) can be used to connect wired devices or integrate the wAP ac LTE6 kit into an existing wired network. ETH1 also supports PoE input.

## MAINTENANCE

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### 1. Firmware Updates

Regularly check for and apply firmware updates for RouterOS. Updates often include security patches, bug fixes, and performance improvements. Refer to the MikroTik website for the latest firmware and update procedures.

### 2. Cleaning

Clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols, as they may damage the device. Ensure no dust or debris obstructs the ports or ventilation openings.

### 3. Environmental Considerations

The device is designed to operate in temperatures from -30°C to +60°C. While weatherproof, avoid prolonged exposure to direct sunlight or extreme moisture to maximize its lifespan.

## TROUBLESHOOTING

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### 1. No Power

- Check if the power adapter is securely connected to the device and a working power outlet.
- If using PoE, ensure the PoE injector/switch is providing power and the Ethernet cable is properly connected to ETH1.
- Verify the PWR LED is illuminated.

### 2. No Internet Connectivity (LTE)

- Ensure the Micro SIM card is correctly inserted and activated with a data plan.
- Check the LTE LED for status. If it's not lit or blinking, there might be an issue with the SIM card or cellular signal.
- Verify LTE modem configuration within RouterOS.
- Check for cellular network coverage in your location.

### 3. No Wi-Fi Connectivity

- Ensure the Wi-Fi interface is enabled and configured correctly in RouterOS.
- Check that client devices are within range and using the correct Wi-Fi password.
- Restart the device.

### 4. Resetting the Device

If the device is unresponsive or you need to restore factory defaults, use the reset button. With the device powered on, press and hold the reset button for approximately 5 seconds until the USB LED starts blinking, then release. This will reset the device to its default configuration.

## SPECIFICATIONS

Feature	Description
Brand	MikroTik
Model Name	wAP ac LTE6 kit
Model Number	RBwAPGR-5HacD2HnD&R11e-LTE6
Wireless Standard	802.11ac (Wi-Fi 5)
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
LTE Modem	CAT6 (up to 300 Mbps download)
Ethernet Ports	2x Gigabit Ethernet (ETH1 PoE in 18-57V, ETH2)
Power Input	10-57 V DC, 18-57 V PoE (ETH1)
Operating System	RouterOS
Operating Temperature	-30°C to +60°C
Security Protocol	WPA2-PSK, WPA-PSK, possibly WPA3
Dimensions	Refer to product packaging for exact dimensions
Weight	0.78 Kilograms

## WARRANTY INFORMATION

MikroTik products typically come with a limited manufacturer's warranty. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase. For detailed warranty information, refer to the documentation included with your product or visit the official MikroTik website.

## TECHNICAL SUPPORT

For technical assistance, troubleshooting, or further information regarding your MikroTik wAP ac LTE6 kit, please visit the official MikroTik support website or contact their customer service. You can find resources, forums, and contact details at [mikrotik.com/support](https://mikrotik.com/support).

