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## MikroTik RB4011iGS+5HacQ2HnD-IN

# MikroTik RB4011iGS+5HacQ2HnD-IN Router User Manual

## 1. INTRODUCTION

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This manual provides essential information for the proper setup, operation, and maintenance of your MikroTik RB4011iGS+5HacQ2HnD-IN router. The RB4011 series is a powerful routing platform featuring ten Gigabit Ethernet ports, an SFP+ 10Gbps interface, and hardware acceleration for IPsec. This model includes dual-band Wi-Fi capabilities, supporting both 5GHz and 2.4GHz wireless networks.

## 2. PACKAGE CONTENTS

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Verify that all items are present in your product packaging:

- MikroTik RB4011iGS+5HacQ2HnD-IN unit
- Power supply
- PoE injector

## 3. PRODUCT OVERVIEW

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The MikroTik RB4011iGS+5HacQ2HnD-IN is a high-performance router designed for demanding network environments. It features a quad-core Cortex A15 CPU and 1GB of RAM, housed in a durable matte black metal enclosure.



Image 3.1: Front view of the MikroTik RB4011iGS+5HacQ2HnD-IN router. The device features ten Gigabit Ethernet ports, an SFP+ port, and four external antennas for dual-band wireless connectivity. Status LEDs and a reset button are also visible on the left side.

## Key Features:

- Ten Gigabit Ethernet ports
- One SFP+ 10Gbps interface
- IPsec hardware acceleration
- Quad-core Cortex A15 CPU
- 1GB RAM
- PoE output on port #10
- Dual-band (2.4GHz and 5GHz) Wi-Fi with four chains for up to 1733 Mbps in 5GHz
- Compact metal enclosure

**Note:** This device does not support Passive DAC modules, 1GB copper SFP modules, or SFP GPON modules.

## 4. SETUP

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### 4.1. Physical Installation

1. **Connect Power:** Connect the provided power supply to the router's power input.
2. **Connect Network Cables:** Connect your internet source (e.g., modem) to the designated WAN port (typically port 1). Connect your local network devices (computers, switches) to the remaining Gigabit Ethernet ports.
3. **SFP+ Connection:** If utilizing the SFP+ port for 10Gbps connectivity, insert a compatible SFP+ module and connect the appropriate fiber or direct attach cable.
4. **PoE Output:** Port 10 supports Power over Ethernet (PoE) output. Connect a compatible PoE-powered device to this port if needed.

### 4.2. Initial Configuration

The MikroTik RB4011iGS+5HacQ2HnD-IN runs on RouterOS, a powerful and feature-rich operating system. Initial configuration can be performed via several methods:

- **Web Interface (WebFig):** Access the router's web-based configuration interface by opening a web browser and navigating to the router's default IP address (usually <http://192.168.88.1>).
- **WinBox Utility:** For Windows users, the WinBox utility provides a graphical interface for managing RouterOS devices. It can connect via IP address or MAC address.
- **Quick Set:** RouterOS includes a 'Quick Set' feature for basic, rapid configuration, often accessible through the web interface or mobile applications. This can simplify initial setup for common home or small office scenarios.
- **Command Line Interface (CLI):** Advanced users can configure the device using the command line interface via SSH or Telnet.

It is recommended to consult the official MikroTik documentation and community resources for detailed configuration guides, especially for advanced features.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Wireless Configuration

The RB4011iGS+5HacQ2HnD-IN supports dual-band wireless operation:

- **5GHz Wireless:** This unit features a four-chain 5GHz wireless card, supporting data rates up to 1733 Mbps, compliant with 802.11ac standards.
- **2.4GHz Wireless:** A dual-chain 2GHz wireless card is also installed in a miniPCI-e slot, providing compatibility for legacy devices and broader coverage.

Configure separate SSIDs for each band or use band steering for optimal client connectivity. Ensure appropriate security protocols (e.g., WPA2/WPA3) are enabled for your wireless networks.

### 5.2. Port Usage

The router offers versatile connectivity options:

- **Gigabit Ethernet Ports:** Ten 10/100/1000 Mbps Ethernet ports are available for wired connections. These can be configured for various network segments, VLANs, or as part of a bridge.
- **SFP+ Port:** The SFP+ port provides a 10 Gigabit per second uplink or downlink option, suitable for high-speed connections to a core switch or server.
- **PoE Out (Port 10):** Ethernet port 10 can supply Power over Ethernet to compatible devices, simplifying deployment by eliminating the need for a separate power source for the connected device.

## 6. MAINTENANCE

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### 6.1. Firmware Updates

Regularly update RouterOS firmware to ensure optimal performance, security, and access to new features. Firmware updates can typically be performed through the WinBox utility or the WebFig interface. Always back up your configuration before performing a firmware update.

### 6.2. Resetting the Device

If configuration issues arise or you wish to revert to factory settings, the device can be reset. This is typically done via a dedicated reset button on the device or through the RouterOS software. Refer to the RouterOS documentation for specific reset procedures.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter:

- **No Network Connection:** Verify all cables are securely connected. Check the status LEDs on the router and connected devices. Ensure your modem is functioning correctly. Review your RouterOS configuration for correct IP addressing and routing.
- **Poor Wi-Fi Signal/Speed:** Ensure antennas are properly oriented. Check for sources of interference. Verify wireless channel selection and power settings in RouterOS. Consider the physical layout of your environment; large homes or obstacles may affect signal strength.
- **Cannot Access Router Configuration:** Ensure your computer is on the same network segment as the router. Try accessing via MAC address using WinBox if IP configuration is lost. A factory reset may be necessary as a last resort.

For more detailed troubleshooting, consult the extensive MikroTik RouterOS documentation and community forums.

## 8. SPECIFICATIONS

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Feature	Specification
Model Name	RB4011iGS+5HacQ2HnD-IN
Product Dimensions	4.72 x 8.98 x 1.18 inches
Item Weight	3 pounds
Ethernet Ports	10 x Gigabit (10/100/1000 Mbps)
SFP+ Ports	1 x 10Gbps
CPU	Quad-core Cortex A15
RAM	1GB
Wireless Standard	802.11ac
Frequency Band Class	Dual-Band (2.4GHz, 5GHz)
PoE Output	Yes, on Port #10
Special Feature	WPS
Connectivity Technology	Ethernet
Color	Black
Recommended Uses	Home

## 9. WARRANTY AND SUPPORT

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For warranty information, please refer to the documentation provided with your purchase or visit the official MikroTik

website. Technical support and additional resources, including detailed RouterOS documentation and software downloads, are available through the MikroTik support portal.