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MikroTik RB5009UG+S+IN

MikroTik RouterBORD 5009UG+S+IN User Manual

Model: RB5009UG+S+IN

Brand: MikroTik

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of the MikroTik RouterBORD 5009UG+S+IN. This device is a powerful and versatile router designed for advanced home users and small to medium-sized offices, offering robust networking capabilities.

The RB5009UG+S+IN is equipped with a Marvell Armada ARMv8 CPU (4-cores, 1.4GHz per core), 1GB of DDR4 RAM, and 1GB of internal storage. It features multiple Ethernet ports, including a 2.5Gbps port and a 10Gbps SFP+ cage, providing flexible connectivity options for high-speed networks.



This image displays the MikroTik RB5009UG+S+IN router, highlighting its compact form factor and the array of ports on the front panel. Visible features include Ethernet ports, a USB port, and the SFP+ cage, along with the distinctive heat sink design on the top surface.

2. WHAT'S IN THE BOX

Verify that all components are present in the package:

- MikroTik RouterBORD 5009UG+S+IN Unit
- K-55 screw kit
- 24V 1.5A power adapter

3. SETUP GUIDE

3.1 Initial Connection

1. **Power Connection:** Connect the included 24V 1.5A power adapter to the DC jack on the router and plug it into a power outlet.
2. **Network Connection:** Connect your internet service provider's cable (e.g., from a modem) to the designated WAN port (often Ether1, which supports 2.5Gbps). Connect your computer or a network switch to any of the other Ethernet ports.
3. **SFP+ Connection (Optional):** If using fiber optic or 10Gbps Ethernet, insert the appropriate SFP+ module into the SFP+ cage and connect your high-speed device.

3.2 Accessing RouterOS

The MikroTik RB5009UG+S+IN runs on RouterOS, a highly configurable operating system. You can access it via Winbox (a dedicated Windows application), web browser (WebFig), or SSH/Telnet.

- **Winbox:** Download Winbox from the official MikroTik website. Launch it, and it should discover your router.
- **Web Browser:** Open a web browser and navigate to the router's default IP address (commonly <http://192.168.88.1>).

3.3 First-Time Configuration

Upon first access, you will be prompted for login credentials. The default username is **admin**. The default password is often blank or printed on a sticker on the device itself. It is crucial to change the default password immediately for security reasons.

For basic home use, the default configuration is often sufficient. However, for advanced setups, you will need to configure specific rules for WAN/LAN ports, VLANs, and other network services. MikroTik provides extensive documentation and a [YouTube channel](#) with tutorials to assist with configuration.

4. OPERATING THE ROUTER

The RB5009UG+S+IN offers a wide range of features through RouterOS, allowing for highly customized network management:

- **Port Configuration:** You can define any port as WAN or LAN, enabling flexible network designs with multiple WAN connections if needed.
- **VLAN Support:** Isolate devices and manage network segments efficiently using VLANs. This requires corresponding configuration on chained switches and Wi-Fi Access Points.
- **Routing:** Advanced route selection based on origin or destination, useful for directing traffic through VPNs or specific paths.
- **Failover:** Configure multiple ISPs with automatic failover to ensure continuous internet connectivity.
- **Traffic Management:** Utilize traffic analysis, graphing, and Quality of Service (QoS) features to monitor and prioritize network traffic.
- **Parental Controls:** Implement content filtering and time-based access rules.
- **Docker Containers:** The powerful ARMv8 CPU supports running small Docker containers, such as Pi-hole for network-wide ad blocking.
- **WPS:** Supports Wi-Fi Protected Setup for easy connection of compatible wireless devices.

5. MAINTENANCE

5.1 Firmware Updates

Regularly update RouterOS to the latest stable version. MikroTik frequently releases updates that include new features, performance improvements, and critical security patches. Updates can typically be performed directly through Winbox or WebFig.

5.2 Physical Care

The RB5009UG+S+IN is designed for passive cooling and does not have internal fans. Ensure it is placed in a well-ventilated area to prevent overheating. Keep the device clean and free from dust accumulation, which can impede heat dissipation.

6. TROUBLESHOOTING

If you encounter issues with your MikroTik RB5009UG+S+IN, consider the following:

- **Connectivity Issues:** Verify all cable connections. Check LED indicators on the ports for activity. Ensure correct IP addressing and gateway settings on connected devices.
- **Configuration Errors:** RouterOS is powerful but requires precise configuration. Incorrect rules or settings can lead to network issues. Review your configuration steps carefully. Consider using the 'Safe Mode' feature in Winbox when making significant changes.
- **Access Problems:** If you cannot access the router via Winbox or WebFig, ensure your computer's IP address is in the same subnet as the router. Try resetting the router to factory defaults as a last resort (refer to MikroTik documentation for the reset procedure).
- **No Serial Console:** Note that this model does not have a serial port for console access, which can complicate advanced recovery scenarios.

For complex issues, consult the extensive MikroTik Wiki, forums, and community resources. Many common scenarios and advanced configurations are well-documented online.

7. SPECIFICATIONS

Feature	Detail
Model Name	RB5009UG+S+IN
CPU	Marvell Armada ARMv8 (4-cores, 1.4GHz per core)
RAM	1GB DDR4
Storage	1GB RB5009UG+S+IN
Product Dimensions	19.69 x 19.69 x 11.02 inches
Item Weight	1.74 pounds
Connectivity Technology	USB, Ethernet
Wireless Communication Standard	802.11ac (Note: This device is a router, not a wireless access point itself, but supports this standard for connected devices)
Special Feature	WPS
Manufacturer	MikroTik

Date First Available	October 28, 2021
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8. WARRANTY AND SUPPORT

For warranty information, please refer to the specific terms and conditions provided by your retailer or MikroTik's official website. MikroTik products typically come with a manufacturer's warranty covering defects in materials and workmanship.

For technical support, documentation, and community forums, visit the official MikroTik website (mikrotik.com). They offer extensive resources to assist users with configuration and troubleshooting.

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This manual is for informational purposes only. Specifications are subject to change without notice.