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MikroTik RB952Ui-5ac2nD

MikroTik hAP ac lite Dual-concurrent Access Point

MODEL: RB952Ui-5AC2nD-US*Instruction Manual*

1. INTRODUCTION

The MikroTik hAP ac lite (RB952Ui-5ac2nD-US) is a versatile dual-concurrent access point designed to provide reliable Wi-Fi coverage across both 2.4GHz and 5GHz frequencies simultaneously. This device is equipped with a 650MHz CPU, 64MB RAM, and runs on RouterOS L4 license, offering extensive configuration options for various networking needs. It features five 10/100Mbps Ethernet ports, with Power over Ethernet (PoE) output capability on port 5, and a USB port for connecting 3G/4G modems. This manual provides essential information for setting up, operating, and maintaining your hAP ac lite device.

2. PRODUCT OVERVIEW

The hAP ac lite is a compact device with clearly labeled ports and indicators for easy identification and setup.



Figure 1: Front view of the MikroTik hAP ac lite with port and indicator labels.

2.1. Physical Components

- **Power Input:** DC 10-28V power jack.
- **Ethernet Ports:** Five 10/100Mbps Ethernet ports. Port 1 is labeled "Internet" and supports PoE input. Port 5 is labeled "PoE out" and can supply power to other PoE-compatible devices. Ports 2, 3, and 4 are standard LAN ports.
- **USB Port:** A USB port for connecting 3G/4G modems or other USB devices.
- **Reset Button (RES):** Used for factory reset or other system functions.
- **WPS Button:** For easy Wi-Fi Protected Setup.
- **LED Indicators:** Power (PWR) and User (USR) LEDs to indicate device status.

2.2. Key Features

- Dual-concurrent Wi-Fi for 2.4GHz (802.11b/g/n dual-chain) and 5GHz (802.11ac single-chain).
- 650MHz CPU and 64MB RAM for efficient performance.
- Five 10/100Mbps Ethernet ports, with PoE output on port 5.
- USB port for 3G/4G modem support.
- RouterOS L4 license for advanced routing and network management.
- Factory locked to specific frequencies for USA region: 2412-2462MHz, 5170-5250MHz, and 5725-5835MHz.

3. SETUP

Follow these steps to set up your MikroTik hAP ac lite access point.

3.1. Initial Connections

- Power Connection:** Connect the provided power adapter to the DC 10-28V power jack on the device.
- Internet Connection:** Connect your internet source (e.g., modem or main router) to the Ethernet port labeled "Internet" (Port 1). This port also supports PoE input.
- Local Area Network (LAN) Devices:** Connect your wired devices (e.g., computers, switches) to the Ethernet ports labeled "LAN" (Ports 2, 3, 4).
- PoE Output:** If you have a PoE-compatible device, you can connect it to Port 5 ("PoE out") to provide both data and power.
- USB Device:** If using a 3G/4G modem or other USB device, connect it to the USB port.

3.2. First-Time Access

Once powered on, the device will boot up. You can access the RouterOS configuration interface via a web browser or MikroTik's Winbox utility.

- Web Interface:** Open a web browser and navigate to the default IP address (usually 192.168.88.1). Log in using the default username (admin) and no password (leave blank).
- Winbox:** Download and run the Winbox utility from the MikroTik website. It will discover your device, allowing you to connect and configure it.

For a visual guide on connecting and setting up your MikroTik hAP ac lite, please refer to the video below:

Your browser does not support the video tag. Please download the video to view it.

Video: Dual-Concurrent 2.4/5GHz AP with USB for 3G/4G support. This video demonstrates the features and connectivity options of the MikroTik hAP ac lite.

4. OPERATING

The hAP ac lite operates as a dual-band access point, providing wireless connectivity on both 2.4GHz and 5GHz frequencies. Its RouterOS L4 license allows for advanced network management, including routing, firewall rules, and user access control.

4.1. Wireless Configuration

You can configure your wireless networks (SSIDs, security protocols, channels) through the RouterOS web interface or Winbox. The device supports 802.11b/g/n on 2.4GHz and 802.11ac on 5GHz.

4.2. USB Modem Functionality

The USB port allows you to connect a compatible 3G/4G modem, enabling the hAP ac lite to act as a primary or backup internet connection, especially useful in areas without traditional broadband access.

5. MAINTENANCE

Regular maintenance ensures optimal performance and security for your hAP ac lite device.

5.1. Firmware Updates

It is recommended to keep your RouterOS firmware updated to the latest stable version. Updates often include bug fixes, security patches, and new features. You can check for and install updates via the RouterOS web interface or Winbox.

5.2. Factory Reset

If you encounter persistent issues or forget your login credentials, you can perform a factory reset. To do

this, press and hold the **RES** (Reset) button while powering on the device. Continue holding the button until the PWR LED starts flashing, then release it. This will restore the device to its default factory settings.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your hAP ac lite.

6.1. No Internet Connection

- Verify that your modem or upstream router is working correctly.
- Ensure the Ethernet cable from your internet source is securely connected to the "Internet" (Port 1) on the hAP ac lite.
- Check RouterOS configuration for correct WAN settings (e.g., DHCP client, static IP).

6.2. Wi-Fi Connectivity Issues

- Confirm that Wi-Fi is enabled on both 2.4GHz and 5GHz bands in RouterOS.
- Check your device's Wi-Fi settings to ensure it's connecting to the correct SSID with the correct password.
- Try changing Wi-Fi channels to avoid interference from neighboring networks.

6.3. Device Not Responding

- Check the power connection and ensure the PWR LED is lit.
- Attempt to access the device via Winbox, which can sometimes connect even if the web interface is unresponsive.
- If all else fails, perform a factory reset as described in Section 5.2.

7. SPECIFICATIONS

Below are the technical specifications for the MikroTik hAP ac lite (RB952Ui-5ac2nD-US).

Feature	Specification
Product Code	RB952Ui-5ac2nD-US
CPU	650MHz
RAM	64MB
Ethernet Ports	5 x 10/100Mbps
Wireless Standards	2.4GHz: 802.11b/g/n (dual-chain) 5GHz: 802.11ac (single-chain)
USB Port	1 x USB 2.0 (Type A)
PoE Input	Passive PoE on Port 1
PoE Output	Passive PoE on Port 5
Operating System	RouterOS L4
Dimensions	1.1 x 4.45 x 3.5 inches

Feature	Specification
Weight	0.035 ounces (approximately 1 gram)
Frequency Lock (USA)	2412-2462MHz, 5170-5250MHz, 5725-5835MHz (cannot be removed)

8. WARRANTY AND SUPPORT

MikroTik products are covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official MikroTik website. Technical support is available through MikroTik's online resources, including their extensive Wiki, forums, and support ticket system.

Always ensure you are using official MikroTik resources for support and information to guarantee the best assistance for your device.

Related Documents - RB952Ui-5ac2nD

	<p>MikroTik hAP lite TC Wireless Access Point User Guide</p> <p>Comprehensive guide to the MikroTik hAP lite TC, a simple home wireless access point. Covers quick start, setup, powering, configuration, mounting, ports, buttons, accessories, operating system support, and regulatory information.</p>
	<p>MikroTik hAP lite User Manual and Quickstart Guide</p> <p>Comprehensive guide to setting up and configuring the MikroTik hAP lite wireless access point, including quickstart steps, powering, mounting, expansion ports, reset button functions, and regulatory compliance information.</p>
	<p>MikroTik hAP lite TC Wireless Access Point User Manual</p> <p>Comprehensive user manual for the MikroTik hAP lite TC, a simple home wireless access point. Covers quick start, configuration, powering, mounting, specifications, and regulatory compliance.</p>