

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [MikroTik](#) /

› [MikroTik hAP lite RB941-2nD-TC Wireless Router User Manual](#)

MikroTik RB941-2nD-TC

MikroTik hAP lite RB941-2nD-TC Wireless Router User Manual

Model: RB941-2nD-TC

Brand: MikroTik

1. INTRODUCTION

The MikroTik hAP lite TC (RB941-2nD-TC) is a compact wireless access point designed for home, apartment, or office environments. This device integrates a powerful 650MHz CPU, 32MB RAM, and 16MB storage flash, running the versatile RouterOS with a Level 4 license. It features dual-chain 2.4GHz 802.11b/g/n wireless connectivity and four 10/100 Fast Ethernet ports. The hAP lite TC supports button-triggered WPS for easy wireless access and can be configured for various networking tasks including bandwidth shaping, firewall management, and user access control.

2. PACKAGE CONTENTS

Upon opening the package, ensure all items are present:

- MikroTik hAP lite RB941-2nD-TC device
- 5V 1A USB Power Adapter
- Quick Guide / User Manual (this document)

Your browser does not support the video tag.

Video: An overview of the MikroTik hAP lite TC, showcasing its features and contents. This video demonstrates the physical device and its primary components.

3. DEVICE OVERVIEW

Familiarize yourself with the physical components of your hAP lite TC device.

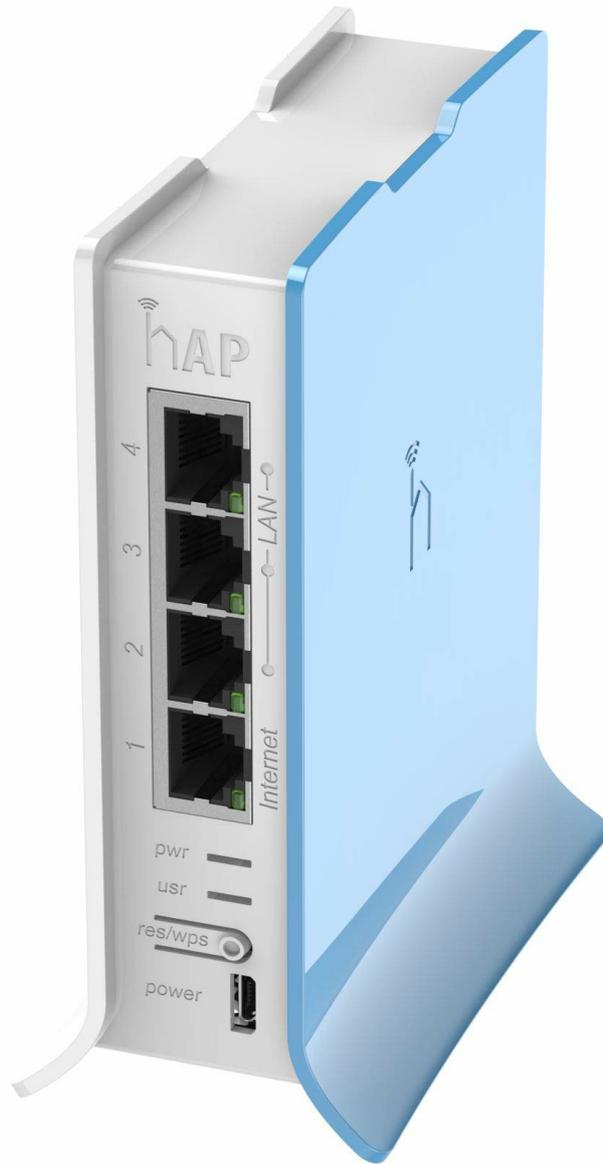


Figure 3.1: Front view of the MikroTik hAP lite TC wireless router, showing its compact design.





Figure 3.2: Rear view of the hAP lite TC, highlighting the four Ethernet ports, power input, and WPS/Reset button.

3.1. Ports and Indicators

- **Ethernet Ports (1-4):** Four 10/100 Mbps Fast Ethernet ports for wired connections. Port 1 is typically used for the internet (WAN) connection, while ports 2-4 are for local area network (LAN) devices.
- **Power Input:** Micro-USB port for connecting the 5V 1A power adapter.
- **WPS/Reset Button:** This button serves a dual purpose. A short press activates WPS (Wi-Fi Protected Setup) for easy connection of wireless devices. A long press during boot-up can be used to reset the device to factory defaults.

- **LED Indicators:**

- **PWR (Power):** Indicates the device is powered on.
- **USR (User):** A programmable LED that can indicate various statuses depending on configuration.
- **RES/WPS:** Indicates WPS activity or reset status.

4. SETUP

Follow these steps to set up your MikroTik hAP lite TC for initial use.

4.1. Initial Connection

1. **Connect Power:** Plug the included 5V 1A USB power adapter into the Micro-USB port on the device and then into a power outlet. The PWR LED should illuminate.
2. **Connect to Internet (WAN):** Connect an Ethernet cable from your internet modem or main router to the **Ethernet Port 1** on the hAP lite TC.
3. **Connect to Computer (LAN):** Connect an Ethernet cable from your computer to any of the **Ethernet Ports 2-4** on the hAP lite TC. Alternatively, you can connect wirelessly to the default Wi-Fi network (SSID and password are usually printed on a sticker on the device).

4.2. Initial Configuration

The hAP lite TC runs RouterOS, which can be configured via a web interface (WebFig) or a dedicated Windows application (WinBox).

1. **Access WebFig:** Open a web browser on your connected computer and navigate to the default IP address (usually 192.168.88.1).
2. **Login:** The default username is admin with no password. It is highly recommended to set a strong password immediately after logging in.
3. **Quick Set:** RouterOS provides a 'Quick Set' interface for basic configurations like setting up your internet connection, Wi-Fi name (SSID), and password. Follow the on-screen prompts.
4. **WPS (Optional):** For quick connection of WPS-enabled wireless devices, press the WPS/Reset button briefly.

For advanced configurations, refer to the comprehensive RouterOS documentation available on the MikroTik website.

5. OPERATING INSTRUCTIONS

Once configured, your hAP lite TC will provide network connectivity. Here are some key operational aspects:

5.1. Wireless Network Usage

- **Connecting Devices:** Search for your Wi-Fi network name (SSID) on your wireless devices (smartphones, laptops, tablets) and enter the password you set during setup.
- **WPS:** If your device supports WPS, you can use the WPS button on the hAP lite TC for a quick, secure connection without typing the password.

5.2. RouterOS Features

RouterOS offers a wide range of features for network management:

- **Bandwidth Management:** Configure Quality of Service (QoS) rules to prioritize certain types of traffic or limit bandwidth for specific users/devices.
- **Firewall:** Set up firewall rules to protect your network from unauthorized access and control outbound traffic.
- **User Access Control:** Manage user accounts, create guest networks, and implement parental controls.

- **VPN:** The device can be configured as a VPN server or client for secure remote access or connecting to other networks.

Detailed guides for these advanced features are available on the MikroTik documentation portal.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your hAP lite TC.

- **Firmware Updates:** Regularly check for and install RouterOS updates. Updates often include bug fixes, security patches, and new features. This can be done via the WinBox application or WebFig interface under 'System' > 'Packages' and 'System' > 'Routerboard' for firmware.
- **Physical Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation holes are not obstructed.
- **Environmental Conditions:** Operate the device within the recommended ambient temperature range of -20°C to 70°C. Avoid exposing it to direct sunlight, high humidity, or extreme temperatures.
- **Secure Configuration:** Periodically review your device's configuration, especially passwords and firewall rules, to maintain network security.

7. TROUBLESHOOTING

If you encounter issues with your hAP lite TC, try the following troubleshooting steps:

- **No Internet Connection:**
 - Check if your modem or main router is working correctly.
 - Ensure the Ethernet cable from your modem is securely connected to Port 1 of the hAP lite TC.
 - Verify your WAN configuration in RouterOS (e.g., DHCP client, static IP).
- **No Wi-Fi Signal or Cannot Connect:**
 - Check if the wireless interface is enabled in RouterOS.
 - Verify the Wi-Fi SSID and password.
 - Ensure your device is within range of the hAP lite TC.
- **Slow Network Speed:**
 - Check for interference from other wireless devices or networks.
 - Review bandwidth shaping rules in RouterOS that might be limiting speed.
 - Ensure your internet service provider (ISP) is delivering the expected speed.
- **Device Unresponsive / Factory Reset:** If the device becomes unresponsive or you need to revert to default settings, disconnect power, then press and hold the WPS/Reset button while reconnecting power. Keep holding the button until the USR LED starts flashing, then release. This will reset the device to its factory default configuration.

For more complex issues, consult the MikroTik online documentation or community forums.

8. SPECIFICATIONS

Feature	Specification
Product Model	RB941-2nD-TC (hAP lite TC)
CPU	QCA9533, 650MHz

Feature	Specification
RAM	32MB
Storage	16MB Flash
Ethernet Ports	4 x 10/100 Mbps Fast Ethernet
Wireless Standards	2.4 GHz 802.11b/g/n
Antenna Gain	1.5 dBi (2.4 GHz)
Operating System	RouterOS Level 4
Power Input	Micro-USB, 5V 1A (adapter included)
Dimensions	5.51 x 7.09 x 2.36 inches (140 x 180 x 60 mm)
Weight	5.7 ounces (162 g)
Operating Temperature	-20°C to 70°C

9. WARRANTY INFORMATION

MikroTik products are covered by a limited warranty. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims. For detailed warranty information, including coverage and procedures, please refer to the official MikroTik website or contact your point of purchase.

10. SUPPORT

For technical assistance, additional documentation, or community support, please utilize the following resources:

- **MikroTik Official Website:** Visit mikrotik.com for the latest RouterOS documentation, software downloads, and product information.
- **MikroTik Wiki:** The MikroTik Wiki (wiki.mikrotik.com) is an extensive resource for configuration examples, tutorials, and in-depth explanations of RouterOS features.
- **MikroTik Forums:** Engage with the MikroTik community and seek assistance from experienced users and experts on the official forums.
- **Authorized Distributors/Resellers:** Contact the vendor from whom you purchased the device for localized support and service.