



MikroTik RB941-2nD-TC hAP lite TC Routers and Wireless User Manual

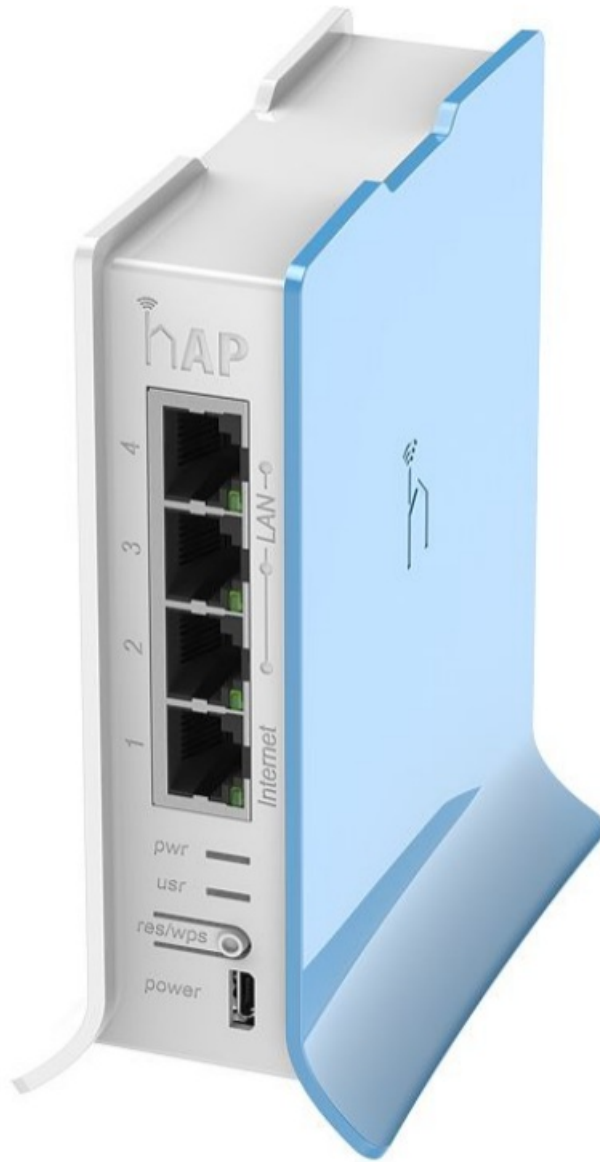
[Home](#) » [Mikrotik](#) » MikroTik RB941-2nD-TC hAP lite TC Routers and Wireless User Manual 

Contents

- [1 MikroTik RB941-2nD-TC hAP lite TC Routers and Wireless](#)
- [2 Quickstart](#)
- [3 MikroTik mobile app](#)
- [4 Powering](#)
- [5 Configuration](#)
- [6 Mounting](#)
- [7 Extension Slots and Ports](#)
- [8 Buttons and Jumpers](#)
- [9 Accessories](#)
- [10 Operating system support](#)
- [11 Notice](#)
- [12 FCC ID: TV7RB941-2ND](#)
- [13 Frequency bands terms of use](#)
- [14 Documents / Resources](#)
- [15 Related Posts](#)



MikroTik RB941-2nD-TC hAP lite TC Routers and Wireless



The hAP lite TC is a simple home wireless access point. It is configured out of the box, you can simply plug in your internet cable and start using wireless internet. We recommend you to set up a password to secure your device, follow these steps.

Quickstart

Please follow these quick steps to set up your device:

- Connect your ISP Ethernet cable to the Ethernet port 1.
- Connect the device to the power source (see “hAP lite TC#Powering”).
- Open network connections on your PC, mobile phone or other device and search for MikroTik wireless network and connect to it.
- Configuration has to be done through the wireless network using a web browser or mobile app – (see “hAP lite TC#MikroTik mobile app”). Alternatively, you can use a WinBox configuration tool <https://mt.lv/winbox>
- Once connected to the wireless network, open <https://192.168.88.1> in your web browser to start configuration, user name: admin and there is no password by default. When using a mobile application choose Quick setup and it will guide you through all necessary configuration in six easy steps.
- We recommend clicking the “Check for updates” button and updating your RouterOS software to the latest

version to ensure the best performance and stability.

- Choose your country, to apply country regulation settings and set up your password on the screen that loads.

MikroTik mobile app

Use the MikroTik smartphone app to configure your router in the field, or to apply the most basic initial settings for your MikroTik home access point.

1. Scan QR code and choose your preferred OS.
2. Install and open application.
3. By default, the IP address and user name will be already entered.
4. Click Connect to establish a connection to your device through a wireless network.
5. Choose Quick setup and application will guide you through all basic configuration settings in a couple of easy steps.
6. An advanced menu is available to fully configure all necessary settings.

Powering

The device accepts powering from the microUSB port:

- The port itself doesn't function as a standard microUSB port for data, it is only used for power. You can use any standard 0.5-2 A USB adapter that usually comes with smartphones. One 5 V 0.7 A USB charger is included in the box. The power consumption under maximum load can reach 3.5 W.

Configuration

Once logged in, we recommend clicking the "Check for updates" button in the QuickSet menu, as updating your RouterOS software to the latest version ensures the best performance and stability. For wireless models, please make sure you have selected the country where the device will be used, to conform with local regulations. RouterOS includes many configuration options in addition to what is described in this document. We suggest starting here to get yourself accustomed to the possibilities:

<https://mt.lv/help> In case IP connection is not available, the Winbox tool (<https://mt.lv/winbox>) can be used to connect to the MAC address of the device from the LAN side (all access is blocked from the Internet port by default).

For recovery purposes, it is possible to boot the device for reinstallation, see section hAP lite TC#Buttons and Jumpers.

Mounting

The device is designed to be used indoors and placed on a flat surface with all needed cables connecting to the front of the unit.

The IP rating scale of this device is IPX0. We recommend using Cat6 shielded cables.

Warning! This equipment should be installed and operated with a minimum distance of 20 cm between the device and your body. Operation of this equipment in the residential environment could cause radio interference.

<https://help.mikrotik.com/docs/display/UM/hAP+lite+TC>

Extension Slots and Ports

- Four individual 10/100 Ethernet ports, supporting automatic cross/straight cable correction (Auto MDI/X), so

you can use either straight or cross-over cables for connecting to other network devices.

- Integrated Wireless 2.4 GHz b/g/n, onboard PIF antennas, max gain 1.5 dBi.

Buttons and Jumpers

The reset button has the following functions:

- Hold this button during boot time until LED light starts flashing, release the button to reset RouterOS configuration (total 5 seconds).
- Keep holding for 5 more seconds, LED turns solid, release now to turn on CAP mode. The device will now look for a CAPsMAN server (total 10 seconds).
- Or Keep holding the button for 5 more seconds until LED turns off, then release it to make the RouterBOARD look for Netinstall servers (total 15 seconds).

Regardless of the above option used, the system will load the backup RouterBOOT loader if the button is pressed before power is applied to the device. Useful for RouterBOOT debugging and recovery.

Accessories

Package includes the following accessories that come with the device:

- EU Power Adapter 5 V DC 0.7 A.

Operating system support

The device supports RouterOS software version 6. The specific factory-installed version number is indicated in the RouterOS menu /system resource. Other operating systems have not been tested.

Notice

- The Frequency band 5.470-5.725 GHz isn't allowed for commercial use.
- In case WLAN devices work with different ranges than the above regulations, then a customized firmware version from the manufacturer/supplier is required to be applied to the end-user equipment and also prevent the end-user from reconfiguration.
- For Outdoor Usage: End-user requires approval/license from the NTRA.
- Datasheet for any device is available on the official manufacturer website.
- Products with the letters "EG" at the end of their serial number have their wireless frequency range limited to 2.400 – 2.4835 GHz, the TX power is limited to 20dBm (EIRP). Products with the letters "EG" at the end of their serial number have their wireless frequency range limited to 5.150 – 5.250 GHz, the TX power is limited to 23dBm (EIRP). Products with the letters "EG" at the end of their serial number have their wireless frequency range limited to 5.250 – 5.350 GHz, the TX
- power is limited to 20dBm (EIRP).

Please make sure the device has a lock package (firmware version from the manufacturer) which is required to be applied to the end-user equipment to prevent the end-user from reconfiguration. The product will be marked with country code "-EG". This device needs to be upgraded to the latest version to ensure compliance with local

authority regulations! It is the end users responsibility to follow local country regulations, including operation within legal frequency channels, output power, cabling requirements, and Dynamic Frequency Selection (DFS) requirements. All MikroTik radio devices must be professionally installed.

FCC ID: TV7RB941-2ND

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter.

IMPORTANT: Exposure to Radio Frequency Radiation.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and any part of your body.

Innovation, Science and Economic Development Canada

IC:7442A-9412ND

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference;
2. This device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT: Exposure to Radio Frequency Radiation.

This equipment complies with the IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and any part of your body.

Cet équipement est conforme aux limites d'exposition au rayonnement IC définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et toute partie de votre corps.

CAN ICES-3 (B)/NMB-3(B)FCC

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CE Declaration of Conformity

Hereby, Mikrotiks SIA declares that the radio equipment type RouterBOARD is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
<https://mikrotik.com/products>

MPE statement

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body, unless specifically stated otherwise in page 1 of this document. In RouterOS you must specify your country, to make sure local wireless regulations are observed.

Frequency bands terms of use


Frequency range (for applicable models)	Channels used	Maximum Output Power (EIRP)	Restriction
<u>2412-2472 MHz</u>	1 – 13	20 dBm	Without any restriction to use in all EU Member States
<u>5150-5250 MHz</u>	26 – 48	23 dBm	Restricted to indoor use only*
<u>5250-5350 MHz</u>	52 – 64	20 dBm	Restricted to indoor use only*
<u>5470-5725 MHz</u>	100 – 140	27 dBm	Without any restriction to use in all EU Member States

* It is the customer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, cabling requirements, and Dynamic Frequency Selection (DFS) requirements. All Mikrotik radio devices must be professionally installed!

Note. The information contained here is subject to change. Please visit the product page on www.mikrotik.com for the most up-to-date version of this document.

<https://help.mikrotik.com/docs/display/UM/hAP+lite+TC>

Documents / Resources

	MikroTik RB941-2nD-TC hAP lite TC Routers and Wireless [pdf] User Manual RB941-2nD-TC, hAP lite TC Routers and Wireless
---	--