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hAP ax S

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Safety Warnings

Before you work on any equipment, be aware of the hazards involved with electrical circuitry, and be familiar with standard practices for preventing accidents.

Ultimate disposal of this product should be handled according to all national laws and regulations.

The Installation of the equipment must comply with local and national electrical codes.

This unit is intended to be installed in the rackmount. Please read the mounting instructions carefully before beginning installation. Failure to use the correct hardware or to follow the correct procedures could result in a hazardous situation to people and damage to the system.

This product is intended to be installed indoors. Keep this product away from water, fire, humidity, or hot environments.

Use only the power supply and accessories approved by the manufacturer, which can be found in the original packaging of this product.

Read the installation instructions before connecting the system to the power source.

We cannot guarantee that no accidents or damage will occur due to the improper use of the device. Please use this product with care and operate at your own risk!

In the case of device failure, please disconnect it from power. The fastest way to do so is by unplugging the power plug from the power outlet.

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.

Exposure to Radio Frequency Radiation: This MikroTik equipment complies with the FCC, IC, and European Union radiation exposure limits set forth for an uncontrolled environment. This MikroTik device should be installed and operated no closer than 20 centimeters from your body, occupational user, or the general public.

Powering

- Number of DC inputs: 2 (DC jack, PoE-IN).
- PoE-in input Voltage: 18-28 V.
- DC jack input Voltage: 12-28 V.
- PoE-out ports: Ether5.
- Max total out: 0.6 A.

- Total output power: 16.8 W.
- Power adapter nominal voltage 24 V.
- Power adapter nominal current 1.5 A.
- Max power consumption (without attachments) 11 W.
- Max power consumption 34 W.

Setup

1. Ensure your Internet Service Provider (ISP) allows hardware changes and automatically assigns an IP address;
2. Connect the ISP cable to the Ethernet1 port;
3. Connect the device to the power source;
4. Connect to the device through any of the ports, excluding Ethernet1, or the wireless network "MikroTik-..." (ensure to check the wireless passwords on the sticker); **multiple configuration methods are available to ensure accessibility**;
5. Establish a connection using a mobile application. Alternatively, use WebFig in a web browser or the "WinBox" configuration tool at <https://mt.lv/WinBox>;
6. Start configuration within the chosen tool, using the default IP address 192.168.88.1. If the IP address is unavailable, use WinBox and choose the "Neighbors" tab to find the device;
7. Proceed to connect using the MAC address. The username is "admin", and there is no password (or, for some models, check user and wireless passwords on the sticker);
8. Click the "Check for updates" button and update RouterOS to the latest version;
9. For a manual update of the device, visit mikrotik.com, select your model, and locate the required packages in the "Downloads" section;
10. Upload downloaded packages to the WebFig or WinBox "Files" menu and reboot the device;
11. By upgrading your RouterOS software to the latest version, you can ensure optimal performance, stability, and security updates;
12. In the "QuickSet" menu set up the following: Choose your country, to apply country regulation settings;
13. Set up your wireless network password in the left field;
14. Set up your router password in the bottom field.

Configuration

We recommend clicking the "Check for updates" button and updating your RouterOS software to the latest version to ensure the best performance and stability. 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 an 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 from the network, see section [Buttons and jumpers](#).

Extension slots and ports

- Product code: E62iUGS-2axD5axT.
- CPU Dual-Core: EN7562CT.
- CPU architecture ARM 32-bit.
- Size of RAM: 512 MB.
- Storage: 128 MB, NAND.
- A number of 1G Ethernet ports: 5.
- A number of 1G Ethernet ports with PoE-out 1.
- Switch chip model: EN7523.
- Wireless interface model: MT7976 (2.4 GHz), MT7976 (5 GHz).
- Wireless: 2.4 GHz 802.11b/g/n/ax dual-chain, 5 GHz 802.11a/n/ac/ax dual-chain.
- Wireless antenna max gain: 2.4 GHz (5.5 dBi), 5 GHz (8.07 dBi).
- Dimensions: 127.7 x 156.3 x 35.7 mm.
- Operating system: RouterOS, License level 4.
- Operating temperature: -40°C to 70°C.

Buttons and jumpers

The reset button has three functions:

- Hold this button during boot time until the LED light starts flashing, and release the button to reset the RouterOS configuration (total 5 seconds).
- Keep holding for 5 more seconds, the 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 the 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.

Operating system support

The device supports RouterOS software version 7 or above. The specific factory-installed version number is indicated in the RouterOS menu /system resource. Other operating systems have not been tested.

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.

-  To avoid pollution of the environment, please separate the device from household waste and dispose of it in a safe manner, such as at designated waste disposal sites. Familiarize yourself with the procedures for the proper transportation of the equipment to the designated disposal sites in your area.

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