MIKroTik BaseBox 2 Routers and Wireless Instruction Manual

Quick Guide G7 – BaseBox 2
Models: RB912UAG-2HPnD-OUT (BaseBox 2)
Quick Guide:

Contents

Base Box 2 Routers and Wireless

This device needs to be upgraded to RouterOS v7.10.1 or 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
This "BaseBox 2" series Quick Guide covers models: RB912UAG-2HPnD-OUT (BaseBox 2).
This is Wireless Network Device. You can find the product model name on the case label
(ID).

https://mt.lv/um

Please visit the user manual page on https://mt.lv/um for the full up-to-date user manual. Or scan the QR code with your mobile phone.
The most important technical specifications for this product can be found on the last page of this Quick Guide.
Technical specifications, brochures, and more info about products at https://mikrotik.com/products
Configuration manual for software in your language with additional information can be found at https://mt.lv/help
MikroTik devices are for professional use. If you do not have qualifications please seek a consultant https://mikrotik.com/consultants
Depending on the antenna used, you must set its gain. This is to ensure that EIRP meets the limit set by the local authorities. This is done in the Web Fig Quickset menu.

First steps:

- Remove top cover;
- Connect your antenna to the connectors;
- Open the bottom cover;
- Connect Ethernet cable to the port;
- Connect Ethernet cable to the PoE injector;
- Connect the PoE injector to a PC;
- Connect included power adapter to the PoE;
- Download the configuration tool https://mt.lv/winbox;
- Open and connect to the device, the IP: 192.168.88.1, user name: admin, no password (or, for some models, check user and wireless passwords on the sticker);
- If an IP Address is not available, then open the Neighbors tab;
- Connect using MAC address;
- Download the latest RouterOS software from https://mikrotik.com/download;
- Choose MIPSBE packages, and save them to your PC;
- Open WinBox and upload downloaded packages, use a mouse and drag the file into any windows;
- Restart the device;
- Connect again and in the QuickSet menu set your Country, to apply country regulation settings;
- Set antenna gain, depending on what antenna is used;
- Secure your device and set a strong password.

Safety Information:

- Before you work on any MikroTik equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. The installer should be familiar with network structures, terms, and concepts.

- Use only the power supply and accessories approved by the manufacturer, and which can be found in the original packaging of this product.
- This equipment is to be installed by trained and qualified personnel, as per these installation instructions. The installer is responsible for making sure, that the Installation of the equipment is compliant with local and national electrical codes. Do not attempt to disassemble, repair, or modify the device.
- This product is intended to be mounted outdoors on a pole. Please read the mounting instructions carefully before beginning installation. Failure to use the correct hardware and configuration or to follow the correct procedures could result in a hazardous situation for people and damage to the system.
- 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 adapter from the power outlet.
- This is a Class A product. In a domestic environment, this product might cause radio interference in which case the user might be required to take adequate measures.

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 142 centimeters from your body, occupational user, or the general public.
Manufacturer: Mikrotikls SIA, Unijas 2, Riga, Latvia, LV1039.

Federal Communication Commission Interference Statement

FCC ID: TV7RB912G-2HPND

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense 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.

Note: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance.

Antenna Installation WARNING: It is the installer's responsibility to ensure that when using the authorized antennas in the USA (or where FCC rules apply); only those antennas certified with the product are to be used. The installer should configure the output power level of antennas, according to country regulations and per antenna type. Professional installation is required for equipment with connectors to ensure compliance with health and safety issues.

LIST OF APPROVED 2.4 GHz ANTENNAS:

- 15 dBi Omni Directional (Model: WLO-2450-15)
- 13 dBi Omni Directional HP (Model: ODH 24-13)
- 17 dBi Sector (Model: SA 24-90-17-WB)
- 20 dBi Panel (Model: WLP-2450-20)
- 24 dBi Dish (Model: DC 24-HD-PFIP)

  The same type of antenna and lower antenna gain than those listed above may also be used in accordance with certification.

Innovation, Science and Economic Development Canada
IC: 7442A-912G2HPND
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.
This Class A digital apparatus complies with Canadian ICES-003.
CAN ICES-003 (A) / NMB-003 (A)
Antenna Installation WARNING: It is the installer's responsibility to ensure that when using the authorized antennas in Canada (or where IC rules apply); only those antennas certified with the product are to be used. The installer should configure the output power level of antennas, according to country regulations and per antenna type. Professional installation is required for equipment with connectors to ensure compliance with health and safety issues.
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UKCA marking UK CA

CE Declaration of Conformity

Hereby, Mikrotīkls 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**

WLAN

Operating Frequency / Maximum output power
2400-2483.5 / 20 dBm
This MikroTik device meets Maximum TX power limits per ETSI regulations. For more detailed information see Declaration of Conformity above

Technical Specifications

Product Power	DC Adapter Output	IP	Operating
Input Options	Specification, (V/A)	class of the enclosure	Temperature
PoE In Ethernet Port	24 V / 0.8	IP54	-40°..+70°C

MIKROTIK

Documents / Resources

	MIKroTik BaseBox 2 Routers and Wireless [pdf] Instruction Manual BaseBox 2 Routers and Wireless, BaseBox 2, Routers and Wireless, Wireless

References

- MikroTik Routers and Wireless - Support
- MikroTik Routers and Wireless - Buy
- MikroTik Routers and Wireless - Support
- MikroTik Routers and Wireless - Software
- User Manual