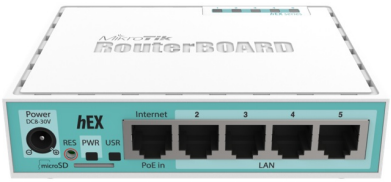
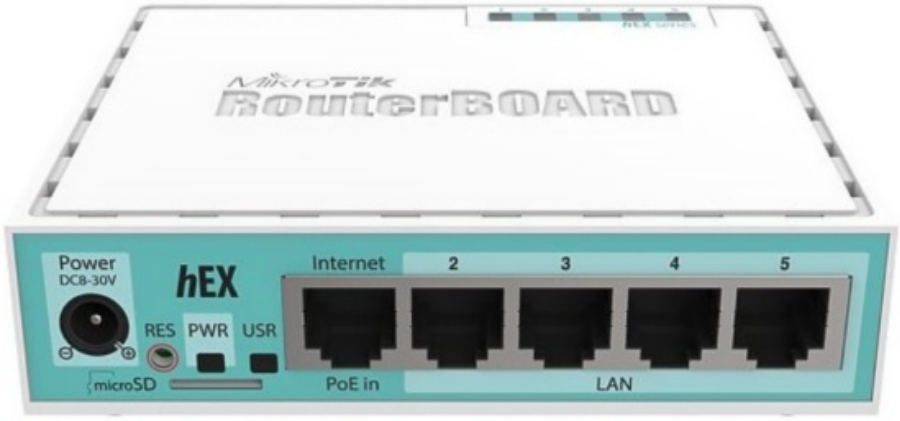


MikroTik hEX RB750Gr3 Router and Wireless User Manual

hEX RB750Gr3 Router and Wireless User Manual



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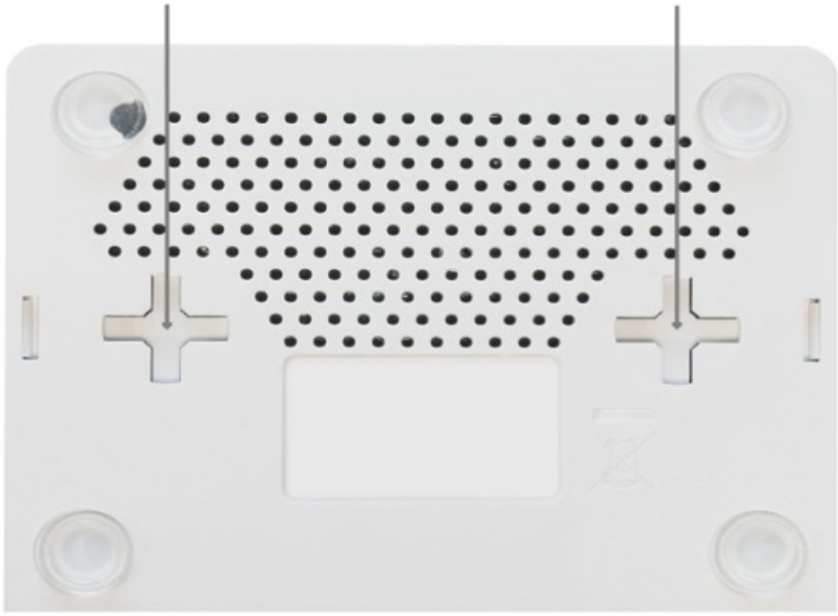
First use

1. Choose your powering solution, please see **Powering** section for possibilities.
2. Connect your Internet cable to port 1 (labeled “Internet”), and local network computers to ports 2-5.
3. Connect your direct input power jack if not using POE, to start up the device.
4. If using POE please see section POE Adapter on how to connect.
5. The device will boot up and after a short beep, the network will be available for connecting.
6. Set your computer IP configuration to automatic (DHCP).
7. Once connected to the network, open **https://192.168.88.1** in your web browser to start configuration, since there is no password by default, you will be logged in automatically.
8. We recommend clicking the “Check for updates” button and updating your RouterOS software to the latest version to ensure the best performance and stability.
9. Set up your password on the screen that loads.

Mounting

This device is designed for use indoors by placing it on a flat surface or mounting it on the wall, mounting points are shown in the picture below, and screws are not included in the package. Screws with size 4×25 mm fit nicely, depending on your wall structure you can use dowels 6×30 mm and 6 mm drill bit if needed. When mounting on the wall, please ensure that the cable feed is pointing downwards. We recommend using a Cat6 cable for our devices. The IP rating scale for this device is IPX0.



Powering

The device accepts power from the power jack or from the first Ethernet port (Passive PoE):

- Direct input power jack (5.5mm outside and 2mm inside, female, pin positive) accepts 8-30 V DC.
- The first Ethernet port accepts passive Power over Ethernet 8-30 V DC. 12 V or more is recommended to compensate for the loss in cables.

The power consumption of this device under maximum load with attachments is 10 W. Without attachments 5 W.

Booting process

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 a section Reset button.

Extension Slots and Ports

The device has five individual 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.

- MicroSD card slot.
- USB type-A slot.

Buttons and jumpers

Reset button

The RouterBOOT reset button has the following functions. Press the button and apply the power, then:

- Release the button when the green LED starts flashing, to reset the RouterOS configuration to defaults.
- Release the button when the LED turns solid green to clear all configurations and bridge all interfaces.
- Release the button after LED is no longer lit (~20 seconds) to cause a device to look for Netinstall servers (required for reinstalling RouterOS over the network).

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.

Mode button

The action of the mode buttons can be configured from RouterOS software to execute any user-supplied RouterOS script. You can also disable this button.
The mode button can be configured in RouterOS menu /system routerboard mode-button

Connecting to a POE Adapter:

1. Connect the Ethernet cable from the device to the POE port of the POE adapter.
2. Connect an Ethernet cable from your LAN to the LAN port of the POE adapter, please mind arrows for data and power flow.
3. Connect the power cord to the adapter, and then plug the power cord into a power outlet.

Accessories

The package includes the following accessories that come with the device:

- DC EU/US Switching Power Supply 24 V, 0.38 A, 9 W, Level VI, cable:1.5 m.

Specifications

For more information about this product, specifications, and pictures please visit our web page: https://mikrotik.com/product/RB750Gr3

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.

Federal Communication Commission Interference Statement

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 or more 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.
Note: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance.
Innovation, Science, and Economic Development Canada
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.

CAN ICES-003 (B) / NMB-003 (B)

CE Declaration of Conformity

Hereby, Mikrotīkls SIA declares that the radio equipment type RouterBOARD is in compliance with Directive 2014/30/EU. The full text of the EU declaration of conformity is available at the following internet address:
https://mikrotik.com/products

Documents / Resources

	MikroTik hEX RB750Gr3 Router and Wireless [pdf] User Manual hEX RB750Gr3, Router and Wireless, hEX RB750Gr3 Router and Wireless

References

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- hEX - User manuals - MikroTik Documentation
- User Manuals - User manuals - MikroTik Documentation
- Labeled content - User manuals - MikroTik Documentation
- MikroTik Routers and Wireless - Products: hEX
- Collaboration software for software, IT and business teams

Manuals+,