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RB960PGS-PB
PowerBox
Pro MikroTik
Router Board

RB960PGS-PB PowerBox Pro MikroTik Router Board User Manual

Contents

RB960PGS-PB PowerBox Pro MikroTik Router Board

Specifications

- Product Name: PowerBox Pro (RB960PGS-PB)
- Ports: 5 Gigabit Ethernet ports
- Power Output: PoE to ports 2-5 (1 A maximum per port, 2 A total maximum)
- Power Consumption: 6 W without attachments, Max 54 W
- Power Input: 12-57 V DC

Created by **Oskars K**., last updated on **Aug 25, 2022** • 6 minute read

PowerBox Pro

PowerBox Pro (RB960PGS-PB)

The PowerBox is an outdoor device with five Gigabit Ethernet ports that supporting PoE power output to ports 2-5 (1 A maximum per port, 2 A total maximum).

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 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.
- Use only the power supply and accessories approved by the manufacturer, and 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 devices must be professionally installed.

First use

- Connect your WAN cable to port 1, and the other devices to ports 2-5.
- Set client device IP configuration to automatic (DHCP).
- The default IP address from ports 2-5 (LAN) is 192.168.88.1.
- The username is admin, there is no password (or, for some models, check user and wireless passwords on the sticker).
- Use the WinBox configuration tool if the IP address is not available and connect through MAC Address.

Powering

The power consumption of this device without attachments is 6 W, Max power consumption is 54 W. The device accepts power from the power jack or from the first Ethernet port (Passive PoE):

- Direct-input power jack (5.5 mm outside and 2 mm inside, female, pin positive plug) accepts 12-57 V DC.
- The ether1 port accepts Passive PoE input 12-57 V DC.

Mounting

It is possible to attach the device to a DIN rail, using provided DIN rail bracket and screws. Since the device has a weatherproof outdoor case, you can mount it on a pole, with provided two zip ties or a steel clamp. The ground cable needs to be attached to a specially designed screw on the backside of the unit.

Please make sure to mount the device with the Ethernet ports facing down.

Booting process

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 on Buttons and jumpers.

Extension Slots and Ports

- CPU nominal frequency 800 MHz
- Size of RAM 128 MB
- Memory size 16 MB
- 10/100/1000 Ethernet ports 5
- SFP 1
- Switch chip model QCA8337
- Dimensions 125 x 52 x 225 mm

- Operating temperature -40°C .. +70°C tested

Power output

The device supports passive or standard 802.3at/af PoE input/output. Ethernet ports 2-5 can power other PoE-capable devices with the same voltage as applied to the unit. Fewer power adapters and cables to worry about! It can power af/at mode B (4,5+)(7,8-) compatible devices if 48-57 V input voltage is used. The maximum power output per port is 1 A, and 2 A total using input voltage 12-30 V. Using input voltage 31-57 V power limit per port is 450 mA. Once Power Output is enabled in RouterOS, the Ethernet LED adds red color to it (green means Ethernet link is made, red means power but no link, red and green both means there is link and power).

Buttons and Jumpers

The reset button has three functions:

- Hold this button during boot time until LED light starts flashing, release the button to reset the RouterOS configuration.
- Or Keep holding the button for 5 more seconds until LED turns off, then release it to make the RouterBOARD look for Netinstall servers.

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 with the version number at or above what is indicated in the RouterOS menu /system cresource. Other operating systems have not been tested.

Including Parts

24V 2.5A power adapter   DIN mount (K-27)   IEC cord   Gigabit PoE injector   Metal rings (two)

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

UKCA marking

UK
CA

Eurasian Conformity Mark

EAC

CE Declaration of Conformity

Manufacturer: Mikrotikls SIA, Brivibas gatve 214i Riga, Latvia, LV1039. The full text of the EU Declaration of Conformity is available at the following internet address: **https://mikrotik.com/products**

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.

- **powerbox**
- **powerboxpro**

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FAQ

- **Q: How do I reset the PowerBox Pro?**
  - A: Hold the reset button during boot until LED flashes for RouterOS reset, or for Netinstall server search. Hold longer for RouterBOOT loader backup.
- **Q: Can the PowerBox Pro be powered by PoE?**
  - A: Yes, the device accepts Passive PoE input through the Ether1 port.

Documents / Resources

	mikroTik RB960PGS-PB PowerBox Pro MikroTik Router Board [pdf] User Manual RB960PGS-PB PowerBox Pro MikroTik Router Board, RB960PGS-PB, PowerBox Pro MikroTik Router Board, MikroTik Router Board, Router Board

References

- **MikroTik Routers and Wireless**
- **Pages - User manuals - MikroTik Documentation**