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MikroTIK CCR2004-1G-12S+2XS Cloud Core Router

MikroTIK CCR2004-1G-12S+2XS Cloud Core Router User Manual

Contents

MIKROTIK

MikroTIK CCR2004-1G-12S+2XS Cloud Core Router

The CCR2004 is a high-performance multicore router with twelve 10G SFP+ ports and two 25G SFP28 ports.

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, 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.

Quick start

- Connect with your computer to the device using Ethernet cable;
- Download the configuration tool **https://mt.lv/winbox**;
- Open the Neighbors tab and connect to the device using the MAC address;
- The user name: is admin, by default, there is no password (or, for some models, check user and wireless passwords on the sticker).;
- To update the device to the latest software version download the latest RouterOS software from **https://mikrotik.com/download**;
- Choose ARM64 packages, and save them to your computer;
- Return to the WinBox and upload downloaded packages to the Files menu;
- Restart the device.
- Detailed info on how to upgrade the device **https://mt.lv/upgrade**; Set a strong password.

Powering

The device has dual integrated power supply units AC 110-240V (5 A) with standard IEC compatible sockets with a Maximum power consumption of 32 W, with attachments of 49 W.

Configuration
The Ethernet port 1 has a default IP address for connecting: 192.168.88.1. The username is admin and there is no password. The device doesn't have any other configuration applied by default, please set up WAN IP addresses, and user passwords, and update the device. 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 the 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 For recovery purposes, it is possible to boot the device for reinstallation, see a section Reset button.

Specifications

- Size of RAM notice – RouterOS v6 will support 1792MB ECC / to fully utilize please use RouterOS v7 4GB ECC.
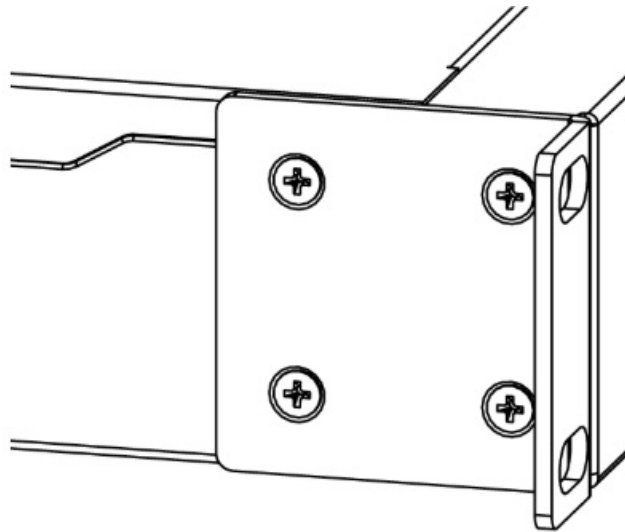
Reset button
The reset button has two functions:

- Hold this button during boot time until the LED light starts flashing, and release the button to reset the RouterOS configuration.
- 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.

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.

Mounting

The device is designed to use indoors and it can be mounted in a rackmount enclosure using provided rack mounts, or it can be placed on the desktop. Use a Phillips screwdriver to attach rackmount ears on both sides of the device if designated use is for rackmount enclosure:

1. Attach rack ears to both sides of the device and tighten four screws to secure them in place, as shown on the picture to the right;
2. Place the device in a rackmount enclosure and align it with the holes so that the device fits conveniently;
3. Tighten screws to secure it in place.

The device has no protection from water contamination, please ensure the placement of the device in a dry and ventilated environment. We recommend Cat6 cables for our devices.

Included Parts

2x IEC cords

Screw and feet kit
(K10)

Rackmount bracket
white

Operating System Support

The device supports RouterOS software with version number v7 at or above what is indicated in the RouterOS menu /system resource. Other operating systems have not been tested.

Safety Notice

- Electric shock hazard. This equipment is to be serviced by trained personnel only.
- 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.

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 the 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 complies with Industry Canada's license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

- This Class B digital apparatus complies with Canadian ICES-003.

CE Declaration of Conformity

Manufacturer: Mikrotik 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**

- 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/pages/viewpage.action**?pageId=23396361

Documents / Resources

MikroTIK CCR2004-1G-12S+2XS Cloud Core Router [pdf] User Manual
CCR2004-1G-12S 2XS Cloud Core Router, CCR2004-1G-12S 2S, Cloud Core Router, Core Router, Router

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