



MIKROTIK CRS354 Routers and Wireless Switch User Manual

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MIKROTIK CRS354 Routers and Wireless Switch



Product Information

Specifications

- 48 Gigabit Ethernet ports
- Four 10G SFP+ ports
- Two 40G QSFP+ ports
- 1x RJ45 console port (set at 115200bits/s, 8 data bits, 1 stop bit no parity)
- 1x 10/100Mbit Ethernet port for management access
- Three cooling fans with automatic speed control
- Two integrated power supply units with AC inputs for redundancy

Mounting

The device is designed for indoor use and can be mounted in a rackmount enclosure or placed on a desktop.

1. Attach the bracket to the front right side.
2. Attach the rear right bracket.
3. Attach the bracket to the left front side.
4. Attach the rear left bracket.
5. Attach long brackets to the rackmount and install the device with the holes so that the device fits conveniently.
6. If needed, install cable management brackets.

Please ensure the placement of the device in a dry and ventilated environment, as it has no protection from water contamination. We recommend using Cat6 cables for our devices. The mounting and configuration of this device should be done by a qualified person.

Powering

Connect two powering units to the AC source using power cords.

Reset Button

The RouterBOOT reset button has the following functions:

- Press the button and apply 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 configuration and defaults.
- Release the button after the LED is no longer lit (~20 seconds) to cause the 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. This can be useful for RouterBOOT debugging and recovery.

Product Usage Instructions

Quick Start

1. Mount the unit in a rackmount cabinet or place it on a flat surface.
2. Connect two powering units to the AC source using power cords.
3. Connect the device to your network using an Ethernet cable.
4. Use the MikroTik Winbox utility to connect to the default IP address of 192.168.88.1 from any port with the username admin and no password (or check user and wireless passwords on the sticker for some models).
5. If the IP address is not available, use Neighbors to connect through MAC address.
6. Click the “Check for updates” button in Winbox and update your RouterOS software to the latest version.
7. Set up a password to secure the device.

Manual Software Update

1. Go to the MikroTik website and choose packages for this device (MIPSBE).
2. Download the packages to your PC.
3. In Winbox, go to the Files menu and upload the downloaded packages.
4. Reboot the device to apply the updates.

FAQ

Q: What are the available ports on the CRS354?

A: The CRS354 has 48 Gigabit Ethernet ports, four 10G SFP+ ports, two 40G QSFP+ ports, 1x RJ45 console port, and 1x 10/100Mbit Ethernet port for management access.

Q: How do I reset the device to its default configuration?

A: Press and hold the RouterBOOT reset button while applying power to the device. Release the button when the green LED starts flashing to reset the RouterOS configuration to defaults.

Q: How do I update the RouterOS software?

A: In Winbox, click the “Check for updates” button and update your RouterOS software to the latest version. Alternatively, you can manually update the software by downloading the packages from the MikroTik website and uploading them to the device using the Files menu in Winbox.

Q: What cables should I use with this device?

A: We recommend using Cat6 cables for our devices.

The CRS354 is a network switch with 48 Gigabit ports and four 10G SFP+ ports, and two 40G QSFP+ ports. The device is ready to use as a switch.

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 devices must be professionally installed.

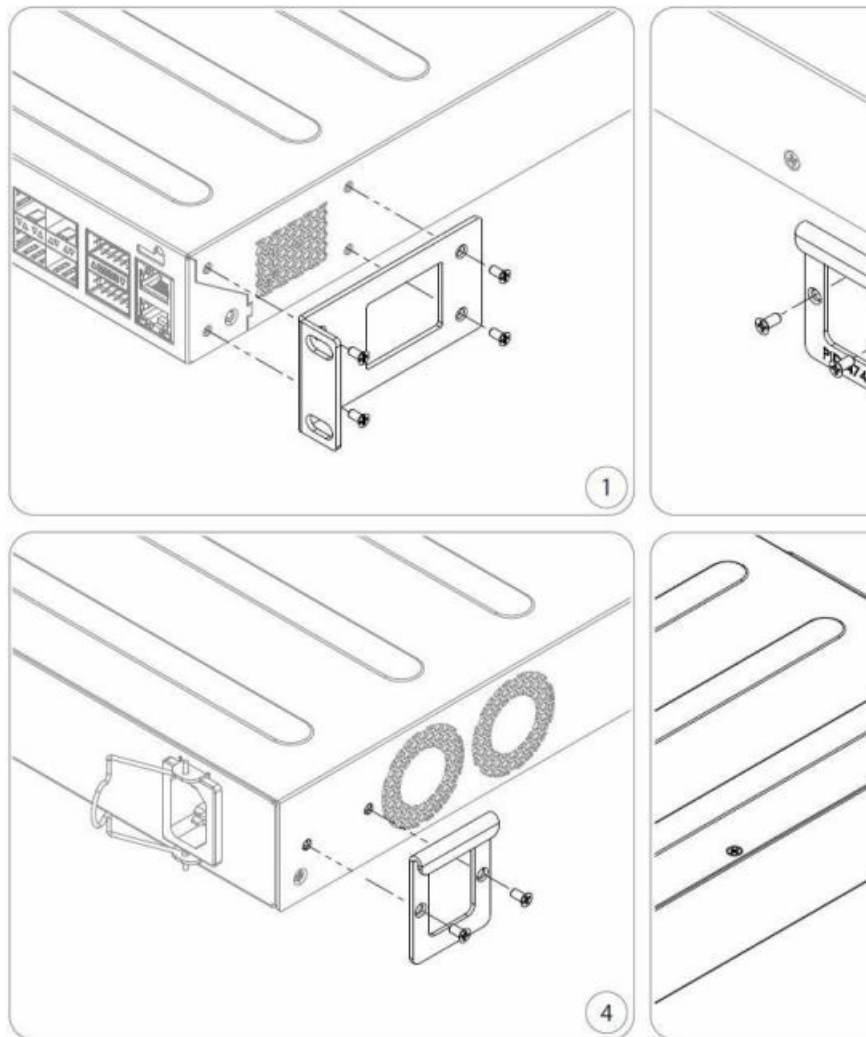
Quick start

- Mount the unit in a rackmount cabinet or place it on a flat surface (see "Mounting").
- Connect two powering units to the AC source using power cords.
- The Initial connection has to be done via the Ethernet cable, using the MikroTik Winbox utility.
- Use Winbox to connect to the default IP address of 192.168.88.1 from any port, with the username admin and no password (or, for some models, check user and wireless passwords on the sticker). In case IP is not available, use Neighbors to connect through MAC address.
- We recommend clicking the "Check for updates" button and updating your RouterOS software to the latest version to ensure the best performance and stability. The device needs to have an active internet connection.
- To manually update the device, please go to
- Choose packages for this device (MIPSBE) and download them to your PC.
- Upload downloaded packages to the (Winbox) (Files) menu and reboot the device.
- Updating your RouterOS software to the latest version will ensure the best performance, stability, and security updates.
- Set up your password to secure the device.

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 and for both sides of the back of the device if designated use is for rackmount enclosure:

1. Attach the bracket to the front right side.
2. Attach the rear right bracket.
3. Attach the bracket to the left front side.
4. Attach the rear left bracket.
5. Attach long brackets to the rackmount and install the device with the holes so that the device fits conveniently.
6. If needed, install cable management brackets.



- 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.
- The mounting and configuration of this device should be done by a qualified person.

Extension slots and ports

- 48 of Gigabit Ethernet ports.

- Four 10G SFP+ ports.
- Two 40G QSFP+ ports.
- 1x RJ45 console port (set at 115200bits/s, 8 data bits, 1 stop bit no parity).
- 1x 10/100Mbit Ethernet port for management access.
- Three cooling fans with automatic speed control.
- Two integrated power supply units with AC inputs for redundancy.

Please visit wiki pages for MikroTik SFP module compatibility and configuration table:

https://wiki.mikrotik.com/wiki/MikroTik_SFP_module_compatibility_table

Powering

- The device accepts powering from two inputs of 100 – 240 V AC .
- The power consumption of this device under maximum load is up to 50 W. With attachments 60 W.

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 configuration and defaults.
- 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.
- Netinstall needs to be performed through the MGMT port on this device.

Accessories

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



2x IEC cords



Screw and feet kit
(K10)



Cable managment
brackets



Rackmount ears
(CRS354)

Please visit the wiki pages for the MikroTik SFP module compatibility

table: https://wiki.mikrotik.com/wiki/MikroTik_SFP_module_compatibility_table

Specifications

For more information about this product, specifications, and pictures please visit our web

page: https://mikrotik.com/product/crs354_48g_4splus2qplusrm

Operating system support

The device supports RouterOS v6. The specific factory-installed version number 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.

Swos

To install swos make sure your device has an active Internet connection.

```
/system swos upgrade
```

```
/system swos reset-config
```

```
/system swos set address-acquisition-mode=static static-ip-address=192.168.88.1
```

Federal Communication Commission Interference Statement

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.

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 A digital apparatus complies with Canadian ICES-003.

CE Declaration of Conformity


Manufacturer: Mikrotiks 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.

Documents / Resources

	MIKROTIK CRS354 Routers and Wireless Switch [pdf] User Manual CRS354 Routers and Wireless Switch, CRS354, Routers and Wireless Switch, Wireless Switch , Switch
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References

-  [MikroTik Routers and Wireless](#)
-  [MikroTik Routers and Wireless - Buy](#)
-  [MikroTik Routers and Wireless - Buy](#)
-  [MikroTik Routers and Wireless - Products: CRS354-48G-4S+2Q+RM](#)
-  [MikroTik Routers and Wireless - Products](#)
-  [MikroTik SFP module compatibility table - MikroTik Wiki](#)
- [User Manual](#)