




MikroTik CSS610-8G-2S+IN Cloud Smart Switch User Manual

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MikroTik CSS610-8G-2S+IN Cloud Smart Switch



Product Information

- **Product Name:** CSS610-8G-2S+IN

- **Safety Warnings:** Please refer to the user manual for safety warnings and precautions.
- **Powering:** The device can be powered through a power jack or the first Ethernet port using Passive PoE. The power jack accepts 12-57V DC, and the first Ethernet port accepts passive PoE input in the same voltage range.
- **Configuration:** The device uses SwOS as its operating system. It offers various configuration options. For detailed configuration information, please refer to the user manual or visit <https://mt.lv/help>.
- **Extension Slots and Ports:**
 - Eight Gigabit Ethernet ports with automatic cross/straight cable connection support (Auto MDI/X).
 - Two SFP+ ports for 10G SFP+ usage.
- **Operating System Support:** The device only supports SwOS as its operating system.
- **Mounting:** The device can be mounted in a rackmount enclosure or placed on a desktop. Rackmount ears are provided for mounting in a rackmount enclosure. Please follow the instructions in the user manual for proper mounting.

Product Usage Instructions

1. Download the latest SwitchOS software version from <https://mikrotik.com/download>.
2. Connect your computer to any of the Ethernet ports on the device.
3. Connect the device to a power source using either the power jack or the first Ethernet port with Passive PoE.
4. Set the IP address of your computer to 192.168.88.3.
5. Open your web browser and enter the default management IP address, which is either 192.168.88.1 or 192.168.88.2.
6. Enter the username “admin” and leave the password field blank (or refer to the user manual for specific credentials).
7. Upload the SwitchOS software file to the Upgrade tab in the web browser. The device will reboot after the upgrade.
8. Set up a password to secure the device.
9. If using a PoE adapter, follow these steps:
 1. Connect the Ethernet cable from the device to the PoE+DATA port of the PoE adapter.
 2. Connect an Ethernet cable from your local network (LAN) to the PoE adapter.
 3. Connect the power cord to the adapter and plug it into a power outlet.
10. For detailed configuration options and first-time setup, please refer to the user manual or visit <https://wiki.mikrotik.com/wiki/SwOS/CSS610>.
11. For device upgrade instructions, please visit <https://mt.lv/upgrade>.

Note: The device should be mounted in a dry and ventilated environment. It is recommended to use Cat6 cables for optimal performance.

Buttons and Jumpers: To reset SwOS configuration and load backup software for reinstallation and upgrade, hold the designated button during boot time until the LED light starts to flash. Release the button to initiate the reset process.

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

- Download the latest SwitchOS software version from <https://mikrotik.com/download> ;
- Connect your computer to any of the ethernet ports;
- Connect the device to the power source;
- Set an IP address of your computer to 192.168.88.3;
- Open your Web browser, the default management IP address is 192.168.88.1 / 192.168.88.2, with the username admin and no password (or, for some models, check user and wireless passwords on the sticker);
- Upload file with the web browser to the Upgrade tab, the device will reboot after an upgrade;
- Set up your password to secure the device.

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 plug) accepts 12-57V DC.
- The first Ethernet port accepts passive PoE input 12-57V DC.
- Power consumption 5 W, with attachments 11 W.

Connecting to a PoE Adapter:

1. Connect the Ethernet cable from the device to the PoE+DATA port of the PoE adapter.
2. Connect an Ethernet cable from your local network (LAN) to the PoE adapter.
3. Connect the power cord to the adapter, and then plug the power cord into a power outlet.

Configuration

SwOS 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> .
For recovery purposes, it is possible to boot the device for reinstallation, see section Buttons and Jumpers.
First-time configuration <https://wiki.mikrotik.com/wiki/SwOS/CSS610> ;
The device upgrade <https://mt.lv/upgrade> ;

Extension slots and ports

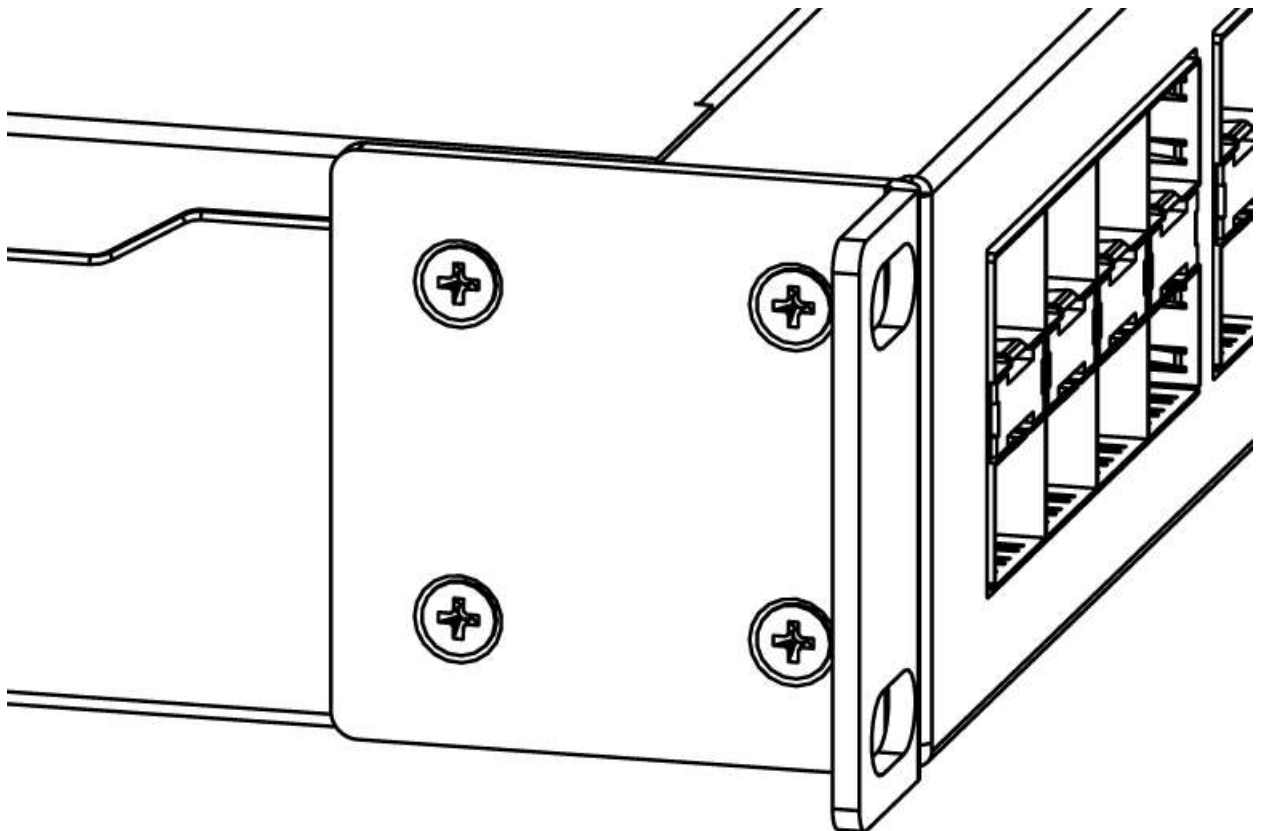
- Eight individual Gigabit Ethernet ports, supporting automatic cross/straight cable connection (Auto MDI/X), so you can use either straight or cross-over cables for connecting to other network devices;
- 2 SFP+ ports for using 10G SFP+;

Specifications

Please visit wiki pages for the MikroTik SFP module compatibility **table**:
https://wiki.mikrotik.com/wiki/MikroTik_SFP_module_compatibility_table

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:
 - Attach rack ears to both sides of the device and tighten four screws to secure them in place, as shown in the picture.



- Place the device in a rackmount enclosure and align with the holes so that the device fits conveniently.
 - 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.

- The mounting and configuration of this device should be done by a qualified person. We recommend using Cat6 cables for our devices.

Buttons and Jumpers

Hold this button during boot time until the LED light starts to flash. Release the button to reset SwOS configuration and load backup software for reinstallation and upgrade.

Operating system support

- This device runs SwOS, which is the only supported OS for this device.
- 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 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 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.








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

	<p>MikroTik CSS610-8G-2S+IN Cloud Smart Switch [pdf] User Manual CSS610-8G-2S IN, CSS610-8G-2S IN Cloud Smart Switch, Cloud Smart Switch, Smart Switch, Switch</p>
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References

-  [MikroTik Routers and Wireless](#)
-  [MikroTik Routers and Wireless - Buy](#)
-  [MikroTik Routers and Wireless - Buy](#)
-  [MikroTik Routers and Wireless - Software](#)
-  [MikroTik Routers and Wireless - Products](#)
-  [MikroTik SFP module compatibility table - MikroTik Wiki](#)
-  [SwOS/CSS610 - MikroTik Wiki](#)