

# FiberBox

## FiberBox (CRS105-5S-FB)



The Fiberbox is an outdoor switch with five SFP ports, ideal for locations where distance is restricting the use of regular ethernet cables. The device is weatherproof and comes with a hose clamp and zip ties, ready to be installed on high masts and towers.

## 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.

## Quickstart



The default configuration utilizes switch chip features to configure the dumb switch. All ethernet ports are added to the switch group and the default IP address 192.168.88.1/24.

- 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, the device is set up as a switch (or, for some models, check user and wireless passwords on the sticker).
- We recommend clicking the "Check for updates" button and updating your system software to the latest version to ensure the best performance and stability.
- Set up your password to secure the device.

## Mounting

We recommend using Cat6 shielded cable for our devices.

Use a steel clamp to guide through the back of the device.



Attach to the pole and secure by tightening firmly.



## Powering

The device accepts powering:

- Direct input power (5.5 mm outside and 2 mm inside, female, pin positive) accept DC 9-30 V DC;

The power consumption of this device under maximum load up to 11 W.

## Configuration

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://wiki.mikrotik.com/wiki/Manual:CRS3xx\\_series\\_switches](https://wiki.mikrotik.com/wiki/Manual:CRS3xx_series_switches).

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For recovery purposes, it is possible to reinstall the device from the network, see the [Reset button](#).

In case the IP connection is not available, the Winbox tool (<https://mt.lv/winbox>) can also be used to connect to the MAC address of the device. Applies only when the device has booted RouterOS.

## Extension Slots and Ports



- Five SFP ports.
- DC power jack connector.

## Reset button

To use the reset button, hold it and then turn on the device, while still holding the button.

- Release the button when the green LED starts flashing, to reset the RouterOS configuration.
- To load the backup bootloader, you can start holding the button after power is already applied.
- Release the button after LED is no longer flashing (~20 seconds) to cause the device to look for Netinstall servers (required for reinstalling RouterOS over the network). You can also release the button at the time when the device has appeared on the Netinstall utility device list.

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.

## Accessories

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



RJ45 SFP copier  
module



24V 0.8A power  
adapter



Metal ring (one)



DIN mount (K-27)

Please visit wiki pages for the MikroTik SFP module compatibility table: [https://wiki.mikrotik.com/wiki/MikroTik\\_SFP\\_module\\_compatibility\\_table](https://wiki.mikrotik.com/wiki/MikroTik_SFP_module_compatibility_table)

When using devices that come with separated SFP+ cages, it is still not recommended to deploy the S+RJ10 transceivers beside each other. Use S+RJ10 in every second interface to avoid transceivers overheating which may cause unpredictable behavior.

[https://wiki.mikrotik.com/wiki/S%2BRJ10\\_general\\_guidance](https://wiki.mikrotik.com/wiki/S%2BRJ10_general_guidance)

## 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.



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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1) L'appareil ne doit pas produire de brouillage; 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

Cet appareil numérique de la classe [A] est conforme à la norme NMB-003 du Canada.

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

## UKCA marking



## Eurasian Conformity Mark

Информация о дате изготовления устройства указана в конце серийного номера на его наклейке через дробь. Первая цифра означает номер года (последняя цифра года), две последующие означают номер недели.

Изготовитель: Mikrotikls SIA, Aizkraukles iela 23, Rīga, LV-1006, Латвия, [support@mikrotik.com](mailto:support@mikrotik.com). Сделано в Китае, Латвии или Литве. См. на упаковке.

Для получения подробных сведений о гарантийном обслуживании обратитесь к продавцу. Информация об импортерах продукции MikroTik в Российскую Федерацию: <https://mikrotik.com/buy/europe/russia>

Продукты MikroTik, которые поставляются в Евразийский таможенный союз, оцениваются с учетом соответствующих требований и помечены знаком ЕАС, как показано ниже:



## Norma Oficial Mexicana

EFICIENCIA ENERGETICA CUMPLE CON LA NOM-029-ENER-2017.

La operacion de este equipo esta sujeta a las siguientes dos condiciones:

- Es posible que este equipo o dispositivo no cause interferencia perjudicial y.
- Este equipo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operacion no deseada.


Fabricante: Mikrotikls SIA, Brivibas gatve 214i, Riga, LV-1039, Latvia.

País De Origen: Letonia; Lituania; China (Republica Popular); Estados Unidos De America; Mexico.

Por favor contacte a su distribuidor local para preguntas regionales específicas. La lista de importadores se puede encontrar en nuestra página de inicio – <https://mikrotik.com/buy/latinamerica/mexico>.

## 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> 



*Information contained here is subject to change. Please visit the product page on [www.mikrotik.com](http://www.mikrotik.com) for the most up to date version of this document.*