

netPower Lite 7R



netPower Lite 7R (CSS610-1Gi-7R-2S+OUT)

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.

Read the installation instructions before connecting the system to the power source.

This equipment is to be installed by trained and qualified personnel, as per these installation instructions. The installer is responsible for obtaining any required local or national safety inspections of the structural integrity of the installation by the local authority/inspection department.

All installation methods for mounting an access point on any wall surface is subject to the acceptance of local jurisdiction.

The Installation of the equipment must comply with local and national electrical codes.

This unit 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 to people and damage to the system.

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.

Quickstart

Please follow these quick steps to set up your device:

- 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 the 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;
- 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.

Expansion slots and ports

1. Gigabit Ethernet, one port PoE-out.
2. Gigabit Ethernet, eight ports.
3. Gigabit Ethernet, seven ports, Reverse PoE (PoE in).
4. Two - 10G SFP+ ports.

Configuration

The device can be discovered using Winbox utility, by clicking on the Neighbors list. The default management address is 192.168.88.1.

SwOS is a simple software designed for the switch. 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 [netPower Lite 7R#Buttons and Jumpers](#).

Powering

The device accepts power in the two ways following ways:

- Direct-input power jack, (5.5 mm outside and 2 mm inside, female, pin positive plug) accepts 12-57 V DC.
- Direct-input block terminal, 12-57 V DC .
- PoE in, 12-57 V DC .

The power consumption under maximum load can reach 7 W, with attachments 29 W.

Power output

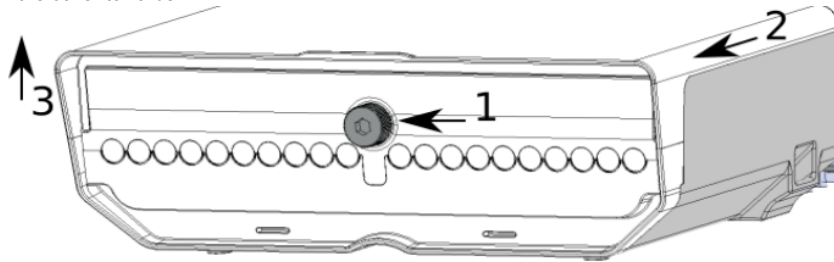
The device supports passive PoE from Ethernet port eight. You can power Mikrotik devices which supports powering through Ethernet. The power delivered through the PoE port will depend on the incoming to the device.

Connecting to a PoE Adapter, only to deliver power to other devices:

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.

Bottom Lid

1. The bottom lid is secured in place with the captive screw, it can be unscrewed by hand, but do not remove the screw completely.
2. Pull the cover towards.



3. Lift to access Ethernet ports.

Mounting

The device can be mounted in several ways: pole, wall, or ceiling. The package also includes a drill hole template with detailed mounting instructions, to help you with the drill hole marking. The device has eight mounting points for versatility use zip ties or steel clamps for mounting on the pole.

The IP rating scale for this device is IP54. When mounting outdoors, please ensure that any cable openings are directed downwards. We recommend using the POE injector and proper grounding with Cat6 shielded cable.

Mounting points:

- There are eight mounting points on the back of this device. Choose the most relevant ones.
- Middle points are designed for mounting on the mast, there are curves on the case for slim fitment.

It's recommended to secure Ethernet cable to the pole using zip ties. With the distance from the device approximately 30 cm.

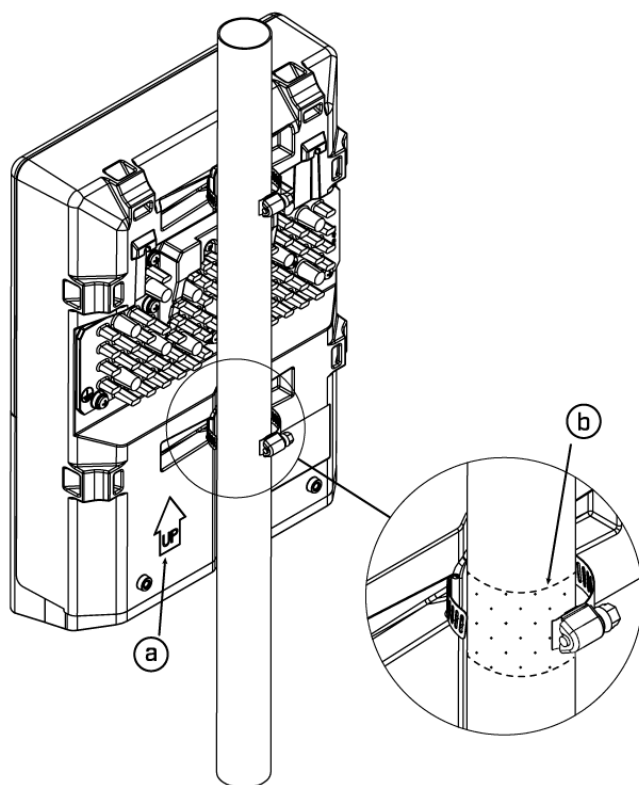
 The device must be mounted by UP arrow facing upwards.

The installation infrastructure (towers and masts), as well as the router itself, must be properly grounded. The device includes a grounding wire attachment screw on the backside.

- Attach your grounding wire to the grounding screw.
- Attach the other end of the grounding wire to the grounded mast.

Mounting and configuration of this device should be performed by a qualified person.

Mounting on the mast or pole:



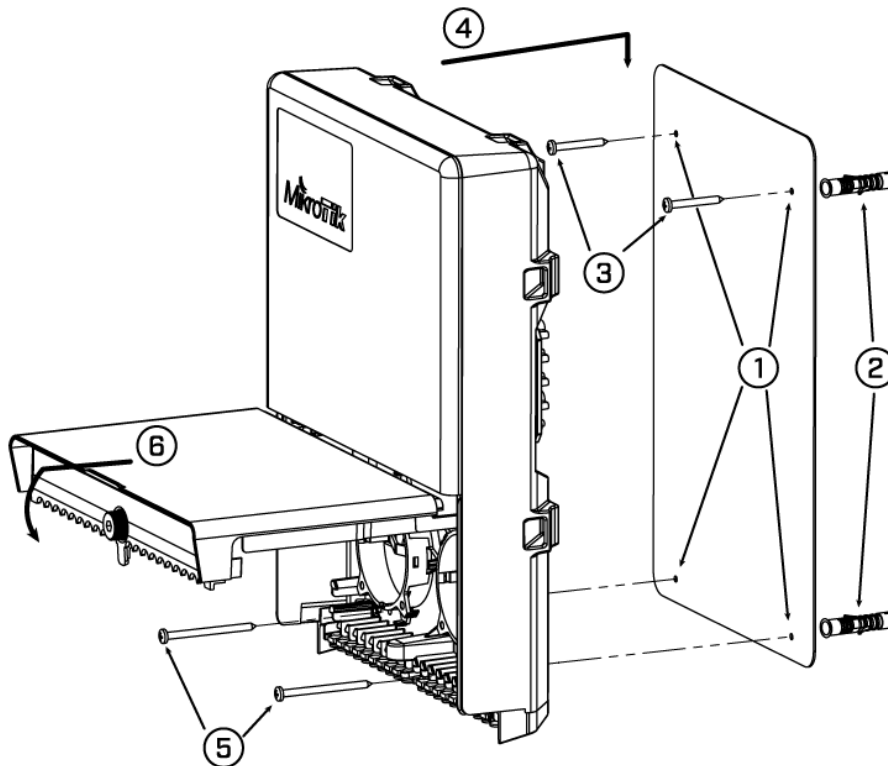
1. Insert provided steel clamps into mounting spots.
2. Attach the unit to the mast.
3. Align the device and secure it by tightening steel clamps with a PH2 screwdriver.
4. Guide Ethernet cables through the opening and connect to the Ethernet ports.
5. Close bottom latch and secure with a screw.

A – Always make sure to place the unit in an upwards position.

B - It's recommended to use electrical tape to increase friction between materials.

Mounting unit on the wall:

1. Use included a template to mark spots for drilling holes. Align accordingly, it will depend on how the device will be mounted finally.



2. Insert dowels if needed, depends on wall structure and material.
3. Insert screws and screw them by leaving approximately 1 cm out.
4. Attach the unit to the position.
5. Use screw holes under the bottom cover and tighten to secure in place. Extend your Ethernet cables through the openings and connect to Ethernet ports.
6. Close bottom latch.

Carefully check the wall for electric cables before drilling mounting holes.

Buttons and jumpers

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 SwOS configuration to defaults.
- Release the button when the LED turns solid green to clear all configuration and bridge all interfaces.

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:

- Hose Clamp SUS304.
- K-66 fastening set.
- OED-drill-template, paper brochure.

Operating system support

The device supports SwOS software. Other operating systems have not been tested.

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)

CE Declaration of Conformity

BG	С настоящото Mikrotikls SIA декларира, че този тип радиосъоръжение CSS610-1Gi-7R-2S+OUT е в съответствие с Директива 2014/30/EC, 2014/35/EC. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: https://mikrotik.com/products
CS	Tímto Mikrotikls SIA prohlašuje, že typ rádiového zařízení CSS610-1Gi-7R-2S+OUT je v souladu se směrnici 2014/35/EU, 2014/35/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: https://mikrotik.com/products
DA	Hermed erklærer Mikrotikls SIA, at radioudstyrtypen CSS610-1Gi-7R-2S+OUT er i overensstemmelse med direktiv 2014/35/EU, 2014/35/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: https://mikrotik.com/products
DE	Hiermit erklärt Mikrotikls SIA, dass der Funkanlagentyp CSS610-1Gi-7R-2S+OUT der Richtlinie 2014/35/EU, 2014/35/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: https://mikrotik.com/products
EL	Με την παρούσα ο/η Mikrotikls SIA, δηλώνει ότι ο ραδιοεξοπλισμός CSS610-1Gi-7R-2S+OUT πληροί την οδηγία 2014/35/EE, 2014/35/EE. Το πλήρες κείμενο της δήλωσης συμμόρφωσης EE διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: https://mikrotik.com/products
EN	Hereby, Mikrotikls SIA declares that the radio equipment type CSS610-1Gi-7R-2S+OUT is in compliance with Directive 2014/35/EU, 2014/35/EU. The full text of the EU declaration of conformity is available at the following internet address: https://mikrotik.com/products
ES	Por la presente, Mikrotikls SIA declara que el tipo de equipo radioeléctrico CSS610-1Gi-7R-2S+OUT es conforme con la Directiva 2014/30/UE, 2014/35/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: https://mikrotik.com/products
ET	Käesolevaga deklareerib Mikrotikls SIA, et käesolev raadioseadme tüüp CSS610-1Gi-7R-2S+OUT vastab direktiivi 2014/30/EL, 2014/35/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: https://mikrotik.com/products
FI	Mikrotikls SIA vakuuttaa, että radiolaitetyypin CSS610-1Gi-7R-2S+OUT on direktiivin 2014/35/EU, 2014/35/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: https://mikrotik.com/products
FR	

	Le soussigné, Mikrotilks SIA , déclare que l'équipement radioélectrique du type CSS610-1Gi-7R-2S+OUT est conforme à la directive 2014/30/UE, 2014/35/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: https://mikrotik.com/products
HR	Mikrotilks SIA ovime izjavljuje da je radijska oprema tipa CSS610-1Gi-7R-2S+OUT u skladu s Direktivom 2014/35/EU, 2014/35/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: https://mikrotik.com/products
HU	Mikrotilks SIA igazolja, hogy a CSS610-1Gi-7R-2S+OUT típusú rádióberendezés megfelel a 2014/35/EU, 2014/35/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: https://mikrotik.com/products
IT	Il fabbricante, Mikrotilks SIA , dichiara che il tipo di apparecchiatura radio CSS610-1Gi-7R-2S+OUT è conforme alla direttiva 2014/30/UE, 2014/35/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: https://mikrotik.com/products
IS	Hér með lýsir Mikrotilks SIA því yfir að CSS610-1Gi-7R-2S+OUT er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/35/EU, 2014/35/EU. Fullur texti ESB samræmisýfirlýsingar er að finna á eftirfarandi veffangi: https://mikrotik.com/products
LT	Aš, Mikrotilks SIA , patvirtinu, kad radijo įrenginių tipas CSS610-1Gi-7R-2S+OUT atitinka Direktyvą 2014/30/ES, 2014/35/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: https://mikrotik.com/products
LV	Ar šo Mikrotilks SIA deklarē, ka radioiekārta CSS610-1Gi-7R-2S+OUT atbilst Direktīvai 2014/30/ES, 2014/35/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: https://mikrotik.com/products
MT	B'dan, Mikrotilks SIA , niddikjara li dan it-tip ta' tagħmir tar-radju CSS610-1Gi-7R-2S+OUT huwa konformi mad-Direttiva 2014/30/UE, 2014/35/UE. It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: https://mikrotik.com/products
NL	Hierbij verklaar ik, Mikrotilks SIA , dat het type radioapparatuur CSS610-1Gi-7R-2S+OUT conform is met Richtlijn 2014/35/EU, 2014/35/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: https://mikrotik.com/products
NO	Mikrotilks SIA erklærer herved at utstyret CSS610-1Gi-7R-2S+OUT er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/35/EU, 2014/35/EU. Den fulle teksten til EU-samsvarserklæringen er tilgjengelig på følgende internetadresse: https://mikrotik.com/products
PL	Mikrotilks SIA niniejszym oświadcza, że typ urządzenia radiowego CSS610-1Gi-7R-2S+OUT jest zgodny z dyrektywą 2014/30/UE, 2014/35/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: https://mikrotik.com/products
PT	O(a) abaixo assinado(a) Mikrotilks SIA declara que o presente tipo de equipamento de rádio CSS610-1Gi-7R-2S+OUT está em conformidade com a Diretiva 2014/30/UE, 2014/35/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: https://mikrotik.com/products
RO	Prin prezenta, Mikrotilks SIA declară că tipul de echipamente radio CSS610-1Gi-7R-2S+OUT este în conformitate cu Directiva 2014/30/UE, 2014/35/UE. Textul integral al declaraiei UE de conformitate este disponibil la următoarea adresă internet: https://mikrotik.com/products
SK	Mikrotilks SIA týmto vyhlasuje, že rádiové zariadenie typu CSS610-1Gi-7R-2S+OUT je v súlade so smernicou 2014/35/EU, 2014/35/EU. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: https://mikrotik.com/products
SL	Mikrotilks SIA potrjuje, da je tip radijske opreme CSS610-1Gi-7R-2S+OUT skladen z Direktivo 2014/35/EU, 2014/35/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: https://mikrotik.com/products
SV	Härmed försäkrar Mikrotilks SIA att denna typ av radioutrustning CSS610-1Gi-7R-2S+OUT överensstämmer med direktiv 2014/35/EU, 2014/35/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: https://mikrotik.com/products