In this newsletter
read about

netPower Lite 7R

$ 129

🔌	7 REVERSE POE GIGABIT ETHERNET PORTS	☁	DURABLE OUTDOOR ENCLOSURE	🔌	DC JACK & 2-PIN TERMINAL FOR ALTERNATIVE POWERING
🔋	CAN BE POWERED BY A BATTERY	SFP	2X 10G SFP + PORTS	📶	DELIVER HIGH SPEED INTERNET TO INDIVIDUAL APPARTMENTS

An outdoor reverse PoE switch with Gigabit Ethernet and 10G SFP+ ports. Cut costs, not speed – choose GPEN over GPON!

With netPower Lite 7R switch you can forget about expensive GPON base stations and optical splitters. This switch is a part of our GPEN concept – aimed to bring the speed and versatility of fiber networking while using the advantages of Ethernet. It is an easy to deploy, low-cost way for any ISP to deliver the Internet to individual apartments.

This version of the innovative netPower switches features 8 PoE Gigabit Ethernet ports and 2 SFP+ ports for 10G fiber connectivity.

With this switch you won't have to worry about power issues, as there are many options. netPower Lite 7R has 7 reverse PoE ports. Depending on your setup, netPower can draw the necessary power even from a single client! Ethernet port 8 can power other PoE capable devices with the same voltage as applied to the unit. There is also a DC jack and a 2-pin terminal for alternative powering.

netPower Lite 7R – highest efficiency for the lowest cost!

The outdoor enclosure allows you to install this switch in all kinds of environments – from damp attics to elevator shafts and different poles with hose clamps.
netPower Lite 7R has a non-blocking throughput of 28 Gbps, switching capacity of 56 Gbps and forwarding rate of 41.7 Mpps.

hAP ac³

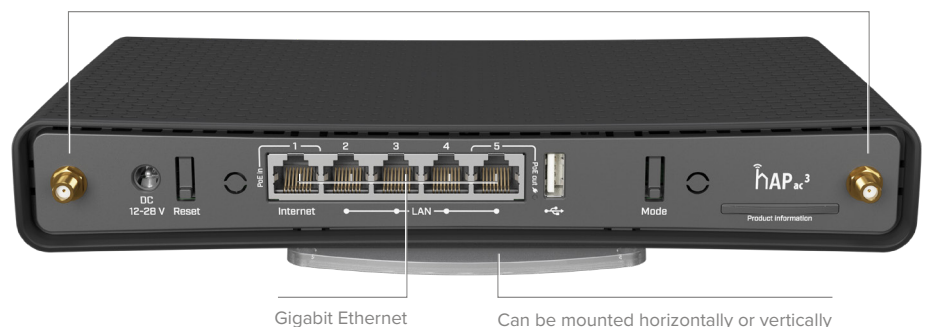|		
5X GIGABIT ETHERNET PORTS	QUAD-CORE CPU	USB PORT
IOS/ANDROID APP FOR QUICK AND EASY CONFIGURATION	POWERFUL EXTERNAL HIGH GAIN ANTENNAS (3 – 5.5 DBI)	STRONG DUAL-CHAIN DUALBAND 2.4/5 GHZ WIRELESS
128 MB NAND	POE-IN/POE-OUT	EXTREME VERSATILITY WITH THE POWERFUL ROUTEROS

A wireless dual-band router with 5 Gigabit Ethernet ports. The right choice for most homes!

Forget about endless searching for the perfect router and scrolling through an eternity of reviews and specifications! We have created a single affordable home access point that has all the features you might need for years to come.

hAP ac³ - the new standard of home access points.

Powerful external antennas included, but you can use the SMA ports to add antennas of your choice

Gigabit Ethernet

Can be mounted horizontally or vertically

Next level signal

Is your old router struggling to reach every corner of your home? Well, forget about that! We have included external high gain wireless antennas with outstanding coverage. Only strong and stable wireless connection in every room from now on!

Function, form, versatility

With 5 Gigabit Ethernet ports, 256 MB of RAM and quad-core CPU, hAP ac³ can satisfy even the biggest and most demanding households. With PoE support, it can power or be powered by other devices. There is a 128 MB NAND and a full-size USB port that you can use to add extra storage. The new enclosure allows mounting the device vertically or horizontally. A wall mount set is also included.

Reliable connection for all your devices

Stop sharing the frequency with all your neighbors! Strong **dual-chain dual-band** 2.4/5 GHz wireless for concurrent coverage will solve most interference issues in a crowded environment. This is a must-have these days! You can use the 2.4 GHz channel for older devices and the 5 GHz channel for everything else, since this frequency is less cluttered.
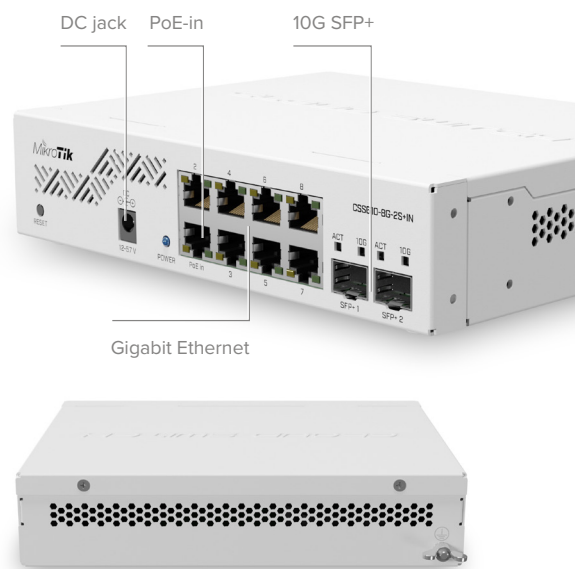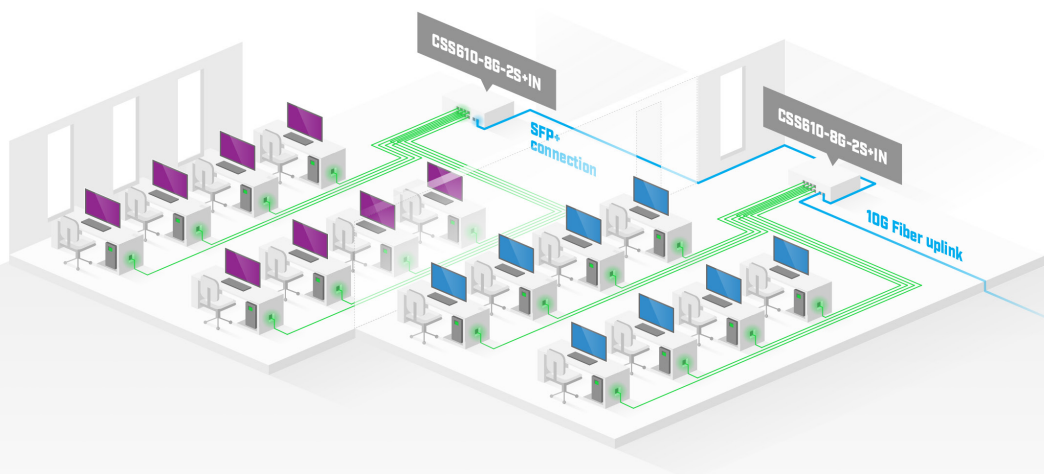
CSS610-8G-2S+IN

8X GIGABIT ETHERNET PORTS	2X SFP+ FOR 10G FIBER	PORT-TO-PORT FORWARDING	MAC FILTERING
VLAN	POE-IN	TRAFFIC MIRRORING	BROADCAST STORM CONTROL

Eight 1G Ethernet ports and two SFP+ ports for 10G fiber connectivity. Portable, powerful and extremely cost-effective – this switch is an instant classic!
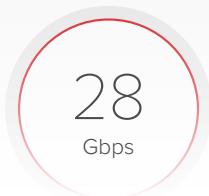
Cloud Smart Switch 610-8G-2S+IN is our answer to the everlasting demand for more power in a small and simple package. It comes with the lightweight SwOS which is easy to configure from your web browser. It gives you all the basic functionality for a managed switch, and more: you can manage port-to-port forwarding, broadcast storm control, apply MAC filters, configure VLANs, mirror traffic, apply bandwidth limitation and even adjust some MAC and IP header fields.
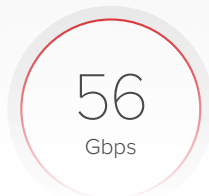
DC jack   PoE-in   10G SFP+

Gigabit Ethernet

With 8 x 1G Ethernet ports and 2 x 10G SFP+ ports this switch is the fastest device in this size and price category on the market!

Despite its compact size, this switch provides serious performance:

28 Gbps
Non-Blocking throughput

56 Gbps
Switching capacity

41.7 Mpps
Forwarding rate

mANTBox 52 15s

	GIGABIT ETHERNET		SFP FOR FIBER CONNECTIVITY		802.3AF/AT POE-IN
	STRONG DUAL-CHAIN DUAL-BAND 2.4/5 GHZ WIRELESS		IOS/ANDROID APP FOR QUICK AND EASY CONFIGURATION	EXTREME VERSATILITY WITH THE POWERFUL ROUTEROS	POWERFUL BUILT-IN DUAL POLARIZATION ANTENNA
	QUAD-CORE CPU		DISTANCE UP TO 20 KM		IPSEC HARDWARE OFFLOADING

A dual-band 2.4/5 GHz base station with a powerful built-in sector antenna, PoE support, Gigabit Ethernet and SFP. One powerful package for all your outdoor network needs, perfect for camps, stadiums and parks!

Are you managing an outdoor wireless network with a variety of access points and CPE devices? Then our brand new mANTBox 52 15s has got you covered – offering powerful built-in antennas, fascinating connectivity options and more!

Creating an efficient point-to-multipoint connection used to be tricky, but not anymore: mANTBox 52 15s works well in any setup. The dual-band wireless capability allows you to use both 2.4 GHz and 5 GHz devices at the same time. There is a Gigabit Ethernet port and an SFP port for fiber connections.
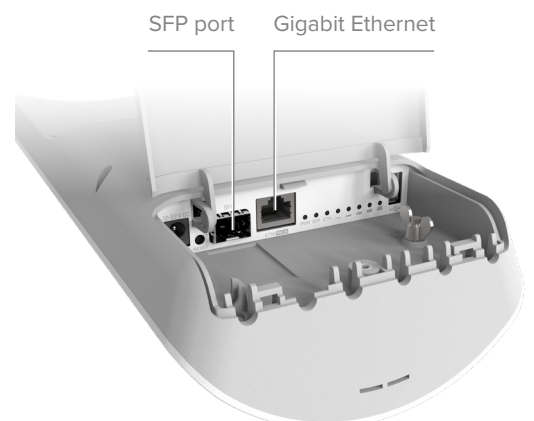
With mANTBox 52 15s you don't have to worry about power options – it supports 802.3af/at PoE-in. There is a Gigabit PoE injector and a standard DC power adapter included.

We have doubled the RAM and added a new quad-core CPU that can handle even the heaviest loads. mANTBox 52 15s can even provide IPsec hardware offloading without trouble. Depending on the rest of your setup, you can reach distance up to 20 km with the built-in dual polarization antenna.

You can't go wrong with the mANTBox 52 15s – it is fast, powerful and easy to use in any P2MP setup!

SFP port   Gigabit Ethernet

mANTBox package includes everything you need: a Gigabit PoE injector, a hose clamp and a fastening set, and the MikroTik quickMOUNT pro. This advanced wall mount adapter allows turning antenna within 140° both horizontally and vertically. With the quickMOUNT pro it is possible to perfectly set antenna alignment using an integrated graduated scale.
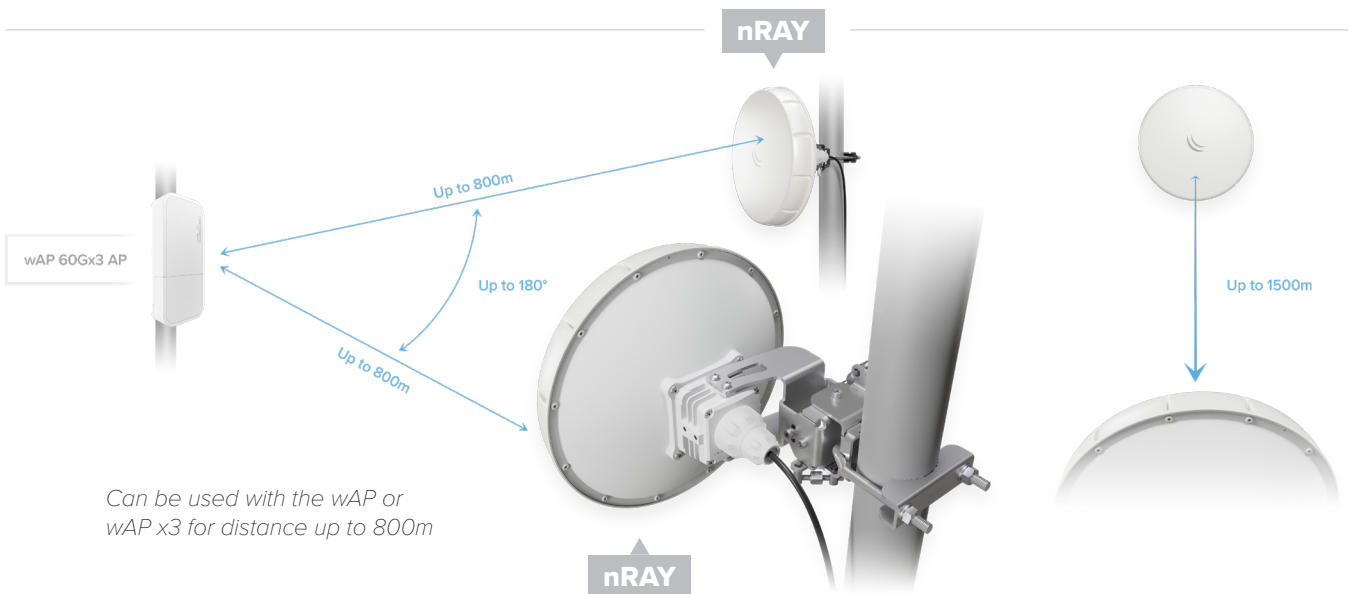
nRayAIM-DH1

$5

For even greater precision and easier installation of the 60 GHz <u>Wireless Wire nRAY</u>, we have made the nRayAIM-DH1 attachment. It can be used to add a scope of your choice. Available separately.

In case if you haven't heard about the nRAY – it is the most compact wireless 2 Gb/s aggregate link in the 1500 m range or more. It comes as a kit of two pre-paired devices that form a secure AES encrypted wireless connection.

With the latest antenna technologies, this device is very compact, but even more durable than its predecessors. Improved snow-resistant design is perfect for harsh weather environments. The 60 GHz frequency is unaffected by the crowded wireless spectrum, so you can enjoy a smooth connection even in a busy urban environment. A powerful arm64 dual-core CPU running at 1 GHz ensures wire speed throughput in nearly all packet sizes. The included devices are preconfigured to connect automatically, simply point them at one another and power them on!

Standard Picatinny 7-slot rail

nRAY

wAP 60Gx3 AP

Up to 800m

Up to 180°

Up to 800m

Up to 1500m

Can be used with the wAP or wAP x3 for distance up to 800m

nRAY

REACH DISTANCE IN THE 1500 M RANGE OR MORE	PRECONFIGURED TO CONNECT AUTOMATICALLY	SECURE AES ENCRYPTED 60 GHZ CONNECTION
COMPACT AND DURABLE	IOS/ANDROID APP FOR QUICK AND EASY CONFIGURATION	POE INJECTORS INCLUDED	GIGABIT ETHERNET

MikroTik LMT LTE18 – up to 1.2 Gbps of download speed

Latvian technology innovation companies LMT and MikroTik jointly created and are launching the sale of the "MikroTik LMT LTE18" router.

It uses the latest generation LTE technology – LTE18, which allows both downloading and uploading data at a higher speed than before. The built-in LTE CAT18 modem enables the use of up to 5 frequencies simultaneously. The maximum download speed provided by the router is 1.2 Gbps, and the upload speed is 150 Mbps. LTE18 technology also supports MIMO 4x4, so the device has four antennas that connect to the base station, resulting in a more stable Internet connection. Considering that this router is fully manufactured in Latvia, a member state of the European Union and NATO, and meets the highest security standards, this product has great export potential.

"LMT, together with its partners, is working on the development of the 5G network as well as the design of new products and solutions to enable full use of the advantages and opportunities provided by 5G in the future. Working closely with the domestic ICT industry giant MikroTik, we have jointly created an innovation laboratory, which has already produced 4G routers and prototypes of 5G routers. Looking to the future, it is clear that innovation and technology companies are the driving force of society's digital transformation, therefore this is an unprecedented opportunity for Latvian ICT companies to use their knowledge base and its immeasurable potential, strengthening their leadership not only on domestic but also foreign markets," LMT President Juris Binde emphasized.

"Everyone understands that 5G will bring not only unprecedented data speeds, but also millions of sensors, smart devices, devices and automated solutions that will work in this network. Therefore, while designing this router together with LMT, we kept in mind not only the current technological needs of Internet users, but also how they will change in the near future; 5G capabilities will become more and more available in every sphere of life. For this reason, the MikroTik LMT LTE18 router has expanded functionality that will satisfy both business customers and any household requirements, not only now, but also in the foreseeable future," says John Tully, co-owner and CEO of MikroTik.

Prime Minister visiting MikroTik

This summer the Prime Minister of Latvia Krišjānis Kariņš took the time to see how the biggest companies are managing during the pandemic. We had the opportunity to show him around, tell about our plans and the development of 5G product line.

Here is what Mr. Kariņš had to say after the meeting: "During the visit to the headquarters of the largest electrical engineering company in Riga, I saw that despite the difficulties caused by COVID-19 in the global economy, MikroTik continues to work successfully and export its products. Thank you for the hospitable reception, may all your plans come true!"

We want to thank the Prime Minister for the kind words and the time. We know how busy this difficult time can be.

During the pandemic, the demand for secure and cost-effective remote networking solutions has increased significantly. Our team is working hard to meet this demand and the influx of orders: there is extra staff at the warehouses, all our contract manufacturers are working at full capacity.

John Tully, CEO of MikroTik, with Krišjānis Kariņš, the Prime Minister of Latvia, in front of the MikroTik indoor climbing wall. Fun fact: our office climbing wall is the highest indoor climbing wall in the Baltics!

GDN – a new high-capacity data network for scientists to help battle cancer and combat the COVID-19 crisis

LMT and MikroTik have recently provided a high-capacity data network to local scientists. The network offers a 10 Gbps data transfer rate that significantly decreases the amount of time needed for genome data relocation. The digital size of a genome is measurable in hundreds of gigabytes, and increasing the data transfer rate can significantly accelerate the work of scientists battling with COVID-19 as well as conducting research projects on cancer and other severe diseases. Enabling scientists with such a high-capacity data network is a significant step towards further development of 5G solutions for medical and scientific purposes.

In the near future, the network will be upgraded to a 100 Gbps data transfer rate, using MikroTik devices that will be released soon.

You can read more about this project here.

GDN

Genomics Data Network