MikroTik

NEWSLETTER, ISSUE #82 - MAY 2018

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Wireless Wire Dish

2 Gbit/s aggregate link without cables!

$298
KIT OF TWO

LHG precision mount

24 V 0.38 A Power adapter

Gigabit PoE injector

2 Gbit/s over wireless	Up to **1500m+** range	**60 GHz** radio	**Gigabit** Ethernet	**Paired** Secure Link preconfigured	Powered by AF/AT/Passive PoE

The Wireless Wire Dish is a ground breaking solution which offers Fiber speed and quality on distances up to 1500m+ for a fraction of the price!

This amazing kit makes a secure AES encrypted 60 GHz wireless link that is not affected by the crowded WiFi spectrum, offering a stable and fast link for distances of 1500 meters or more. Simply point the included devices one to another and power them on, they are already preconfigured to connect automatically and will make a 2 Gbit/s aggregate link.

View online

MUM Europe new product announcements

The MikroTik User Meeting Europe took place in Berlin on April 5-6th. We used this event to announce the roadmap of our products this year, highlighting some of the devices to come.

The attendees received a free gift, the Wireless Wire, allowing everyone to experience a full Gigabit wireless link. We are also giving out a surprise level 4 (Access Point) license to all participants, to unlock point-to-multipoint functionality of the Wireless Wire. Find the license in your mikrotik.com account and let us know how your testing goes!

You can find slides here and videos from the MUM here. Here is an overview:

CRS305-1G-4S+IN

- 4x SFP+ ports
- 1x Gigabit Ethernet
- Metallic enclosure
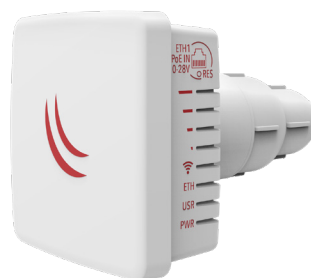- Dual DC jacks
- Support for high speed ring topology

PWR-Line AP

- Small AP directly plugs into socket
- Makes 100Mbit links with others like it
- Build WiFi network without special cabling
- Auto pairs with new devices
- Ethernet port for printers, IP phone, desktop..

LDF 2

- 2 GHz CPE/bridge
- Mounts in regular satellite dish
- Ultra long range

CRS309-1G-8S+PC

- 8x SFP+ ports
- 1x Gigabit Ethernet
- Silent case

CRS312-4C+8XG

- 8x 10G/5G/2.5G/1G Ethernet ports
- 4x 10G Ethernet / 10G SFP+ combo ports
- Console and management ports
- Dual PSU

CRS332-32S+RM

- 32x SFP+ ports
- RJ45 console and ETH management
- Dual PSU
- Wirespeed forwarding

mANTBox2 12s

- 2 GHz sector antenna
- 12 dBi
- RouterBOARD built in

CRS354-48P-4S+2Q+

- 48x Gigabit ports with PoE out
- 4x SFP+ for 10Gbit connections
- 2x QSFP+ ports for 40Gbit connections
- 40Gbit stacking support

CRS354-48G-4S+2Q+

- 48x Gigabit ports
- 4x SFP+ for 10Gbit connections
- 2x QSFP ports for 40Gbit connections
- 40Gbit stacking support

LtAP mini LTE kit

The LtAP mini LTE kit is a small weatherproof wireless access point with a built in cellular modem that supports 2G (international version only), 3G and 4G (LTE) connectivity. It is also available separately, without the modem, so you can use your own.

Connect to the LtAP mini's built-in 802.11b/g/n wireless and access the LTE network from your phone or any other wireless device. The LtAP mini LTE also has one 10/100 Ethernet LAN port for your wired devices. The RS232 serial port gives you console access or connecting to other RS232 devices.

FROM $89

- 2.4 GHz AP in a rugged case
- miniPCIe for LTE
- Two SIM slots
- Built in GPS
- Serial port for other devices
- Perfect for cars or outdoor mobile applications

LtAP mini has a special enclosure with with a wall mounting kit, two SIM slots to alternate between cellular providers, and integrated GPS support, making this a perfect device for use in moving vehicles like cars, buses or trains. External GPS antenna is available for ordering separately (not included, product code ACGPSA).

The LTE card is connected to two internal antennas with u.FL connectors, so if you want, you can unplug the connectors and add your own external LTE antenna for better coverage. The unit has several powering options: 10-57 V PoE-in by Ethernet port, DC jack and microUSB.

Use the built in GPS module to track the location of your vehicle in real time, we have even provided a simple tracking application example in the RouterOS documentation, to help you start development of your platform.

LtAP mini

LtAP mini LTE kit

LtAP mini LTE kit US

PoE injector

24 V 1.2 A power adapter

External DC cable

Screw kit

K-55

Three versions are available:

- **LtAP mini LTE kit (RB912R-2nD-LTm&R11e-LTE)** includes LTE modem that supports International LTE bands 1,2,3,7,8,20,38 and 40.
- **LtAP mini LTE kit-US (RB912R-2nD-LTm&R11e-LTE-US)** includes LTE modem that supports LTE bands 2,4,5 and 12, mostly used by mobile operators in United States, Canada and Latin America.
- **LtAP mini (RB912R-2nD-LTm)** is shipped with without LTE card installed (empty miniPCI-e slot), so you can use your own LTE card.

mANT LTE 5o

$19

The mANT LTE is an omnidirectional antenna specifically designed for LTE frequencies. It is an excellent companion to our LTE devices, such as the wAP LTE and LtAP series. The antenna has a 5 dBi gain, improving your connection in the areas with inadequate LTE service coverage, allowing you to increase your connection speed.

View online

A hose clamp included

Specifications

Product code	MTAO-LTE-5D-SQ
Antenna type	Omni
Wireless band	699 - 2690 MHz
Number of chains	2
Antenna gain	5 dBi
Antenna beam width	360°
Connectors	2 SMA
Dimensions	129 x 129 x 34 mm
Operating temperature	-40°C .. +70°C tested

The device housing is a flat design for easy mounting, but the antenna itself is omnidirectional and does not have to be accurately pointed, allowing simple installation.

The device is compatible with the frequency range 699 MHz - 2.7 GHz.

RouterOS v6.42 - time to upgrade!

This week saw the highly anticipated release of RouterOS v6.42 in the "current" release chain, bringing 170 changes, fixes and improvements to RouterOS.

There are many improvements to Bridging, CHR, LTE, Winbox and Wireless functionality. The Wireless Wire saw the doubling of possible 1Gbit distance to 200m+.

To upgrade, simply click the **"Check for updates"** button in the QuickSet page, or in the System -> Packages menu in Winbox or Webfig.
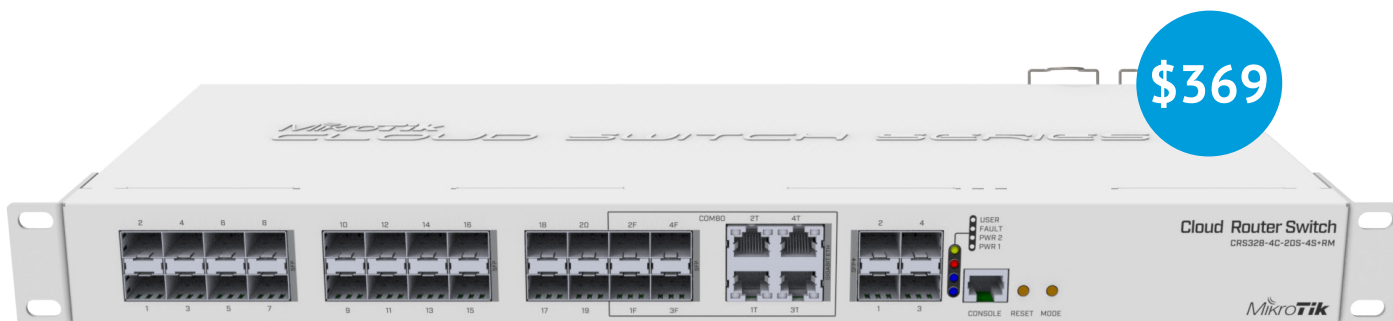
CRS328-4C-20S-4S+RM

The CRS328-4C-20S-4S+RM is a 28 independent port switch with a combo group.

This device has twenty SFP ports, four SFP+ ports for 10G modules and four combo ports, where you can choose to use SFP or RJ45 ports from the combo group. These ports can also be software selected, so if you have plugged in all eight cables, you can use scripting, to decide which four combo ports will be active.

The device comes in a 1U rackmount case with two 100-240 V power supplies with failover functionality. An RJ45 console port is available for management and debugging, and a mode button can be customised to execute any RouterOS commands.

The device has a "Dual boot" feature that allows you to choose between two operating systems - RouterOS or SwOS.

If you prefer to have a simplified operating system with only switch specific features, use SwOS. If you would like the ability to use routing and other Layer 3 features in your CRS, use RouterOS. You can select the desired operating system from RouterOS, from SwOS or from the RouterBOOT loader settings. All the feature set comes with our disruptive price, providing best price/performance on the market.

$369

Switching features

- Non-blocking Layer 2 switching capacity
- 16K host table
- IEEE 802.1Q VLAN
- Supports up to 4K simultaneous VLANs
- Port isolation
- Port security
- Broadcast storm control
- Port mirroring of ingress/egress traffic
- STP / RSTP / MSTP
- Access Control List
- MikroTik neighbor discovery
- SNMP
- 10218-byte jumbo frames support
- IGMP snooping
- IEEE 802.3ad and static link aggregation

Quick specifications

- 20 SFP ports
- 4 ETH/SFP combo ports
- 4 SFP+ ports
- Non-Blocking throughput: 64 Gbps
- Switching capacity: 128 Gbps
- Forwarding rate: 95.2 Mpps
- RJ45 serial console port
- Dual PSU
- Maximum power consumption: 43 W
- Temperature based fan control
- 1U rackmount

Two IEC power cords

Rack ears

View online

5

48V2A96W power supply

We are now offering a new 48 V 2 A 96 W power supply (product code 48V2A96W), to be used with our products that support 48 V POE output, like hEX PoE and CRS112-8P-4S-IN. It's providing 30% more current than the old model 48POW (48 V 1.46 A 70 W), allowing more power per port.

Comes with the power plug of your choice (EU, US or UK version).

$39

View online

Upcoming MUM events in 2018

Tokyo, Japan, May 08, 2018

Dhaka, Bangladesh, May 12, 2018

Melbourne, Australia, May 18, 2018

Auckland, New Zealand, May 21, 2018

Minsk, Belarus, June 05, 2018
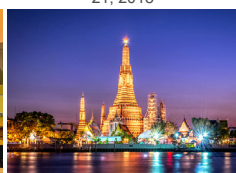
Kiev, Ukraine, June 08, 2018
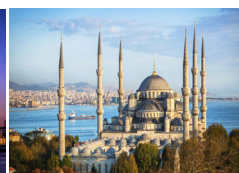
San Jose, Costa Rica, July 20, 2018

Tegucigalpa, Honduras, July 23, 2018

New Delhi, India, August 10, 2018

Bangkok, Thailand, August 14, 2018

Istanbul, Turkey, October 15, 2018

Yogyakarta, Indonesia, October 19 - 20, 2018

Train the Trainer in Riga and Bangkok

Are you a certified MikroTik specialist? This is your chance to start a new business as a trainer! We invite you to become a certified trainer!

MikroTik will be conducting Train the Trainer course in **Riga, Latvia, on June 18 - 20th, 2018, in RouterOS Training center** and **Bangkok, Thailand, on August 15 - 17th.**

A MikroTik certified trainer can conduct MikroTik certified training courses anywhere in the world.

Become a MikroTik certified trainer and give the gift of knowledge!

Sign up now!