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Why MikroTik?

MikroTik provides routing, switching and wireless equipment for all possible uses - from the customer location, up to high end data centres.

We have an extensive network of trained consultants, training centres and distributors in almost every country of the world.

Established in Europe in 1996, we have 22 years of experience in networking and wireless installations.

Our in-house developed RouterOS software supports most common and many special features and we are constantly adding new customer requested features.

Whether you are building wireless links across the seas, internet exchanges between countries, and secure tunnels between banks. MikroTik can do it all.

• Best price/performance
• Millions of RouterOS powered devices are currently routing the world
• 22 years of developing networking software and hardware
• Over 100’000 RouterOS trained and certified network engineers
• More than 6’000 training classes in the last year
• World wide network of certified consultants
• Offering products that support simple CPEs to complex enterprise networks
• Thousands of pages of documentation, examples, application notes, and guides
MikroTik

MikroTik is a router software and hardware manufacturer, that offers the most user friendly, up to carrier-class routing and network management solutions. Our products are used by ISPs, individual users and companies for building data network infrastructures all across the world.

There are millions of installations worldwide going back as far as 1996!

Our mission is to make existing Internet technologies faster, more powerful, and affordable to wider range of users.

- Based in Europe
- Established in 1996
- 22nd anniversary this year
- RouterOS in 1997
- RouterBOARD in 2002
- First MUM: Prague, Czech Republic in 2006
RouterOS

MikroTik RouterOS is the operating system of MikroTik RouterBOARD hardware.

It has all the necessary features for an ISP - routing, firewall, bandwidth management, wireless access point, backhaul link, hotspot gateway, VPN server and more.

RouterOS is a stand-alone operating system based on the Linux kernel, and our goal here at MikroTik is to provide all these features with a quick and simple installation and an easy to use interface.

- Powerful QoS control
- RIP, OSPF, BGP, MPLS routing
- Bonding of interfaces
- Stateful firewall, tunnels
- (R)STP bridging with filtering
- High speed 802.11a/b/g/n/ac
- 60 GHZ wireless
- Wireless TDMA (Nv2)
- WDS and Virtual AP
- HotSpot Plug-and-Play access
- WinBox GUI and Web admin
- Telnet/MAC-Telnet/SSH/Console
- Real-time configuration and monitoring
- IPsec hardware acceleration
- 2G, 3G and 4G (LTE) support
MikroTik User Meeting (MUM) is a conference on MikroTik RouterOS software and RouterBOARD hardware. Ask questions, attend workshops, listen to presentations, talk with specialists and see interesting technology demos by MikroTik and the users themselves - all here, at the MUM!

The MikroTik User Meeting brings many MikroTik users together at once, so you can get the maximum information in the shortest time.

The MUM has taken place already 170 times, in 77 countries in all continents. Every year, more people attend these great events - every next event breaking the previous attendance record. More than 3000 people attended the conference in Indonesia in 2017! You should come too!
Academy

Colleges, universities, and schools around the world are starting MikroTik Academy programs to offer students Internet networking courses using MikroTik RouterOS as a learning tool. We are actively enrolling new locations weekly and looking for new applicants.

There are no charges from MikroTik for material, online testing, and online certificates associated with this program. MikroTik Academy program offers schools an excellent networking education program and program materials for little or no cost.

The program courses offer:
- a proven network education program
- official MikroTik RouterOS certification exams
- discounted (and free) hardware and free RouterOS licenses for training classes

If there is an educational institution near you that could be interested in the MikroTik Academy program, please contact us or forward this information to them.

Please contact us at training@mikrotik.com.

Official MikroTik Academy Web Page: mikrotikacademy.com
Wireless Wire Dish
Fiber speed and quality over 1500m+ without cables

LtAP mini
4G Internet hotspot with integrated GPS for vehicle tracking applications
hEX series

The hEX series of devices are small form factor Ethernet routers with neat plastic design enclosures. They have a total of five ports.

hEX

The hEX is a small and powerful router with Gigabit Ethernet, IPsec acceleration and more.

- 5 Gigabit Ethernet ports
- Dual core 880 MHz CPU, 256 MB RAM
- IPsec hardware encryption (~470 Mbps) support
- Support for The Dude server package
- microSD slot and USB

hEX lite

A small, but powerful five port Ethernet router in a nice plastic case.

- 850 MHz CPU, 64 MB RAM
- Compact size

hEX PoE lite

This model supports PoE output on it’s Ethernet ports, so you can power other devices.

- 5x 10/100 Mbps Ethernet ports
- 650 MHz CPU, 64 MB RAM
- Ethernet ports 2-5 can power other PoE capable devices

hEX PoE

This model also has PoE output capability, but includes Gigabit Ethernet ports and an SFP cage.

- 5 Gigabit Ethernet ports
- SFP port for 1.25 Gigabit connectivity
- Ethernet ports 2-5 can power other PoE capable devices
- 800 MHz CPU, 128 MB RAM

hEX S

hEX S is a six port wired Gigabit router for locations where wireless connectivity is not required. Compared to the hEX, the hEX S also features an SFP port and PoE output on the last port.

- Dual Core 880 MHz CPU
- 256 MB RAM
- 1.25Gbit/s SFP cage
- USB 2.0 and microSD slot
- 12 V-57 V input support by PoE or power jack
- 802.3at/af support
- IPsec hardware encryption (~470 Mbps)
- Dude Server package support

PowerBox series

The PowerBox series of devices are Ethernet routers in outdoor enclosures, ready to be mounted in any weather conditions. They are capable to power MikroTik routers and other supported devices through PoE (Power over Ethernet).

PowerBox

The basic model is good for 10/100 Mbit devices and lower bandwidth requirements.

- 5x 10/100 Mbps Ethernet ports
- 650 MHz CPU, 64 MB RAM

PowerBox Pro

The professional model adds Gigabit ports and a more capable CPU.

- 5 Gigabit Ethernet ports
- SFP port for 1.25 Gigabit connectivity
- 800 MHz CPU, 128 MB RAM
RB2011 series

The RB2011 is a low cost multi port device series. Designed for indoor use, and available in many different cases, with a multitude of options.

The RB2011 is powered by RouterOS, a fully featured routing operating system which has been continuously improved for fifteen years. Dynamic routing, hotspot, firewall, MPLS, VPN, advanced quality of service, load balancing and bonding, real-time configuration and monitoring - just a few of the vast number of features supported by RouterOS.

There is PoE output function for port #10 - it can power other PoE capable devices with the same voltage as applied to the unit. Maximum load on the port is 500mA.

RB2011iL-IN

The RB2011 lite model comes in a desktop case and features a PoE out port, just like all the other models.

- 600 MHz CPU, 64 MB RAM
- Desktop case

RB2011iL-RM

The RM model is similar, but comes in a larger, rackmountable enclosure.

- 600 MHz CPU, 64 MB RAM
- Rackmount case

RB2011iLS-IN

This device includes an SFP port for fiber and copper modules. See the Accessories chapter for recommended modules.

- SFP port for 1.25 Gigabit connectivity
- 600 MHz CPU, 64 MB RAM
- Desktop case

RB3011UiAS-RM

The RB3011 is a new multi port device, our first to be running an ARM architecture CPU for higher performance than ever before. The RB3011 has ten Gigabit ports divided in two switch groups, an SFP cage and for the first time a Superspeed full size USB 3.0 port, for adding storage or an external 3G/4G modem.

Unit comes with 1U rackmount enclosure, a touchscreen LCD panel, a serial console port and PoE output functionality on the last Ethernet port.

RB3011UiAS-IN

The U models include more RAM and a USB port.

- SFP port for 1.25 Gigabit connectivity
- 600 MHz CPU, 128 MB RAM
- LCD display and USB
- Desktop case
**RB1100AHx4 Dude Edition**

The RB1100AHx4 Dude Edition has an Annapurna Alpine AL21400 CPU with four Cortex A15 cores clocked at 1.4 GHz each, for a maximum throughput of up to 7.5 Gbps. The device supports IPsec hardware acceleration and is faster at it than any previous RouterBOARD device (up to 2.2 Gbps with AES128).

The unit comes in a 1U rackmount case, with 13 Gigabit Ethernet ports, RS232 serial port and dual redundant power supplies (with -48 V DC telecom power and 802.3at/af support). The RB1100AHx4 Dude edition features several high speed storage connectors (two SATA and two M.2) for storing The Dude database, proxy cache or for any other storage intensive task. A 60 GB M.2 drive is already included.

- 13 Gigabit Ethernet ports
- Four core Annapurna Alpine 1.4 GHz ARM CPU, 1 GB RAM
- Maximum throughput of up to 7.5 Gbps
- IPsec hardware acceleration (up to 2.2 Gbps with AES128)
- Dual redundant power supplies (with -48 V DC telecom power and 802.3at/af support)
- Two SATA and two M.2 connectors for storage
- 60 GB M.2 drive already included

**Cloud Core Router series**

The Cloud Core Router series of devices are powered by our fastest networking processors, based on the Tilera architecture. The CCR series is the top of the line Ethernet routers for your most demanding needs.

The CCR series devices use Tilera multicore CPUs, which are so powerful, that the devices can easily handle all port routing without a switch chip. All of the CCR series devices support hardware IPsec acceleration.

**CCR1009-7G-1C-PC**

- 7 Gigabit Ethernet ports
- Combo (Gigabit Ethernet or SFP) port
- 1 GB RAM
- Silent passive cooling enclosure

**CCR1009-7G-1C-1S+**

- 10 Gbps SFP+ port for 10 Gbps connectivity
- LCD touch screen, smart card slot, microSD slot
- Dual power supplies built-in for redundancy
- 1U rackmount enclosure

**CCR1016-12G**

Powerful 16 core rackmount router with 12 Gigabit Ethernet ports.

- 12 Gigabit Ethernet ports
- Tilera 16-core CPU, 1.2 GHz per core, 2 GB RAM
- Up to 17.8 Million pps throughput in Fast Path mode (wire speed)
- Up to 12 Gbps throughput with RouterOS queue/firewall configuration
- LCD touch screen
- 1U rackmount enclosure
This device combines the immense power of the Tiler 9 core CPU with a compact and completely silent enclosure, which is cooled only by a cleverly designed heatsink.

This unit features only fully independent Ethernet ports each with a direct connection to the CPU, allowing to overcome previous shared 1 Gbit limitation from switch-chip ports and utilize full potential of CPU processing power on those ports. We have also included an SFP+ port for using 10G SFP+ modules, so you can utilize the full potential of the powerful CPU this unit has.

**CCR1009-7G-1C-1S+PC**

- Combo (Gigabit Ethernet or SFP) port
- SFP+ port for 10 Gbps connectivity
- 2 GB RAM
- LCD touch screen, smart card slot, microSD slot

**CCR1016-12S-1S+**

Powerful 16 core rackmount router with 12 SFP ports and one SFP+ for 10 Gigabit connectivity.
- 12 SFP ports for 1.25 Gigabit connectivity
- 1 SFP+ port for 10 Gigabit connectivity
- Tilera 16-core CPU, 1.2 GHz per core, 2 GB RAM
- Dual power supplies built-in for redundancy
- LCD touch screen
- 1U rackmount enclosure

**CCR1036-12G-4S**

Carrier grade 36 core rackmount router with 12 Gigabit Ethernet ports and four SFP ports for optical fiber connectivity.
- 12 Gigabit Ethernet ports
- 4 SFP ports for 1.25 Gigabit connectivity
- Tilera 36-core CPU, 1.2 GHz per core, 4 GB RAM
- Up to 24 Mpps throughput in Fast Path mode (wire speed)
- Up to 16 Gbps throughput with RouterOS queue/firewall configuration
- LCD touch screen
- 1U rackmount enclosure

**CCR1036-12G-4S-EM**

The same carrier grade 36 core rackmount router with 12 Gigabit Ethernet ports and four SFP ports for optical fiber connectivity, but with more RAM for high intensity tasks.
- 16 GB of RAM

**CCR1036-8G-2S+**

Carrier Grade 36 core rackmount router with 8 Gigabit Ethernet ports and two SFP+ for 10G connectivity.
- 8 Gigabit Ethernet ports
- 2 SFP+ ports for 10 Gigabit connectivity
- Tilera 36-core CPU, 1.2 GHz per core, 4 GB RAM
- Up to 41.5 Mpps throughput in Fast Path mode (wire speed)
- Up to 28 Gbps throughput with RouterOS queue/firewall configuration
- LCD touch screen
- 1U rackmount enclosure

**CCR1036-8G-2S+EM**

Carrier Grade 36 core rackmount router with 8 Gigabit Ethernet ports and two SFP+ for 10G connectivity, extended memory version.
- 8 Gigabit Ethernet ports
- 2 SFP+ ports for 10 Gigabit connectivity
- Tilera 36-core CPU, 1.2 GHz per core, 16 GB RAM
- Up to 41.5 Mpps throughput in Fast Path mode (wire speed)
- Up to 28 Gbps throughput with RouterOS queue/firewall configuration
- LCD touch screen
- 1U rackmount enclosure
SOHO switches

Our smaller SOHO switches have five Gigabit Ethernet ports and an SFP port for optical fiber connectivity. The devices are powered by RouterOS or SwOS, our switch operating system that gives you all the most important switch configuration options.

RB260GS

The tiny desktop case is compact enough to mount in narrow places, mounting hooks provide possibility to wall mount it in any direction.
- Five Gigabit Ethernet ports
- SFP port for 1.25 Gigabit connectivity
- Powered by SwOS
- All the basic functionality for a managed switch, plus more

RB260GSP

The P model also includes capability to power other devices.
- Ethernet ports 2-5 can power other PoE capable devices
- Powered by SwOS

CRS106-1C-5S

A desktop size smart switch with a Gigabit Ethernet / SFP combo port and five SFP ports for optical fiber connectivity.
- Combo (Gigabit Ethernet or SFP) port
- 400 MHz CPU, 128 MB RAM
- A market leading solution for connecting up to six SFP devices
- Powered by RouterOS

FiberBox

An outdoor switch with five SFP ports, ideal for locations where distance is restricting the use of regular Ethernet cables.
- 400 MHz CPU, 128 MB RAM
- Weatherproof outdoor case
- RJ45 SFP (S-RJ01) copper module already pre-installed in the first port
- Powered by RouterOS

Quick specifications

- 1 Gigabit Ethernet port
- 8 SFP+ ports for 10 Gigabit connectivity
- Tilera 72-core CPU, 1 GHz per core, 16 GB RAM
- Up to 120 Mpps throughput in Fast Path mode (wire speed)
- Up to 80 Gbps throughput
- Two built-in M.2 slots, microSD slot and 2x USB ports for adding storage, to use for proxy cache, user manager and other features. The M.2 slots accept 800 mm Key-M x4 PCIe 2.0 modules.

CCR1072-1G-8S+

Our flagship router, the CCR1072, is powered by a Tilera 72 core CPU, each core is clocked at 1 GHz, and to fully utilize this power, the CCR1072 is equipped with eight independently connected 10G SFP+ ports.

Thanks to the unique 72 core processor and ports that are directly connected to the CPU, the CCR1072 is capable of over 120 million packets per second throughput.

The unit comes equipped with two removable (hot plug) power supplies for redundancy, smart card slot, eight SFP+ ports and 16 GB of built in ECC RAM.

The CCR1072 also has two built-in M.2 slots, microSD slot and 2x USB ports for adding storage, to use for proxy cache, user manager and other features. The M.2 slots accept 800 mm Key-M x4 PCIe 2.0 modules.

1U rackmount enclosure
PW48V-12V150W can be used as an alternative

mt.lv/p/261
mt.lv/p/305
mt.lv/p/218
mt.lv/p/174
mt.lv/p/328
### Medium business switches

**CRS109-8G-1S-2HnD-IN**
- A desktop size smart switch with 8 Gigabit Ethernet ports, SFP port for optical fiber connectivity and high power 2.4 GHz wireless.
  - 8 Gigabit Ethernet ports
  - SFP port for 1.25 Gigabit connectivity
  - High power 2.4 GHz dual chain wireless
  - 600 MHz CPU, 128 MB RAM
  - LCD touch screen, microUSB port

**CRS112-8G-4S-IN**
- A desktop size smart switch with 8 Gigabit Ethernet ports and 4 SFP ports for optical fiber connectivity.
  - 8 Gigabit Ethernet ports
  - 4 SFP ports for 1.25 Gigabit connectivity
  - 400 MHz CPU, 128 MB RAM

**CRS112-8P-4S-IN**
- A desktop size smart PoE switch with 8 Gigabit Ethernet ports, 4 SFP ports for optical fiber connectivity and PoE output.
  - 8 Gigabit Ethernet ports with PoE output
  - 4 SFP ports for 1.25 Gigabit connectivity
  - 400 MHz CPU, 128 MB RAM
  - 28 V 3.4 A power supply included
  - Secondary DC jack on the back of the enclosure that supports 48-57 V power supply (optional)

**CRS212-1G-10S-1S+IN**
- A desktop size smart switch with a Gigabit Ethernet port, 10 SFP ports and an SFP+ port for 10 Gigabit connectivity.
  - Gigabit Ethernet port
  - 10 SFP ports for 1.25 Gigabit connectivity
  - SFP+ port for 10 Gigabit connectivity
  - 400 MHz CPU, 64 MB RAM
  - LCD touch screen

### Enterprise switches

**CRS125-24G-1S-IN**
- A 24 port Gigabit Ethernet switch in a 1U rackmount case with an SFP port for optical fiber connectivity.
  - 24 Gigabit Ethernet ports
  - SFP port for 1.25 Gigabit connectivity
  - 600 MHz CPU, 128 MB RAM
  - microUSB port
  - 1U rackmount case

**CRS125-24G-1S-2HnD-IN**
- A desktop size smart switch with 24 Gigabit Ethernet ports, an SFP port for optical fiber connectivity and high power 2.4 GHz wireless.
  - 24 Gigabit Ethernet ports
  - SFP port for 1.25 Gigabit connectivity
  - High power 2.4 GHz dual chain wireless
  - 600 MHz CPU, 128 MB RAM
  - LCD touch screen, microUSB port

**CSS326-24G-2S+RM**
- A 24 port Gigabit Ethernet router/switch with two SFP+ ports in 1U rackmount case, dual boot.
  - 24 Gigabit Ethernet ports
  - Two SFP+ ports for 10 Gigabit connectivity
  - 800 MHz CPU, 512 MB RAM
  - Dual boot feature that allows to choose RouterOS or SwOS
  - 1U rackmount case

**CRS326-24G-2S+RM**
- A 24 port Gigabit Ethernet router/switch with two SFP+ ports in 1U rackmount case, dual boot.
  - 24 Gigabit Ethernet ports
  - Two SFP+ ports for 10 Gigabit connectivity
  - 800 MHz CPU, 512 MB RAM
  - Dual boot feature that allows to choose RouterOS or SwOS
  - 1U rackmount case
**CRS328-24P-4S+RM**

The CRS328-24P-4S+RM is a 28 independent port PoE switch with multiple power options: Passive PoE, low voltage PoE, 802.3af/at (Type 1 “PoE” / Type 2 “PoE+”) with per port auto-sensing. The 4 SFP+ ports provide up to 10 Gigabit connectivity options via either optical fiber or Ethernet modules (not included).

CRS328-24P-4S+RM comes in a 1U rackmount case with 100-240 V AC 500 W power supply built-in.

- 24 Gigabit Ethernet ports with PoE output
- 4 SFP+ ports for 10 Gigabit connectivity
- 800 MHz CPU, 512 MB RAM
- Power output options: Passive PoE, low voltage PoE, 802.3at/af (Type 1 “PoE” / Type 2 “PoE+”) with auto-sensing
- 100-240 V AC 500 W power supply built-in
- Non-Blocking throughput: 64 Gbps
- Switching capacity: 128 Gbps
- Dual boot feature that allows to choose RouterOS or SwOS

**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
- RI45 serial console port
- Dual PSU
- Maximum power consumption: 43 W
- Temperature based fan control
- 1U rackmount

**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

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**Switches**

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**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 RI45 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 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.

**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
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**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
- RI45 serial console port
- Dual PSU
- Maximum power consumption: 43 W
- Temperature based fan control
- 1U rackmount

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**Switches**

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**CRS317-1G-16S+RM**

A 1U rackmount manageable switch with 16 SFP+ ports for for 10 Gigabit connectivity and a Gigabit Ethernet port for management.

- Gigabit Ethernet port
- 16 SFP+ ports for 10 Gigabit connectivity
- Dual core 800 MHz CPU, 1 GB RAM
- Dual boot feature that allows to choose RouterOS or SwOS
- Dual redundant power supplies
- Silent passive cooling enclosure
- 1U rackmount case
2.4 GHz integrated directionals

**SXTsq Lite2**
A compact, low-cost and lightweight outdoor 2.4 GHz 802.11b/g/n wireless device with an 10 dBi integrated antenna.
- 2.4 GHz 10 dBi antenna
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- 650 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

**SXT Lite2**
An outdoor 2.4 GHz 802.11b/g/n wireless device with a 10 dBi integrated antenna.
- 2.4 GHz 10 dBi antenna
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

**LHG 2**
An outdoor 2.4 GHz 802.11b/g/n wireless device with an 18 dBi integrated antenna for longer distances.
- 2.4 GHz 18 dBi antenna
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- 650 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

**LHG XL 2**
An outdoor 2.4 GHz 802.11b/g/n wireless device with an extra large 21 dBi integrated antenna for even longer distances.
- 2.4 GHz 21 dBi antenna
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- 650 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

2.4 GHz integrated base stations

**QRT 2**
An outdoor 2.4 GHz 802.11b/g/n super high power wireless device with an 17 dBi integrated antenna and Gigabit Ethernet for high speed on long distances. This model includes a sturdy precision alignment mounting kit.
- 2.4 GHz 17 dBi antenna
- 802.11b/g/n super high power dual chain wireless
- Gigabit Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

**LDF 2**
A tiny 2.4 GHz system for super long distance links with satellite offset dish antennas.
- 40 mm diameter to fit any available satellite TV dish with an offset mount
- integrated 2.4 GHz 10 dBi antenna
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- 650 MHz CPU, 64 MB RAM
- RouterOS level 3 (CPE or Point-to-Point)

**SXT 2**
An outdoor 2.4 GHz 802.11b/g/n base station with a 10 dBi, 60 degree integrated sector antenna and Gigabit Ethernet.
- 2.4 GHz 10 dBi 60° sector antenna
- 802.11b/g/n high power dual chain wireless
- Gigabit Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)
5 GHz integrated directionals
Up to 10 km distance

SXTsq 5 High Power
A compact, low-cost and lightweight outdoor 5 GHz 802.11a/n high power wireless device with a 16 dBi integrated antenna.
- 5 GHz 16 dBi antenna
- 802.11a/n increased output power, dual chain wireless
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

SXT Lite5
An outdoor 5 GHz high power 802.11a/n wireless device with an 16 dBi integrated antenna.
- 5 GHz 16 dBi antenna
- 802.11a/n dual chain wireless
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS L3 (CPE or Point-to-Point)

Disc Lite5
An outdoor 5 GHz 802.11a/n/ac wireless device with a high gain 21 dBi integrated antenna.
- 5 GHz 21 dBi antenna
- 802.11a/n/ac dual chain wireless
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

Disc Lite5 ac
An outdoor 5 GHz 802.11a/n/ac wireless device with a high gain 21 dBi integrated antenna and Gigabit Ethernet for high speed on long distances.
- 5 GHz 21 dBi antenna
- 802.11a/n/ac high power dual chain wireless
- Gigabit Ethernet
- 716 MHz CPU, 256 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

LHG 5
An outdoor 5 GHz 802.11a/n wireless device with a 24.5 dBi integrated antenna for long distances.
- 5 GHz 24.5 dBi antenna
- 802.11a/n dual chain wireless
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

LHG HP5
An outdoor 5 GHz 802.11a/n high power wireless device with a 24.5 dBi integrated antenna for long distances.
- 5 GHz 24.5 dBi antenna
- 802.11a/n dual chain high power wireless
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)
**LHG XL HP5**

An outdoor 5 GHz 802.11a/n high power wireless device with an extra large 27 dBi integrated antenna for extra large distances.

- 5 GHz 27 dBi antenna
- 802.11a/n dual chain high power wireless
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

**QRT 5**

An outdoor 5 GHz 802.11a/n high power wireless device with a 24 dBi integrated antenna and Gigabit Ethernet.

- 5 GHz 24 dBi antenna
- 802.11a/n high power dual chain wireless
- Gigabit Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

**LHG 5 ac**

An outdoor 5 GHz 802.11a/n/ac wireless device with a 24.5 dBi integrated antenna and Gigabit Ethernet.

- 5 GHz 24.5 dBi antenna
- 802.11a/n/ac dual chain wireless
- Gigabit Ethernet
- 716 MHz CPU, 256 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

**QRT 5 ac**

An outdoor 5 GHz 802.11a/n/ac high power wireless device for long distances with a 24 dBi integrated antenna and Gigabit Ethernet.

- 5 GHz 24 dBi antenna
- 802.11a/n/ac high power dual chain wireless
- Gigabit Ethernet
- 720 MHz CPU, 128 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

**LHG XL 5 ac**

An outdoor 5 GHz 802.11a/n/ac wireless device with an extra large 27 dBi integrated antenna for extra long distances and Gigabit Ethernet.

- 5 GHz 27 dBi antenna
- 802.11a/n/ac dual chain wireless
- Gigabit Ethernet
- 716 MHz CPU, 256 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

**DynaDish 5**

An outdoor 5 GHz 802.11a/n/ac high power wireless device for extra long distances with a 25 dBi integrated antenna and Gigabit Ethernet.

- 5 GHz 25 dBi antenna
- 802.11a/n/ac high power dual chain wireless
- Gigabit Ethernet
- 720 MHz CPU, 128 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

**SEXTANT G**

An outdoor 5 GHz 802.11a/n high power wireless device with an 18 dBi integrated antenna and Gigabit Ethernet.

- 5 GHz 18 dBi antenna
- 802.11a/n high power dual chain wireless
- Gigabit Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

**LDF 5**

A tiny 5 GHz system for super long distance links with a satellite offset dish antennas.

- 40 mm diameter to fit any available satellite TV dish with an offset mount
- Integrated 5 GHz 9 dBi antenna
- 802.11a/n dual chain wireless
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)
Outdoor wireless systems

LDF 5 ac
A tiny 5 GHz system with Gigabit Ethernet and 802.11a/n/ac support for super long distance links with satellite offset dish antennas

- 40 mm diameter to fit any available satellite TV dish with an offset mount
- Integrated 5 GHz 9 dBi antenna
- 802.11a/n/ac dual chain wireless
- Gigabit Ethernet
- 716 MHz CPU, 256 MB RAM
- RouterOS level 3 license (CPE or Point-to-Point)

SXT SA5
An outdoor 5 GHz 802.11a/n high power wireless integrated base station with a 14 dBi 90° sector antenna.
- 5 GHz 14 dBi 90° sector antenna
- 802.11a/n dual chain high power wireless
- Gigabit Ethernet
- 600 MHz CPU, 64 MB RAM
- USB
- RouterOS level 4 license (AP, CPE or Point-to-Point)

SXT SA5 ac
An outdoor 5 GHz 802.11a/n/ac high power wireless integrated base station with a 14 dBi 90° sector antenna.
- 5 GHz 14 dBi 90° sector antenna
- 802.11a/n/ac dual chain high power wireless
- Gigabit Ethernet
- 720 MHz CPU, 128 MB RAM
- USB
- RouterOS level 4 license (AP, CPE or Point-to-Point)

mANTBox 15s
An outdoor 5 GHz 802.11a/n/ac high power wireless integrated base station with a 15 dBi 120° sector antenna and an SFP port.
- 5 GHz 15 dBi 120° sector antenna
- 802.11a/n/ac dual chain high power wireless
- Gigabit Ethernet
- 720 MHz CPU, 128 MB RAM
- SFP port for 1.25 Gigabit connectivity

mANTBox 19s
An outdoor 5 GHz 802.11a/n/ac high power wireless integrated base station with a long range 19 dBi 120° sector antenna and an SFP port.
- 5 GHz 19 dBi 120° sector antenna
- 802.11a/n/ac dual chain high power wireless
- Gigabit Ethernet
- 720 MHz CPU, 128 MB RAM
- SFP port for 1.25 Gigabit connectivity

OmniTik 5
An outdoor 5 GHz 802.11a/n high power wireless integrated access point with two integrated 7.5 dBi omni antennas and 5 Ethernet ports.
- 2 integrated 5 GHz 7.5 dBi omni antennas
- 802.11a/n dual chain high power wireless
- 5x 10/100 Mbps Ethernet ports
- 600 MHz CPU, 64 MB RAM
- USB

OmniTik 5 ac
An outdoor 5 GHz 802.11a/n/ac high power wireless integrated access point with two integrated 7.5 dBi omni antennas and five Ethernet ports.
- 2 integrated 5 GHz 7.5 dBi omni antennas
- 802.11a/n/ac dual chain high power wireless
- 5 Gigabit Ethernet ports
- 720 MHz CPU, 128 MB RAM
- USB

mt.lv/p/195
mt.lv/p/233
mt.lv/p/279
mt.lv/p/338
mt.lv/p/280
mt.lv/p/117
mt.lv/p/302
OmniTik 5 PoE
An outdoor 5 GHz 802.11a/n high power wireless integrated access point with two integrated 7.5 dBi omni antennas and 5 Ethernet ports with PoE output.

- 2 integrated 5 GHz 7.5 dBi omni antennas
- 802.11a/n dual chain high power wireless
- 5x 10/100 Mbps Ethernet ports (PoE output on ports 2-5)
- 600 MHz CPU, 64 MB RAM
- USB
- RouterOS level 4 license (AP, CPE or Point-to-Point)

OmniTik 5 PoE ac
An outdoor 5 GHz 802.11a/n/ac high power wireless integrated access point with two integrated 7.5 dBi omni antennas and 5 Ethernet ports with PoE output.

- 2 integrated 5 GHz 7.5 dBi omni antennas
- 802.11a/n/ac dual chain high power wireless
- 5 Gigabit Ethernet (PoE output on ports 2-5)
- 720 MHz CPU, 128 MB RAM
- USB
- RouterOS level 4 license (AP, CPE or Point-to-Point)

Groove 52
Our smallest outdoor integrated wireless device with a selectable wireless band (2.4 GHz or 5 GHz) and N-male connector for an external antenna.

- 5 GHz 802.11a/n single chain or 2.4 GHz 802.11b/g/n single chain wireless (software selectable)
- N-male connector for external antenna
- 2.4/5 GHz omni directional antenna (6 dBi 2.4 GHz, 8 dBi 5 GHz) included
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

GrooveA 52
Our smallest outdoor integrated wireless AP with a selectable wireless band (2.4 GHz or 5 GHz) and N-male connector for an external antenna.

- 5 GHz 802.11a/n single chain or 2.4 GHz 802.11b/g/n single chain wireless (software selectable)
- 2.4/5 GHz omni directional antenna (6 dBi 2.4 GHz, 8 dBi 5 GHz) included
- N-male connector for external antenna
- 2.4/5 GHz omni directional antenna (6 dBi 2.4 GHz, 8 dBi 5 GHz) included
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

Metal 2
Small size outdoor integrated 2.4 GHz super high power wireless AP in a weatherproof metal case and N-male connector for external antenna.

- 2.4 GHz 802.11b/g/n single chain super high power wireless
- Omni antenna (6 dBi) included
- 10/100 Mbps Ethernet
- 400 MHz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)
Outdoor wireless systems

Metal 5
A small size outdoor integrated 5 GHz super high power wireless AP in a weatherproof metal case and N-male connector for an external antenna.

- 5 GHz 802.11a/n single chain super high power wireless
- N-male connector for an external antenna
- 10/100 Mbps Ethernet
- 400 MHz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

Metal 52 ac
A small size outdoor integrated super high power wireless AP in a weatherproof metal case with a selectable wireless band (2.4 GHz or 5 GHz) and N-male connector for an external antenna.

- 5 GHz 802.11a/n/ac single chain or 2.4 GHz 802.11b/g/n single chain super high power wireless (software selectable)
- 2.4/5 GHz omni directional antenna (6 dBi 2.4 GHz, 8 dBi 5 GHz) included
- Gigabit Ethernet
- 720 MHz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

BaseBox 2
An outdoor 2.4 GHz 802.11b/g/n high power wireless integrated base station with two RPSMA connectors for external antennas and an expansion slot.

- 2.4 GHz 802.11b/g/n dual chain high power wireless
- 2x RPSMA connectors for external antennas
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- miniPCIe slot, SIM slot, USB
- RouterOS level 4 license (AP, CPE or Point-to-Point)

BaseBox 5
An outdoor 5 GHz 802.11a/n high power wireless integrated base station with two RPSMA connectors for external antennas and an expansion slot.

- 5 GHz 802.11a/n dual chain high power wireless
- 2x RPSMA connectors for external antennas
- 10/100 Mbps Ethernet
- 600 MHz CPU, 64 MB RAM
- miniPCIe slot, SIM slot, USB
- RouterOS level 4 license (AP, CPE or Point-to-Point)

NetMetal 5
By supporting the 802.11ac wireless standard, the NetMetal allows to use datarates of up to 1.3 Gbps (for the “triple” models), 256-QAM modulation and 20/40/80 MHz channels. With it’s huge speed improvements, 802.11ac opens up new possibilities.

Its rugged design and the waterproof enclosure is made to withstand the toughest conditions, but at the same time is easy to use and can be opened and closed with one hand. The solid aluminium enclosure also works as a reliable heatsink for it’s high output power radio.

RB922 (NetMetal 5 and NetMetal 5 triple) models have a miniPCI-e slot for a 3G/4G or an additional wireless card.

- 802.11a/n/ac triple chain super high power wireless
- 2-3 RPSMA connectors for external antennas
- Gigabit Ethernet
- SFP port for 1.25 Gigabit connectivity
- 720 MHz CPU, 128 MB RAM
- USB
- RouterOS level 4 license (AP, CPE or Point-to-Point)
- Weatherproof metal enclosure (IP66)

NetBox 5
An outdoor 5 GHz 802.11a/n/ac high power wireless integrated base station with two RPSMA connectors for external antennas.

- 802.11a/n/ac dual chain high power wireless
- 2 RPSMA connectors for external antennas
- Gigabit Ethernet
- 720 MHz CPU, 128 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)
6 GHz integrated units

**SXT 6**
The SXT 6 is an outdoor wireless device for licensed bands with a dual chain 16 dBi 28° 5.9-6.4 GHz integrated antenna.
- 5.9-6.4 GHz 16 dBi antenna for licensed bands
- 802.11a/n dual chain wireless
- Gigabit Ethernet
- 600 Mhz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

**DynaDish 6**
The DynaDish 6 is an outdoor wireless device for licensed bands with a dual chain 25 dBi 5.9-6.4 GHz integrated antenna.
- 5.9-6.4 GHz 25 dBi antenna for licensed bands
- 802.11a/n dual chain wireless
- Gigabit Ethernet
- 600 Mhz CPU, 64 MB RAM
- RouterOS level 4 license (AP, CPE or Point-to-Point)

60 GHz integrated units

**wAP 60G**
Weatherproof integrated 60 GHz wireless unit to be used indoors or outdoors as a Point-to-Point or a CPE.
- 60 GHz phase array 60° beamforming antenna
- 4 core 716 MHz CPU, 256 MB RAM
- Distances 100 m+
- Gigabit Ethernet
- Works through most windows, depending on their material
- Outdoor weatherproof enclosure
- RouterOS level 3 license (CPE or Point-to-Point)

Wireless Wire
The Wireless Wire is a ground breaking solution which offers fiber speed and quality for a fraction of the price. This amazing kit replaces your Gigabit ethernet cable with two small devices that connect to each other over a 60 GHz wireless link.

Simply point the included devices at one another and power them on, it will make a 1 Gbps full duplex link to instantly replace your cable - this is why we call it the Wireless Wire!

The Wireless Wire makes secure AES encrypted 60 GHz wireless link that is not affected by the crowded WiFi spectrum, offering solid full duplex 1 Gbps throughput at 100 meters and a stable and fast link for slightly longer distances.

- Includes two wAP 60G devices for a preconfigured 60 GHz link
- 1 Gbps full duplex
- Devices are already paired together
- Distances 100 m+
- Gigabit Ethernet
- Works through most windows, depending on their material
- Outdoor weatherproof enclosure
- 4 core 716 MHz CPU, 256 MB RAM

**wAP 60G AP**
Weatherproof integrated 60 GHz wireless unit to be used indoors or outdoors as a base station or a CPE.
- 60 GHz phase array 60° beamforming antenna
- 4 core 716 MHz CPU, 256 MB RAM
- Distances 100 m+
- Gigabit Ethernet
- Works through most windows, depending on their material
- Outdoor weatherproof enclosure
- RouterOS level 4 license (AP, CPE or Point-to-Point)
Single band 2.4 GHz access points

hAP mini
A tiny size 2.4 GHz SOHO AP with three Ethernet ports in a tower case.
- 802.11b/g/n dual chain wireless
- 3x 10/100 Mbps Ethernet ports
- 650 MHz CPU, 32 MB RAM
- Tiny size (8 cm tall) tower enclosure
- Most affordable MikroTik AP

hAP lite
A compact 2.4 GHz SOHO AP with four Ethernet ports in a colorful tower case.
- 802.11b/g/n dual chain wireless
- 4x 10/100 Mbps Ethernet ports
- 650 MHz CPU, 32 MB RAM
- Compact colorful tower case
- Button triggered WPS

hAP lite classic
A compact 2.4 GHz SOHO AP with four Ethernet ports in a desktop case.
- 802.11b/g/n dual chain wireless
- 4x 10/100 Mbps Ethernet ports
- 650 MHz CPU, 32 MB RAM
- Compact desktop case
- Button triggered WPS

hAP
A compact 2.4 GHz SOHO AP with five Ethernet ports in a desktop case and PoE support.
- 802.11b/g/n dual chain wireless
- 5x 10/100 Mbps Ethernet ports (PoE output on port 5)
- 650 MHz CPU, 64 MB RAM
- Compact desktop case
- USB

mAP lite
A tiny size travel router with 2.4 GHz AP functionality.
- Our smallest wireless access point, barely larger than a matchbox
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- Can be used as a client device to improve laptop signal range
- 650 MHz CPU, 64 MB RAM

RB951Ui-2HnD
A high power 2.4 GHz AP in desktop case with five Ethernet ports and PoE support.
- 802.11b/g/n 2.4 GHz high power dual chain wireless
- 5x 10/100 Mbps Ethernet ports (PoE output on port 5)
- 600 MHz CPU, 128 MB RAM
- Compact desktop case
- USB, NAND memory for storage

RB951G-2HnD
A high power 2.4 GHz AP in desktop case with five Gigabit Ethernet ports.
- 802.11b/g/n 2.4 GHz high power dual chain wireless
- 5 Gigabit Ethernet ports
- 600 MHz CPU, 128 MB RAM
- Compact desktop case
- USB, NAND memory for storage

RB2011UiAS-2HnD-IN
A high power multi port 2.4 GHz AP in a metal desktop case with PoE functionality and support for optical fiber connectivity.
- 802.11b/g/n 2.4 GHz high power dual chain wireless with external dipole antennas
- 5x Gigabit Ethernet ports
- 5x 10/100 Mbps Ethernet ports
- Ethernet port 10 can power other PoE capable devices
- SFP port for 1.25 Gigabit connectivity
- 600 MHz CPU, 128 MB RAM, LCD display and USB
- Sturdy metal desktop enclosure

mAP lite
A tiny size travel router with 2.4 GHz AP functionality.
- Our smallest wireless access point, barely larger than a matchbox
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- Can be used as a client device to improve laptop signal range
- 650 MHz CPU, 64 MB RAM

mAP lite
A tiny size travel router with 2.4 GHz AP functionality.
- Our smallest wireless access point, barely larger than a matchbox
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- Can be used as a client device to improve laptop signal range
- 650 MHz CPU, 64 MB RAM
**mAP**

A small size travel router with 2.4 GHz wireless, two Ethernet ports and PoE output. Configure the ports as desired (one WAN and one LAN, or any other combination).

- 802.11b/g/n dual chain wireless
- 2x 10/100 Mbps Ethernet ports (PoE output on port 2)
- 650 MHz CPU, 64 MB RAM
- Accepts power from a wide variety of sources - USB, PoE and power jack
- Small case

**cAP lite**

A tiny 2.4 GHz AP, perfect for public locations and hospitality businesses.

- Two different casings included – ceiling and wall mount
- 802.11b/g/n dual chain wireless
- 1.5 dBi 2.4 GHz antenna
- 10/100 Mbps Ethernet
- 650 MHz CPU, 64 MB RAM

**cAP**

A Compact 2.4 GHz AP with ceiling case for larger coverage, perfect for public locations and hospitality businesses.

- 802.11b/g/n dual chain wireless
- 2 dBi 2.4 GHz antenna
- 10/100 Mbps Ethernet
- 650 MHz CPU, 64 MB RAM
- Ceiling case

**wAP**

A small weatherproof 2.4 GHz wireless access point for mounting on a ceiling, wall or pole.

- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet
- 650 MHz CPU, 64 MB RAM
- Weatherproof outdoor case, available in white and black

**Dual band home access points**

**hAP ac lite**

A compact dual concurrent 2.4 GHz / 5 GHz SOHO AP with five Ethernet ports in a desktop case and PoE support.

- 802.11b/g/n dual chain and 802.11a/n/ac single chain wireless
- Five 10/100 Mbps Ethernet ports (PoE output on port 5)
- 650 MHz CPU, 64 MB RAM
- Compact classic desktop case
- USB

**hAP ac lite tower**

A compact dual concurrent 2.4 GHz / 5 GHz SOHO AP with five Ethernet ports in a universal case and PoE support.

- 802.11b/g/n dual chain and 802.11a/n/ac single chain wireless
- Five 10/100 Mbps Ethernet ports (PoE output on port 5)
- 650 MHz CPU, 64 MB RAM
- Universal case to be positioned either horizontally or vertically
- USB

**hAP ac**

A dual concurrent 2.4 GHz / 5 GHz high power AP with five Gigabit Ethernet ports, SFP and PoE support.

- 802.11b/g/n triple chain and 802.11a/n/ac triple chain high power wireless
- 5 Gigabit Ethernet ports (PoE output on port 5)
- SFP port for 1.25 Gigabit connectivity, USB
- 720 MHz CPU, 128 MB RAM

**wsAP ac lite**

An in-wall dual concurrent 2.4 GHz / 5 GHz wireless access point with three Ethernet ports and telephone jack pass through for hospitality networks.

- In-wall case that fits US and EU most popular telecommunication sockets
- 802.11b/g/n 2.4 GHz dual chain and 802.11a/n/ac 5 GHz single chain wireless
- Pass through telephone jack (RJ11)
- USB for charging mobile devices or for storage
- 650 MHz CPU, 64 MB RAM
**hAP ac²**

The hAP ac² is a Dual-concurrent Access Point, that provides WiFi coverage for 2.4 GHz and 5 GHz frequencies at the same time. Five 10/100/1000 Ethernet ports provide Gigabit connections for your wired devices, and USB can be used for external storage or 4G/LTE modem.

New design universal case allows unit to be positioned either horizontally (desktop) or vertically (tower case). Wall anchored mounting kit is provided.

- 802.11b/g/n dual chain high power wireless
- 802.11a/n/ac dual chain high power wireless
- 4 core 716 MHz CPU, 128 MB RAM
- New design universal case to be positioned either horizontally (desktop) or vertically (tower case)
- Support for IPsec hardware encryption and The Dude monitoring server
- USB

**cAP ac**

A powerful dual concurrent 2.4 GHz / 5 GHz wireless access point with two Gigabit Ethernet ports and PoE functionality, that looks beautiful on both walls and ceilings.

- 802.11b/g/n dual chain wireless
- 802.11a/n/ac dual chain wireless
- 2 Gigabit Ethernet ports (PoE output on port 2)
- 716 MHz CPU, 128 MB RAM
- The customizable mode button in the device center will turn off all lights and sounds, can be reconfigured to launch any RouterOS script.
- Two different casings included – circular and square, to match any taste.

**wAP ac**

A small weatherproof dual concurrent 2.4 GHz / 5 GHz high power wireless access point for mounting on a ceiling, wall or pole.

- 802.11b/g/n dual chain high power wireless
- 802.11a/n/ac triple chain high power wireless
- Gigabit Ethernet port
- 720 MHz CPU, 64 MB RAM
- Weatherproof outdoor case, available in white or black

**Devices with 3G/LTE cellular network support**

**wAP R**

A small weatherproof 2.4 GHz wireless access point with a miniPCIe slot and LTE antennas for installing your own LTE card.

- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet port
- 650 MHz CPU, 64 MB RAM
- miniPCIe slot and SIM slot
- Several powering options: 9-30 V PoE-in by Ethernet port, DC jack and automotive connector, very handy in vehicles like cars, buses or trains

**wAP LTE Kit**

A small weatherproof 2.4 GHz wireless access point with international LTE modem.

- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet port
- 650 MHz CPU, 64 MB RAM, SIM slot
- Modern with 2G, 3G and 4G (LTE) connectivity support installed
- Supports international LTE bands 1, 2, 3, 7, 8, 20, 38 and 40
- Several powering options: 9-30 V PoE-in by Ethernet port, DC jack and automotive connector, very handy in vehicles like cars, buses or trains

**wAP LTE Kit-US**

A small weatherproof 2.4 GHz wireless access point with United States LTE modem.

- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet port
- 650 MHz CPU, 64 MB RAM, SIM slot
- Modern with 3G and 4G (LTE) connectivity support installed
- Supports US LTE bands 2, 4, 5 and 12

**LtAP mini**

A small weatherproof 2.4 GHz wireless access point with integrated GPS, miniPCIe slot and LTE antennas for installing your own LTE card.

- miniPCIe slot and two SIM slots
- Integrated GPS to track the location of your device in real time
- Special weatherproof enclosure with wall mounting kit
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet port
- 650 MHz CPU, 64 MB RAM
### LtAP mini LTE Kit
A small weatherproof 2.4 GHz wireless access point with integrated GPS and international LTE modem.
- Modern with 2G, 3G and 4G (LTE) connectivity support installed
- Supports international LTE bands 1, 2, 3, 7, 8, 20, 38 and 40
- 2 SIM slots
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet port
- 650 MHz CPU, 64 MB RAM

### LtAP mini LTE Kit-US
A small weatherproof 2.4 GHz wireless access point with integrated GPS and US LTE modem.
- Modern with 3G and 4G (LTE) connectivity support installed
- Supports US LTE bands 2, 4, 5 and 12
- 2 SIM slots
- 802.11b/g/n dual chain wireless
- 10/100 Mbps Ethernet port
- 650 MHz CPU, 64 MB RAM

### SXT LTE Kit
A weatherproof LTE (international bands) CPE for remote locations that are within cellular network coverage.
- Modern with 2G, 3G and 4G (LTE) connectivity support installed
- Supports international LTE bands 1, 2, 3, 7, 8, 20, 38 and 40
- 2 SIM slots
- Two 10/100 Mbps Ethernet ports
- PoE output on second Ethernet port
- 650 MHz CPU, 64 MB RAM

### Devices with one Ethernet port
The RouterBOARD PCB series of devices come without enclosures, allowing you to build custom solutions or use existing telecommunication boxes for installations. These devices are versatile and customizable for any situation.

#### RB411U
A small size OEM board with a miniPCI slot for a wireless card and a miniPCIe slot for 3G/4G cards.
- 300 MHz CPU, 32 MB RAM
- 10/100 Mbps Ethernet port
- miniPCIe slot for 3G/4G cards, SIM slot, miniPCI slot, USB
- Power jack, RS232 serial port
- RouterOS level 4 license (AP, CPE or Point-to-Point)

#### RB411AH
A small size OEM board with a faster CPU and a miniPCI slot.
- 680 MHz CPU, 64 MB RAM
- 10/100 Mbps Ethernet port
- Power jack, RS232 serial port
- RouterOS level 4 license (AP, CPE or Point-to-Point)

#### RBM11G
The RBM11G is a fully featured RouterBOARD device perfect for using with your own enclosure or building a custom solution. It uses the same square PCB and mounting holes as its predecessors, you can simply swap out the older models with the brand new RBM11G.

- Modern with 2G, 3G and 4G (LTE) connectivity support installed
- Supports international LTE bands 1, 2, 3, 7, 8, 20, 38 and 40
- 2 SIM slots
- Two 10/100 Mbps Ethernet ports
- PoE output on second Ethernet port
- 650 MHz CPU, 64 MB RAM

#### SXT LTE Kit-US
A weatherproof LTE (US bands) CPE for remote locations that are within cellular network coverage.
- Modern with 3G and 4G (LTE) connectivity support installed
- Supports US LTE bands 2, 4, 5 and 12
- 2 SIM slots
- Two 10/100 Mbps Ethernet ports
- PoE output on second Ethernet port
- 650 MHz CPU, 64 MB RAM

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50  Wireless for home and office

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RouterBOARD  51
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
</table>
| **RB911G-2HPnD** | A small CPE type OEM router with an integrated 2.4 GHz dual chain wireless and Gigabit Ethernet. | - Low cost, small size  
- 802.11b/g/n 2.4 GHz dual chain high power wireless onboard  
- 600 MHz CPU, 64 MB RAM  
- Gigabit Ethernet port  
- Power jack  
- RouterOS level 3 license (CPE or Point-to-Point) |
| **RB912UAG-2HPnD** | A small AP type OEM router with an integrated 2.4 GHz dual chain wireless, Gigabit Ethernet and expansion options. | - Small size  
- 802.11b/g/n 2.4 GHz dual chain high power wireless onboard  
- 600 MHz CPU, 64 MB RAM  
- Gigabit Ethernet port  
- miniPCI slot, SIM slots, USB  
- Power jack  
- RouterOS level 4 license (AP, CPE or Point-to-Point) |
| **RB911-5Hn** | A small CPE type OEM router with an integrated 5 GHz single chain wireless. | - Low cost, small size  
- 802.11a/n 5 GHz single chain wireless onboard  
- 600 MHz CPU, 64 MB RAM  
- 10/100 Mbps Ethernet  
- RouterOS level 3 license (CPE or Point-to-Point) |
| **RB911-5HnD** | A small CPE type OEM router with an integrated 5 GHz dual chain wireless and Gigabit Ethernet. | - Low cost, small size  
- 802.11a/n 5 GHz dual chain high power wireless onboard  
- 600 MHz CPU, 64 MB RAM  
- Gigabit Ethernet port  
- Power jack  
- RouterOS level 3 license (CPE or Point-to-Point) |
| **RB911G-5HacD** | A small CPE type OEM router with an integrated 5 GHz 802.11a/n/ac dual chain wireless. | - Low cost, small size  
- 802.11a/n/ac 5 GHz dual chain wireless onboard  
- 650 MHz CPU, 64 MB RAM  
- 10/100 Mbps Ethernet  
- RouterOS level 3 license (CPE or Point-to-Point) |
| **RB911G-5HpD** | A small CPE type OEM router with an integrated 5 GHz dual chain wireless and Gigabit Ethernet. | - Low cost, small size  
- 802.11a/n/ac 5 GHz dual chain wireless onboard  
- 600 MHz CPU, 32 MB RAM  
- Gigabit Ethernet port  
- Power jack  
- RouterOS level 3 license (CPE or Point-to-Point) |
| **RB912UAG-5HpD** | A small AP type OEM router with an integrated 5 GHz dual chain wireless, Gigabit Ethernet and expansion options. | - 802.11a/n 5 GHz dual chain high power wireless onboard  
- 600 MHz CPU, 64 MB RAM  
- Gigabit Ethernet port  
- miniPCI slot, SIM slots, USB  
- RouterOS Level 4 (AP, CPE or Point-to-Point) |
| **RB911G-5HpacD** | A small CPE type OEM router with an integrated 5 GHz 802.11a/n/ac dual chain wireless. | - Low cost, small size  
- 802.11a/n/ac 5 GHz dual chain high power wireless onboard  
- 720 MHz CPU, 128 MB RAM  
- Gigabit Ethernet port  
- Power jack  
- RouterOS level 3 license (CPE or Point-to-Point) |
RB922UAGS-5HPacD
A small, powerful AP type OEM router with an integrated 5 GHz 802.11a/n/ac dual chain wireless, Gigabit Ethernet, SFP and expansion options.
• 802.11a/n/ac 5 GHz dual chain high power wireless onboard
• 720 MHz CPU, 128 MB RAM
• One Gigabit Ethernet port
• SFP port for 1.25 Gigabit connectivity
• miniPCIe, SIM slots, USB
• RouterOS level 4 license (AP, CPE or Point-to-Point)

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3 miniPCI slots
• 3x 10/100 Ethernet ports
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB435G
An OEM board with a faster CPU, five miniPCI slots and three Gigabit Ethernet ports.
• 680 MHz CPU, 256 MB RAM
• 5x miniPCI slots
• 2 USB ports, microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450G
OEM board with five Gigabit Ethernet ports
• 680 MHz CPU, 256 MB RAM
• 5 Gigabit Ethernet ports
• microSD slot
• Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license

RB493G
An OEM board with faster CPU, three miniPCI slots and nine Gigabit Ethernet ports.
• 680 MHz CPU, 256 MB RAM
• 9 Gigabit Ethernet ports
• 3 miniPCI slots
• USB port, microSD slot
• Power jack, RS232 serial port
• RouterOS level 5 license

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3x 10/100 Ethernet ports
• 3 miniPCI slots
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3x 10/100 Ethernet ports
• 3 miniPCI slots
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license

RB493G
An OEM board with faster CPU, three miniPCI slots and nine Gigabit Ethernet ports.
• 680 MHz CPU, 256 MB RAM
• 9 Gigabit Ethernet ports
• 3 miniPCI slots
• USB port, microSD slot
• Power jack, RS232 serial port
• RouterOS level 5 license

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3x 10/100 Ethernet ports
• 3 miniPCI slots
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3x 10/100 Ethernet ports
• 3 miniPCI slots
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license

RB493G
An OEM board with faster CPU, three miniPCI slots and nine Gigabit Ethernet ports.
• 680 MHz CPU, 256 MB RAM
• 9 Gigabit Ethernet ports
• 3 miniPCI slots
• USB port, microSD slot
• Power jack, RS232 serial port
• RouterOS level 5 license

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3x 10/100 Ethernet ports
• 3 miniPCI slots
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license

RB493G
An OEM board with faster CPU, three miniPCI slots and nine Gigabit Ethernet ports.
• 680 MHz CPU, 256 MB RAM
• 9 Gigabit Ethernet ports
• 3 miniPCI slots
• USB port, microSD slot
• Power jack, RS232 serial port
• RouterOS level 5 license

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3x 10/100 Ethernet ports
• 3 miniPCI slots
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license

RB493G
An OEM board with faster CPU, three miniPCI slots and nine Gigabit Ethernet ports.
• 680 MHz CPU, 256 MB RAM
• 9 Gigabit Ethernet ports
• 3 miniPCI slots
• USB port, microSD slot
• Power jack, RS232 serial port
• RouterOS level 5 license

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3x 10/100 Ethernet ports
• 3 miniPCI slots
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license

RB493G
An OEM board with faster CPU, three miniPCI slots and nine Gigabit Ethernet ports.
• 680 MHz CPU, 256 MB RAM
• 9 Gigabit Ethernet ports
• 3 miniPCI slots
• USB port, microSD slot
• Power jack, RS232 serial port
• RouterOS level 5 license

RB433AH
An OEM board with a faster CPU, three miniPCI slots and three Ethernet ports.
• 680 MHz CPU, 128 MB RAM
• 3x 10/100 Ethernet ports
• 3 miniPCI slots
• microSD slot, Power jack, RS232 serial port
• RouterOS level 5 license

RB450
An OEM board with five Ethernet ports
• 300 MHz CPU, 64 MB RAM
• 5x 10/100 Mbps Ethernet ports
• Power jack, RS232 serial port
• RouterOS level 5 license
RB450Gx4

The RB450Gx4 is an Ethernet router with five Gigabit Ethernet ports, a serial port, 512 MB NAND memory and a microSD card slot. In addition, it supports full 10 V-57 V input by two power jacks or PoE (802.3af/at or passive PoE) and can provide PoE output for Ethernet port #5.

It is powered by MikroTik RouterOS. It comes without an enclosure, you are free to use it in your own. The device form factor is identical to our previous RB850 and RB450 series, so you can even use the same enclosures.

- 4 core 716 MHz CPU, 1 GB RAM
- microSD slot, two Power jacks, RS232 serial port
- Supports 10 V-57 V input, 802.3af/at compliant
- Hardware IPsec encryption supported
- RouterOS level 5 license

RB800

An OEM board with four miniPCI slots, three Gigabit Ethernet ports and a compact flash slot.

- 800 MHz CPU, 256 MB RAM
- 3 Gigabit Ethernet ports
- 4 miniPCI slots
- microSD slot, miniPCIe slot, compact flash slot
- Power jack, RS232 serial port
- 38-57 V power input
- RouterOS level 6 license

CAOTU

A large outdoor case.
- White plastic outdoor enclosure
- Fits all RouterBOARD models
- Ethernet insulator and mounting set included

CA800

An indoor case for RB800.
- Indoor black aluminium case
- 4 holes for N-female bulkhead connectors or swivel antennas
- Wall mounting holes on the back

CA493

A large indoor case.
- An indoor black aluminium case
- Fits RB493 series
- 3 holes for N-female bulkhead connectors or swivel antennas on the back
- High profile to accommodate high power wireless cards
- Wall mounting holes on the back

CA150

An indoor case for Ethernet RouterBOARDs.
- An indoor black aluminium case
- Fits RB450 and RB850 series
- Wall mounting holes on the back

CA411-711

A small indoor case.
- An indoor black aluminium case
- Fits RBM11G, RB411, RB911, RB912 and RB922 series
- Comes with changeable front panels
- High profile to accommodate high power wireless cards
- Wall mounting holes on the back

RB953GS-5HnT-RP

An OEM board with faster CPU, onboard triple chain 5 GHz wireless, two miniPCI slots, three Gigabit Ethernet and two SFP ports.

- 720 MHz CPU, 128 MB RAM
- Onboard 802.11a/n 5 GHz high power triple chain wireless
- 3 RP-SMA connectors for external antennas
- 3 Gigabit Ethernet ports
- 2 SFP port for 1.25 Gigabit connectivity
- 2 miniPCI slots and two SIM slots
CA433U
A medium size indoor case.
• An indoor black aluminium case
• Fits RBM33G, RB433, RB435, RB953 series
• Comes with changeable front panels
• 3 holes for N-female bulkhead connectors or swivel antennas and a hole for USB on the back
• High profile to accommodate high power wireless cards
• Wall mounting holes on the back

RB2011 mount
The RB2011 wall mount kit for protecting the cables from unplugging.
• Ideal for public installations such as shared server rooms, attics, accessible closets and cabinets
• Fits all standard RB2011 desktop cases
• Protects all ten Ethernet ports, SFP port for 1.25 Gigabit connectivity and serial port
• Powder coated steel

Accessories for LTE

R11e-LTE
LTE miniPCle card for international bands.
• 2G/3G/4G/LTE miniPCle card
• Support for international LTE bands 1/2/3/5/7/8/20/38/40
• Two U.FL connectors
• Can be used with any of MikroTik products with RouterOS and miniPCle slot (except RB800)

R11e-LTE-US
LTE miniPCle card for United States bands.
• 3G/4G/LTE miniPCle card
• Support for US LTE bands 2/4/5/12
• Two U.FL connectors
• Can be used with any of MikroTik products with RouterOS and miniPCle slot (except RB800)

ACSMAUFL
U.FL-SMA female pigtail.
• To be used to connect an LTE card to an external antenna
• U.FL connector on one side, SMA female on other
• Designed for use with the wAP R

SMASMA
SMA-Male to SMA Male cable.
• To be used to connect LTE card to an external antenna (via ACSMAUFL)
• 100 cm long, SMA-Male connectors on both sides
• Designed for use with the wAP R
mANT LTE 5o

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.

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.

- Omnidirectional 360 degrees LTE antenna
- Designed for MikroTik LTE products
- Improve the connection in the areas with inadequate LTE service coverage
- 2 SMA female connectors
- 699 MHz - 2.7 GHz range

ACGPSA

The active GPS antenna is the perfect companion for the LtAP mini, giving you the possibility to get accurate geographical coordinates of your router, even when it is mounted indoors. The long cable allows to bring the antenna outside and mount it with the included magnet, or double sided tape.

The ACGPSA is a standalone active GPS antenna, specifically made for the 1575.4 MHz frequency used by GPS. The size of the antenna is 46.5 mm x 26.5 mm x 12.5 mm and is waterproof with IP67 rating. It has a long 5 m cable with an SMA connector, to be connected to LtAP mini via the ACSMAUFL pigtail (available for ordering separately).

Accessories for fiber

S-85DLC05D

1.25G SFP transceiver for up to 550 meter fiber connection.
- 850 nm Dual LC connector
- Multi mode
- Up to 550 meter fiber connection
- For use in MikroTik products with SFP ports for 1.25 Gigabit connectivity
- Compatible with non-MikroTik SFP devices as well

S-31DLC20D

1.25G SFP transceiver for up to 20 km fiber connection.
- 1310 nm Dual LC connector
- Single Mode
- Up to 20 km fiber connection
- For use in MikroTik products with SFP ports for 1.25 Gigabit connectivity
- Compatible with non-MikroTik SFP devices as well

S-3553LC20D

A pair of 1.25G SFP transceivers for up to 20 km fiber connection on a single optical cable.
- 1.25G single mode optical SFP module with a LC connector, T1310 nm/R1550 nm
- 1.25G single mode optical SFP transceiver with an LC connector, T1550 nm/R1310 nm
- Up to 20 km fiber connection
- For use in MikroTik products with SFP ports for 1.25 Gigabit connectivity
- Compatible with non-MikroTik SFP devices as well

S+85DLC03D

10G SFP+ transceiver for up to 300 meter 10 Gbps fiber connection.
- 850 nm Dual LC connector
- Multi mode
- Up to 300 meter 10 Gbps fiber connection
- For use in MikroTik products with SFP+ ports
- Compatible with non-MikroTik SFP+ devices as well
**S+31DLC10D**
10G SFP+ transceiver for up to 10 km fiber connection.
- 1310 nm Dual LC connector
- Single Mode
- Up to 10 km 10 Gbps fiber connection
- For use in MikroTik products with SFP+ ports
- Compatible with non-MikroTik SFP+ devices as well

**S+2332LC10D**
A pair of SFP+ transceivers for up to 10 km 10 Gbps fiber connection on a single optical cable.
- 10G single mode optical SFP+ module with a LC connector, T1270 nm/R1330 nm
- 10G single mode optical SFP+ transceiver with an LC connector, T1330 nm/R1270 nm
- Up to 10 km 10 Gbps fiber connection on single optical cable
- For use in MikroTik products with SFP+ ports
- Compatible with non-MikroTik SFP+ devices as well

**SFPONU**
Pluggable GPON ONU interface for fiber to Home
- Allows any RouterBOARD device to be used for fiber to home installations without any special modems or software
- Plug and play solution
- Supports all MikroTik products with SFP ports

**S+DA0001**
Highly cost-effective way to connect two SFP/SFP+ devices within racks and across adjacent racks.
- 1 m SFP+ direct attach cable
- Low cost, low power and low latency interconnect solution for 10-Gigabit Ethernet, Fiber Channel and other industry standards
- Direct attached compliant
- Fully conform to the SFP+ MSA specifications

**S+DA0003**
Highly cost-effective way to connect two SFP/SFP+ devices within racks and across adjacent racks.
- 3 m SFP+ direct attach cable
- Low cost, low power and low latency interconnect solution for 10-Gigabit Ethernet, Fiber Channel and other industry standards
- Direct attached compliant
- Fully conform to the SFP+ MSA specifications

**S-RJ01**
Converts SFP port for 1.25 Gbps connectivity in fully functional Gigabit Ethernet port.
- RJ45 SFP 10/100/1000 Mbps copper module
- Compatible with most Gigabit SFP ports available on various networking devices
- Up to 1.25 Gbps bi-directional data links
- 100 m transmission over unshielded

**S+RJ10**
Converts SFP+ port in fully functional 10 Gigabit Ethernet port.
- Up to 10 Gbps speeds over regular familiar twisted-pair cables
- Supports any MikroTik device that has SFP+ ports
- Supports 10 Mbps, 100 Mbps, 1 Gbps, 2.5 Gbps, 5 Gbps, 10 Gbps data rates
- For distances up to 200 m

**FTC**
Fiber to copper converter in weatherproof outdoor case.
- Simple fiber to copper converter
- Outdoor weatherproof case
- 12-57 V PoE input
- Supports 1.25G 1000Base-X fiber to 10/100/1000 Mbps copper
Power supplies

12POW150
Hot swap 12 V 150 W AC/DC power supply for CCR1072-1G-8S+.
- 12 V 150 W AC/DC
- Hot swappable, zero downtime

PW48V-12V150W
Hot swap 48 V DC telecom power supply for CCR1072-1G-8S+.
- 48 V DC
- Hot swappable, zero downtime

18POW
A spare power supply for most RouterBOARD models.
- 24 V 0.8 A DC jack power supply
- Fits hAP mini, hAP lite and mAP lite
- Available with EU, UK, AR, AU or US plug

24HPOW
A spare high power supply with plug.
- 24 V 2.5 A stand alone power supply
- Recommended for RouterBOARD models with high power consumption (e.g. models with PoE output or for long cable runs with several high power wireless cards)
- Available with EU, UK or US plug

48POW
A spare high power supply with plug.
- 48 V 1.46 A 70 W stand alone power supply
- Recommended for RouterBOARD models with 48 V support (like RB800)
- Recommended for powering 48 V devices (IP cameras etc.) through PoE output of supported devices like CRS112-8P-4S-IN
- Available with EU, UK or US plug

48V2A96W
Spare 48 V power supply with plug for resource-hungry PoE-out devices.
- 48 V 2 A 96 W power supply
- Recommended for powering 48 V devices (IP cameras etc.) through PoE output of supported devices like CRS112-8P-4S-IN
- Providing 30% more current than the old model 48POW, more power per port
- Available with EU, UK or US plug

RBPOE
Low-cost passive PoE base unit for powering passive PoE devices over Ethernet.
- Helps reducing number of wires that lead up the tower
- Support 10-28 V PoE powering
- Input needs to be at least 18 V to accommodate any losses in cables

RBGPOE
Passive Gigabit PoE base unit for powering passive PoE devices over Ethernet.
- Helps reducing number of wires that lead up the tower
- For using with any RouterBOARD that supports 9-48 V PoE
- Shielded connectors

RBGPOE-CON-HP
48 to 24 V Gigabit PoE Converter.
- Allows to use any 48 V PoE source (including Passive PoE, telecom PoE, 802.3af and 802.3at) to power RouterBOARD devices
- Supports any 8-30 V capable RouterBOARD devices and 10/100/1000 Mbps Ethernet
- Capable to provide high power output - up to 24 W (up to 1 A at 24 V)
- Integrated heatsink; has mounting holes for attaching to a wall

mUPS
Gigabit PoE injector with battery backup capability with 12 V battery connector.
- LEDs indicate DC line or battery usage, the charging of battery and low battery level (~50 %)
- Works with any single 12 V battery (AGM, Gel, Lead Acid, regular car batteries, deep cycle marine batteries, etc.)
- 12-28 V input and output
- Powering by DC jack or PoE-in
Antennas and antenna accessories

mANT 15s
5 GHz 15 dBi 120° sector antenna with two RP-SMA connectors.
- Perfect companion for the BaseBox, NetBox, NetMetal or any other outdoor wireless device with RPSMA connectors
- 5.17 - 5.825 GHz 15 dBi 120° sector
- 2 RP-SMA connectors
- quickMOUNT pro included

mANT 19s
5 GHz 19 dBi 120° sector antenna with two RP-SMA connectors for larger coverage.
- Perfect companion for the BaseBox, NetBox, NetMetal or any other outdoor wireless device with RPSMA connectors
- 5.17 - 5.825 GHz 19 dBi 120° sector
- 2 RP-SMA connectors
- Metallic U bolt type mount included

mANT30
30 dBi parabolic dish antenna for 5 GHz.
- Professional class 4.7-5.875 GHz 30 dBi dish antenna
- Designed for BaseBox, NetBox and NetMetal
- Can be used for any pole mounted wireless device
- 2 RP-SMA Female connectors
- 2 FlexGuide cables included
- Recommended to use with quickMOUNT extra

mANT30 PA
30 dBi parabolic dish antenna with precision alignment mount for 5 GHz.
- Professional class 4.7-5.875 GHz 30 dBi dish antenna
- Designed for BaseBox, NetBox and NetMetal
- Can be used for any pole mounted wireless device
- 2 RP-SMA Female connectors
- 2 FlexGuide cables included
- Comes with a precision alignment mount

Radome Cover Kit for mANT30
Cover kit for mANT reduces wind load, increases antenna operational life.
- Protects reflector surfaces from harsh environment
- Protects the antenna feed from falling objects
- Sustains wide range of temperature and direct sunlight
- Compatible with mANT30 and mANT30 PA

Sleeve30
Sleeve30 kit for mANT30
- Enhance point-to-point link performance by reducing noise
- Reduce impact on adjacent RF devices by removing the side radiation
- Reduces wind load
- Protects antenna reflector and feed from harsh environment
- Excellent RF signal transparency
- Compatible with mANT30 and mANT30 PA

Flex-guide
Ideally suited for our BaseBox, NetMetal and other products with RPSMA connectors.
- Low loss 50 cm RPSMA cable
- 50 cm long, RPSMA connectors on both sides
- For use with up to 6 GHz frequency
- Works with most antennas
- Suited for indoor and outdoor use
- Soldered, not crimped, for the best possible signal quality

quickMOUNT
Basic wall mount adapter for small Point-to-Point and sector antennas (SXT, OmniTIK etc.)
- Simple and low cost
- To be mounted on the wall or use as an adapter from large diameter pole to small size antenna
- Gives possibility to turn antenna within 190°
- Possible to simultaneously mount two SXTs
- Supports any pole mountable device with weight less than 1.5 kg
- Very durable due to it's special composite material - anvilNITE (TM)
Accessories

R11e-5HacD
5 GHz 802.11a/n/ac dual chain miniPCIe card with 2 MMCX connectors.
- 4920-6100 MHz 802.11a/n/ac dual chain wireless
- Perfect for any RouterBOARD with miniPCIe slot
- Output power up to 27 dBm

R11e-5HacT
5 GHz 802.11a/n/ac triple chain miniPCIe card with 3 MMCX connectors for maximum bandwidth.
- 4920-6100 MHz 802.11a/n/ac triple chain wireless
- Perfect for any RouterBOARD with miniPCIe slot
- Up to 1.3 Gbps data rate and 80 MHz channels
- Output power up to 28 dBm

R11e-2HnD
2.4 GHz 802.11b/g/n dual chain low profile miniPCIe card with 2 U.FL connectors.
- 2192-2732 MHz 802.11b/g/n dual chain wireless
- Perfect for any RouterBOARD with a miniPCIe slot
- Low profile, small heat-sink, designed for laptops
- Output power up to 29 dBm

R11e-2HPnD
2.4 GHz 802.11b/g/n high power miniPCIe card with 2 MMCX connectors.
- 2192-2732 MHz 802.11b/g/n high power dual chain wireless
- Perfect for any RouterBOARD with a miniPCIe slot
- Output power up to 30 dBm

R2SHPn
2.4 GHz 802.11b/g/n Single chain super high power miniPCI card with MMCX connector.
- 2192-2732 MHz 802.11b/g/n super high power single chain wireless
- Industrial grade heatsink pre-installed
- Output power up to 32 dBm (1.6 W)

Other accessories

R11e-5HnD
5 GHz 802.11a/n dual chain miniPCIe card with 2 MMCX connectors.
- 4920-5920 MHz 802.11a/n dual chain wireless
- 2 MMCX connectors
- Perfect for any RouterBOARD with a miniPCIe slot
- Output power up to 27 dBm

quickMOUNT extra
Basic wall mount adapter for large Point-to-Point and sector antenna.
- To be mounted on the wall or use as an adapter from large diameter pole to small size antenna
- Gives possibility to turn antenna within 190°
- Supports mANT, SXT, OmniTIK, BaseBox, DynaDish, mANT 30 etc.
- Recommended for long range heavy antennas with weight less than 8 kg
- Very durable due to it’s special composite material - anvilNITE (TM)

quickMOUNT pro
Advanced wall mount adapter for small Point-to-Point and sector antennas (SXT, OmniTIK, BaseBox etc.).
- To be mounted on the wall or use as an adapter from large diameter pole to small size antenna
- Gives possibility to turn antenna within 140° both in horizontal and vertical plane
- Possible to perfectly set antenna alignment using integrated graduated scale
- Supports any pole mountable device with weight less than 1.5 kg
- Very durable due to it’s special composite material - anvilNITE (TM)

quickMOUNT pro LHG
Advanced wall mount adapter for LHG.
- Advanced wall or pole mount adapter for our LHG antennas
- Gives possibility to turn antenna within 140° both in horizontal and vertical plane
- Possible to perfectly set antenna alignment using integrated graduated scale
- Very durable due to it’s special composite material - anvilNITE (TM)
The Wireless out of band management USB stick (Woobm-USB) is a useful assistant for any network administrator. Simply plug it into any RouterBOARD USB port and it will allow you to access the console of that device over wireless. It sets up as a wireless access point and has a simple web interface where you can access a fully featured terminal interface to configure your router, and where you can configure the Woobm itself.

It can even work as a wireless client: if you wish to manage many devices, just connect all the Woobms to one AP inside your server room and manage the routers through there.

- Supports 2.4 GHz 802.11b/g/n
- Antenna gain 1.5 dB
- Can work as a wireless client and AP at the same time
- Discovers neighbour RouterOS devices

**Woobm**

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**R52nM**

2.4 GHz/5 GHz 802.11a/b/g/n dual chain miniPCI card with 2 MMCX connectors.

- 2192-2732 MHz 802.11b/g/n dual chain wireless
- 4.920-6.100 GHz 802.11a/n dual chain wireless
- Output power up to 23 dBm

**R52HnD**

2.4 GHz/5 GHz 802.11a/b/g/n high power miniPCI card with 2 MMCX connectors.

- 2192-2732 MHz 802.11b/g/n high power dual chain wireless
- 4.920-6.100 GHz 802.11a/n high power dual chain wireless
- Output power up to 26 dBm

**2.4GHz Dipole**

2.4 GHz dipole antenna with RPSMA connector. Attach two of those to the BaseBox 2 to have 2x2 MIMO 2.4 GHz access point.

- 2.4 GHz 5 dBi dipole antenna
- RPSMA connector
- Waterproof for outdoor use

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**RB14eU**

Adapter card for using four miniPCIe cards in a PC with a PCIe slot.

- 4 miniPCIe slots and four SIM slots
- 4 USB ports
- Comes with both low and regular profile brackets
- Brackets include holes for mounting SMA connectors, or for using as cable exit holes

**ACMMCCX**

2.4 GHz 802.11b/g/n dual chain low profile miniPCIe card with 2 U.FL connectors.

- 2192-2732 MHz 802.11b/g/n dual chain wireless
- 2 U.FL connectors
- Perfect for any RouterBOARD with miniPCIe slot
- Low profile, small heat-sink, designed for laptops
- Output power up to 29 dBm

**ACSWI**

2.4/5 GHz swivel omni antenna with U.FL connector

- Compatible with R52H and R11e-2HnD and our indoor enclosures
- Supports 2.4/5 GHz
- 2.4/5 GHz 4 dBi

**ACSWIM**

2.4/5 GHz swivel omni antenna with MMCX connector.

- Compatible with R52Hn, R52nM, R52HnD miniPCI and R11e series miniPCIe wireless cards and our indoor enclosures
- Supports 2.4/5 GHz
- 2.4/5 GHz 4 dBi

**ACMMCCXRPSMA**

4 miniPCIe slots and four SIM slots

- 4 USB ports
- Comes with both low and regular profile brackets
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**2.4/5 GHz Dipole**

2.4 GHz 5 dBi dipole antenna with RPSMA connector. Attach two of those to the BaseBox 2 to have 2x2 MIMO 2.4 GHz access point.

- 2.4 GHz 5 dBi dipole antenna
- RPSMA connector
- Waterproof for outdoor use

**ACMMCCXRPSMA**

2.4 GHz/5 GHz 802.11a/b/g/n dual chain miniPCI card with 2 MMCX connectors.

- 2192-2732 MHz 802.11b/g/n dual chain wireless
- 4.920-6.100 GHz 802.11a/n dual chain wireless
- Output power up to 23 dBm

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**RB14eU**

Adapter card for using four miniPCIe cards in a PC with a PCIe slot.

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