



User Meeting

Copenhagen, Denmark

May 2016



- Established 1996
- RouterOS created in 1997
- RouterBOARD created in 2002
- First MUM event in Prague 2006
- Biggest MUM in 2015, Indonesia - 2600+ people
- More than 160 employees



A map of Europe with the Mikrotik logo overlaid. The logo consists of the word "MikroTik" in a stylized font, with a small arc above the "i". The country of Latvia is highlighted in green. Various European countries are labeled, including Iceland, Norway, Sweden, Finland, Russia, Estonia, Lithuania, Belarus, Poland, Ukraine, Georgia, Armenia, Turkey, Syria, Greece, Macedonia, Albania, Montenegro, Serbia, Bosnia and Herzegovina, Croatia, Slovenia, Austria, Hungary, Romania, Moldova, France, Germany, Czech Republic, Slovakia, Switzerland, Liechtenstein, Netherlands, Belgium, Luxembourg, United Kingdom, Ireland, Denmark, Iceland, Spain, Portugal, Andorra, Monaco, San Marino, Italy, and Vatican City.

MikroTik

Latvia

More than 120 MUM events all Around the World



What we do

- MikroTik provides networking equipment for all possible uses - wireless, ethernet and switching
- RouterOS software supports most common and also many custom made features

MikroTik at the MUM

- Raivis Viļums (Sales)
- Jānis Bečs (Support)
- Jānis Meģis (Support and Training)



MUM Live stream

www.youtube.com/mikrotik

RouterOS

- MikroTik RouterOS is the operating system of RouterBOARD hardware
- Stand-alone operating system based on the Linux Kernel
- Routing, Firewall, QoS, Wireless, Hotspot, VPN and more...

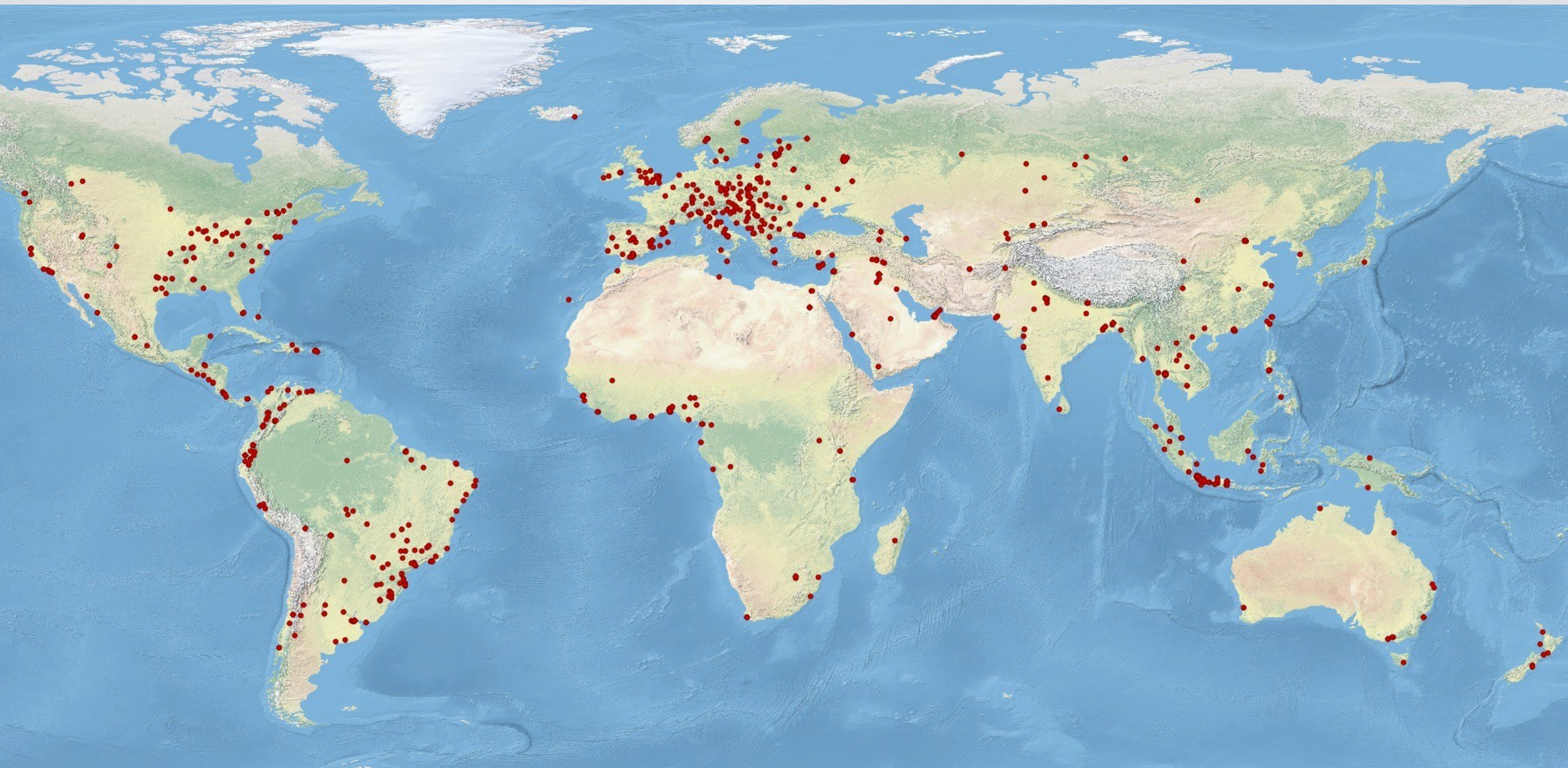
Why us

- Millions of RouterOS powered devices currently routing the world
- 20 years of experience in developing networking software and hardware
- Over 40'000 RouterOS trained and certified network engineers

Why us

- More than 3000 training classes in 2015
- World wide network of certified consultants
- Offering products for both simple home usage and complex enterprise networks
- Thousands of pages of documentation, examples, application notes and guides

MikroTik Certified Trainers

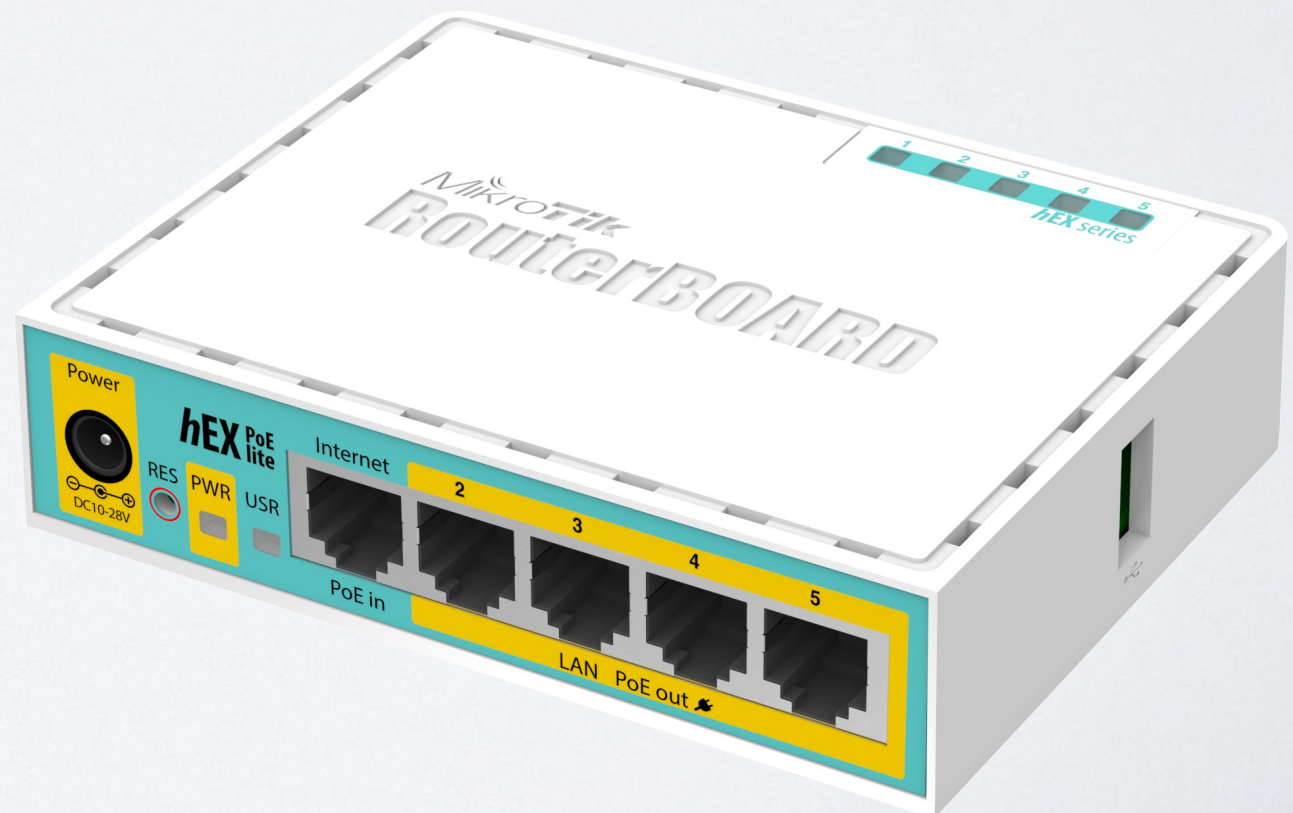


PRODUCT SERIES

ETHERNET ROUTERS

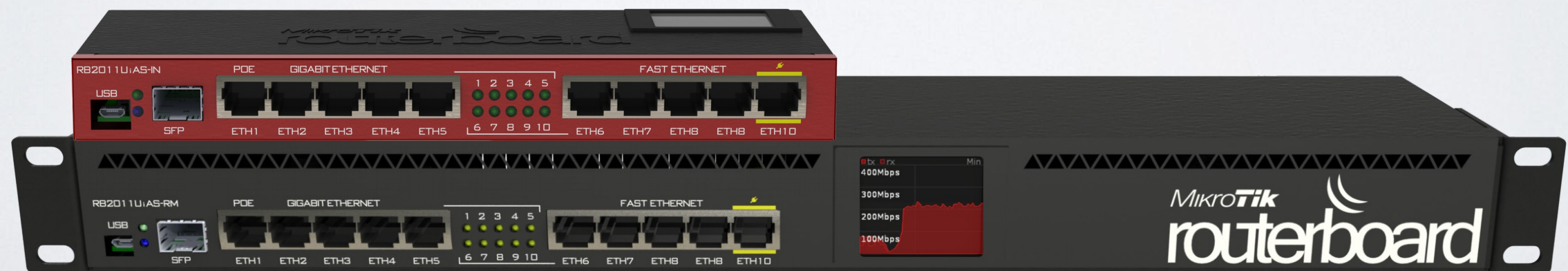
hEX lite

- Small Ethernet device
- Five Fast Ethernet ports
- Power output version (hEX PoE lite)



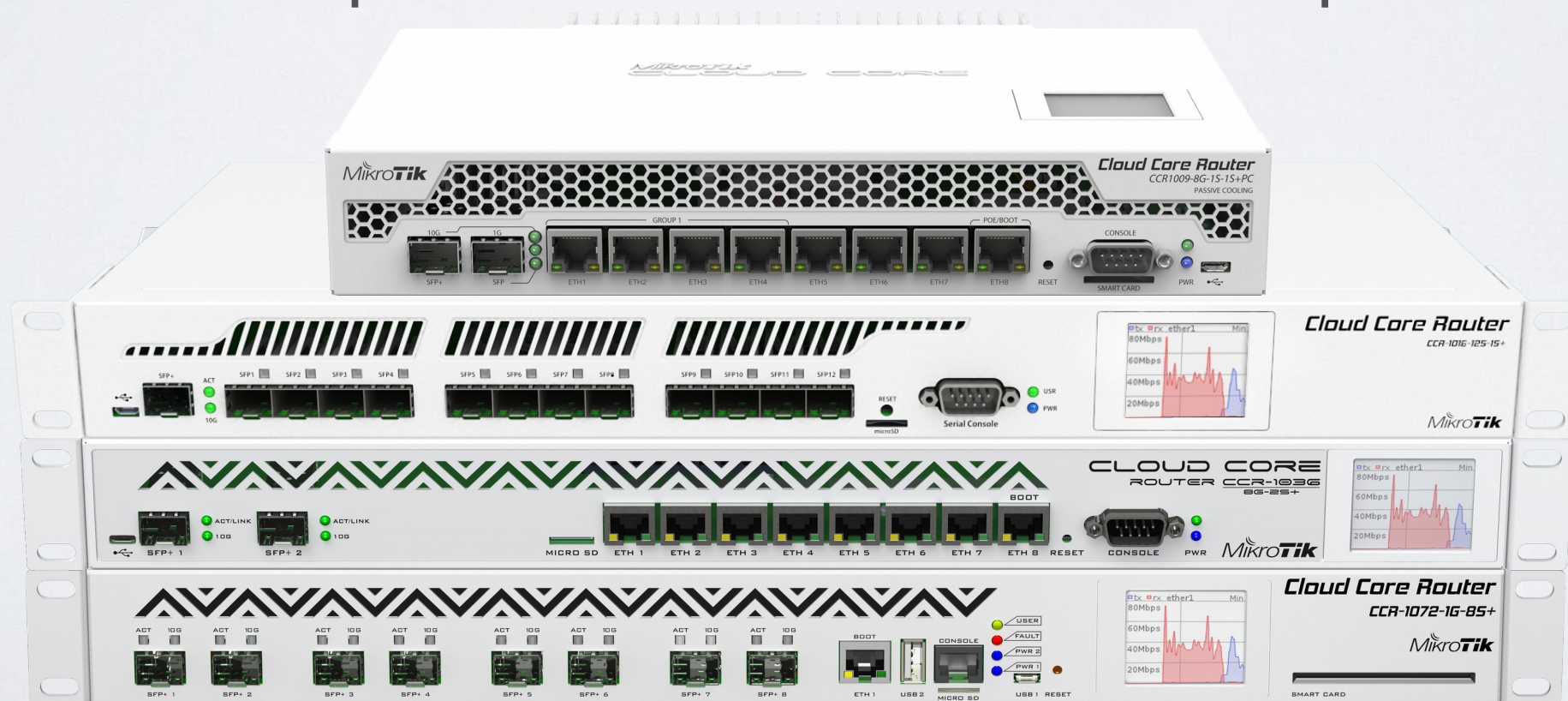
RB2011 and RB3011

- Rackmount and desktop case
- 10 Ethernet ports
- 1 SFP (fiber optic)
- RB3011 - dual core ARM CPU



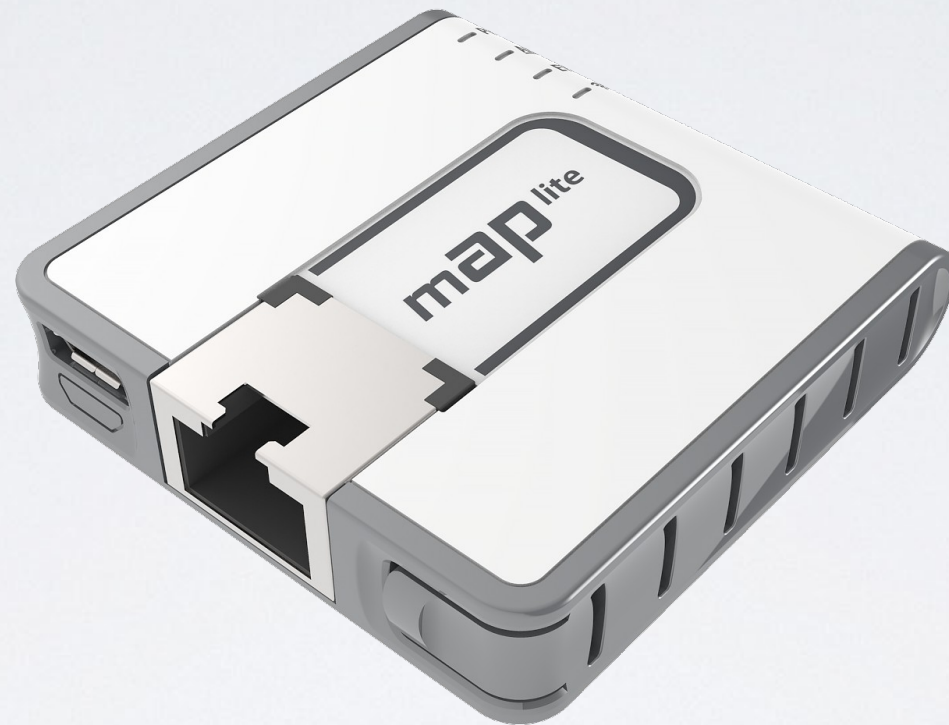
CCR series

- 9, 16, 36 and 72 cores
- Extreme performance
- Hardware accelerated encryption
- 1Gbps Ethernet, SFP and SFP+ ports



WIRELESS FOR HOME & OFFICE

mAP lite



Tiny size 2.4GHz dual chain access point
with a 650MHz CPU, 64MB RAM and one Fast Ethernet

hAP lite



Small, nice design and low cost device for
home or office usage

hAP ac

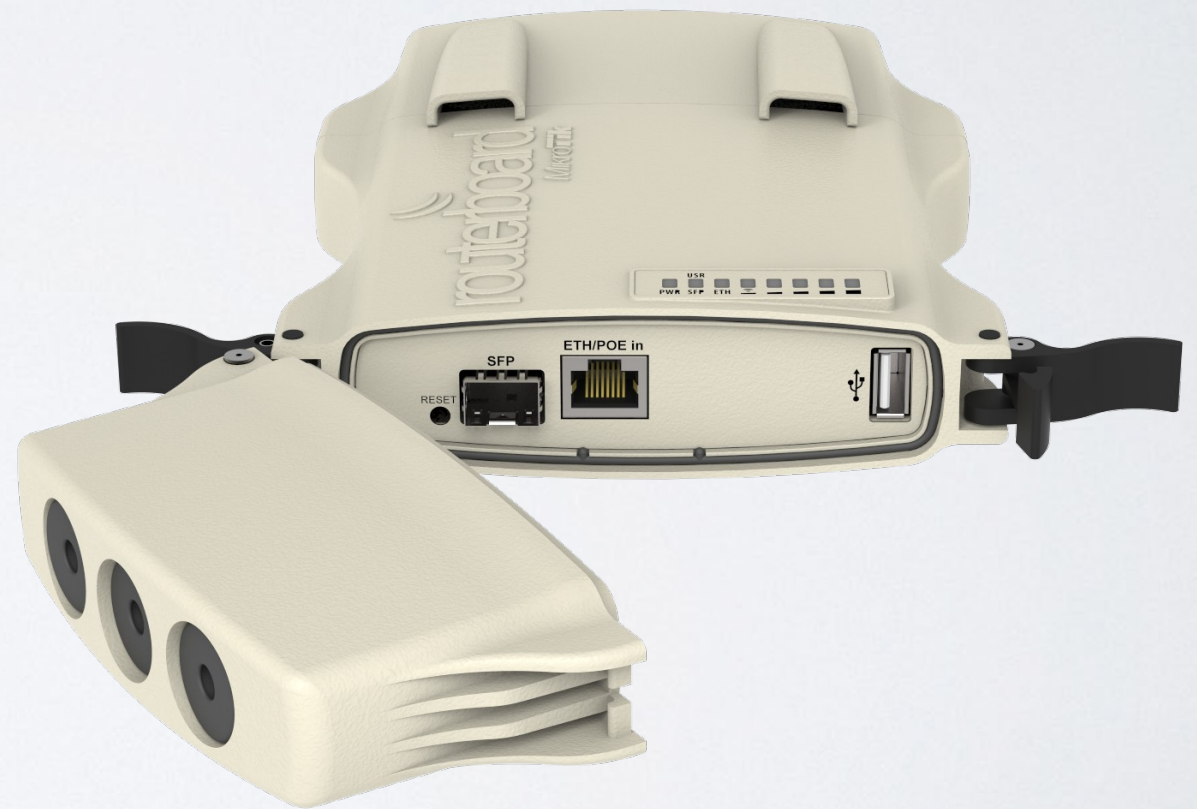


Dual band 2.4/5GHz AP, 802.11ac/a/b/g/n,
5x1Gbps Ethernet, PoE-out on port 5, SFP and USB

WIRELESS SYSTEMS

NetMetal

- Waterproof metal enclosure
- Gigabit Ethernet, SFP
- 3 chains (antennas)
- 802.11ac technology
- 4 different models



SXT

- Compact AP/CPE
- 24-90 degree antenna
- Different models available (2GHz, 5GHz, 802.11ac)
- Low cost
- Mid-range wireless links



DynaDish

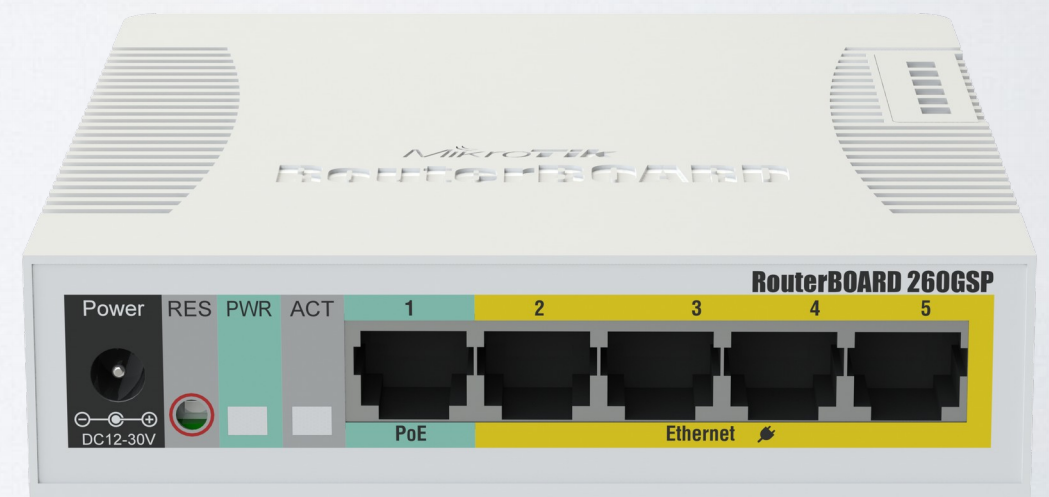
- Dual-chain 802.11ac
- 8 degree, 25dBi antenna
- Gigabit Ethernet
- Long range point-to-point links



SWITCHES

RB260GSP

- Small switch
- Runs SwOS software
- Powers other devices over PoE



CRS Series

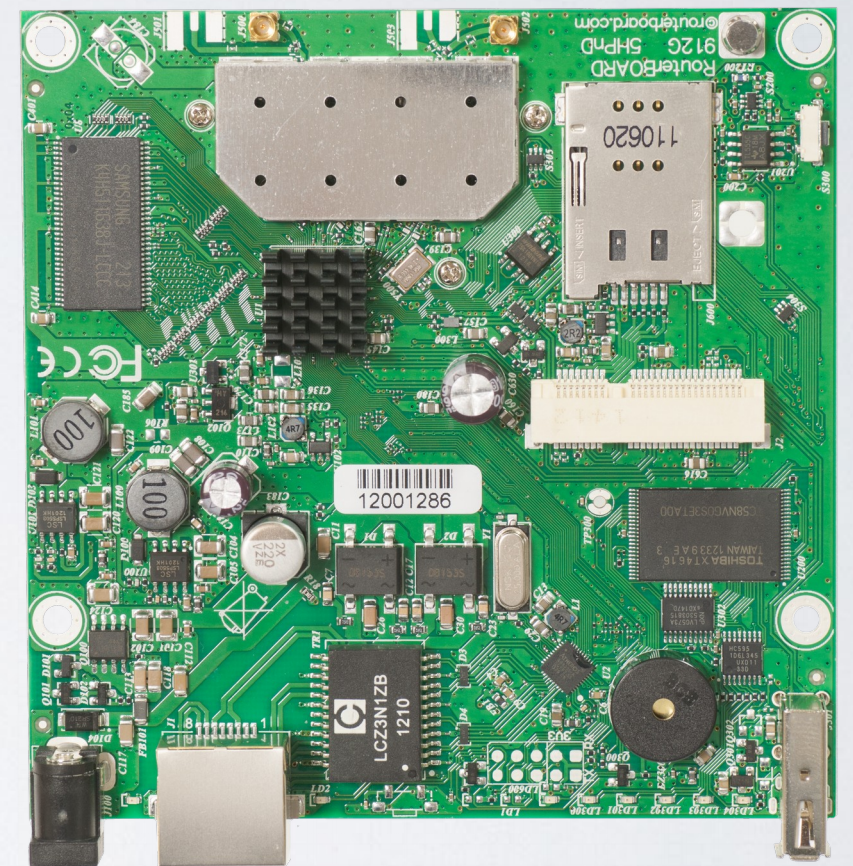
- Layer 3 switches
- Runs Mikrotik RouterOS
- From 8 to 24 ethernet ports
- Gigabit Ethernet
- SFP/SFP+
- Wireless



ROUTERBOARD

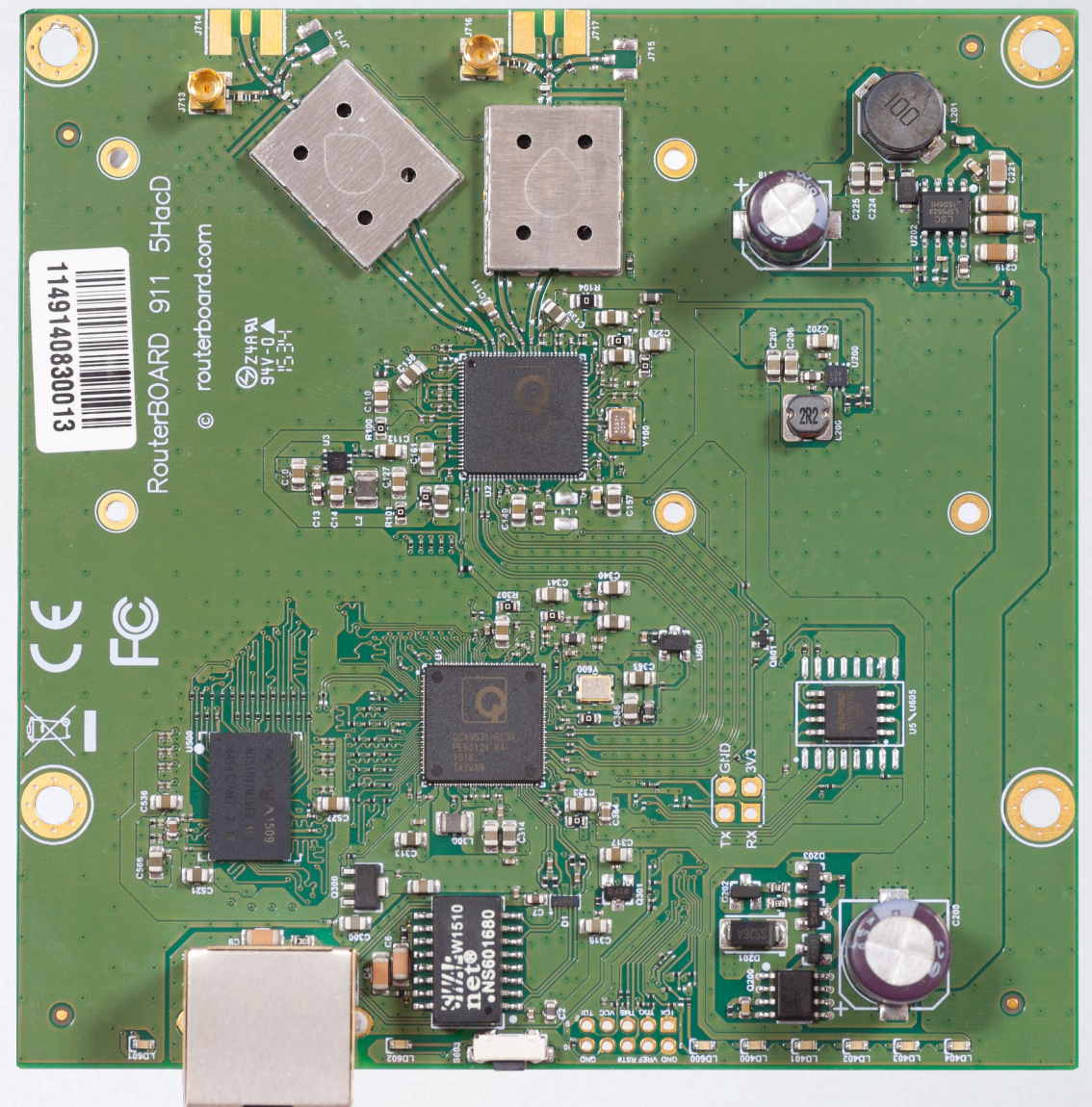
RouterBOARD

- Use custom case
- Upgrade or expand with ease
- Choose model based on ports, features and speed



RB911 ac

- 802.11ac support
- 10/100 Mbit port
- Affordable cost



INTERFACES AND MORE

SFP modules

- 1.25Gbps and 10Gbps
- Single, Multi modes
- Different distances
- GPON



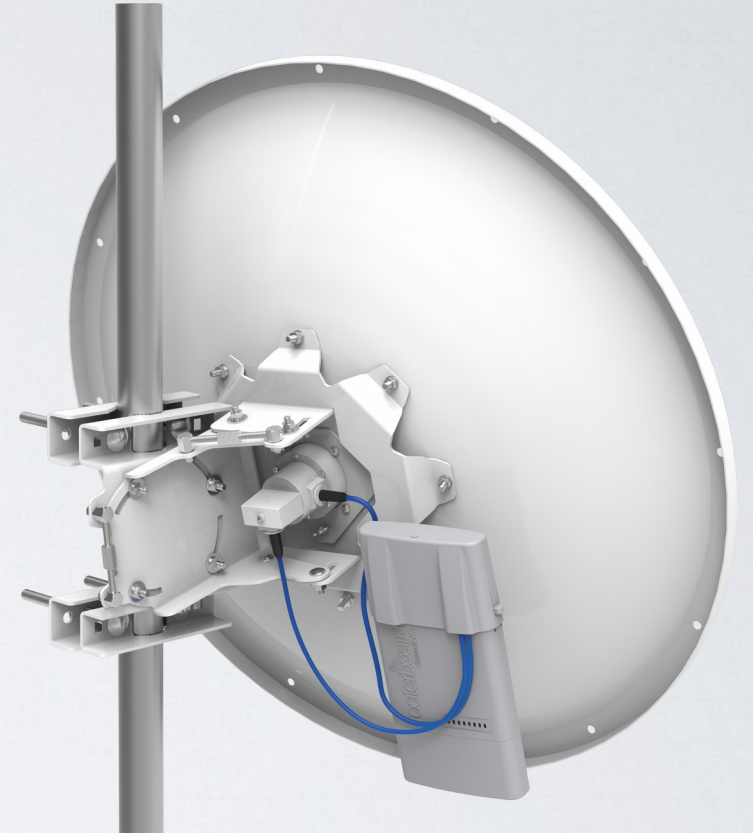
Wireless Cards

- 802.11 a/b/g/n/ac
- 2GHz, 5GHz
- miniPCI-e, miniPCI



Antennas

- mANT30
- Parabolic dish
- Regular or precise alignment



All Products

- Include free software upgrades for life
- Run the same RouterOS software
- For more info see routerboard.com

*Except RB260 series (SwOS)

NEW PRODUCTS

LHG 5

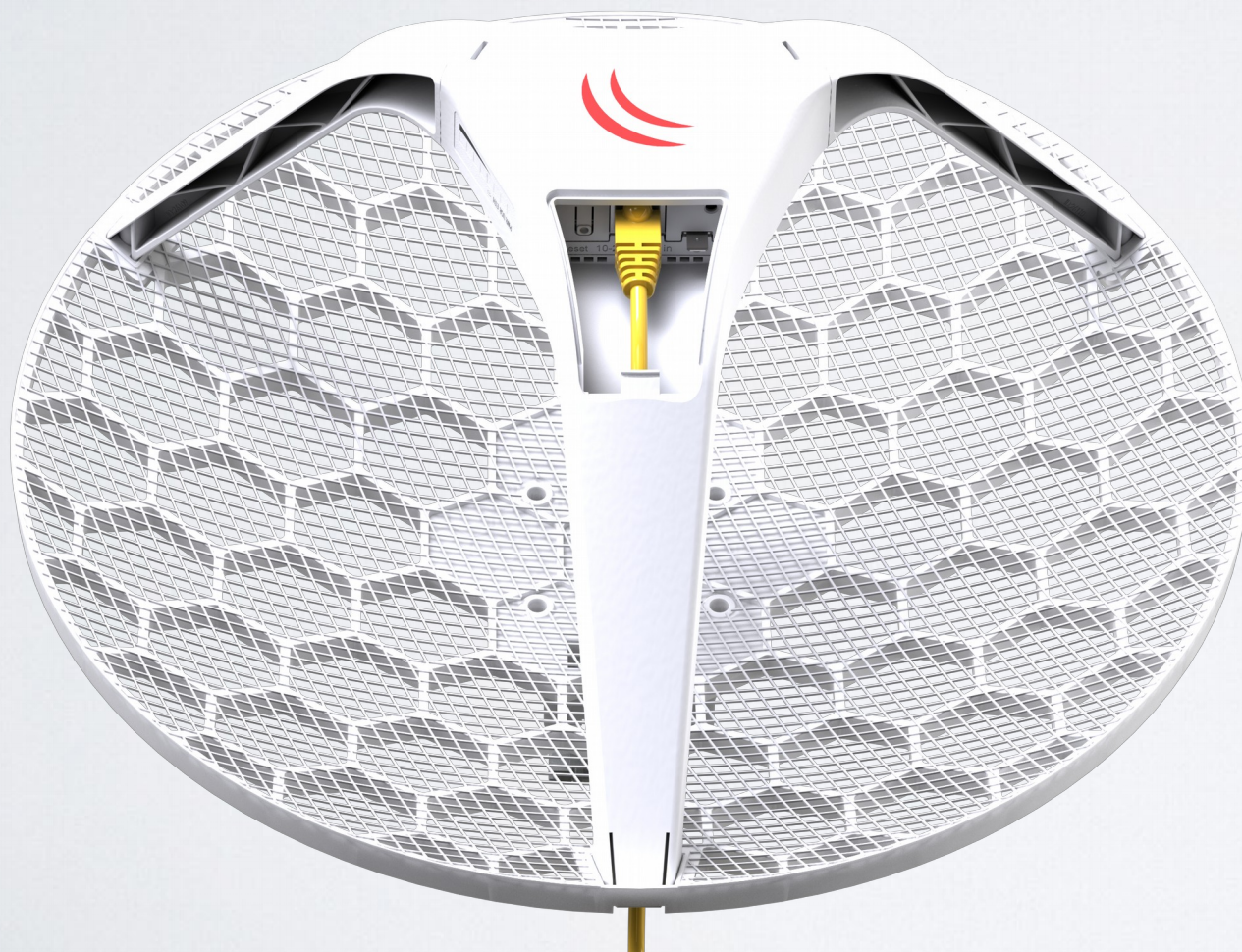
- 24.5 dBi antenna
- Antenna is built into wireless unit
- 802.11a/n dual chain
- Very affordable



59\$

NOW

LHG 5



QuickMOUNT pro LHG

- Wall or pole mount adapter
- $\pm 70^\circ$ horizontal adjustment
- $\pm 30^\circ$ vertical adjustment
- Special plastic composite material - anvilNITE (TM)



9.5\$

Groove 52 ac



- 802.11ac update for the popular Groove model
- Waterproof, rugged and ready to use.
- 802.11 b/g/n and 802.11 a/n/ac, Gigabit Ethernet

CPE 79\$ / AP 99\$

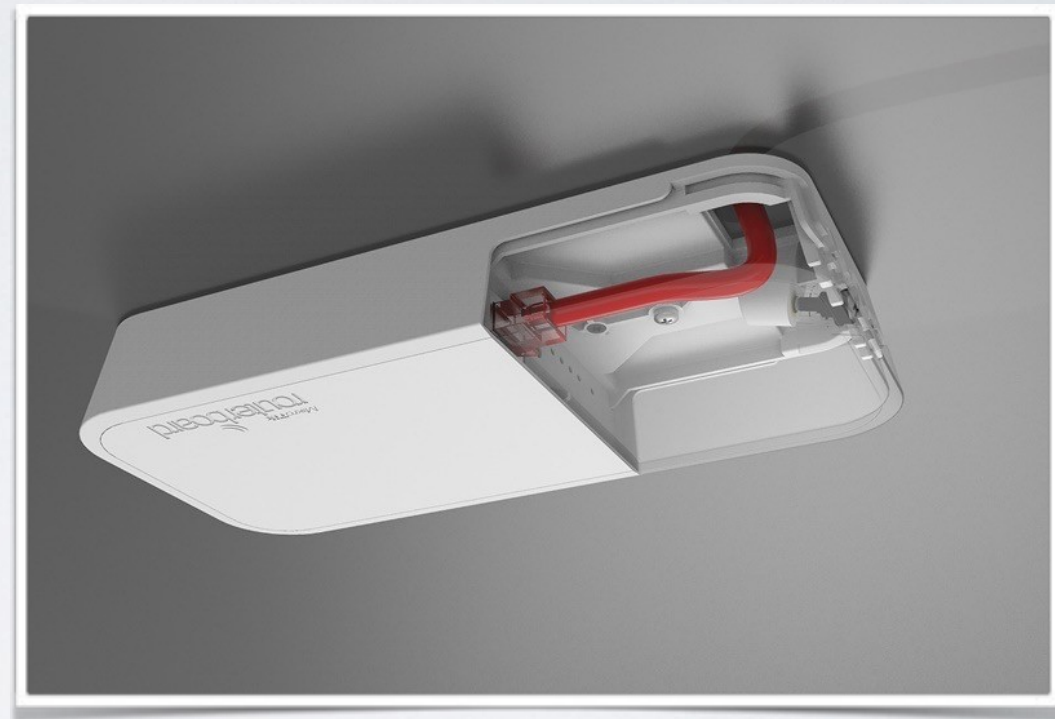
Metal 52 ac



- 802.11ac update for the popular Metal model
- Higher output power
- Metallic case that works as a heatsink

119\$

wAP ac



- Wall or ceiling mountable
- Use for hotel, office, etc.
- Gigabit and 802.11ac
- Dual band (concurrent 2.4GHz and 5GHz)

89\$

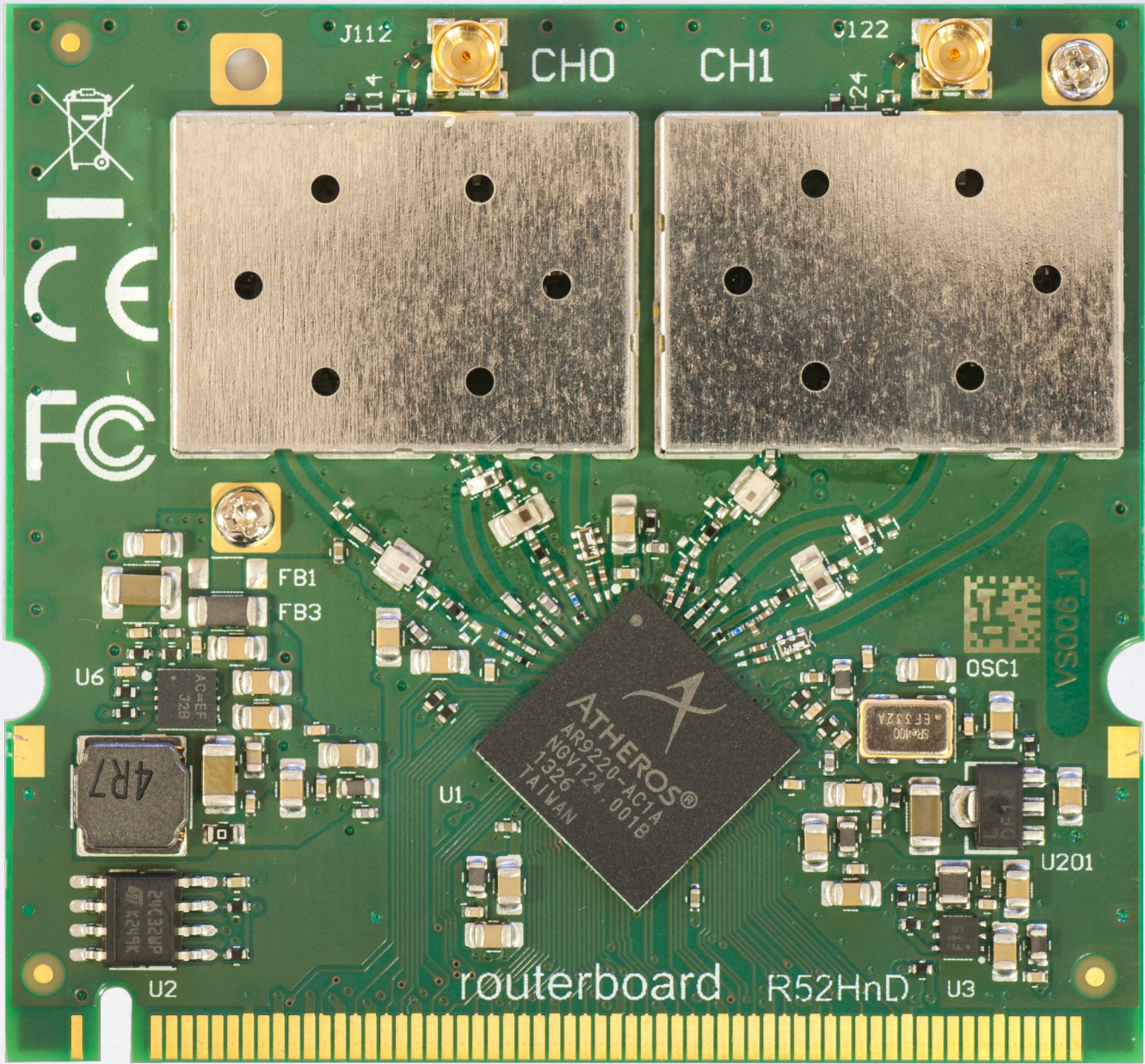
hAP ac

- Gigabit dual concurrent home AP
- 2.4GHz high power 3 chain 802.11n
- 5GHz high power 3 chain 802.1ac
- 5x1Gbps ports & 1 SFP cage
- 720MHz CPU
- PoE-out on port 5



129\$

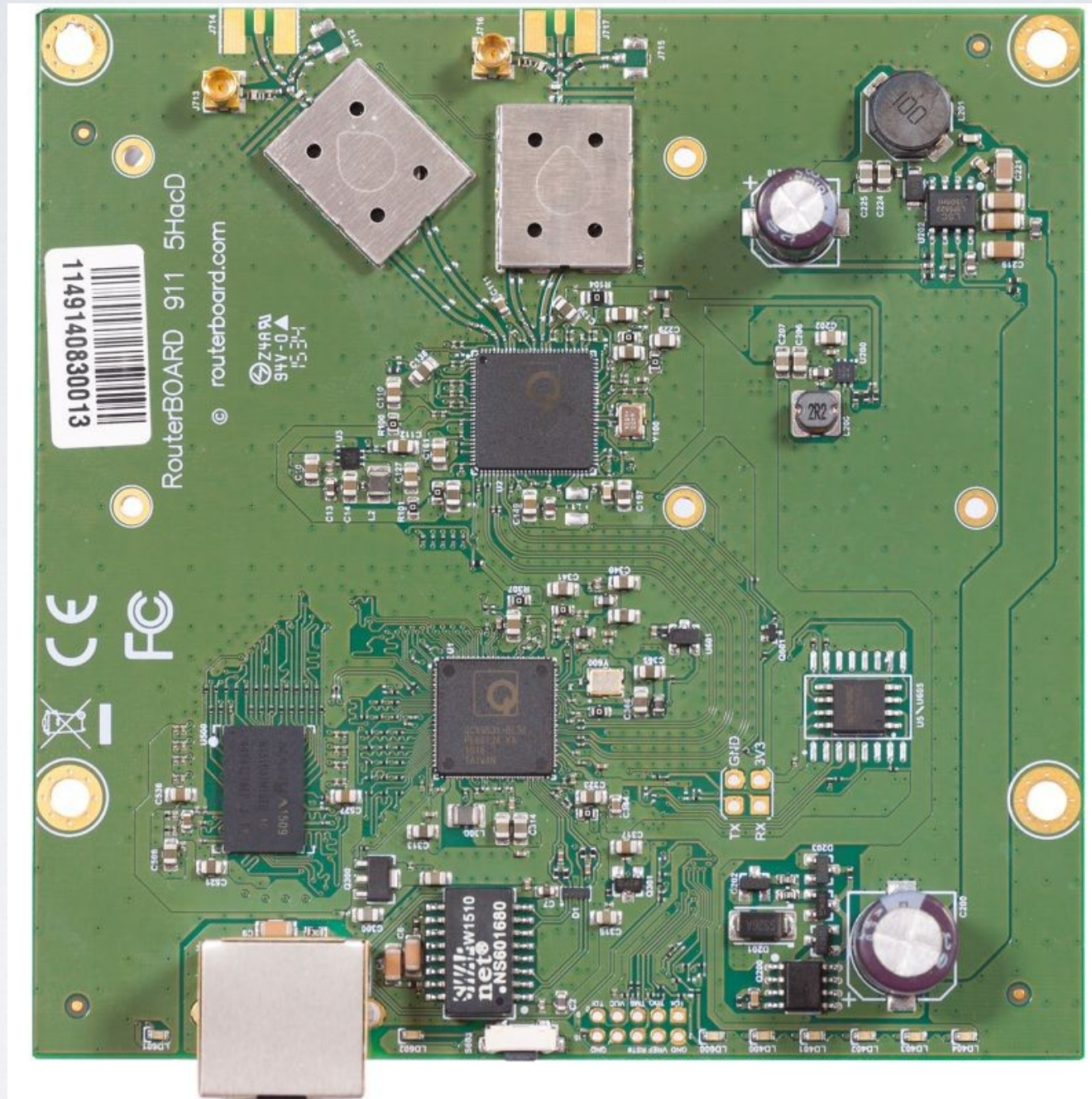
R52HnD



59\$

Tx-power 26 dBm, R52H replacement

911 Lite5 ac

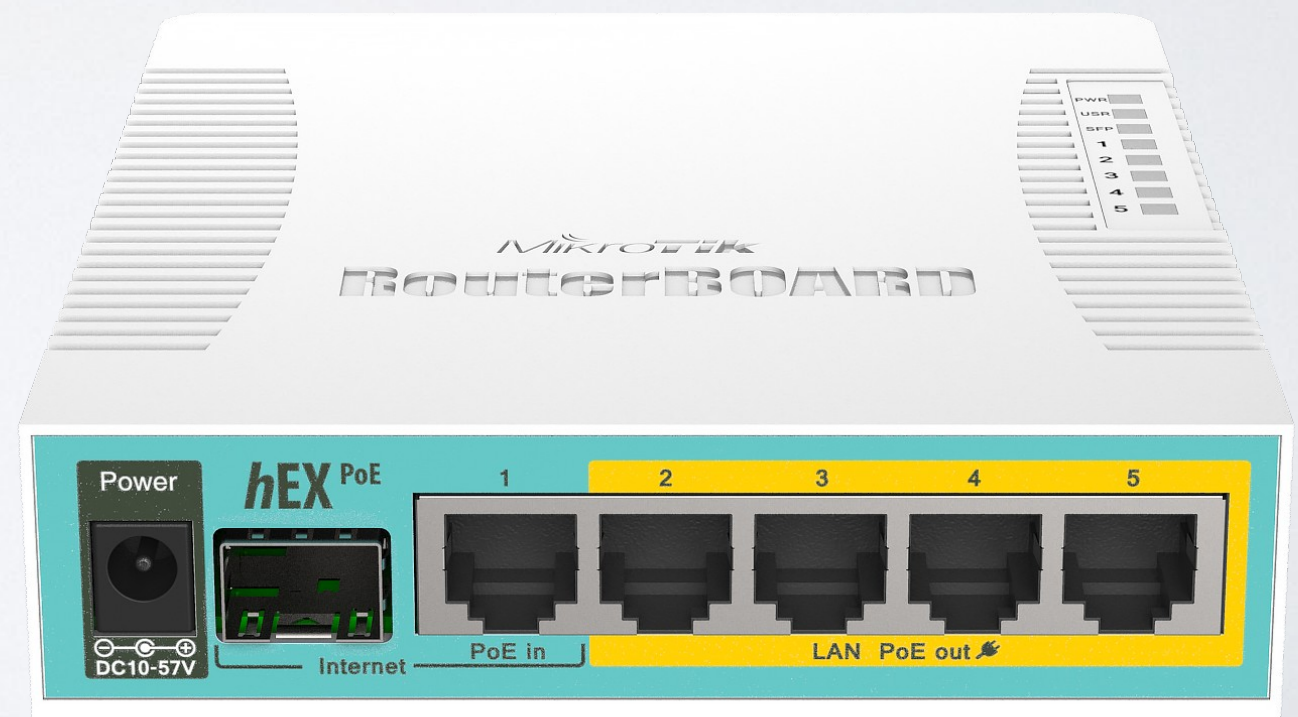


49\$

802.11ac update for extremely affordable board

hEX PoE

- Small Ethernet device
- Five 1Gbps ports
- Power over Ethernet out on ports 2-5



OmniTIK 5 ac /PoE ac

- 802.11ac, 2 chains
- 5x1Gbit Ethernet ports
- 7.5 dBi
- PoE in
- *PoE out (ether2-5)



CHR

- RouterOS version tailored for running in virtual environments
- Runs on VMware Workstation and ESXi, VirtualBox, HyperV, KVM, XenServer, etc.
- Cloud services - Amazon, Azure and others

CHR

- Firewall for your cloud services
- VPN server in the cloud
- The Dude monitoring server
- Simulate networks for learning or training
- And more...

CHR

License	Speed limit	Price
Free	1Mbit	FREE
P1	1Gbit	\$45
P10	10Gbit	\$95
P-Unlimited	Unlimited	\$250

- 60 day trial available
- Purchased license can be transferred

CHR

- For more info see the CHR page on our wiki:
<http://wiki.mikrotik.com/wiki/Manual:CHR>
- Available on the download page:
<http://mikrotik.com/download>

RouterOS v6.35 changelog **181** line

Wireless in v6.35

- New wireless package '**wireless-rep**'
- Multiple simultaneous wireless modes on the same wireless interface
 - Client and AP
 - Repeater
 - Scan without disconnects
- Improved driver

Need Help?

- Ask a local **distributor**
- Read the manual **wiki.mikrotik.com**
- Email **support@mikrotik.com**
- Hire a **consultant**
- Attend a training class or join an Academy class in a University

After the MUM

- Presentation slides - mum.mikrotik.com
- Videos - youtube.com/mikrotik
- License will be emailed

MUM Germany

Lunch break

We will be back at 13:30

The Mikrotik logo is centered on a light blue background. It features the word "Mikro" in a black, italicized, sans-serif font, followed by a stylized icon consisting of three curved lines. To the right of the icon is the word "Tik" in a bold, black, sans-serif font, with a horizontal bar over the "T".

Mikro  **Tik**