



# User Meeting

France, Paris

May 2016

# MikroTik

- 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



The image shows a map of Europe with the Mikrotik logo overlaid. The logo consists of a stylized bird icon above the word "Mikrotik" in a bold, sans-serif font. The country of Latvia is highlighted in a solid green color. The map includes labels for various European countries, including Iceland, Norway, Sweden, Finland, Denmark, Lithuania, Poland, Germany, France, Spain, Portugal, and many others.

**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

- Kārlis Oga (Sales)
- Pauls Jukonis (Support)
- Mārtiņš Strods (Support)



# Schedule

12:00	Lunch (with vouchers)
17:00	Raffle
17:15	Drinks

<http://mum.mikrotik.com/2016/FR/agenda>

# MUM Live stream

[www.youtube.com/mikrotik](http://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...

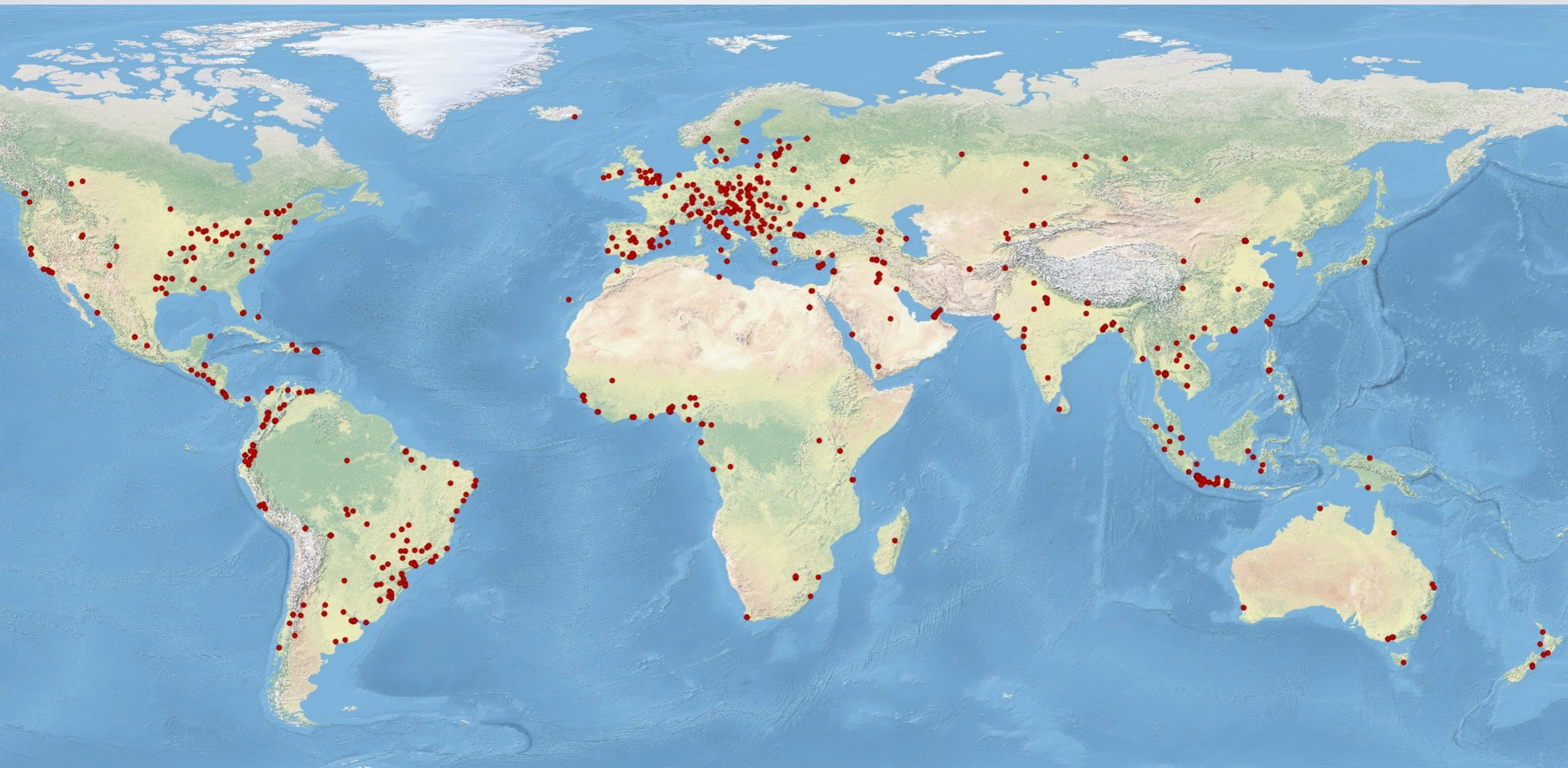
# Why us

- 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

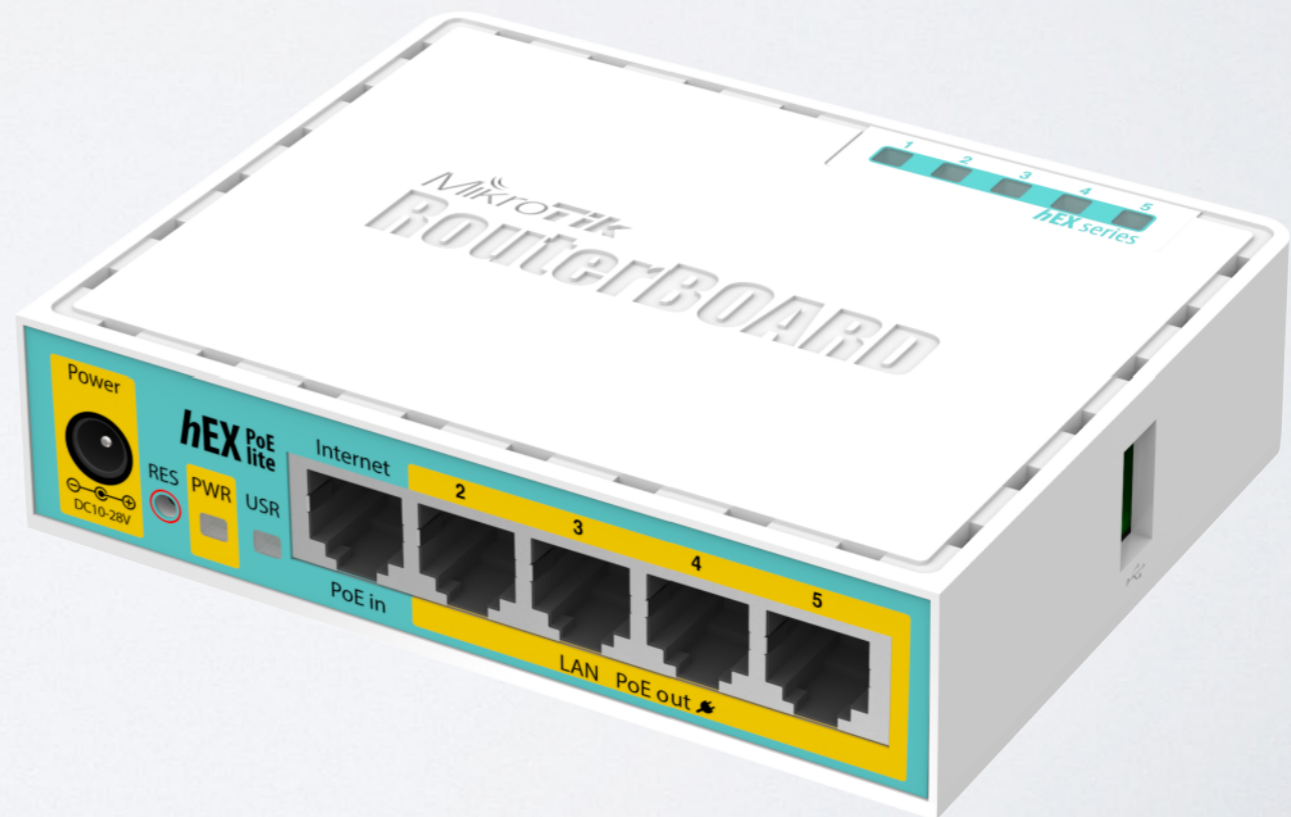


# PRODUCT SERIES

# ETHERNET ROUTERS

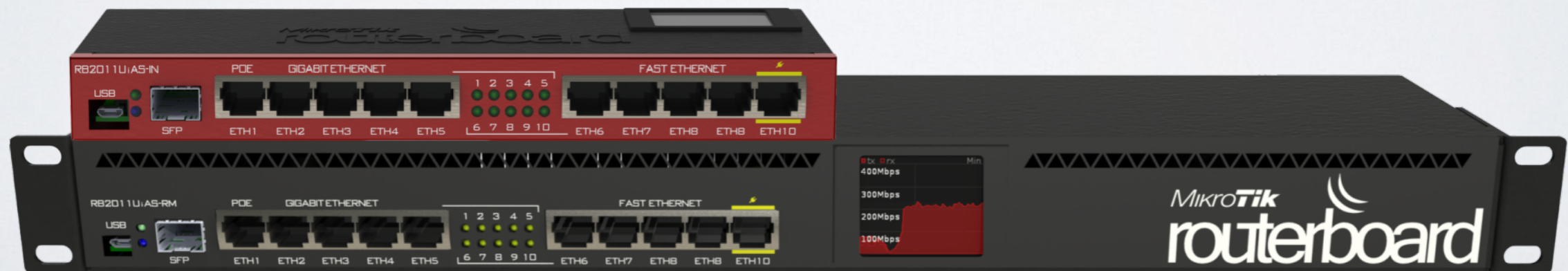
# hEX lite

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



# RB2011 and RB3011

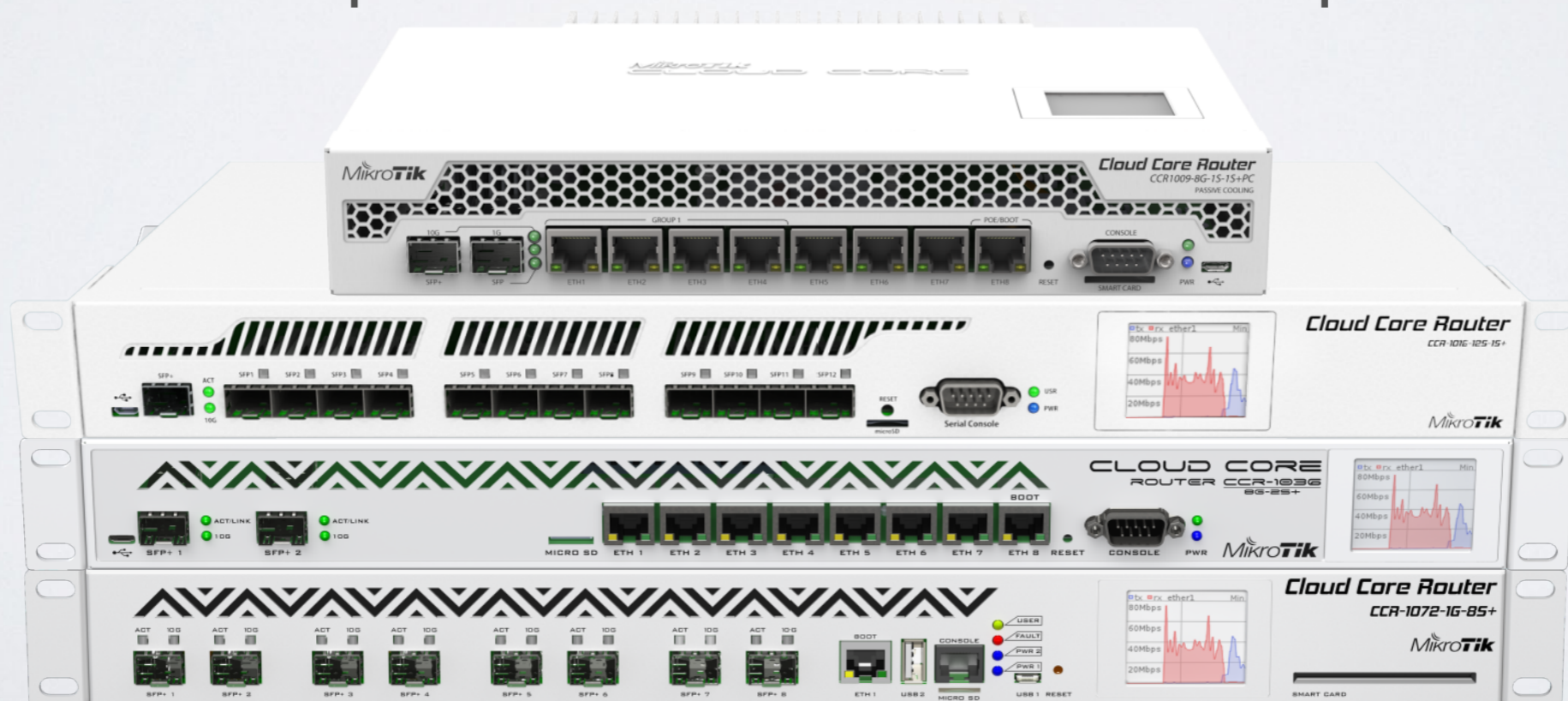
- Rackmount and desktop case
- 10 Ethernet ports
- 1 SFP (fiber optic)
- RB3011 - dual core ARM CPU





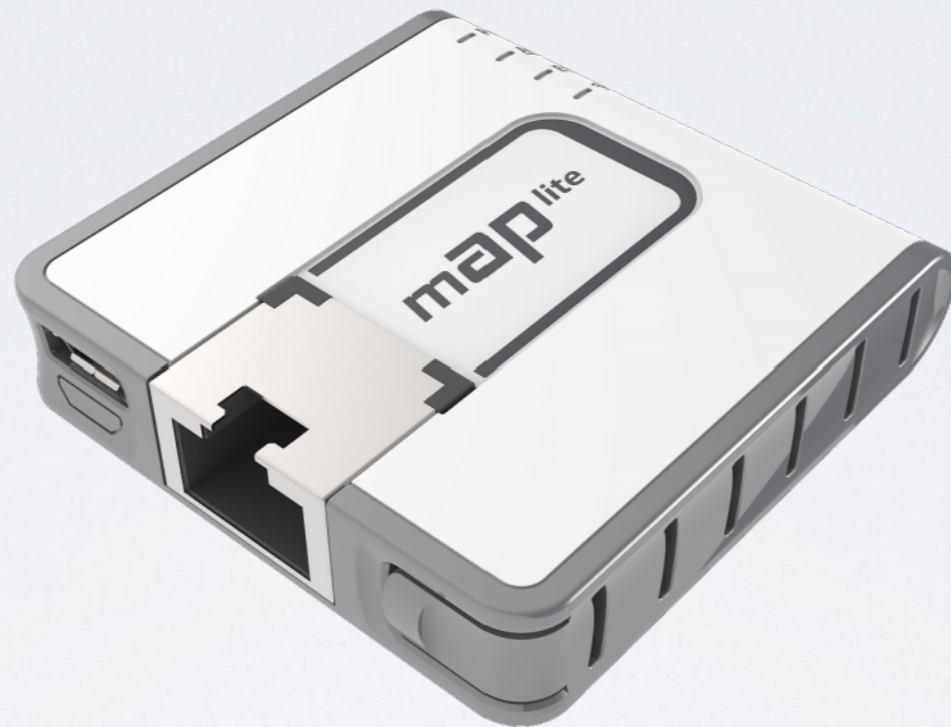
# CCR series

- 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

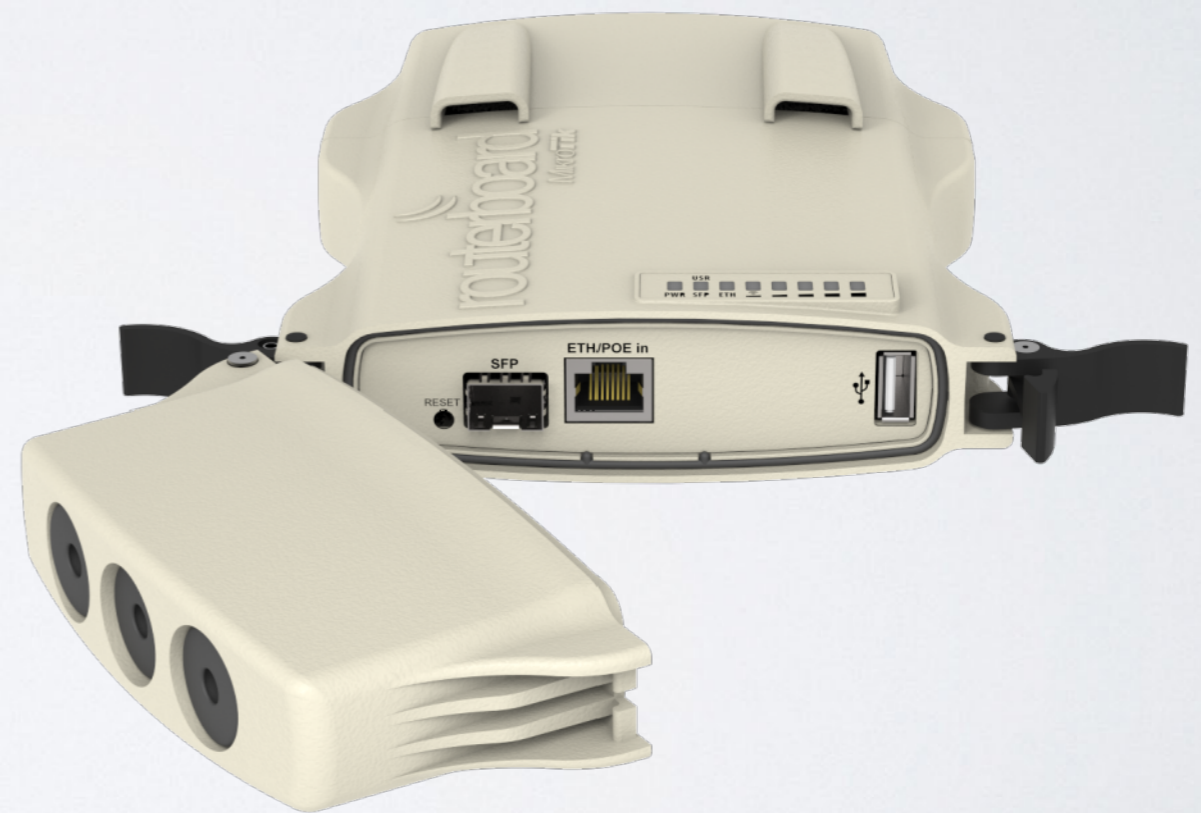


Dual band 2.4/5GHz AP, 802.11ac/a/b/g/n,  
5x1Gbps Ethernet, PoE-out on port 5, SFP and USB

# 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

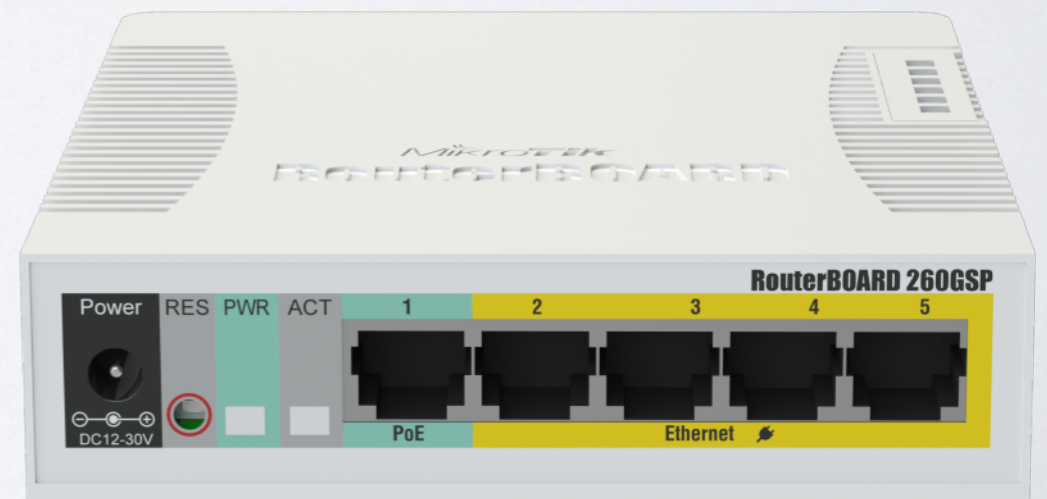
- Dual-chain 802.11ac
- 8 degree, 25dBi antenna
- Gigabit Ethernet
- Long range point-to-point links



# SWITCHES

# RB260GSP

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



# CRS Series

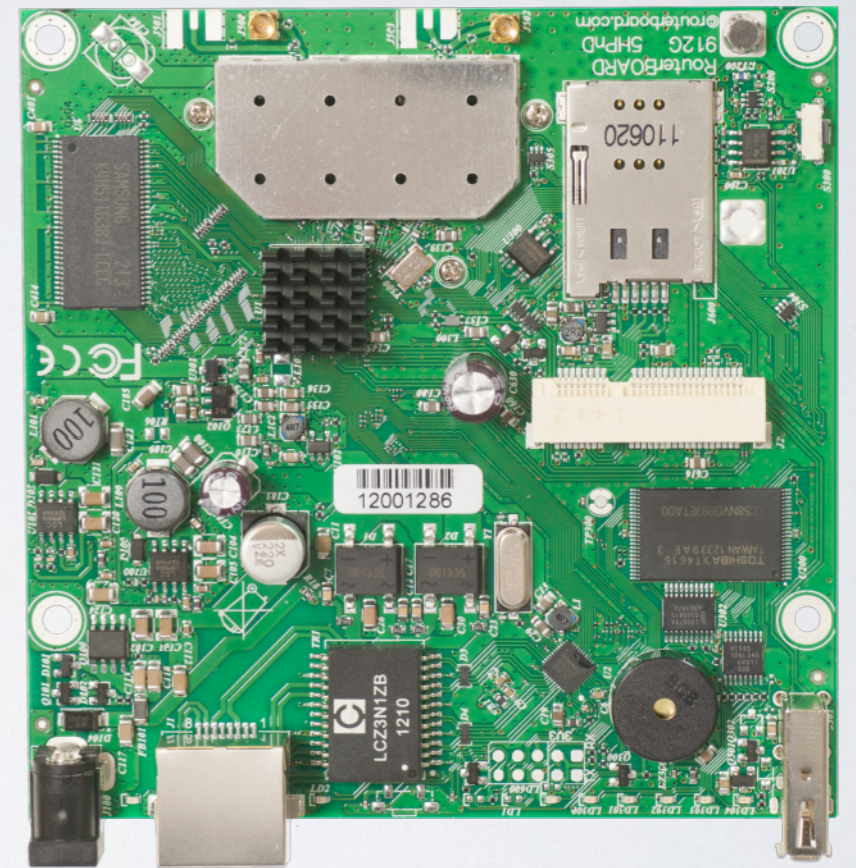
- Layer 3 switches
- Runs MikroTik RouterOS
- From 8 to 24 ethernet ports
- Gigabit Ethernet
- SFP/SFP+
- Wireless



ROUTERBOARD

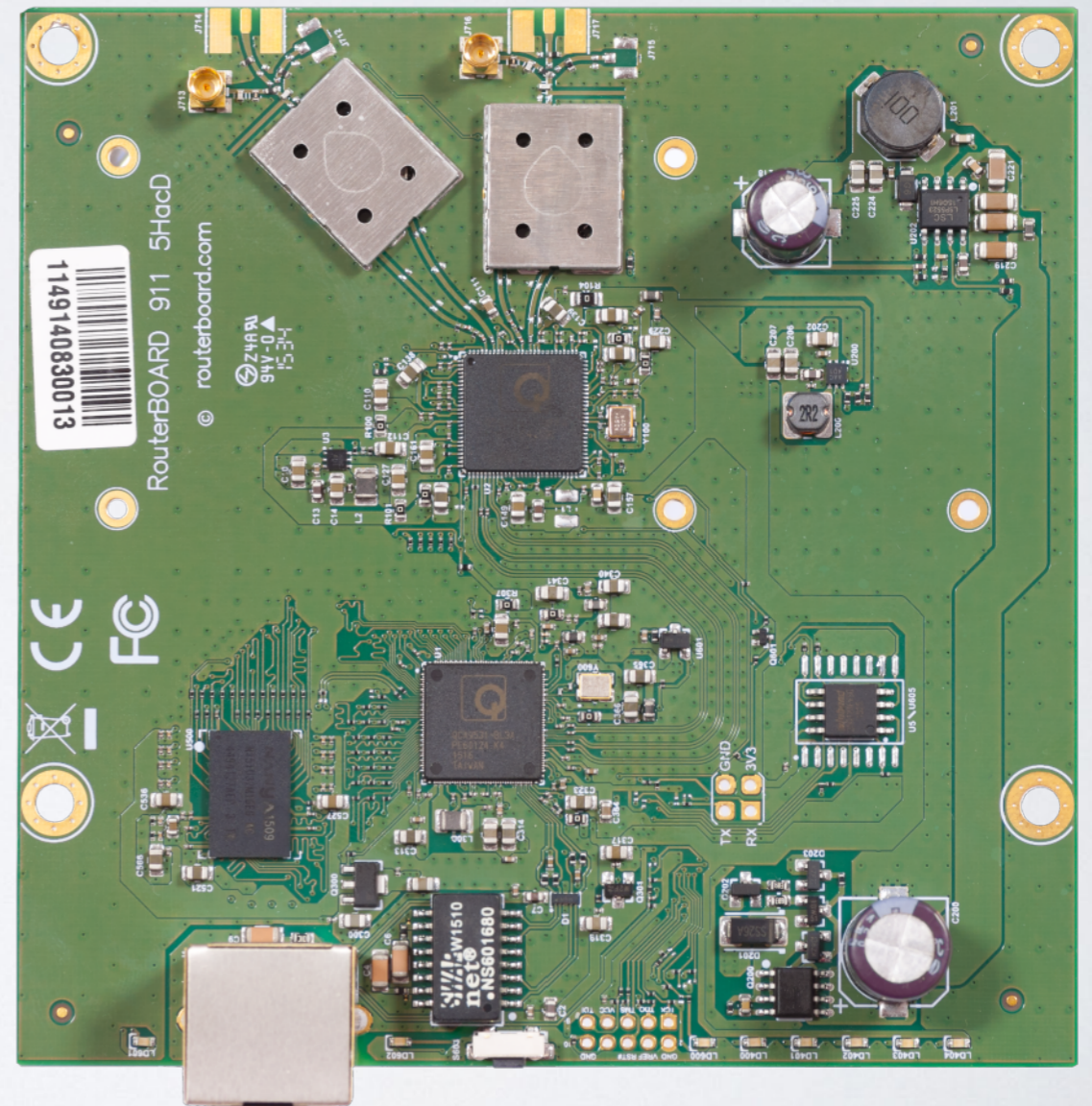
# RouterBOARD

- 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](http://routerboard.com)

\*Except RB260GS (SwOS)

# NEW PRODUCTS

# LHG 5

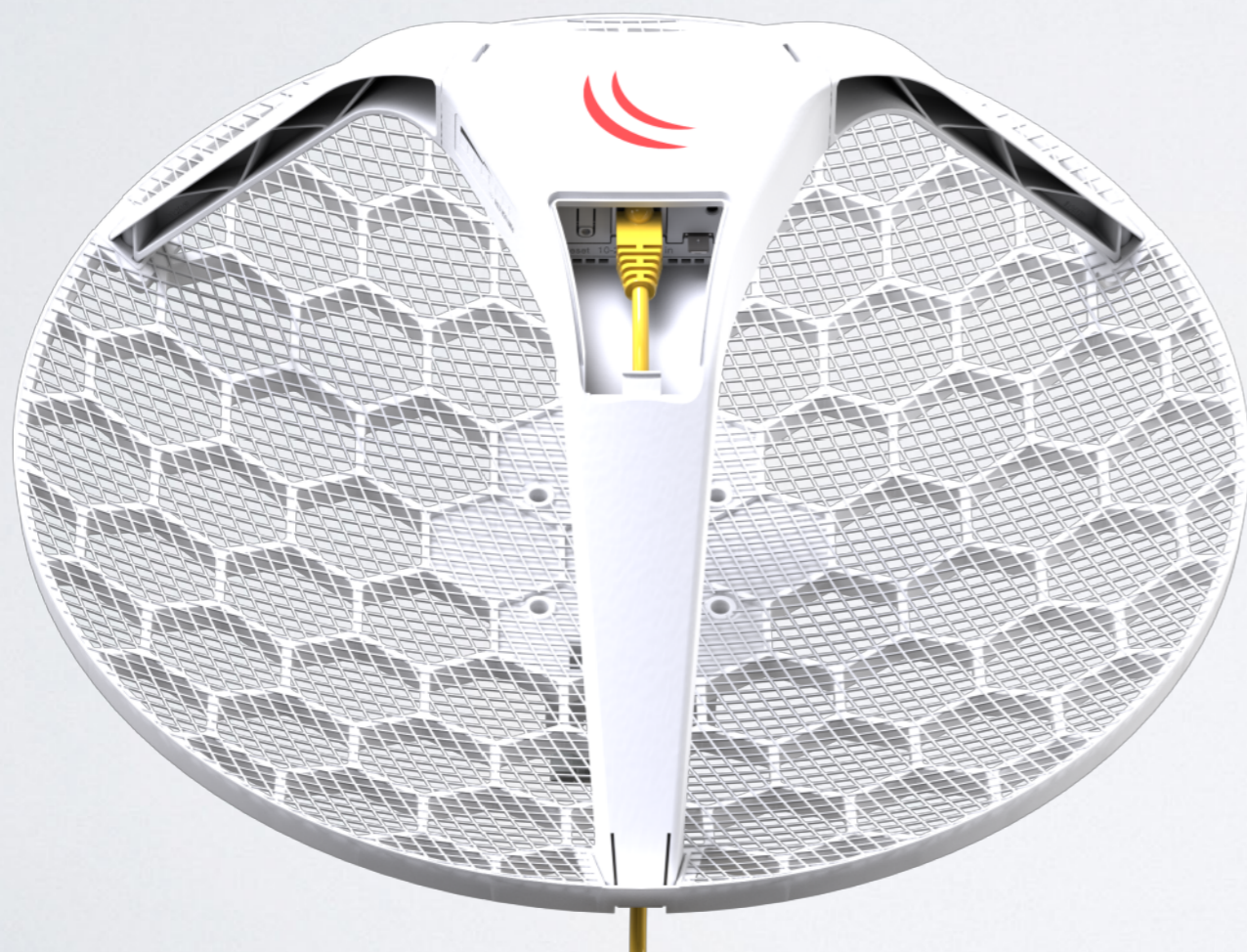
- 24.5 dBi antenna
- Antenna is built into wireless unit
- 802.11a/n dual chain
- Very affordable



59\$

NOW

# LHG 5



NOW

# Metal 52 ac

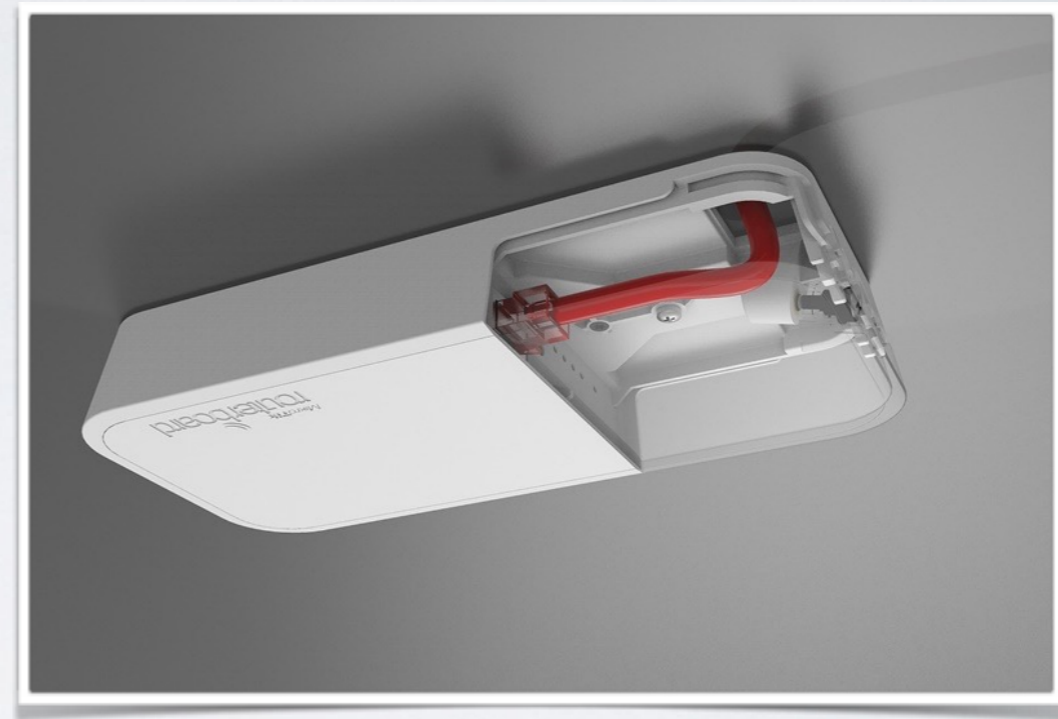


- Waterproof, rugged and with super high output power
- 802.11 b/g/n and 802.11 a/n/ac, Gigabit Ethernet

119\$



# wAP ac



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

89\$

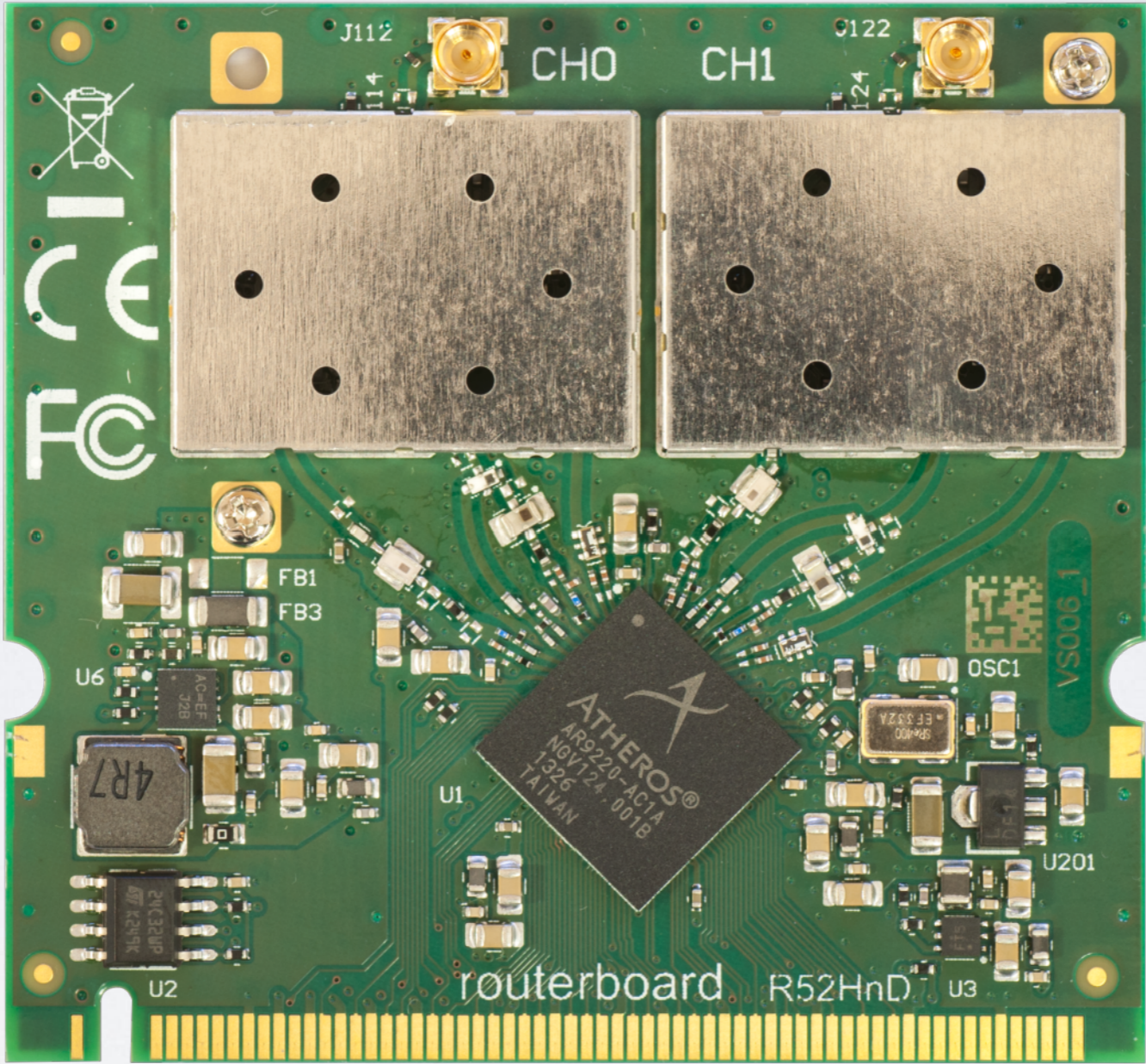
# hAP ac

- 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\$

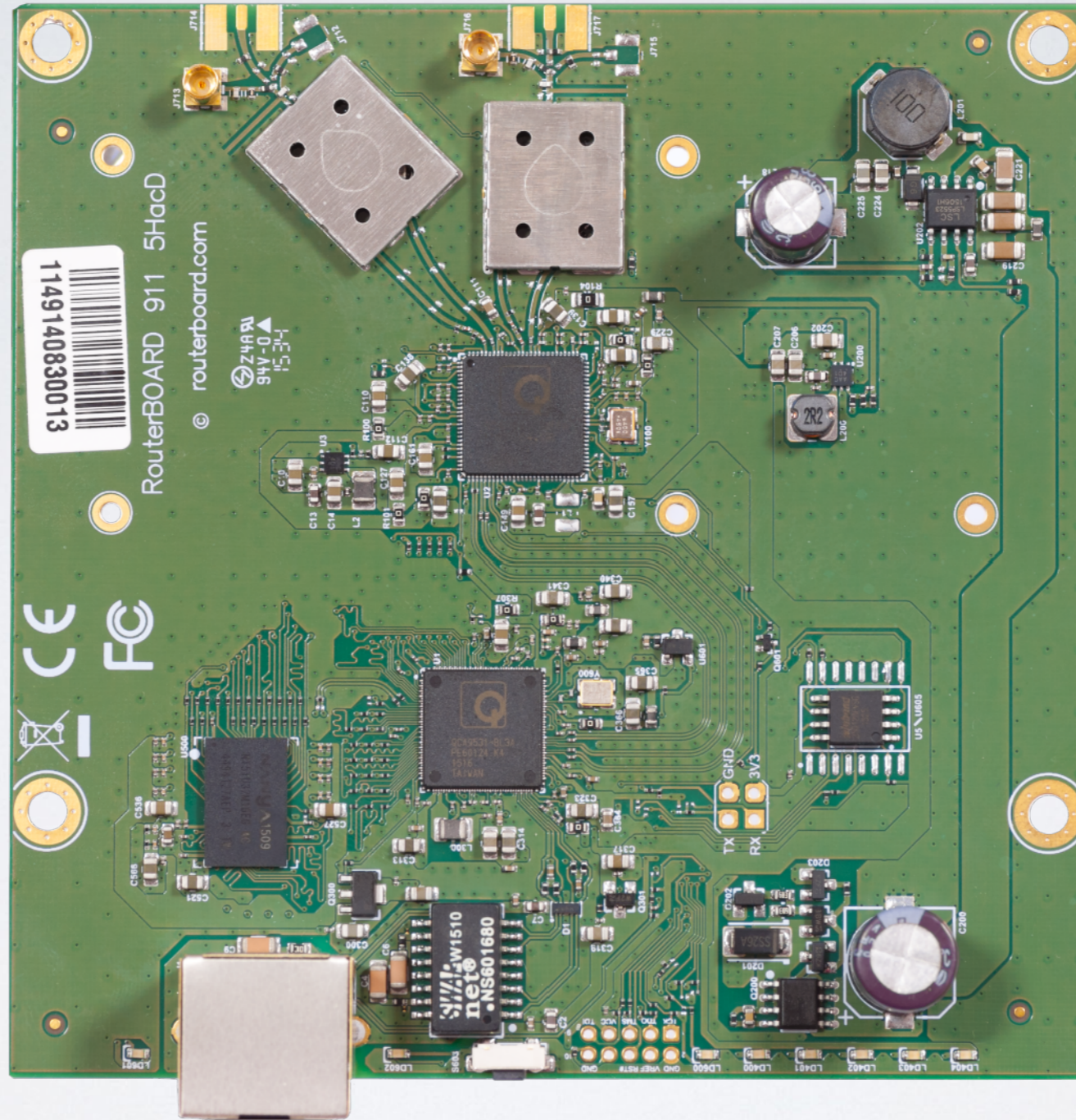
# R52HnD



59\$

Tx-power 26 dBm, R52H replacement

# 911 Lite 5ac

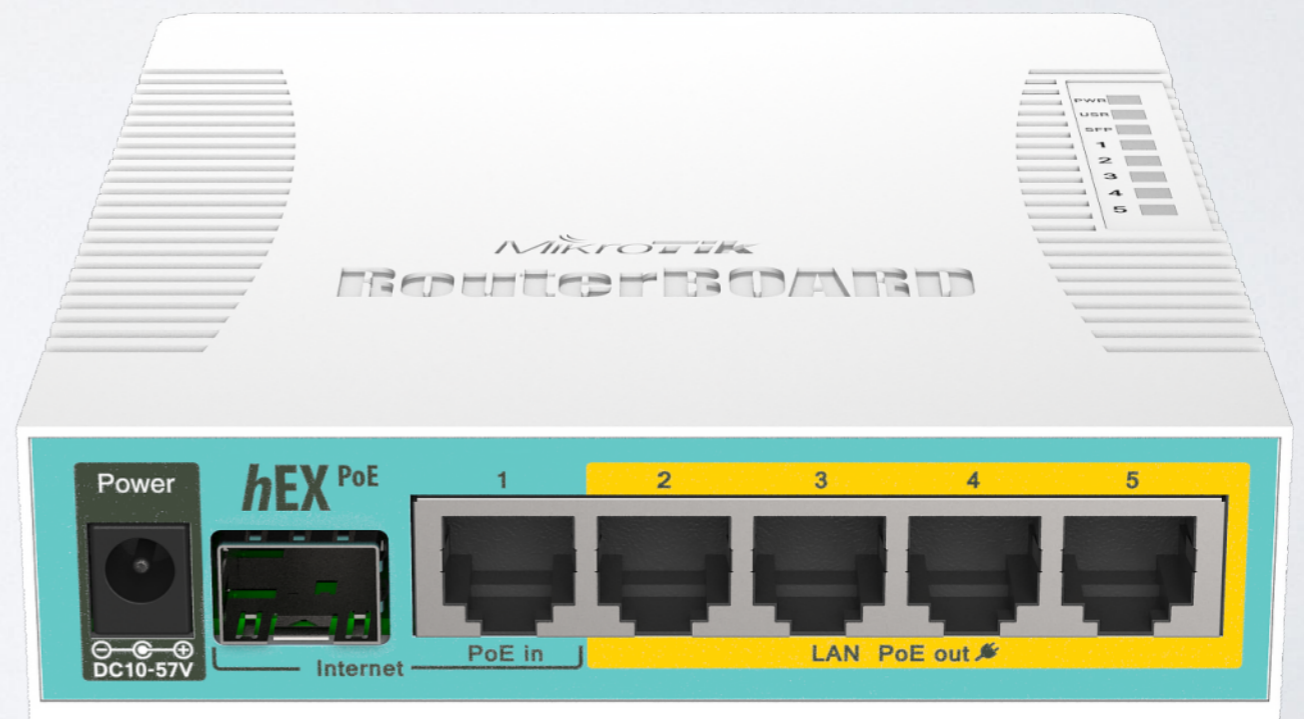


49\$

802.11ac update for extremely affordable board

# hEX PoE

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



# Groove 52 ac



- 802.11ac update for the popular Groove model

# OmniTIK 5 ac

- 802.11ac, 2 chains
- 5x1Gbit Ethernet ports
- 7.5 dBi
- PoE in



# OmniTIK 5 PoE ac

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





# 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**'
- Repeater and background scan
- 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](http://mum.mikrotik.com)
- Videos - [youtube.com/mikrotik](https://youtube.com/mikrotik)
- License will be emailed



Enjoy the MUM!

The logo for MikroTik, featuring the word "Mikro" in a black, italicized sans-serif font, followed by a stylized icon of three curved lines above the letter "T", and the word "Tik" in a bold, black, italicized sans-serif font.

*MikroTik*