

MikroTik User Meeting

## More than 80 MUM events



#### MikroTik

- MikroTik is located in Latvia (Europe)
- More than 150 employees
- Established 1996
- RouterOS created in 1997
- RouterBOARD created in 2002
- First MUM in Prague 2006
- Biggest MUM in 2014, Indonesia 2000 people



# What we do

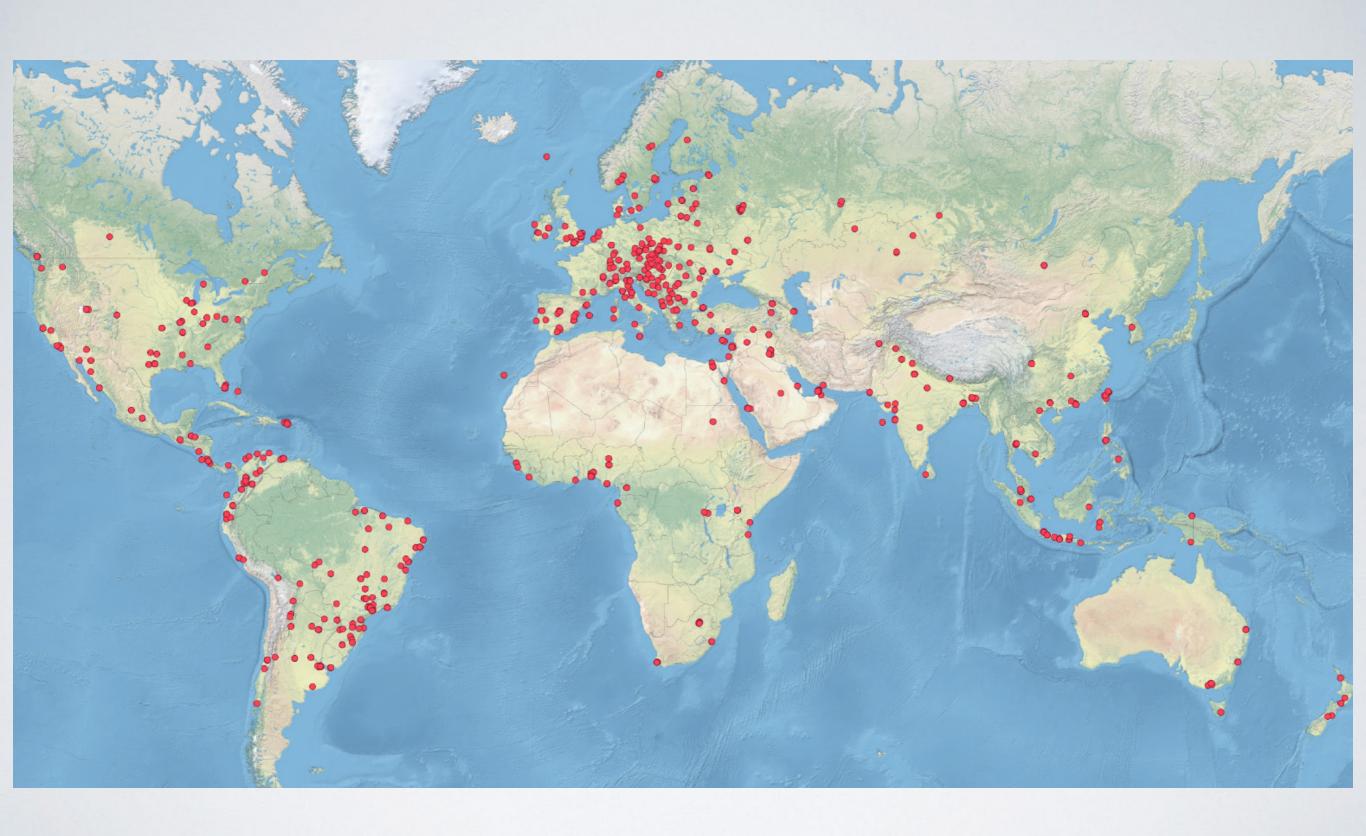
- MikroTik provides routing and wireless equipment for all possible uses: RouterBOARD, Cloud Core Router, Cloud Router Switch
- Our RouterOS software now supports most common and many special features

# RouterOS

- MikroTik RouterOS is the operating system of RouterBOARD hardware
- Routing, firewall, bandwidth management, wireless access point, backhaul link, hotspot gateway, VPN server and more
- Stand-alone operating system based on the Linux v3.3.5 kernel

# Why us

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



# Why us

- More than 1600 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 at the MUM

- Edmunds Aperāns
- Normunds Rustanovičs

# After the MUM

- Presentation slides wiki.mikrotik.com
- Videos tiktube.com
- License will be emailed

# Special thanks

#### Maxbit

Maximum Business Information Technology, Cambodia

## PRODUCT SERIES

### ETHERNET ROUTERS

- From small to big, for every need
- RouterBOARD and CCR series
- Desktop and Rackmount



### SWITCHES

- Simple or Sophisticated
- CRS gives Layer 3 features
- 5 to 24 port devices



### WIRELESS SYSTEMS

- Professional outdoor links
- AP, PtP, PtMP, etc
- Rugged and powerful
- 802. Hac technology



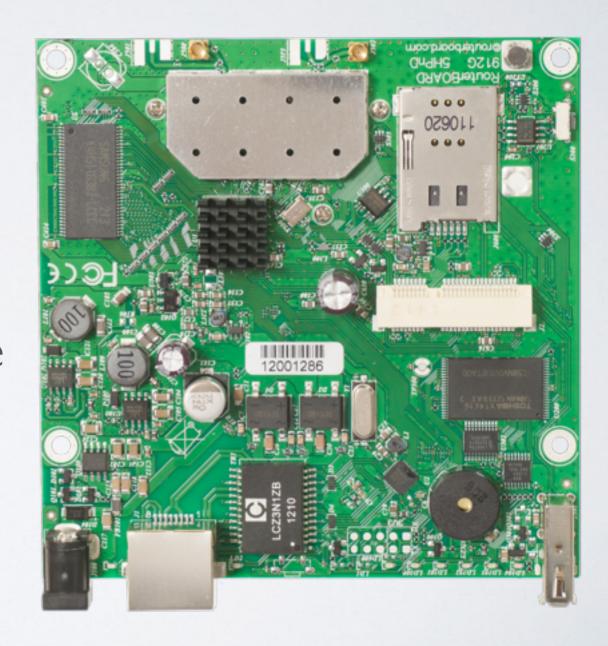
#### FOR HOME AND OFFICE

- Low cost and small
- Good looking and friendly
- LCD touchscreen, file sharing, Quickset



#### ROUTERBOARD

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

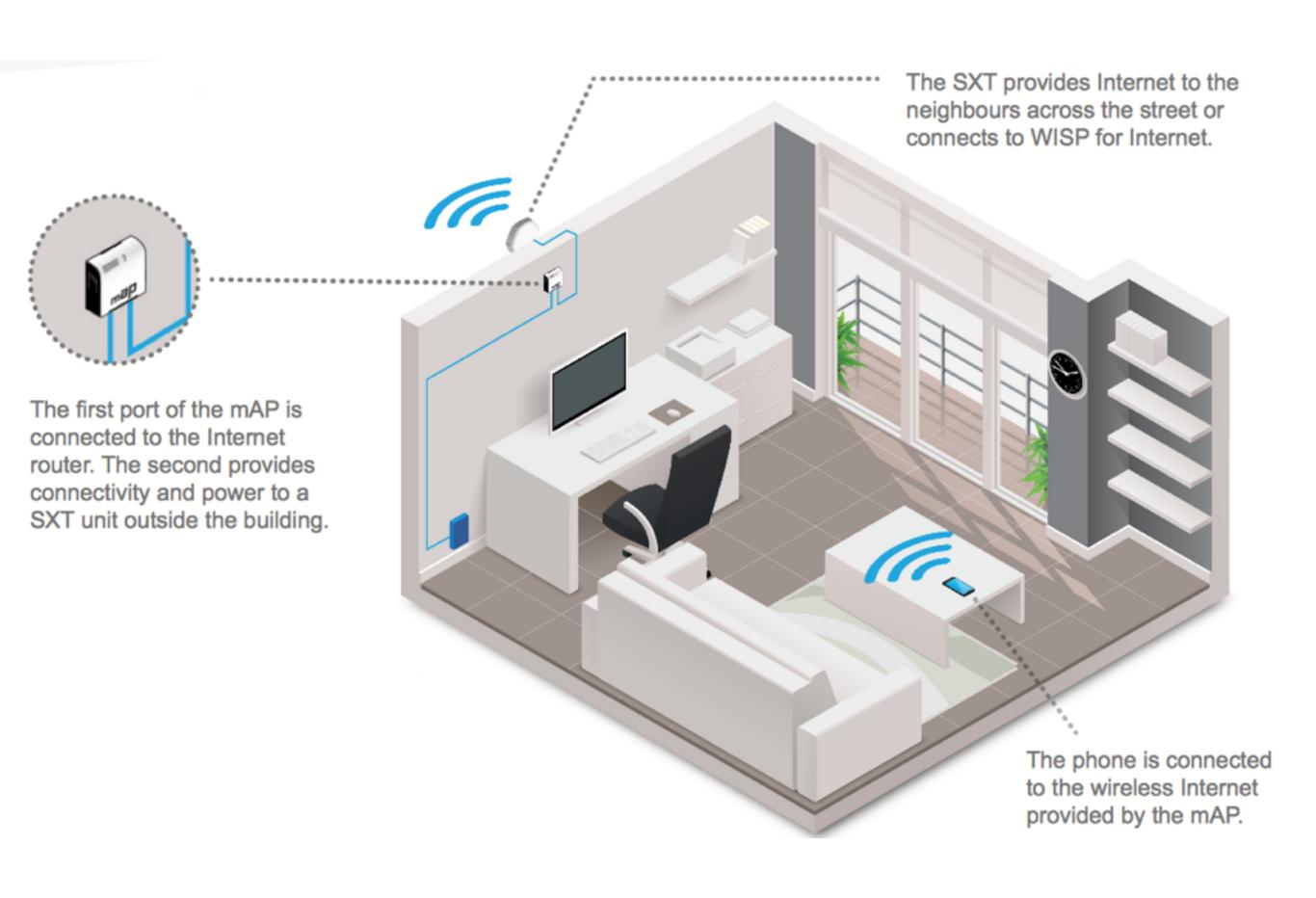


## INTERFACES AND MORE

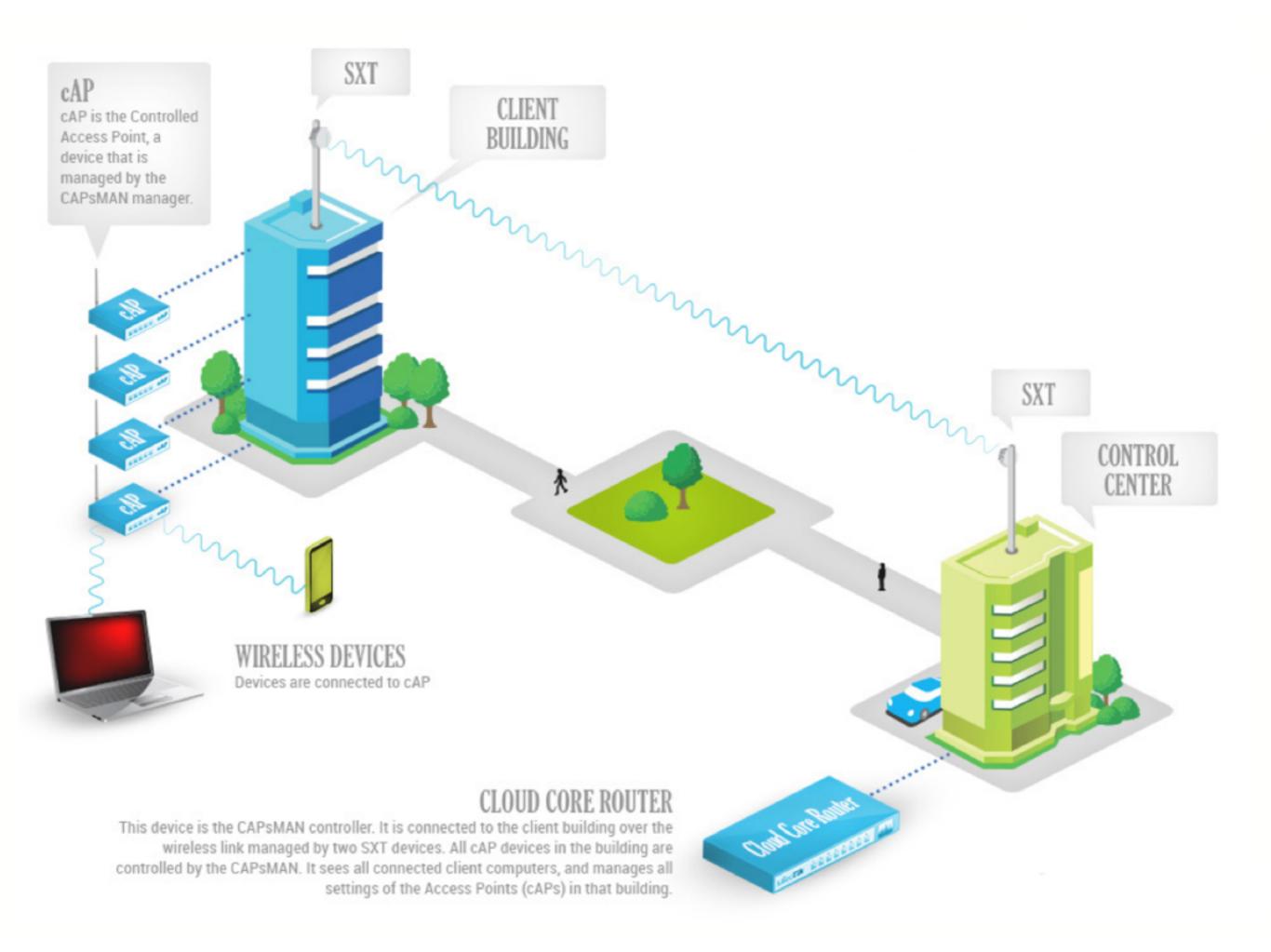


- Wireless cards
- SFP modules
- Adapters
- Converters
- Antennas

from the home ...



... to the global network



## ALL PRODUCTS

- · Include free software upgrades for life
- Run the same RouterOS software
- · Can be purchased from our worldwide distributor network

#### 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

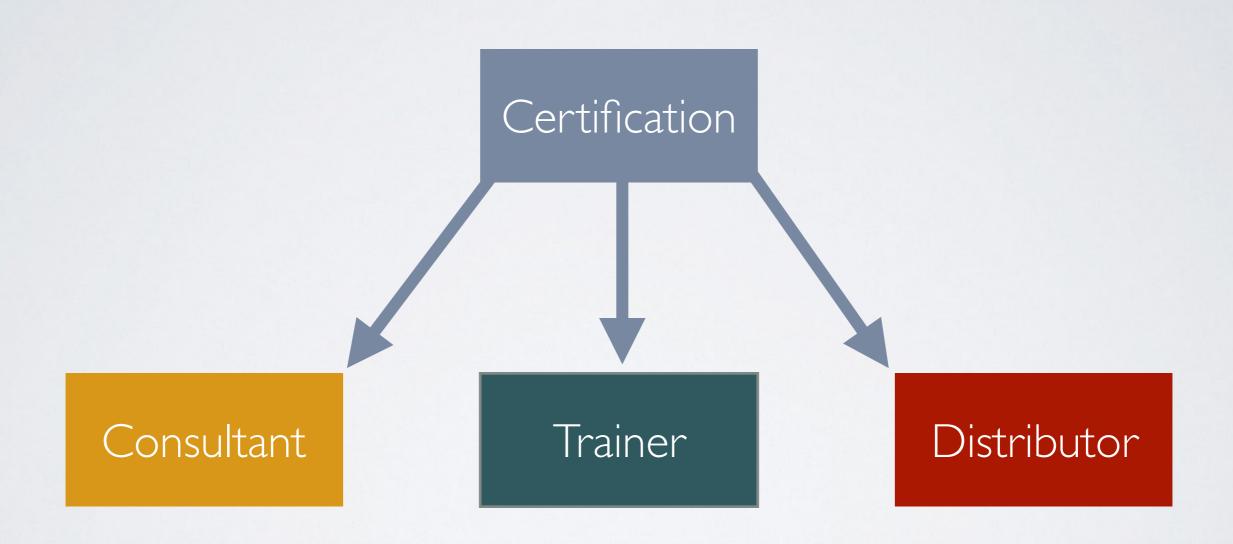
#### WHATTHEN



#### HOWTO PARTICIPATE

- Become a Distributor
- Take classes and become a certified Trainer
- Start offering consulting services
- Coordinate a new MikroTik academy in a local University
- Create accessories and enclosures with the MFM program

## WHY LEARN



# To become:

- consultant, get a certificate from trainers
- trainers, get a certificate from MikroTik
- distributor, certify your employee and email MikroTik

## RECENTLY INTRODUCED

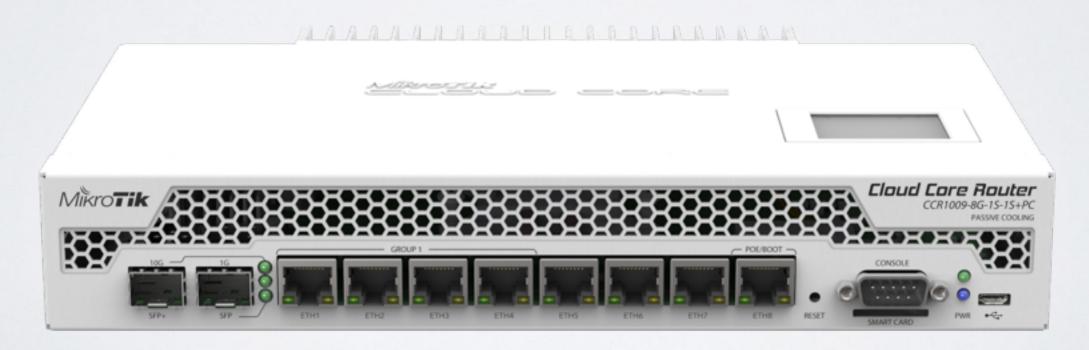
### hAP lite

- Very affordable home Access Point
- Full RouterOS functionality
- 2.4GHz dual chain 802.11n
- 4 Fast Ethernets
- 650MHz CPU
- powered with 5V (from USB)



# CCR1009 PC

- 9 core TILERA networking CPU
- Silent, passive cooling case
- 8 Gigabit Ethernet, I SFP and I SFP+



# Powerbox

Outdoor Ethernet router

Powers other devices over PoE

Weatherproof and pole mountable



# S+2332LC10D

• Bidirectional SFP+ 10G module kit

two SFP+ modules

up to IOKM distance



\$349

## SOFTWARE FEATURES

## RoMON

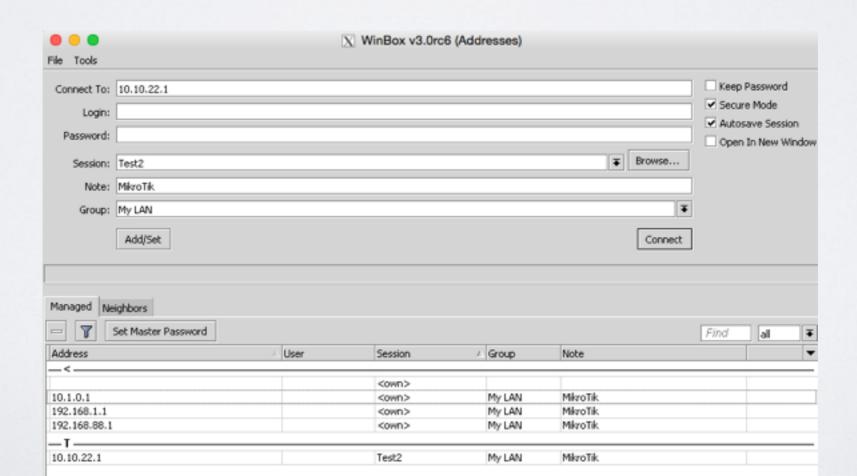
Router Management Overlay Network

# Features

- Works similar to neighbour discovery, but over multiple hops
- Secure Layer 2 style access to all MikroTik devices with a physical connection or through a L2 tunnel
- Discover, manage and upgrade your entire network with an easy tool
- mac Winbox/SSH/ping on steroids
- More info in our manual: http://wiki.mikrotik.com/wiki/Manual:RoMON

### Winbox 3

- Sort, group and protect saved devices
- Save, load and move device lists
- Save all layout preferences and move them between devices



#### NEW PRODUCTS



#### hAP

- Upgrade for/replaces RB951-2n
- 2.4GHz dual chain 802.11n
- 5 Fast Ethernets
- 650Mhz CPU
- 300MHz DDR2 RAM
- PoE-in
- PoE-out on port 5





#### hAP ac lite

- Our first dual concurrent home Access Point
- 2.4GHz dual chain 802.1 In
- 5GHz single chain 802.1 lac
- 5 Fast Ethernets
- 650MHz CPU
- 300MHz DDR2 RAM
- PoE in
- PoE-out on port 5



### hAP ac

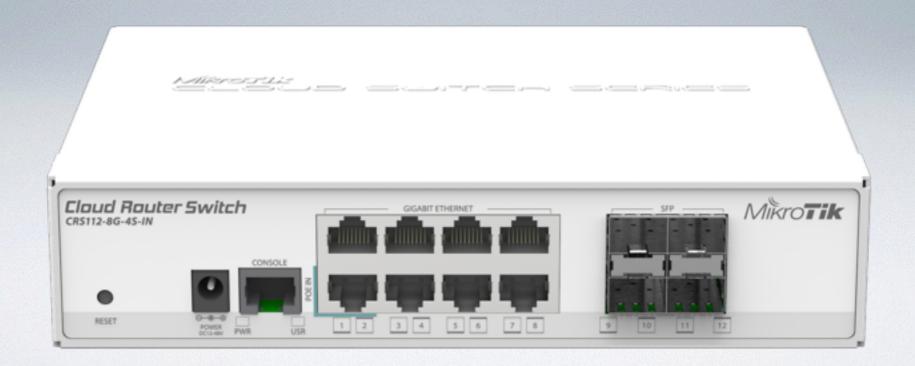
- Our first Gigabit dual concurrent home AP
- 2.4GHz high power 2 chain 802.11n
- 5GHz high power 3 chain 802. I lac
- 5 Gigabit Ethernet & I SFP cage
- 720MHz CPU
- 300MHz DDR2
- PoE in
- PoE-out on port 5





#### CRS112-8G-4S-IN

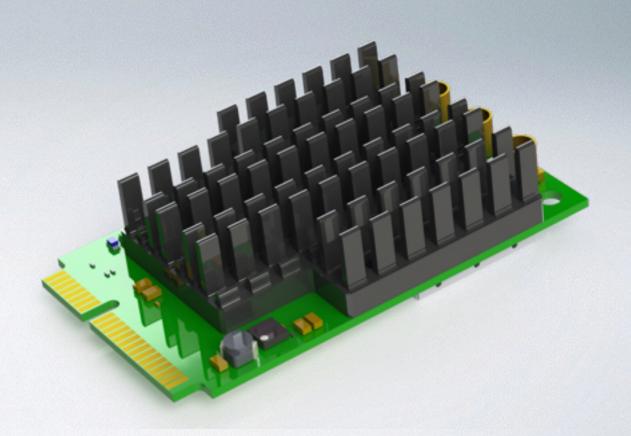
- Small size desktop switch, powered by RouterOS
- 4 SFP ports and 8 Gigabit Ethernet





#### RIIe-5HacT

- miniPCle card with 5GHz triple chain 802. I lac
- Upgrade your existing devices to 802. Hac standard





### QRT 5 AC

- 802. Hac upgrade for QRT 5
- Same design and antenna
- Same robust design with upgraded internals for 802.1 lac







### SXT HG5 AC

- 802. Hac upgrade for SXT HG5
- 720Mhz CPU
- DDR2
- 17dBi

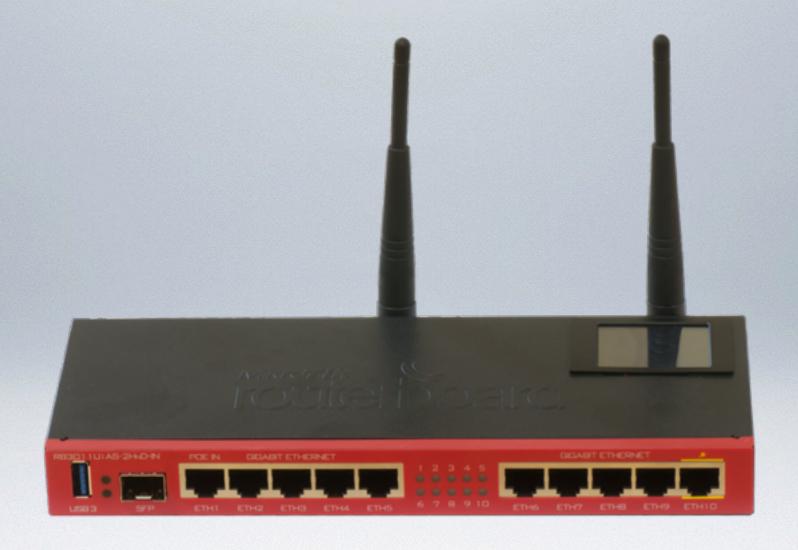


#### RB3011 Series

- Upgrade for RB2011 Series
- Dual core I.2GHz ARM CPU
- more than 2x performance
- I0x Gigabit Ethernets
- Regular size USB3
- Rackmount and Indoor wireless AP
- miniPCle slot and SFP port



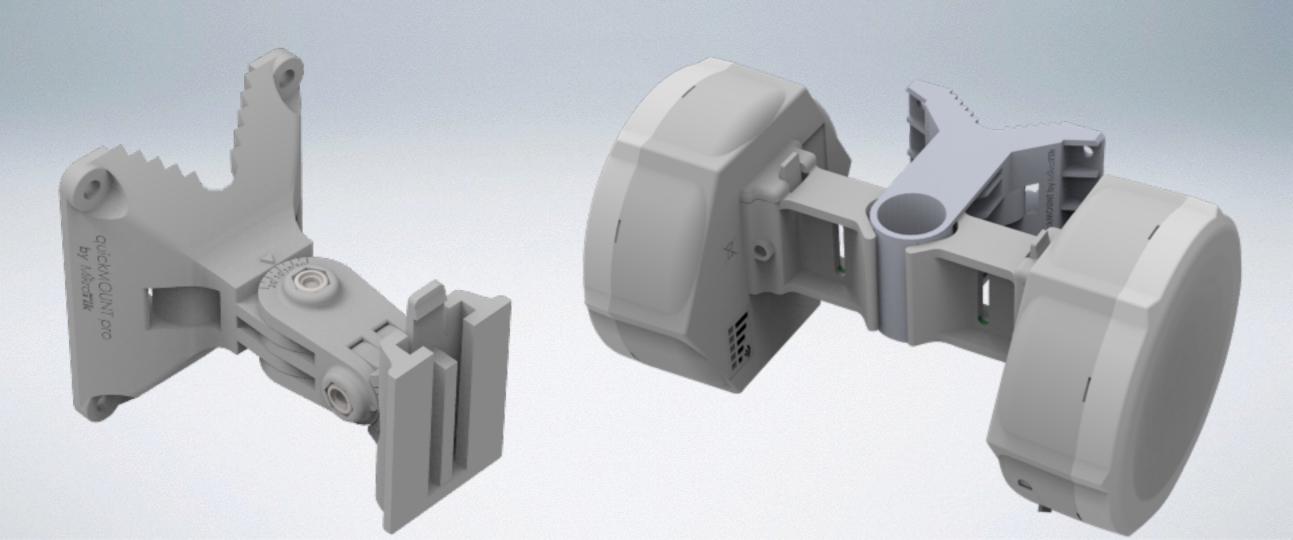
### RB3011 Series



- RB3011UiAS-RM: \$179
- RB3011UiAS-2HnD-IN: \$199

### QuickMount

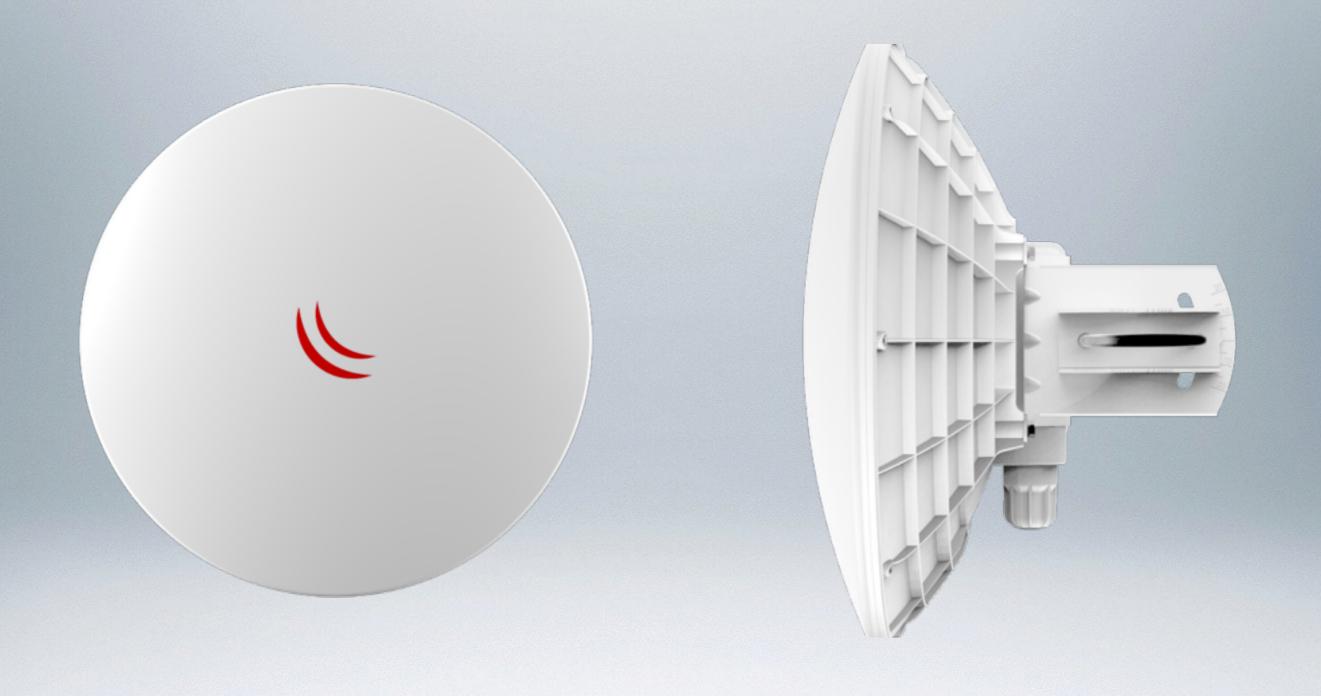
- · Easy to mount to wall, SXT or other devices
- Able to mount two SXT units for repeater setup
- · Pro model allows precise alignment





## DynaDish 5

- new 802. Hac outdoor device
- · ideal for long distance point-to-point links
- 5GHz dual chain board integrated into 23dBi dish antenna with 8 degree beam width
- 720Mhz CPU 300MHz DDR2
- one Gigabit Ethernet port



DynaDish

# Enjoy the MUM!