

 **MikroTik**

**Lunch at Viceroy ballroom**

**We will be back at 14:30**

MUM India

September 2016

The Mikrotik logo features the word "Mikro" in a black, italicized, sans-serif font. Above the letter "i" in "Mikro" are two curved lines, resembling a stylized "M" or a signal icon. The word "Tik" is in a bold, black, sans-serif font, with the "T" and "i" having a distinctive horizontal bar across their top. The "k" is also in a bold, black, sans-serif font.

*Mikro***Tik**

MUM India

September, 2016



# More than 130 MUMs all Around the World





# MUM INDIA #5

- 82 - Mumbai 2008
- 162 - New Delhi 2012
- 220 - New Delhi 2014
- 411 - New Delhi 2015

# MikroTik

- Established 1996
- RouterOS created in 1997
- RouterBOARD created in 2002
- First MUM event in Prague 2006
- Biggest MUM in 2015, Indonesia - 2500+ people
- More than 180 employees





**MikroTik**  
**Latvia**

Iceland

Finland

Sweden

Russia

Norway

Estonia

Denmark

Lithuania

Ireland

United Kingdom

Netherlands

Belgium

Germany

Poland

Belarus

Luxembourg

Czech Republic

Ukraine

France

Switzerland

Liecht.

Austria

Hungary

Moldova

Georgia

Slovenia

Croatia

Romania

Armenia

Monaco

San Marino

Bosnia and Herzegovina

Serbia

Bulgaria

Portugal

Andorra

Spain

Italy

Montenegro

Macedonia

Vatican City

Albania

Greece

Turkey

Syria



# MikroTik at the MUM

- Janis Jankovskis (sales)
- Uldis Cernevskis (support)
- Sergejs Boginskis (support, training)



# Schedule

**[mt.lv/agenda](http://mt.lv/agenda)**

13:00

Lunch

17:45

Lottery

18:00

Free drinks and socializing

Exhibitors and coffee in the hall



# MUM Live

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

# After the MUM

Presentation slides - [mum.mikrotik.com](http://mum.mikrotik.com)

Previous MUM India slides  
<http://mum.mikrotik.com/2015/IN/agenda>

Videos - [youtube.com/mikrotik](http://youtube.com/mikrotik)

Licenses will be emailed.

# Special Thanks

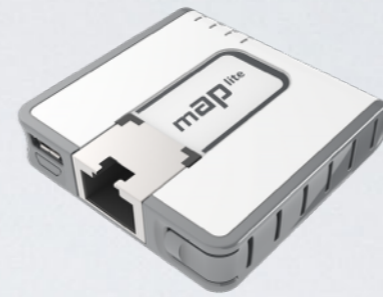
JRS Communication Pvt. Ltd.

Krauss Communication

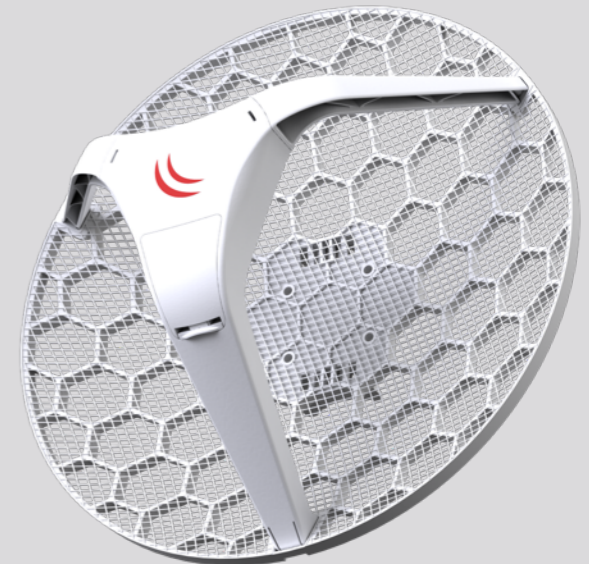




Ethernet Routers



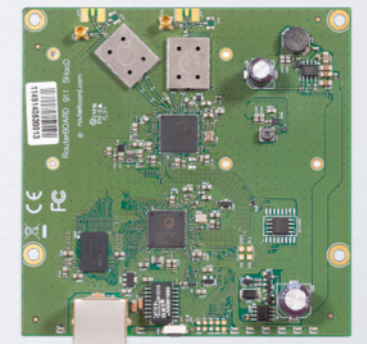
Wireless for Home & Office



Wireless Systems



Switches



RouterBOARDs

# What we do

- MikroTik provides routing and wireless equipment for all possible uses: wireless, ethernet routing, switches
- Our RouterOS software supports most common and also many custom made features



# RouterOS

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



# Why us

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

# PRODUCT SERIES



# ETHERNET ROUTERS

From small to big, for every need.  
RouterBOARD and CCR series.  
Desktop and rack mount.

# hEX lite

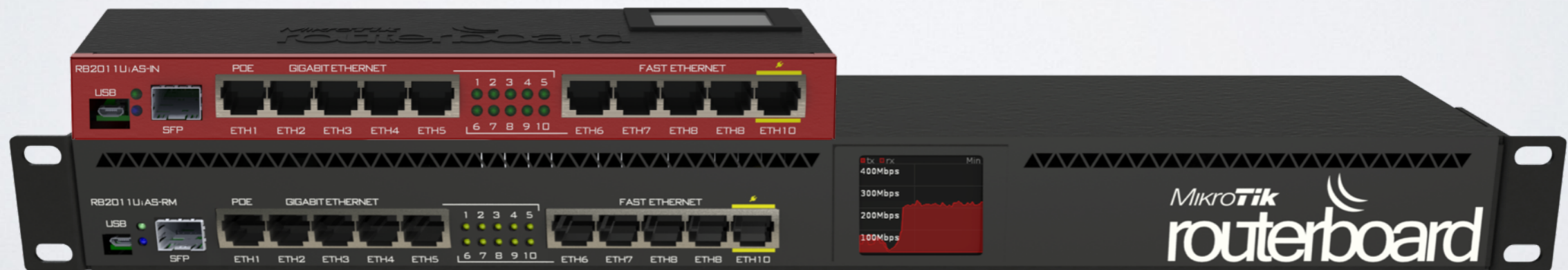
- Small Ethernet device
- Five ports
- Power output version (hEX PoE lite)





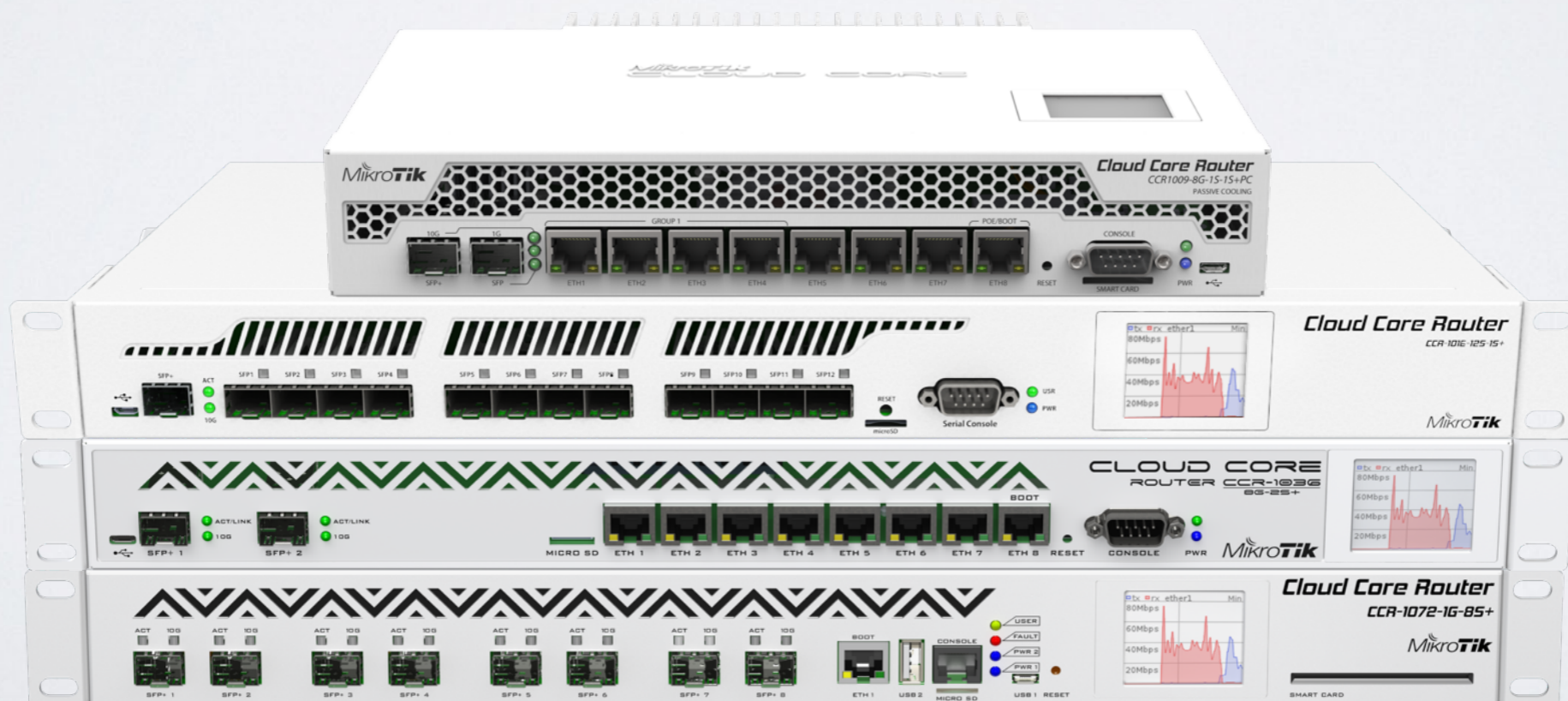
# RB2011 and RB3011

- Rack mount 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
- 1 Gbps Ethernet, SFP and SFP+ ports





# CCR series

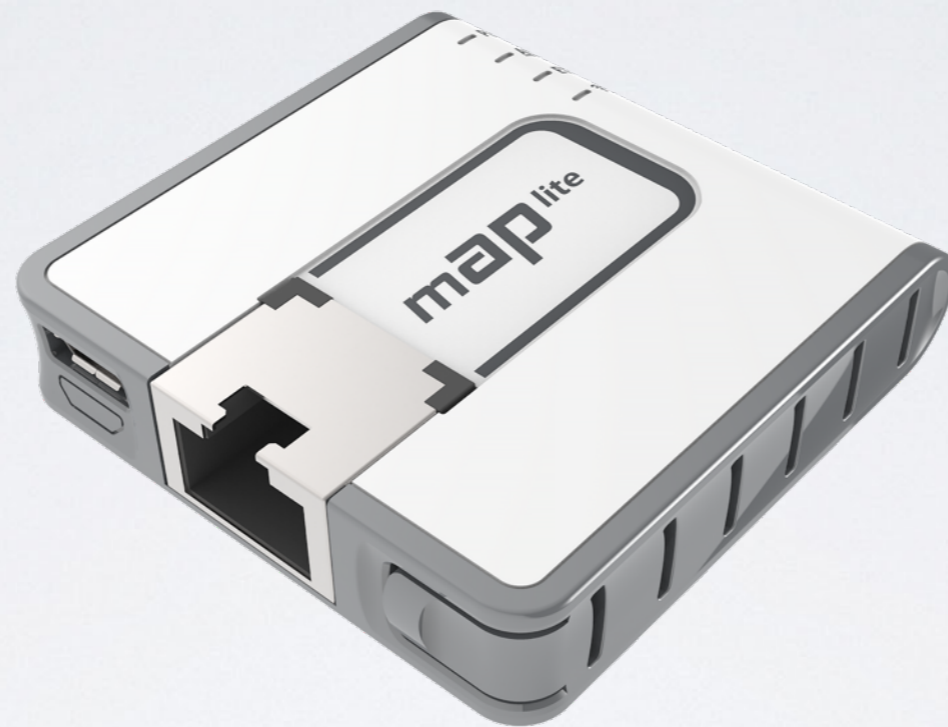
<b>CCR1072-1G-8S+</b>		<b>Tile 72 Core (1000Mhz, DDR1600) Max possible throughput</b>					
<b>Mode</b>	<b>Configuration</b>	<b>1518 byte</b>		<b>512 byte</b>		<b>64 byte</b>	
		<b>kpps</b>	<b>Mbps</b>	<b>kpps</b>	<b>Mbps</b>	<b>kpps</b>	<b>Mbps</b>
Bridging	none (fast path)	6,502.0	<u>78,960.3</u>	18,790.0	76,963.8	98,873.5	50,623.2
Bridging	25 bridge filter rules	5,764.8	70,007.7	8,240.2	33,751.9	8,866.3	4,539.5
Routing	none (fast path)	6,502.0	78,960.3	18,790.0	76,963.8	76,201.0	39,014.9
Routing	25 simple queues	6,502.0	78,960.3	11,073.5	45,357.1	11,444.4	5,859.5
Routing	25 ip filter rules	4,664.7	56,648.1	5,200.3	21,300.4	5,321.0	2,724.4

<b>CCR1036-8G-2S+EM</b>		<b>Tile 36 core max possible throughput test</b>					
<b>Mode</b>	<b>Configuration</b>	<b>1518 byte</b>		<b>512 byte</b>		<b>64 byte</b>	
		<b>kpps</b>	<b>Mbps</b>	<b>kpps</b>	<b>Mbps</b>	<b>kpps</b>	<b>Mbps</b>
Bridging	none (fast path)	2275.7	<u>27636.1</u>	6578.9	26947.2	41666.7	21333.4
Bridging	25 bridge filter rules	2275.7	27636.1	5179.7	21216.1	5163.5	2643.7
Routing	none (fast path)	2275.7	27636.1	6578.9	26947.2	41666.7	21333.4
Routing	25 simple queues	2275.7	27636.1	6553.3	26842.3	7643.1	3913.3
Routing	25 ip filter rules	1825.7	22171.3	3033.9	12426.9	3049.7	1561.4

# WIRELESS FOR HOME & OFFICE

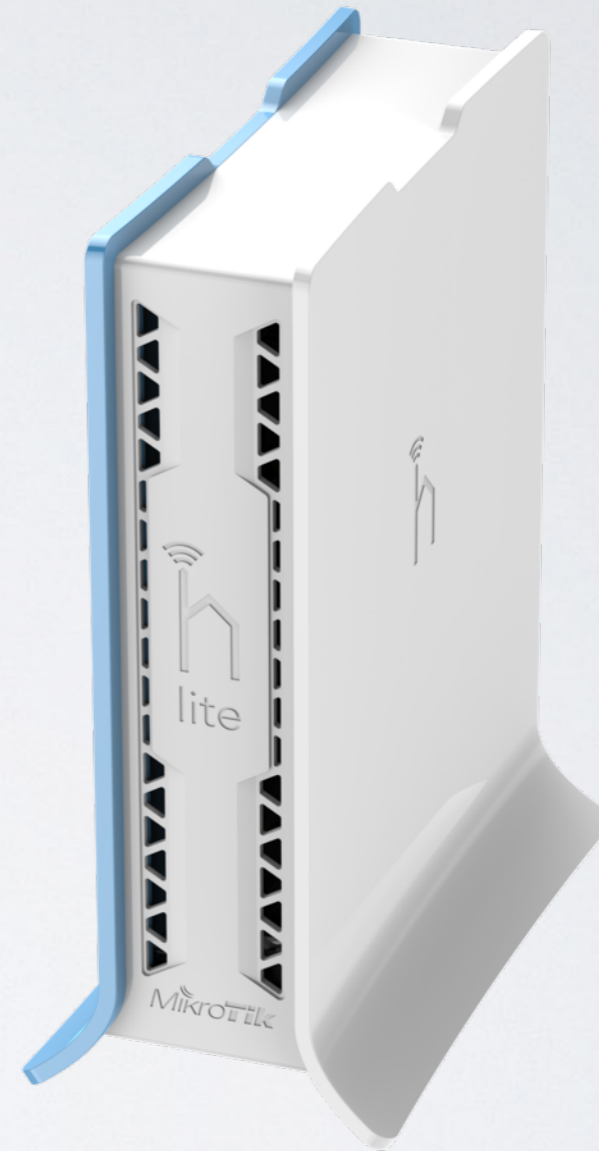


# mAP lite



Tiny size 2.4GHz Dual Chain personal access point with a 650MHz CPU, 64MB RAM and one Ethernet

# hAP lite



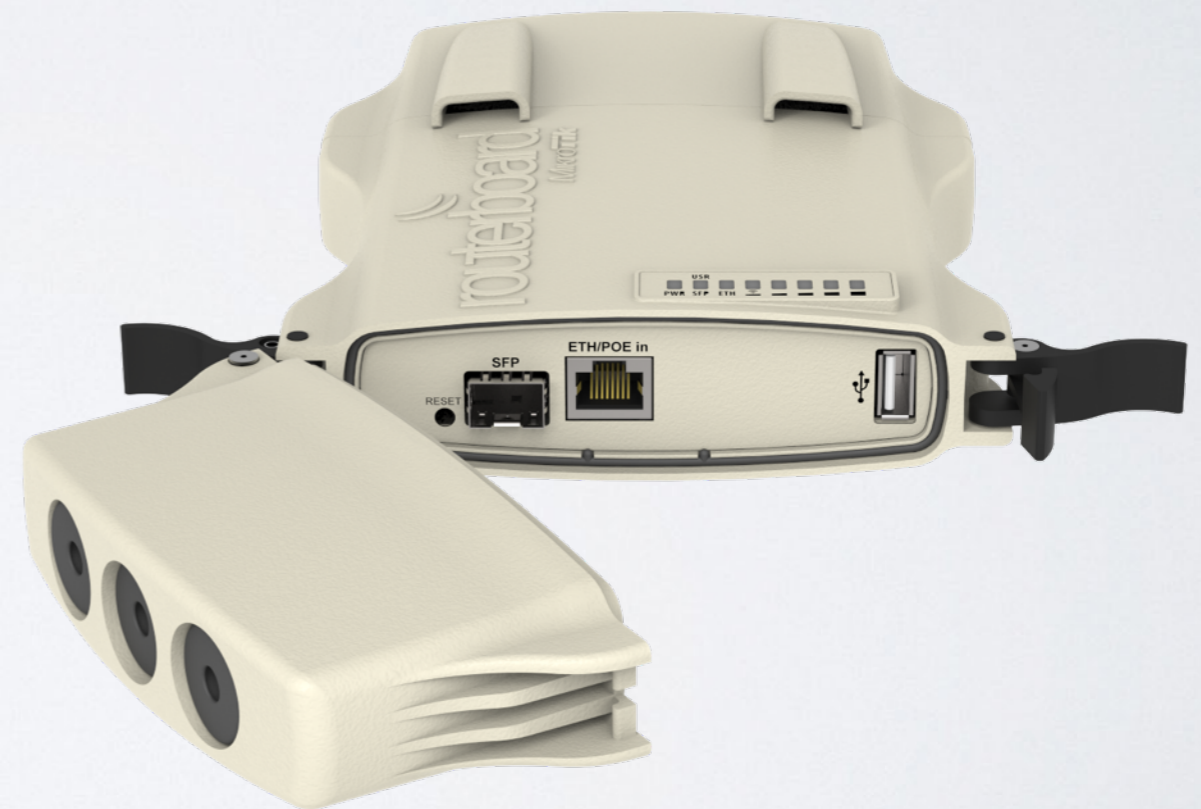
Small and nice design. Low cost, for home or office



# 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



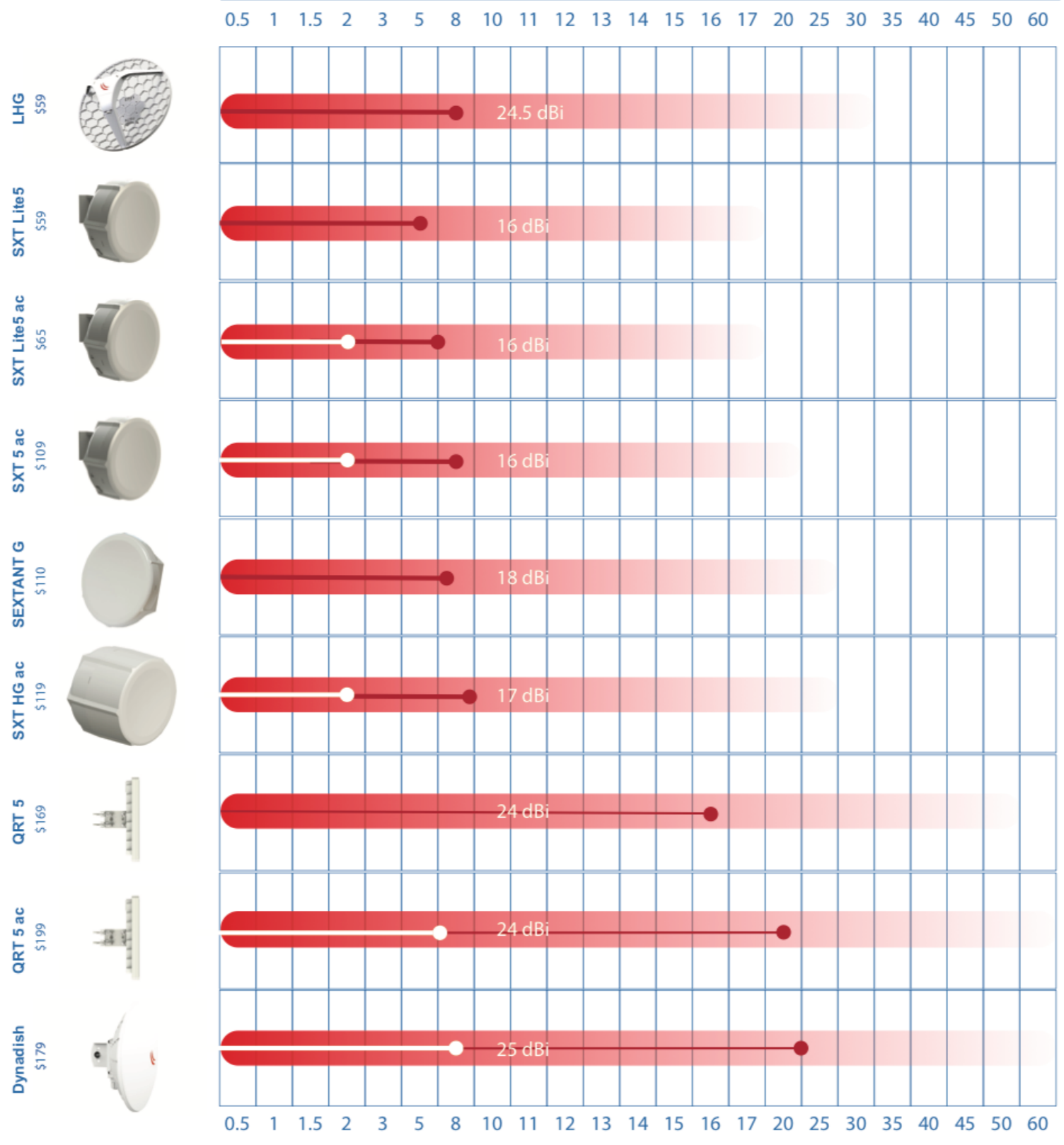
# DynaDish

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





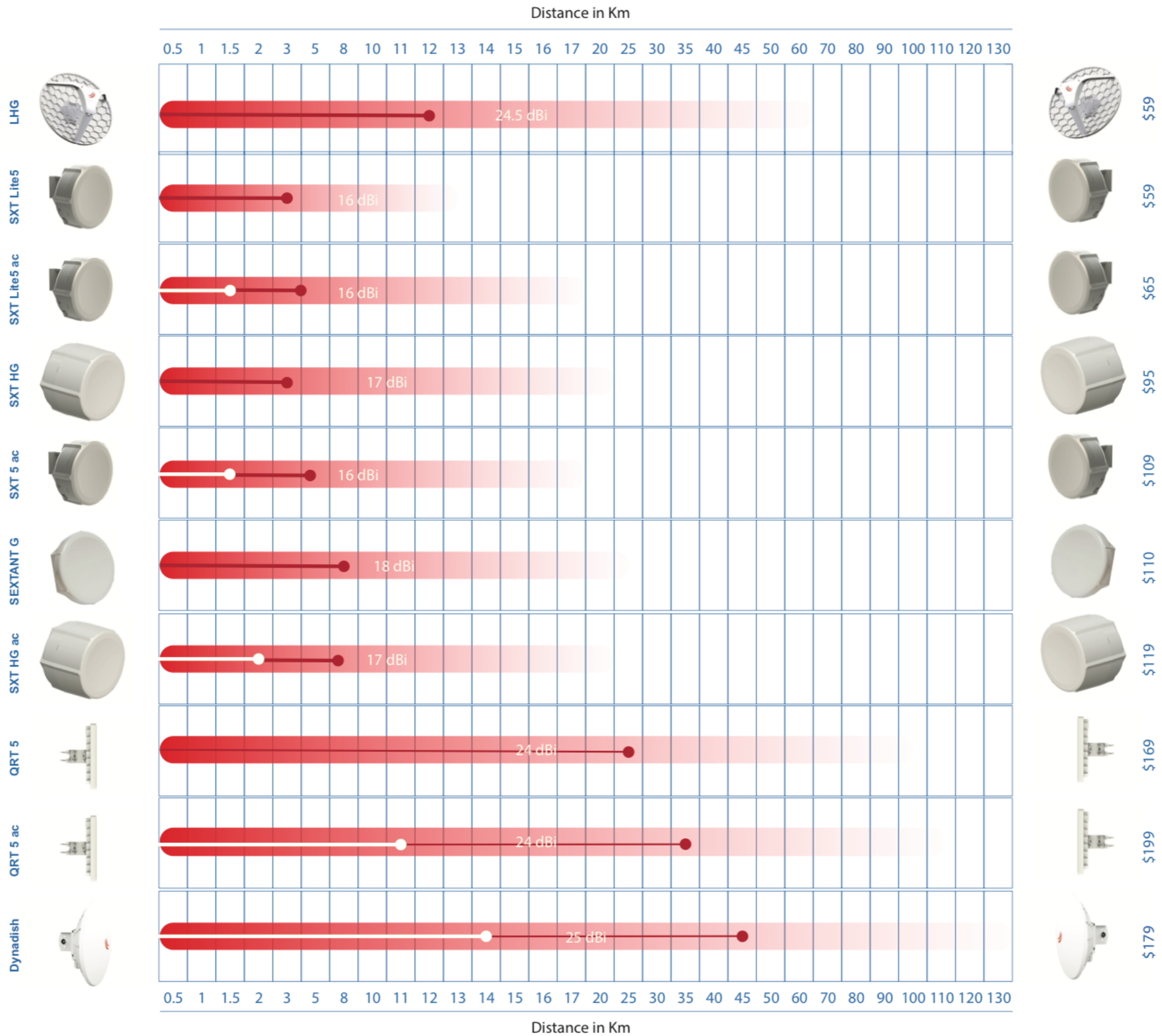
Distance in Km



Distance in Km

- Distance at max supported 802.11ac data rate (eg. 866Mbit)
- Distance at max supported 802.11n data rate (eg. 300Mbit)
- ▬ Max range at -70 signal

Note: line of sight, interference, alignment, weather and other outside factors will affect the wireless link performance and possible distance



○ Distance at max supported 802.11ac data rate (eg. 866Mbit)      ● Distance at max supported 802.11n data rate (eg. 300Mbit)      ▬ Max range at -70 signal

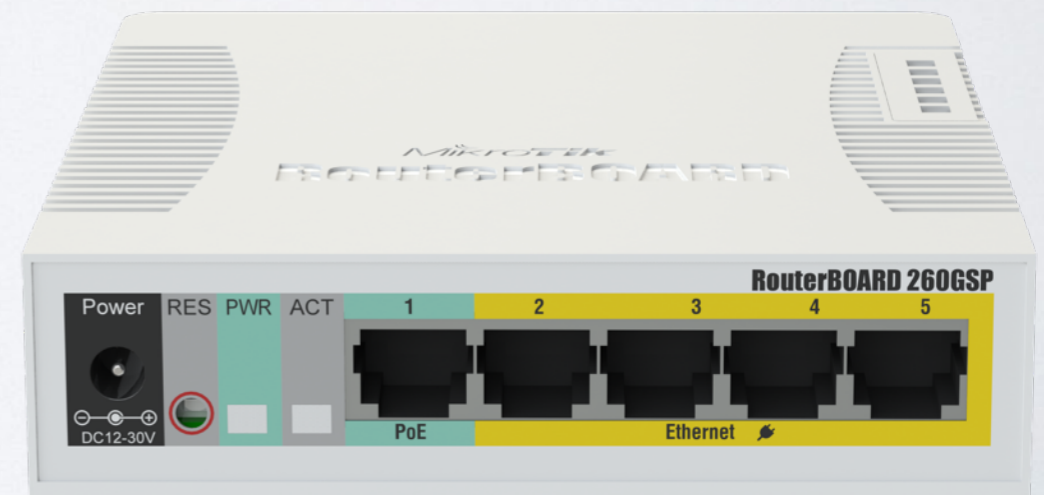
Note: line of sight, interference, alignment, weather and other outside factors will affect the wireless link performance and possible distance



# SWITCHES

# RB260GSP

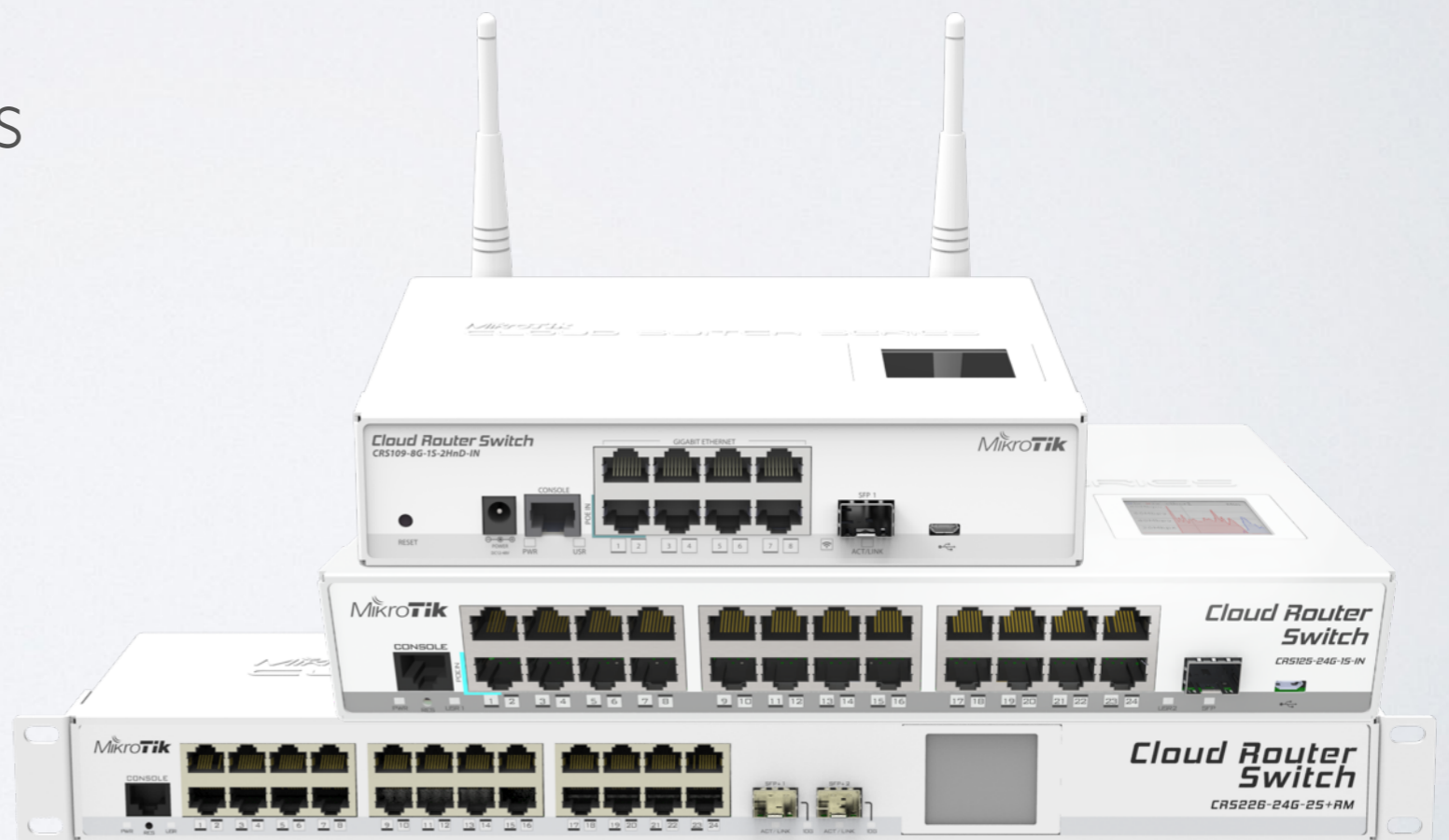
- Small switch
- Runs SwOS software
- Powers other devices over PoE





# CRS Series

- Layer 3 switches
- Run MikroTik RouterOS
- From 8 to 24 ports
- Gbit Ethernet
- SFP/SFP+
- Wireless

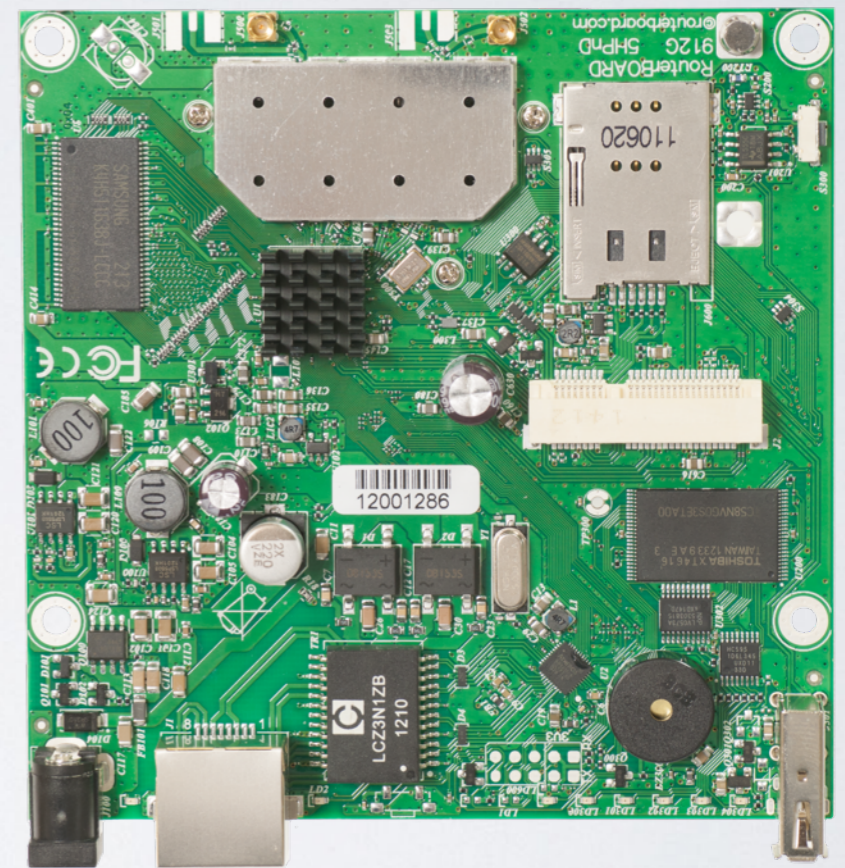


ROUTERBOARD



# RouterBOARD

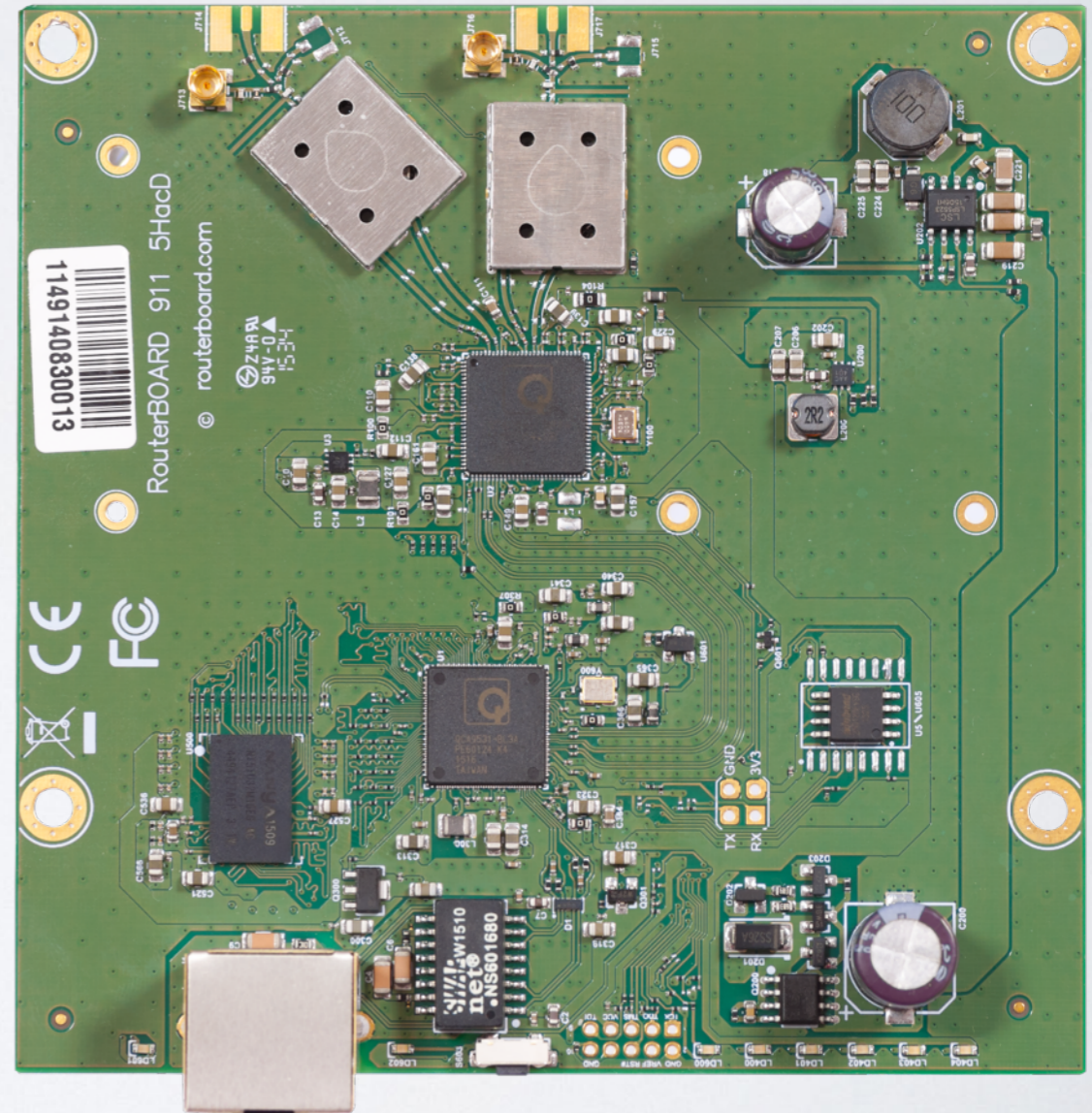
- Use custom case
- Upgrade or expand with ease
- Choose model based on ports, features and speed





# RB911ac

- 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
- Radome cover





NEW PRODUCTS

# LHG 5

Light Head Grid

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

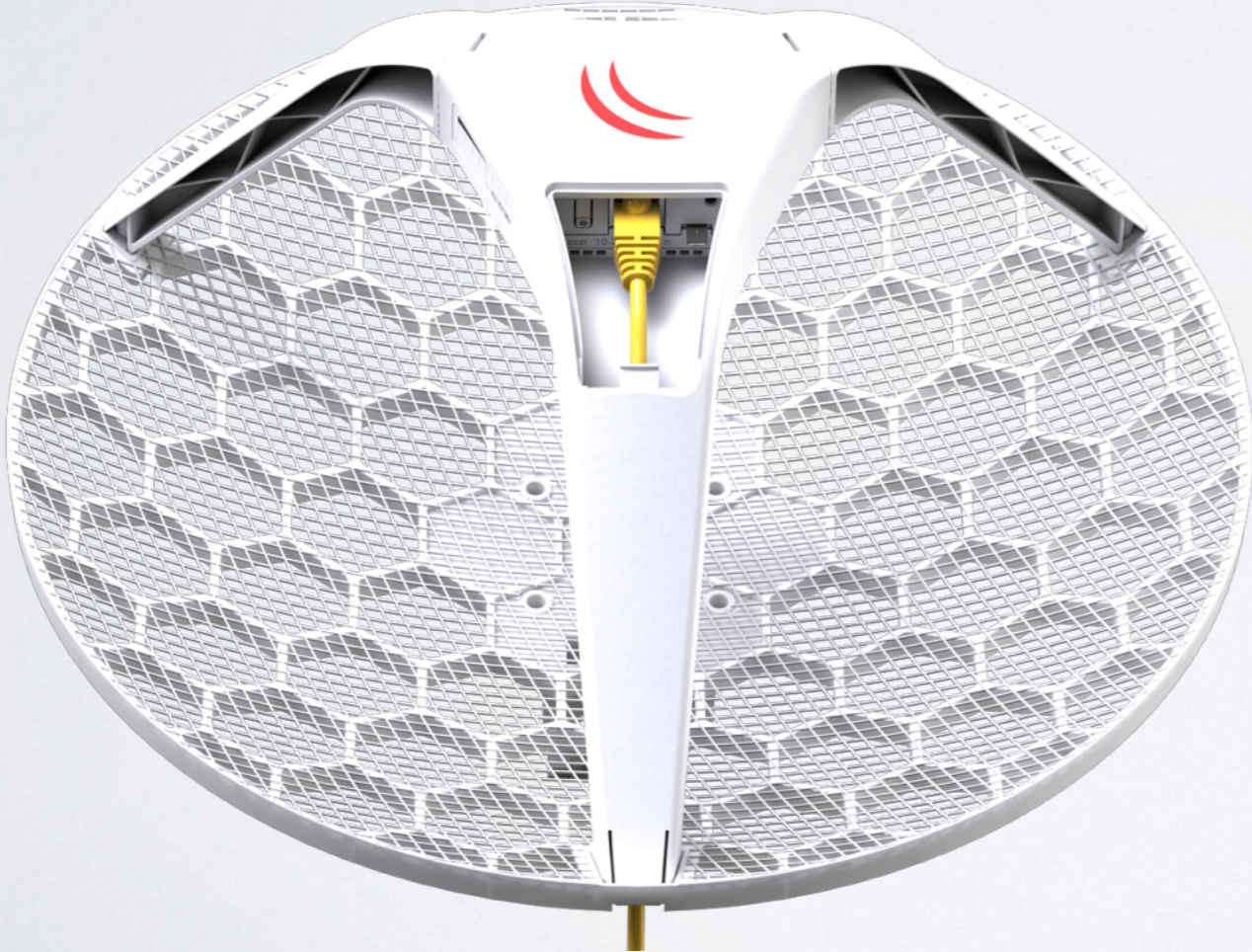




now

# LHG 5

Light Head Grid





# quickMOUNT pro LHG

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





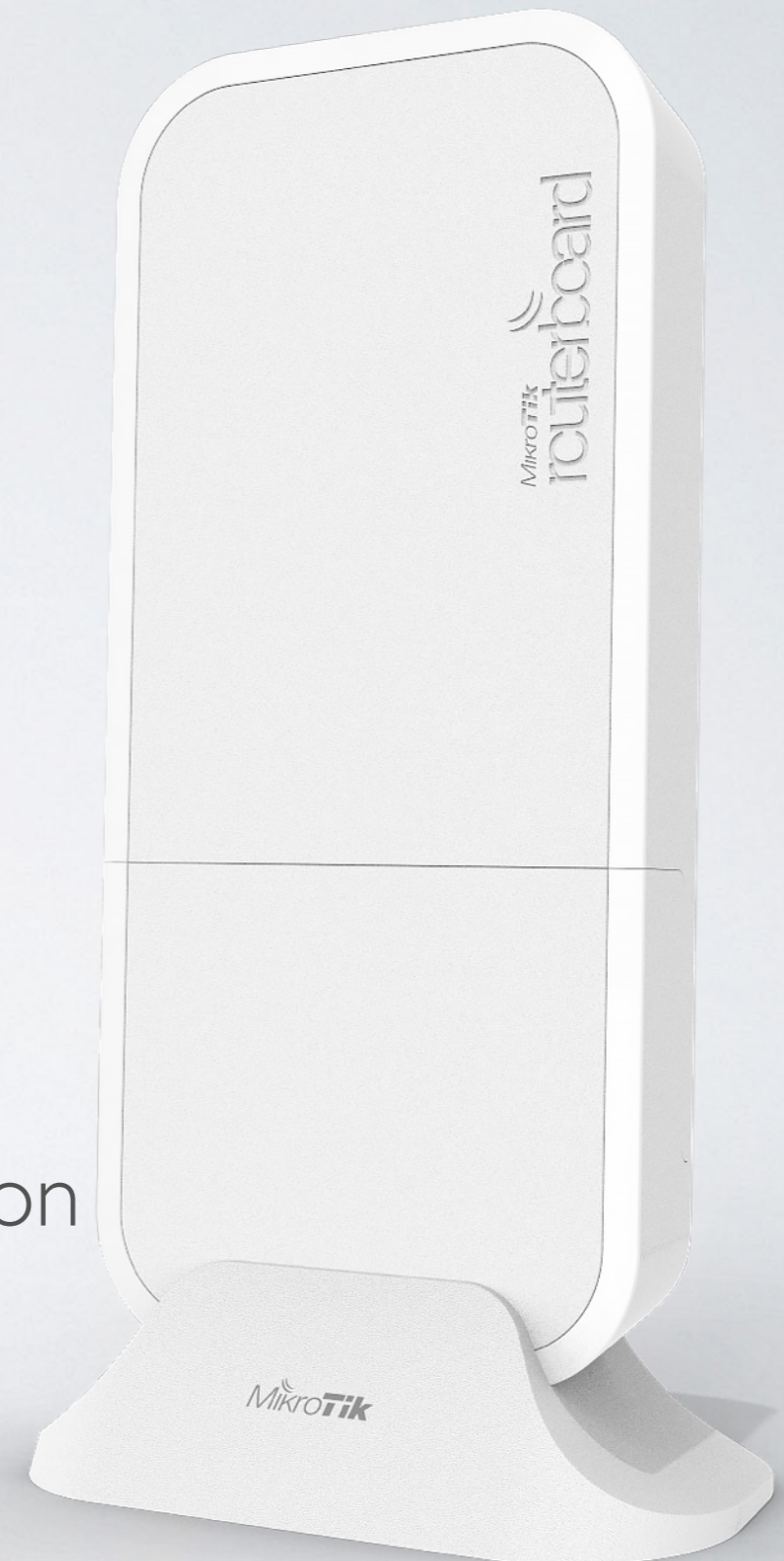
# SXT LTE

- LTE 3 category modem
- 100Mbps download and 50 Mbps upload
- LTE FDD bands 3 (1800MHz)
- miniSIM slot



# wAP LTE kit

- 2GHz wireless
- LTE antennas
- LTE modem within minipci-e
- weatherproof case
- indoor, outdoor, mobile operation
- more information at Uldis presentation





# mANTBox 15s

- 15 dBi | 20 degree antenna
- RB921 inside
- 720MHz CPU power
- 802.11 ac/a/n wireless with 31 dBm output power



now

# mANTBox 19s

- 19 dBi | 20 degree antenna
- RB921 inside
- 720MHz CPU power
- 802.11 ac/a/n wireless with 31 dBm output power





# Groove 52 ac



- ac update for the popular Groove model



# Metal 52 ac



- Waterproof, rugged with a super high output power
- 802.11 b/g/n and 802.11 a/n/ac, 1xGigabit Ethernet

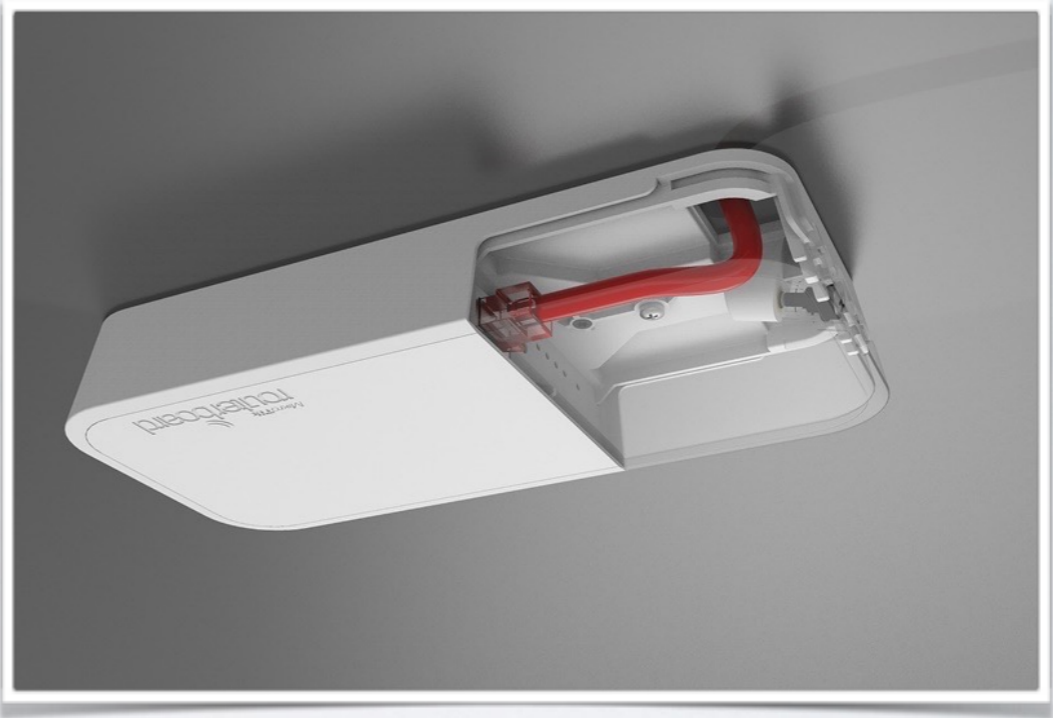


# mAP



- update for small AP, dual chain 2.4GHz wireless
- 802.3 af/at support, PoE out!

# wAP ac



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



# cAP



- ceiling AP, dual chain 2.4GHz wireless
- 802.3 af/at support

# hAP ac lite

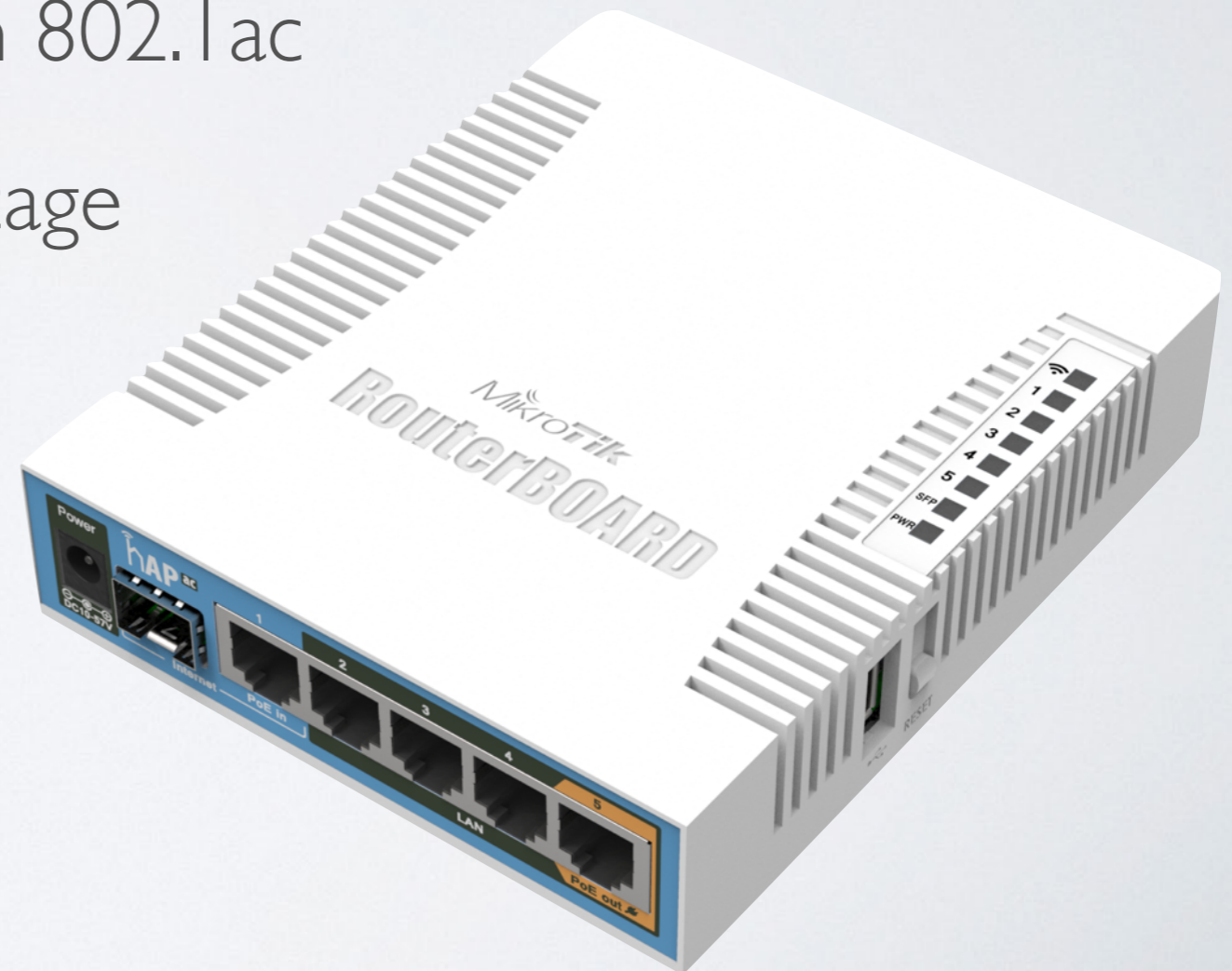
- Dual concurrent home AP
- 2.4GHz high power 2 chain 802.11n
- 5GHz high power 1 chain 802.11ac
- 100Mbps port
- 650MHz CPU
- PoE-out on port 5



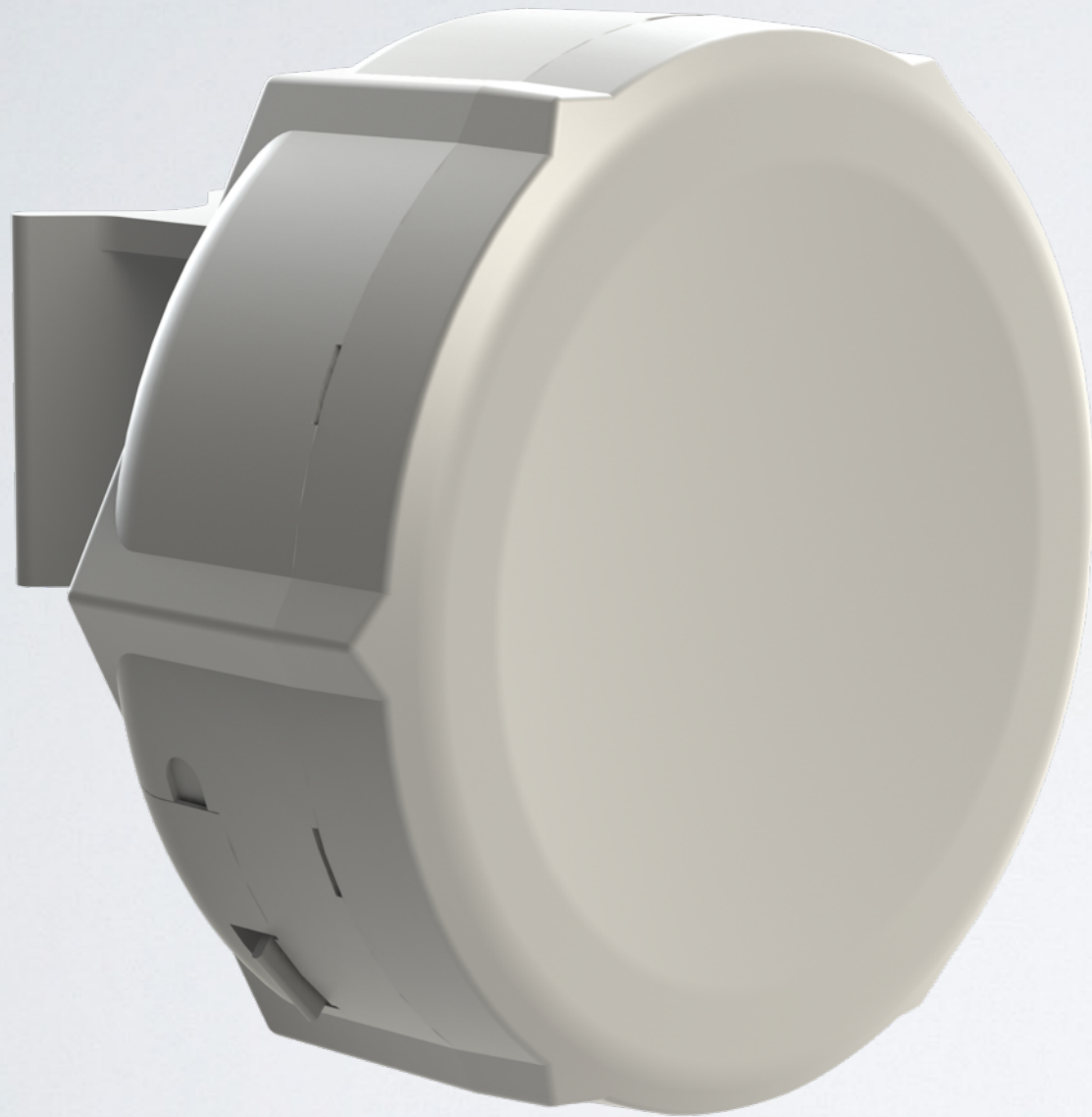


# hAP ac

- Gigabit dual concurrent home AP
- 2.4GHz high power 3 chain 802.11n
- 5GHz high power 3 chain 802.11ac
- 5x1 Gbps ports & 1 SFP cage
- 720MHz CPU
- PoE-out on port 5



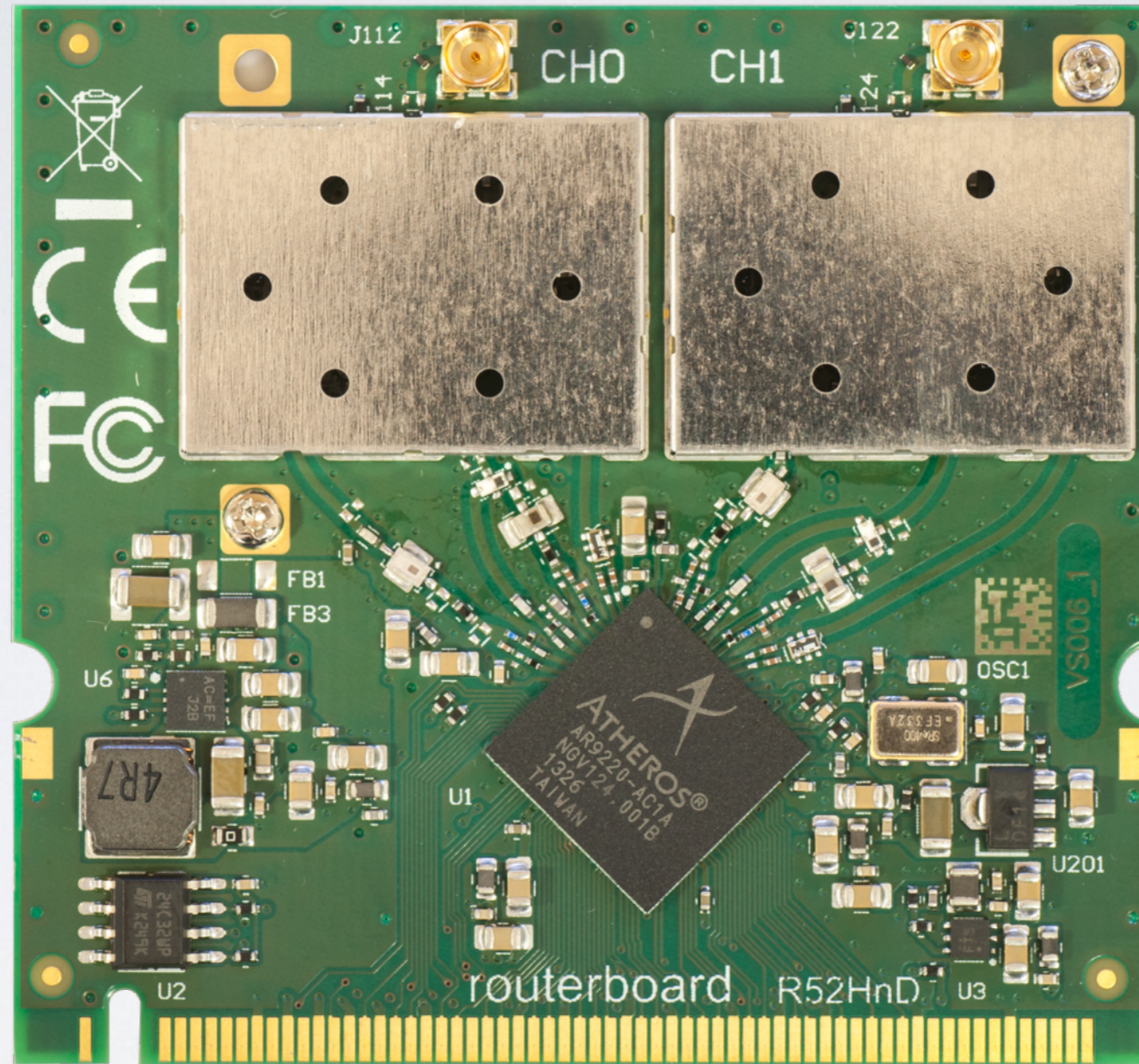
# SXT 6GHz



- 5940-6500 MHz range
- 802.11 a/n
- Antenna gain 16dBi
- Antenna beam width 28



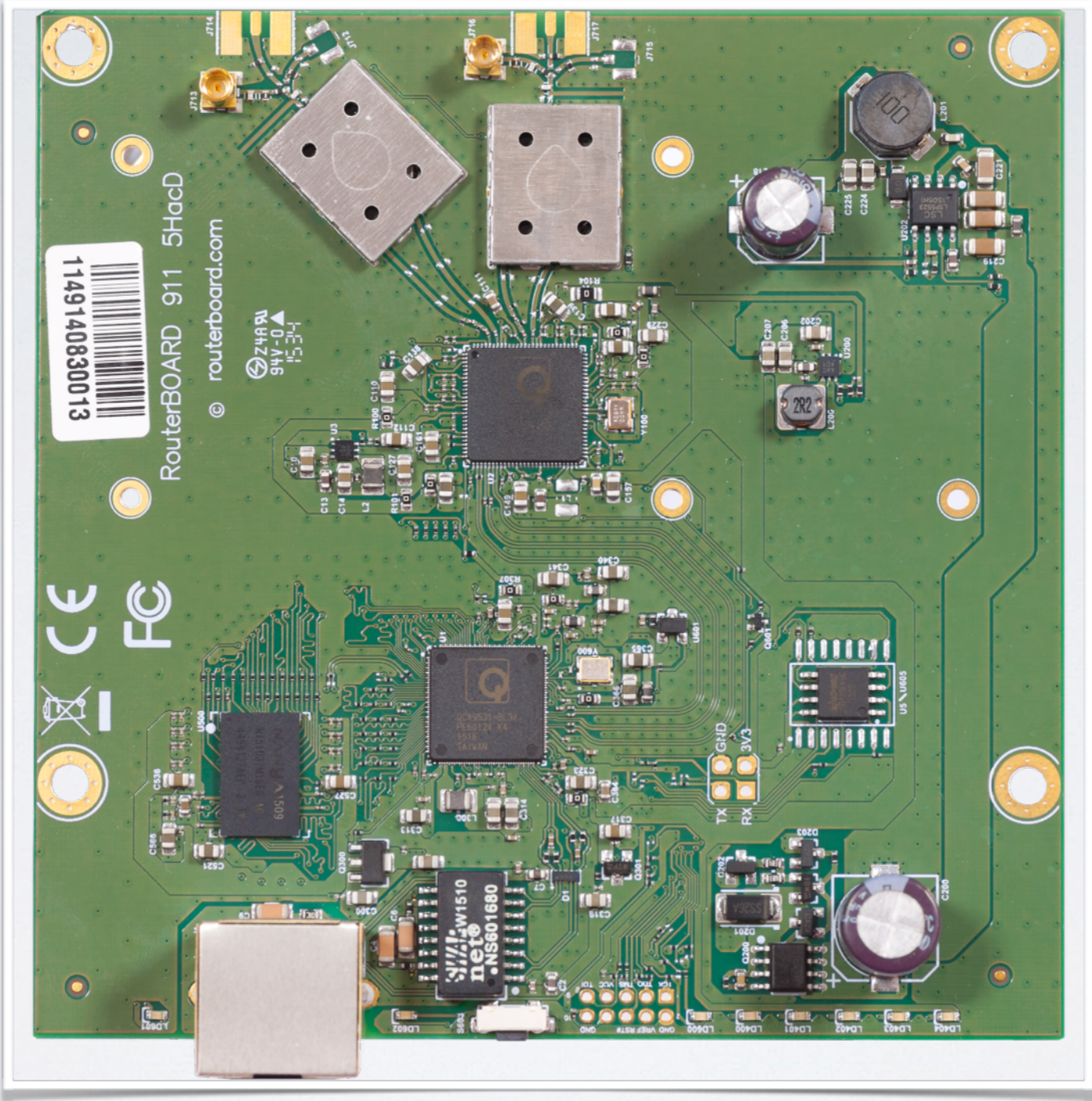
# R52HnD



tx-power 26 dbm, R52H replacement



# 911 Lite 5ac

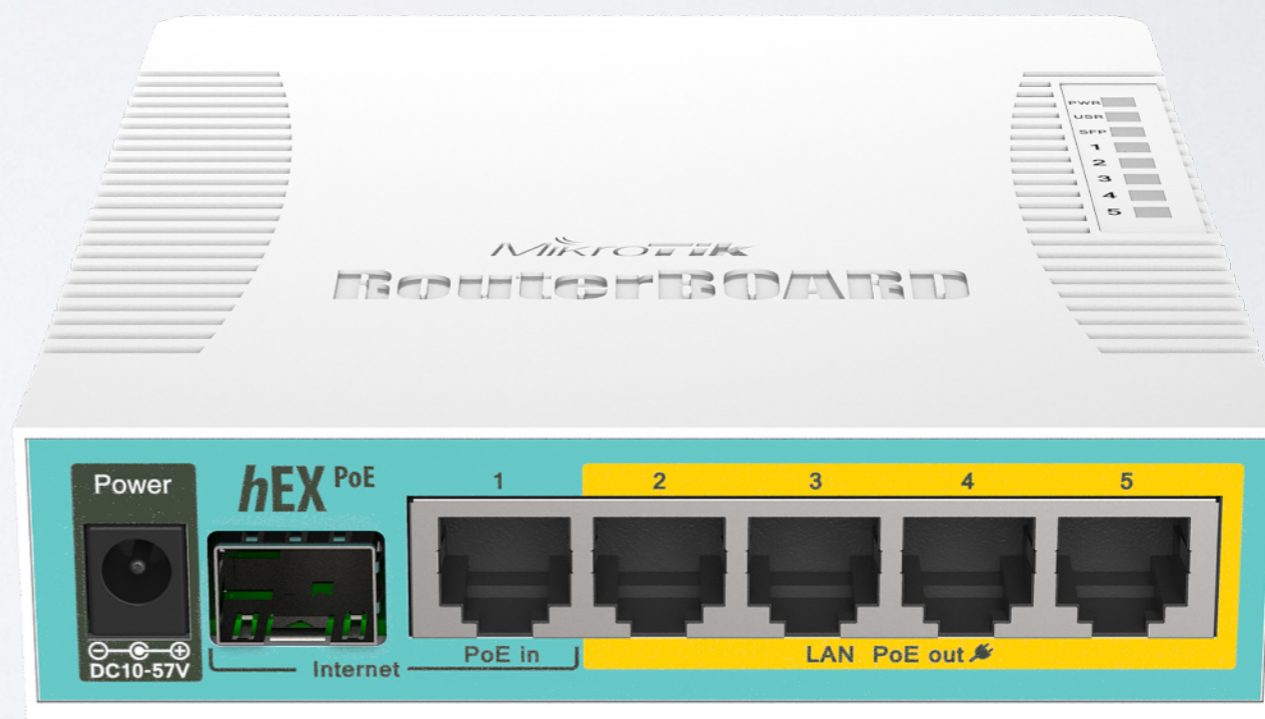


ac update for extremely affordable board



# hEX PoE

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



# OmniTIK 5 ac

- 802.11ac, 2 chains
- 5x1 Gbit Ethernet ports
- 7.5 dBi
- PoE in





# OmniTIK 5 PoE ac

- 802.11ac, 2 chains
- 5x1 Gbit Ethernet ports
- 7.5 dBi
- PoE in
- PoE out (ports 2-5)



# All Products

- Include free software upgrades for life
- Run the same RouterOS software\*
- For more info see [\*\*routerboard.com\*\*](https://www.routerboard.com)

\*Except RB260GS (SwOS)



# ROUTEROS FEATURES

# CHR

## Cloud Hosted Router

- 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

## AWS Marketplace

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Tag Instance

6. Configure Security

### Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch an instance in a specific AWS Region. You can create your own AMIs, use an AMI from the AWS Marketplace, or you can select one of your own AMIs.

Quick Start

My AMIs

**AWS Marketplace**

Community AMIs

▼ Categories

All Categories

Software Infrastructure (1)

🔍 Mikrotik

*MikroTik*

Free tier eligible

#### Cloud Hosted Router

★★★★★ (0) | 6.34.1 | Sold by [MikroTik](#)

**Bring Your Own License** + AWS usage fees

Linux/Unix, Other 6.34.1 | 64-bit Amazon Machine Image (AMI) | Updated: 4/7/16

Use the CHR for protecting your cloud servers using RouterOS firewall, for running your own VPN service or ...

[More info](#)

# CHR

## Use cases

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



# CHR

## Licensing

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

- 60 day trial available
- Purchased license can be transferred

# CHR

## Licensing

1

Licence

System ID: 6LR1ZP/utuJ

Level: free

Next Renewal At:

Deadline At:

Limited Upgrades

OK

Generate New ID

Renew Licence

2

Licence

System ID: 6LR1ZP/utuJ

Level: P1

Next Renewal At: Jan/10/2016 21:59:59

Deadline At: Feb/09/2016 21:59:59

Limited Upgrades

OK

Generate New ID

Renew Licence

Renew Licence

Account: mymikrotikcomaccount

Password: \*\*\*\*\*

Level: P1

Start

Stop

Close

done

WinBox → System → License



# CHR

## Licensing

3



### Routers & Wireless

Search...

[home](#)

[software](#)

[hardware](#)

[support](#)

[downloads](#)

[purchase](#)


[training](#)

**[account](#)**

[Overview](#) [Support](#)

[Logout](#)

#### Account Notices

 You must approve your account for creditcard purchases.

[Account authorisation procedure](#) >>>

Current account balance is **\$0**

Prepaid keys available: **0**

#### Generate a NEW software KEY

- purchase a key
- make a demo key

#### For already created software keys

- all keys **or** *try search*
- replacement key (0)
- request key from another account

#### Cloud Hosted Router (CHR)

- all keys
- orders and invoices

#### Account information

- balance
- change user information
- **hardware orders**

#### Training

- my training sessions(0)
- my certificates(0)
- MikroTik User Meeting

#### Support

- support contact form
- supout.rif viewer

#### Other

- lockpack creator

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

# CHR

## Licensing


4

[Back To Main Menu]

### User Keys

Show **10** entries

Search:

System ID	Key	Issued	Expires	Level	Transfer	Action	Note
6IR1ZP/utuJ	-----BEGIN MIKROTIK SOFTWARE KEY----- alnRyhu6h1VqzR4xfrXcyP3MB4BysaE1qMBikaNodTDLHTUK8ppNxddOGCebjU6n1WwL7hsDsfwZcMFA==----- END MIKROTIK SOFTWARE KEY-----	2015-12-09	2016-02-09	P1-Perpetual (Trial version)		<b>Upgrade</b>	

Previous **1** Next



# CHR

## Licensing

5

### Upgrade system license ?

**System ID**      **Level**

6IR1ZP/utuJ

- ✓ Select level
- P1-Perpetual (\$ 45.00 )
- P10-Perpetual (\$ 95.00 )
- P-Unlimited (\$ 250.00 )

System 6IR1ZP/utuJ  
Perpetual Trial version

**You have following prepaid balance keys available to purchase a CHR license:**

P1-Perpetual - 4 keys

[Back](#)

6

### Payment ?

You have selected:      **P1-Perpetual**  
System ID                    **6IR1ZP/utuJ**  
Total price:                    **\$ 54.45**

[Pay using deposit \(left: \\$ 73.51\)](#)

[Pay using CC](#)

[Pay using PayPal](#)

[Pay using Balance key \(4\)](#)

***Note:** Price includes VAT 21% because you have specified EU country as your residence. To avoid this you have to enter your VAT registration number in your account settings.*

[Back](#)

# CHR

## Cloud Hosted Router

- 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#chr>



RouterOS v6.36 changelog

**146** line

# Wireless in v6.37

- New wireless package 'wireless'
- Read changelog before upgrade!
- DFS mode changed, all devices will be with `dfs=radar-detect`
- Improved driver and more come to Uldis presentation



# DNS at address-list

- add DNS name to address-list, router will find addresses automatically
- set appropriate rules at firewall

The screenshot shows the Mikrotik WinBox Firewall configuration interface. The 'Address Lists' tab is active, displaying a table of address lists. A dialog box titled 'Firewall Address List <filter\_youtube>' is open, showing the configuration for a new address list named 'filter\_youtube' with the address 'youtube.com'. The status 'enabled' is shown at the bottom of the dialog.

Name	Address	Timeout
filter_you...	youtube.com	
filter_...	195.122.16.49	
filter_...	195.122.16.44	
filter_...	195.122.16.35	
filter_...	195.122.16.54	
filter_...	195.122.16.25	
filter_...	195.122.16.20	
filter_...	195.122.16.45	
filter_...	195.122.16.30	
filter_...	195.122.16.55	

Firewall Address List <filter\_youtube>

Name: filter\_youtube  
Address: youtube.com  
Timeout:   
enabled

Buttons: OK, Cancel, Apply, Disable, Comment, Copy, Remove

# The Dude v6.x

- Dude is back
- v6. server support at CCR/x86 and RB3011
- fixes and new features development
- more information at 13:45 workshop



# 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

# Need Help?

## Official MikroTik distributors in India:

**Asia**

<p><b>Multilink Computers</b> New Delhi, <b>India</b> Tel: North India: +91 9810083595, East India: +91 9310044400, West India +91 9310157692, South India: +91 9560089119 <a href="#">Write e-mail</a></p>	<p><b>Tara Consultants Pvt Ltd</b> Nehru Place, New Delhi, <b>India</b> Tel: 011-46570273, 91-9811686026 <a href="#">Write e-mail</a></p>	<p><b>JRS Communication Pvt Ltd.</b> New Delhi, Gujrat, Kolkata, Hyderabad, Chennai, <b>India</b> Tel: 9311107222, 9910903463 <a href="#">Write e-mail</a></p>
<p><b>RAH Infotech</b> Mumbai, <b>India</b> Tel: 91 9899164651/ 91 9310536849 <a href="#">Write e-mail</a></p>	<p><b>ACE MICROELECTRONICS</b> New Delhi, <b>India</b> Tel: 9717676502 <a href="#">Write e-mail</a></p>	<p><b>Vishal Trading</b> Nehru Place, New Delhi, <b>India</b> Tel: 919214842409, 917742444426 <a href="#">Write e-mail</a></p>
<p><b>Saibaba Infocom</b> Mumbai, <b>India</b> Tel: +91 9920383926 <a href="#">Write e-mail</a></p>	<p><b>Rahul Industrial Enterprises Pvt Ltd</b> Kolkata, Chennai, Bangalore, Hyderabad, <b>India</b> Tel: 098300 64573 , 033-2212 1522 / 1523 <a href="#">Write e-mail</a></p>	<p><b>Microsense Networks Private Ltd.</b> Ekkattuthangal, <b>India</b> Tel: +91-9790988416 <a href="#">Write e-mail</a></p>

<http://www.mikrotik.com/buy/asia/india>



# Need Help?

## Official MikroTik consultants in India:

### **Muralikrishna Kema**

**MTCINE, MTCNA, MTCRE, MTCTCE, MTCWE**

Hyderabad , Bangalore , Tamil Nadu, **India**

ISP / Carrier networks design, Hotspot,QoS,OSPF, BGP,MPLS,Traffic Engineering. Wireless PtP and PtMP,Campus Wifi,Network Security Other advanced configurations Configure & Manage NMS, Gpon /Epon/ Switching L2 & L3 Mikrotik/Huawei Infrastructure ISP-VOIP Implementation, Billing, DID ,Trunking ,LCR, PBX, Load balance, large Scale Deployments. IPTV Implementation, Live Streaming, Video on Demand, Scalability for Any Size Audience

Tel: 09346732544

[Write e-mail](#)

Web: [www.ctrltik.com](http://www.ctrltik.com)

### **Manoj Kumar** MUM

**MTCNA, MTCRE, MTCTCE, MTCWE**

Faridabad, **India**

Wireless Networks: desing, implementation, analysis & troubleshooting of WLAN, PtP and PtMP. High-Speed Wireless Links. Tunnel and VPN (IPSec, PPTP, L2TP) Bridging & Routing (Dymamic and Static). Firewall (Filtering Policies) . Hotspot, PPPoE, Queueing, Bandwidth Management, Firewall, Security. Hotspot, WISP administration experience, Load balancing, Advanced Wireless Security, > > Bridging, STP RSTP, WDS, Mesh, Network Monitoring, Caching and WebProxy,Remote Assistance and on-site Support.

Tel: +919818763764

[Write e-mail](#)

### **Dawinder Singh**

**MTCNA, MTCRE, MTCTCE**

Amritsar, **India**

Tel: 91-9814138141

[Write e-mail](#)

Web: [www.webtecz.com](http://www.webtecz.com)

<http://www.mikrotik.com/consultants/asia/india>

PARTNERSHIP



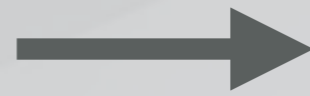
# How to Participate

- 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

# PARTNERSHIP PROGRAMS

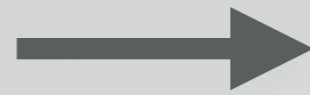
Knowledge

Consultant



Configures and helps

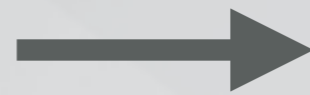
Training center



Certifies and advances

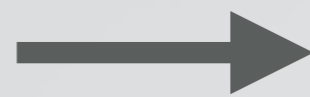
Products

Distributor

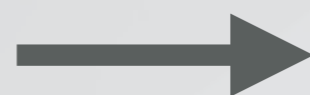


Offers products and services

Reseller



Buys from Distributor and resells



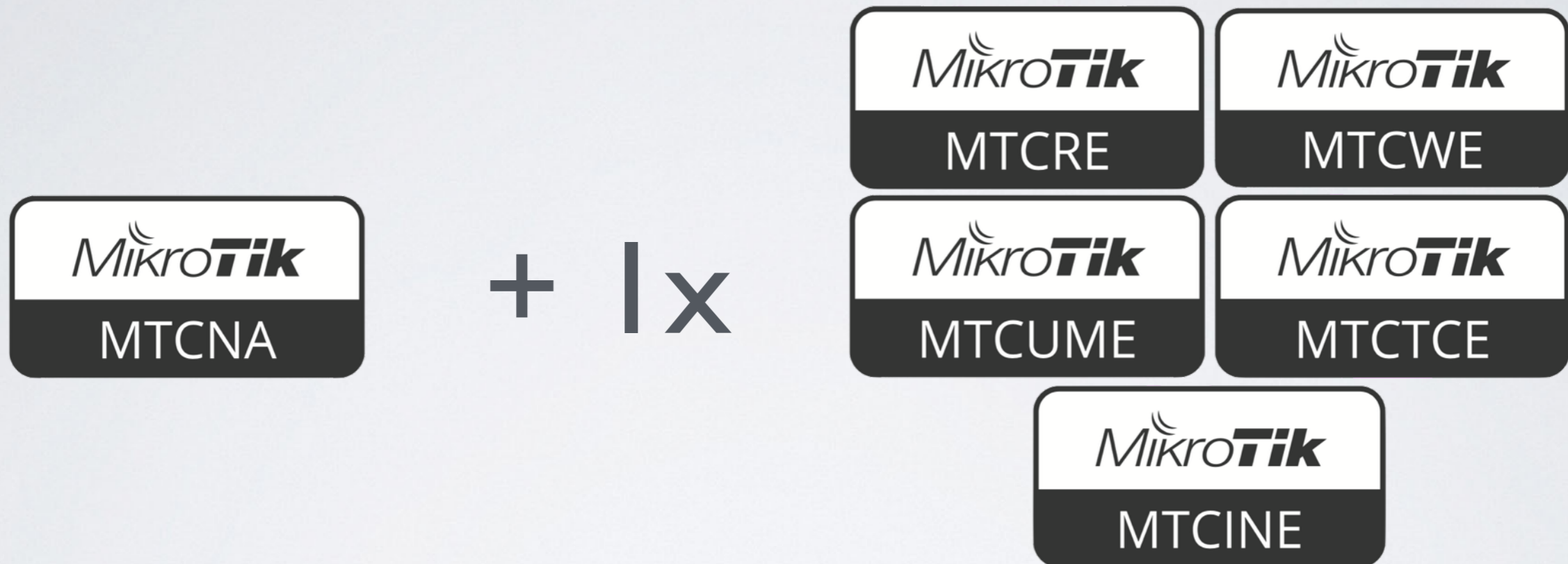
Accessories, integrators, software



# WHO?

- Experienced network engineers
- Profound RouterOS and RouterBOARD knowledge

# HOW?



Result: 75%+

[sales@mikrotik.com](mailto:sales@mikrotik.com)



# WHERE?

The screenshot shows the Mikrotik website navigation menu. The 'support' menu item is circled in red, and a red arrow points to it. Below it, the 'Consultants' sub-menu item is also circled in red. Below the navigation is a map titled 'List of MikroTik Certified Consultants' showing the number of consultants in various countries. The map uses yellow circles for higher counts and green circles for lower counts.

Country	Number of Consultants
Costa Rica	39
Peru	36
Paraguay	31
Uruguay	19
Argentina	11
Nigeria	12
Caracas	7
Brazil	8
Sierra Leone	6
South Africa	2

[mikrotik.com/consultants](http://mikrotik.com/consultants)

Consultant

+

MikroTik  
Train the Trainer

=

The logo features the word "MikroTik" in a stylized, italicized font with a curved line above the "i". Below it, the words "TRAINING CENTER" are written in a bold, sans-serif font inside a black rectangular box.

**MikroTik**  
TRAINING CENTER

Training courses developed by MikroTik



# WHO?

- MikroTik certified trainers
- Training according to official outline
- Develop their own training materials

# HOW?

- Motivation to teach!
- At least 2 MikroTik certificates, 75%+
- Pass Train the Trainer course





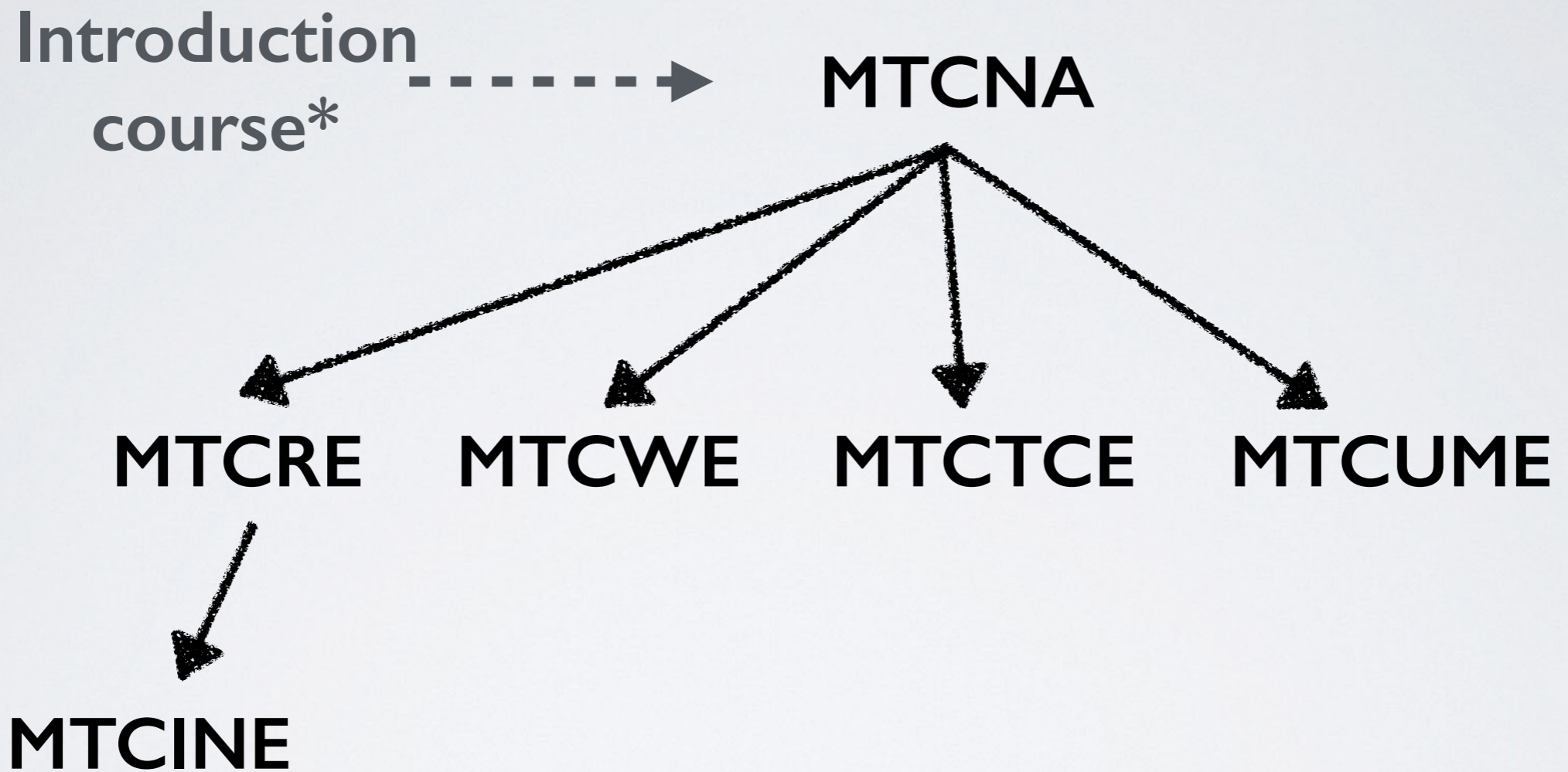
- Courses developed by MikroTik
- We offer certification tests
- Publish training schedule on our website

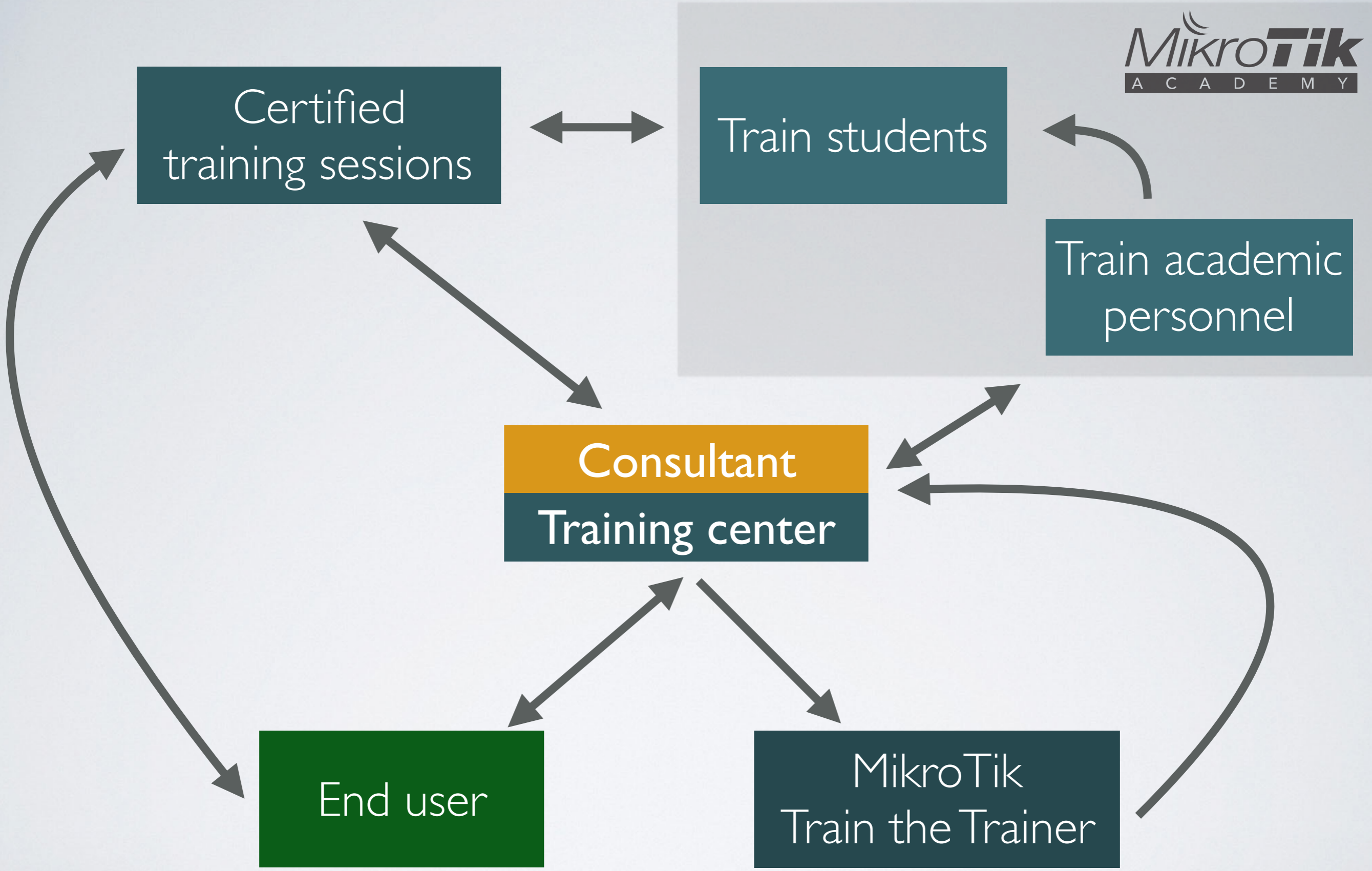
# MIKROTIK COURSES

MTCNA	Network Associate
MTCRE	Routing Engineer
MTCWE	Wireless Engineer
MTCTCE	Traffic Control Engineer
MTCUME	User Management Engineer
MTCINE	Inter-networking Engineer



# MIKROTIK COURSES



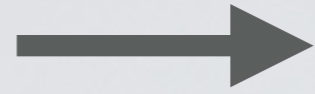




# PARTNERSHIP PROGRAMS

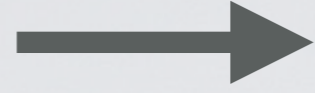
Knowledge

Consultant



Configures and helps

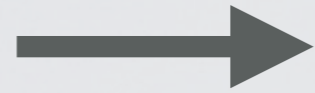
Training center



Certifies and advances

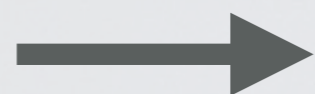
Products

Distributor

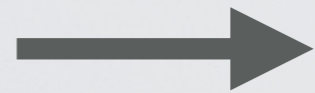


Offers products and services

Reseller

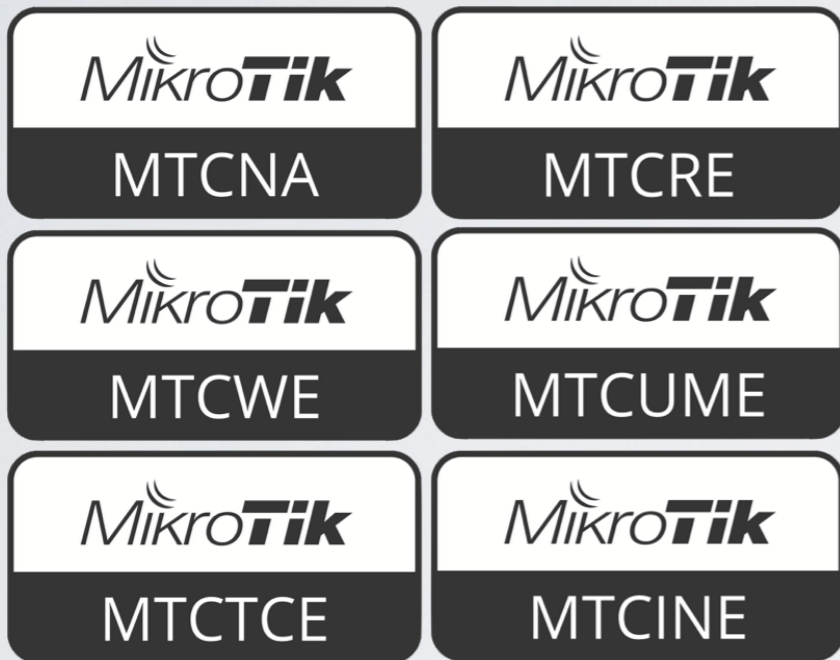


Buys from Distributor and resells



Accessories, integrators, software

1



At least 1 certificate

2



Web page

3

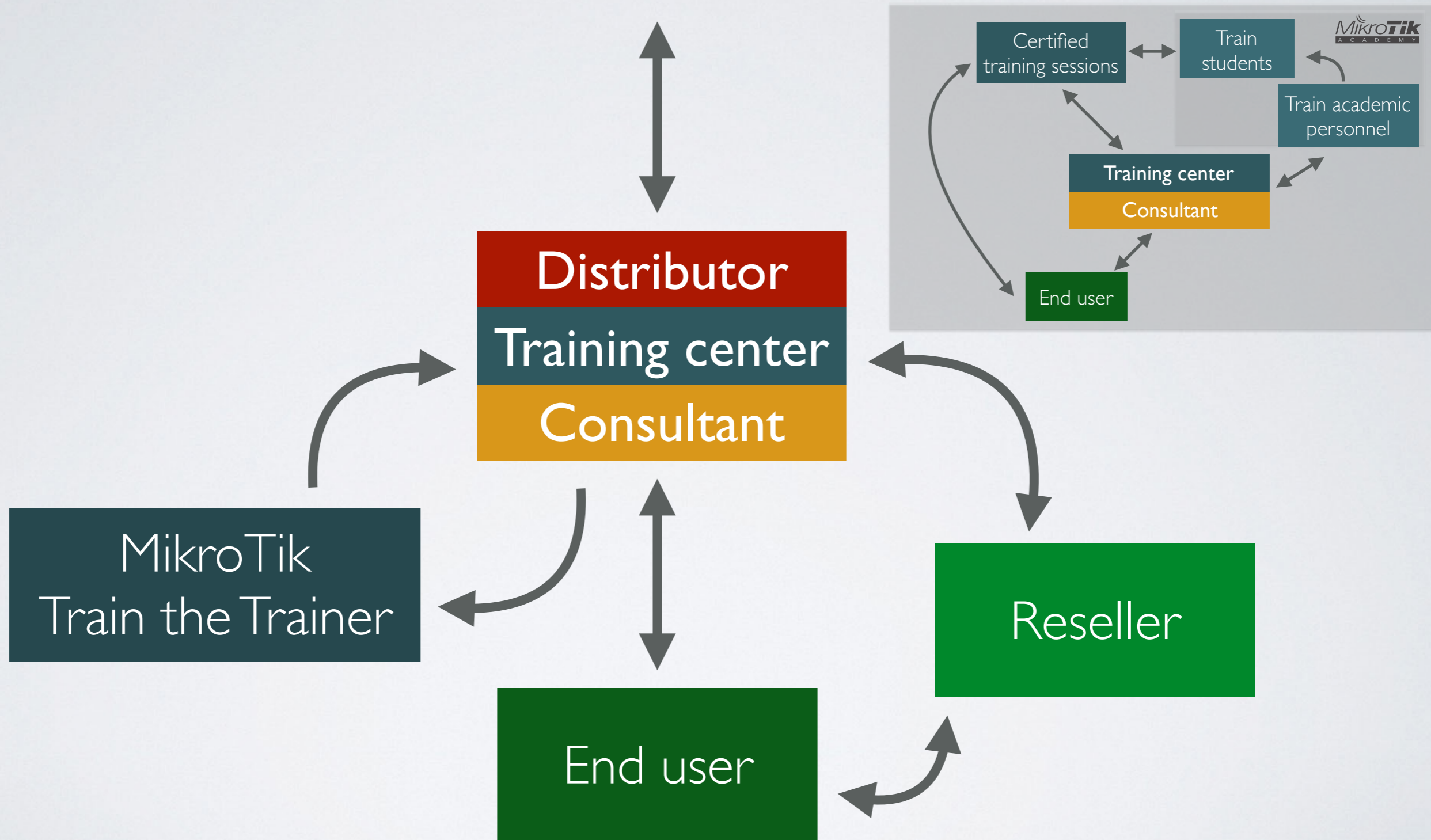


Purchase volumes

[sales@mikrotik.com](mailto:sales@mikrotik.com)



# MikroTik



## BENEFITS

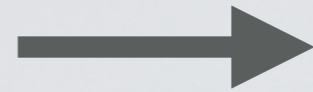
- The more you learn, the better you can help your customers
- Happier customers > better sales



# PARTNERSHIP PROGRAMS

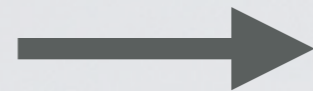
Knowledge

Consultant



Configures and helps

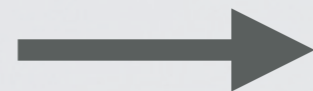
Training center



Certifies and advances

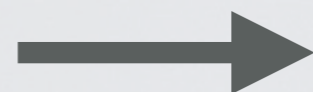
Products

Distributor

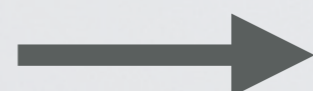


Offers products and services

Reseller



Buys from Distributor and resells

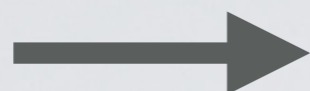


Accessories, integrators, software

Made for

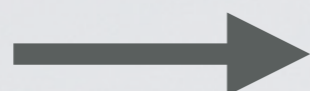
**MikroTik**

Accessories



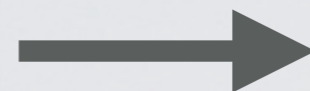
Accessories for MikroTik products

Integrators



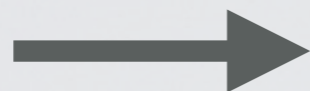
Integrated solutions

Software



Software that works with RouterOS

Books



Books about RouterOS

[mikrotik.com/mfm](https://mikrotik.com/mfm)





# Routers & Wireless

- home
- software
- hardware
- support
- downloads
- purchase
- training
- account

- Main
- Buy
- About us
- Made for Mikrotik**
- Our customers
- Jobs

## Made for Mikrotik

The Made for Mikrotik program consists of two parts: "Mikrotik certified Integrators" and "Mikrotik certified Accessories".

**MikroTik Certified Accessories** are made by Mikrotik approved companies, who make accessories specifically for MikroTik products. This includes RouterBOARD compatible cases, outdoor antennas and other products

**MikroTik Certified Integrators** are companies who make turnkey solutions based on Mikrotik RouterBOARD and RouterOS, their products include assembled CPE/AP devices, preinstalled Integrated antennas and Rackmount solutions assembled for and with RouterOS



[Click here to apply to the "MFM" program](#)

Below is a list of our 173 Certified Mikrotik Integrators and Accessory makers in Random order:

- Accessories
- Integrators
- Software
- CPE
- Textbooks

### Netkrom solution

<http://netkromsolution.com>

NetMedic is one product design to the hospital. Powered by MikroTik RouterOS NetMedic bundle with Monitor temperature, date and uptime of MikroTik. New Design Casing specific for Hospital.



Choice NetMedic for improving performance Your Network Hospital

### Pro-Cell Co., Ltd.

<http://www.antenna.com.tw/>

PRO-CELL is a professional antenna manufacturer in Taiwan. PRO-CELL product range includes an outdoor APA enclosure which can be combined with RouterBoards inside and antennas both inside or outside.



[mikrotik.com/mfm](http://mikrotik.com/mfm)

# HOW TO APPLY?

Description

**[sales@mikrotik.com](mailto:sales@mikrotik.com)**





*Micro***Tiik**

A C A D E M Y



## WE OFFER

- Certification program for educational institutions
- Course is based on MTCNA
- Taught by Academy trainers
- Includes free MTCNA exam



# MIKROTIK OFFERS

- 75% compensation to Training Centers for training Academy staff

# MIKROTIK OFFERS

- Training outline
- MTCNA course materials
- 20x RouterBOARDS

**FREE**



# MIKROTIK OFFERS

- MTCNA certificates & RouterOS licenses to students
- Academy trainer shirts

**FREE**

# HOWTO BECOME ACADEMY

1. Fill out application - [mikrotikacademy.com](https://mikrotikacademy.com)
2. Sign MikroTik Academy agreement



# HOWTO BECOME ACADEMY

3. Attend preparatory training (conducted by partners)
4. Pass MTCNA + 1x engineer level certificate test (result 75%+)

# HOWTO BECOME ACADEMY

5. Receive MikroTik Academy trainer certificate
6. Receive Academy package
7. Start giving MikroTik Academy classes





# ACADEMY NUMBERS

- 200+ MikroTik Academies around the world
- 350+ Academy trainers

[mikrotikacademy.com](http://mikrotikacademy.com)  
[training@mikrotik.com](mailto:training@mikrotik.com)



**MikroTik**

**A C A D E M Y**

[mikrotikacademy.com](http://mikrotikacademy.com)



Enjoy the MUM!

The logo for MikroTik, featuring the word "MikroTik" in a stylized, italicized font. The "T" is significantly larger and bolder than the other letters. Above the "i" in "Mikro" are three curved lines. The entire logo is rendered in a dark gray color and is reflected on a light gray surface below it.

*MikroTik*