



MUM Costa Rica

2018



What do we do?

We create networks

# MikroTik

- Established 1996
- RouterOS created in 1997
- RouterBOARD created in 2002
- First MUM event in Prague 2006
- MUM in Indonesia had over 3100 people
- 25 events in 2017



LATVIA



Сквером, между улицами давогъ иъ нафманова. Разстаетъ ориентация  
Луврота. *Francia*













Our products include

RouterOS

built and advanced for more than 20 years

RouterBOARD

Wireless outdoor, indoor, Ethernet routers

CRS

Switches with RouterOS

CSS

Switches with SwOS



no matter where you are

# More than 175 MUM events around the world





**STAFF**

Look for MikroTik staff in the red t-shirts

Edmunds (sales, training)

Pauls (support)

Martins (support)

**09:00**

**Presentations**

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**12:00**

**Lunch with tickets**

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**13:00**

**Presentations**

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**17:00**

**Closing of the MUM**

# WiFi

**SSID: MikroTik\_MUM**



# MUM Live

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

# Special thanks



**Some of our latest products**

1 Gbit  
over wireless

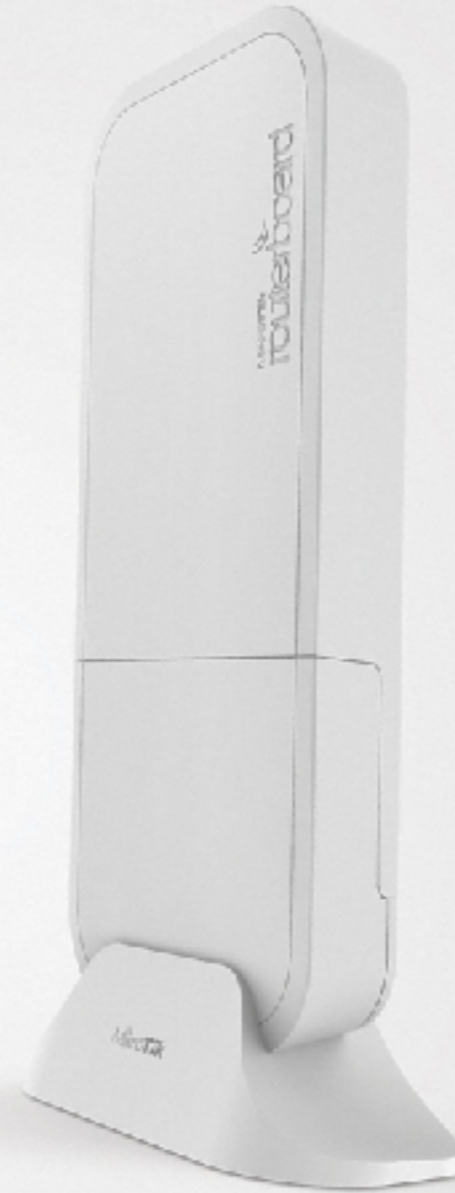
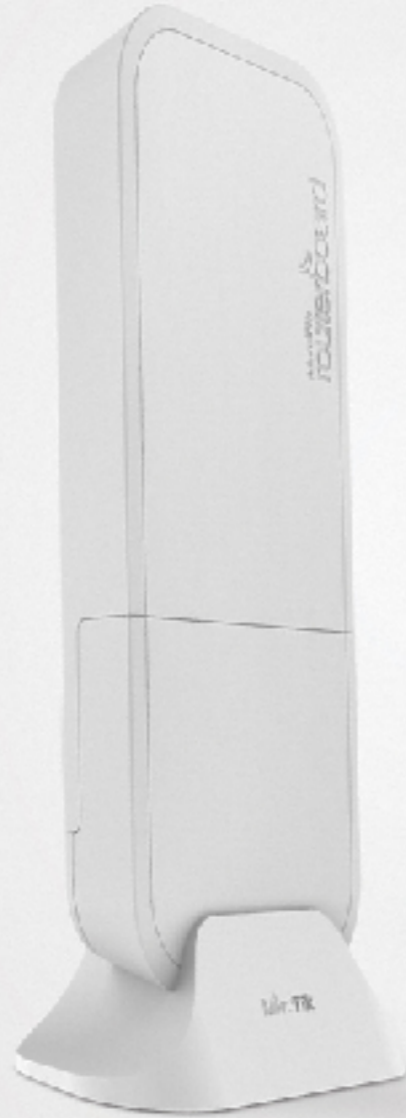
100m+  
range

60GHz  
radio

Gigabit  
Ethernet

Paired  
Secure Link  
pre-configured

Powered by  
IEEE 802.3af/3at Passive  
PoE, DC Jack



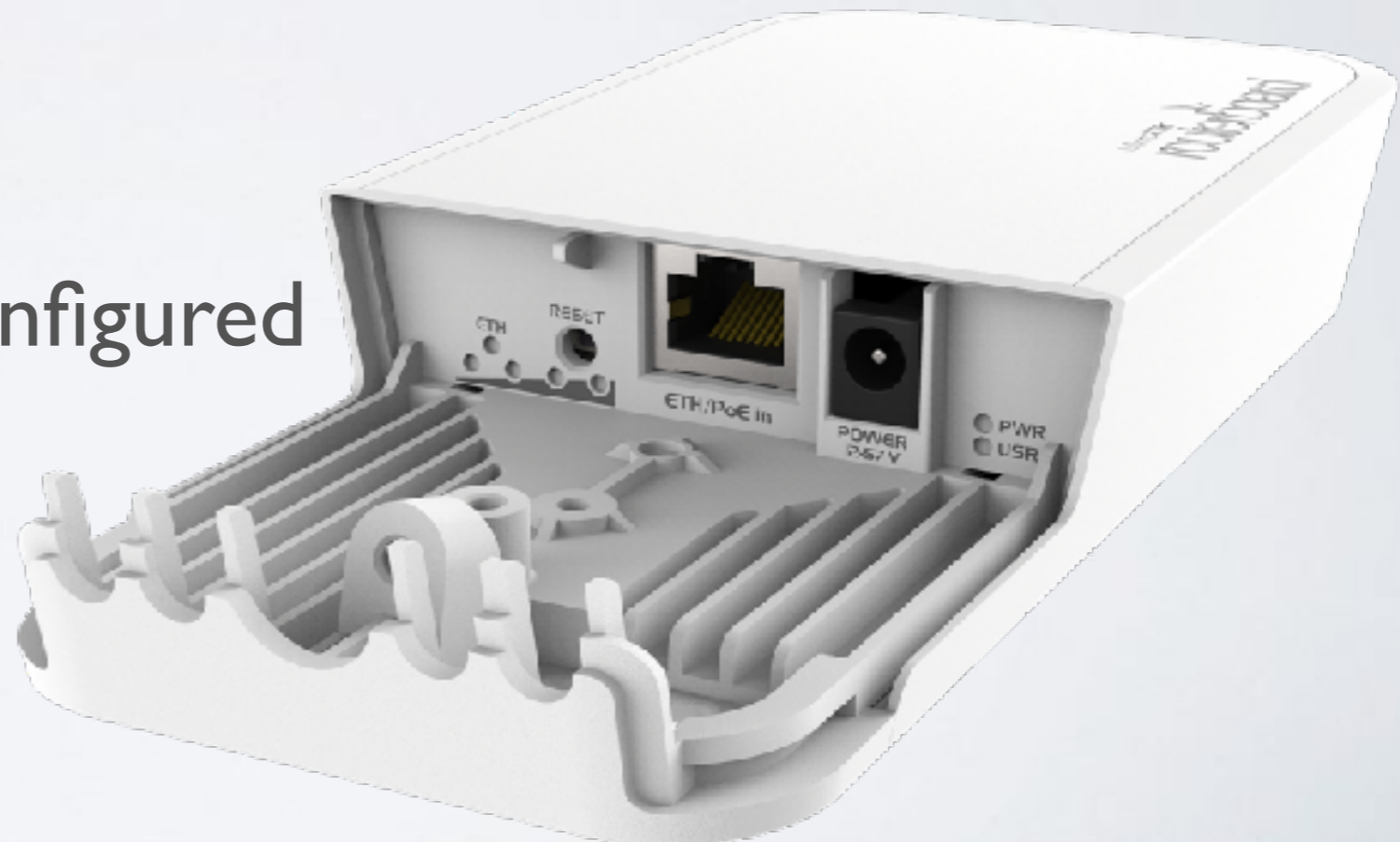
MikroTik

Wireless Wire

# Wireless Wire

NOW

- 1 Gbps full duplex without wires
- For distance 200 meters +
- 60 GHz beam-forming
- Paired secure link preconfigured
- IPsec encryption
- \$198 kit





# Wireless Wire Dish

Two LHG60G devices for long range | Gbit

# LHG 60G

NOW

- 1 Gbit full duplex (wire speed)
- Works in 60 GHz spectrum
- Familiar LHG design
- Quad-core ARM CPU
- Low cost and low weight
- Targeted for 1.5 km and more!
- IPsec encryption
- Kit price \$298



# LtAP mini

NOW

- 2.4 GHz AP in a rugged case
- miniPCle for LTE
- Built-in GPS
- Optional external antennas for GPS and LTE
- Serial port
- Perfect for outdoor and mobile applications





# Available now

- 89\$ without module
- 129\$ with LTE (US version available) module

# hAP ac<sup>2</sup>

NOW

- Gigabit ports
- Dual chain, dual band
- Wall mount or stand
- Same small size as "lite" model
- Kit price \$69

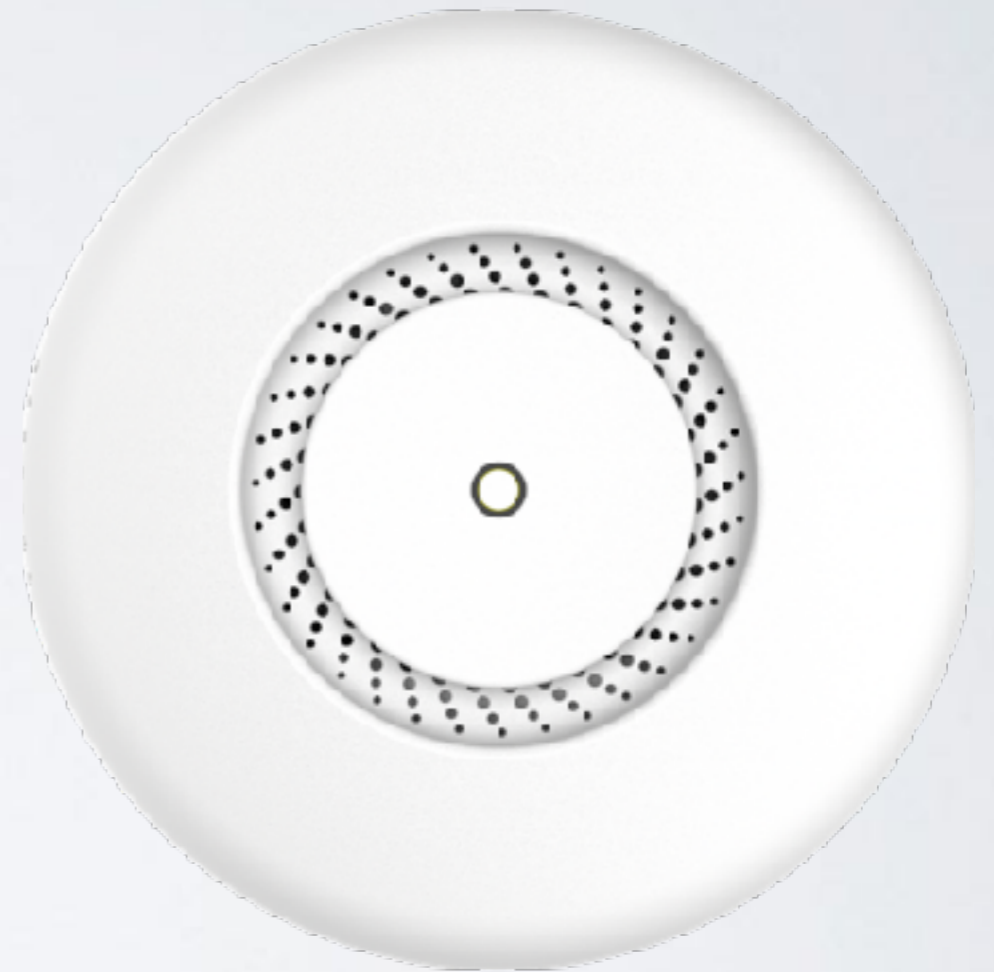




# cAP ac

NOW

- Dual band, dual chain
- Gigabit port for 802.11ac speeds
- Two Ethernet ports
- PoE out
- Two cases included
- IPsec encryption
- Kit price \$69









# 450Gx4

NOW

- Quad core 716 MHz
- 1 GB of RAM
- IPsec encryption
- PoE out on ether5
- microSD
- 10V - 57V input by two power jacks
- Price \$99



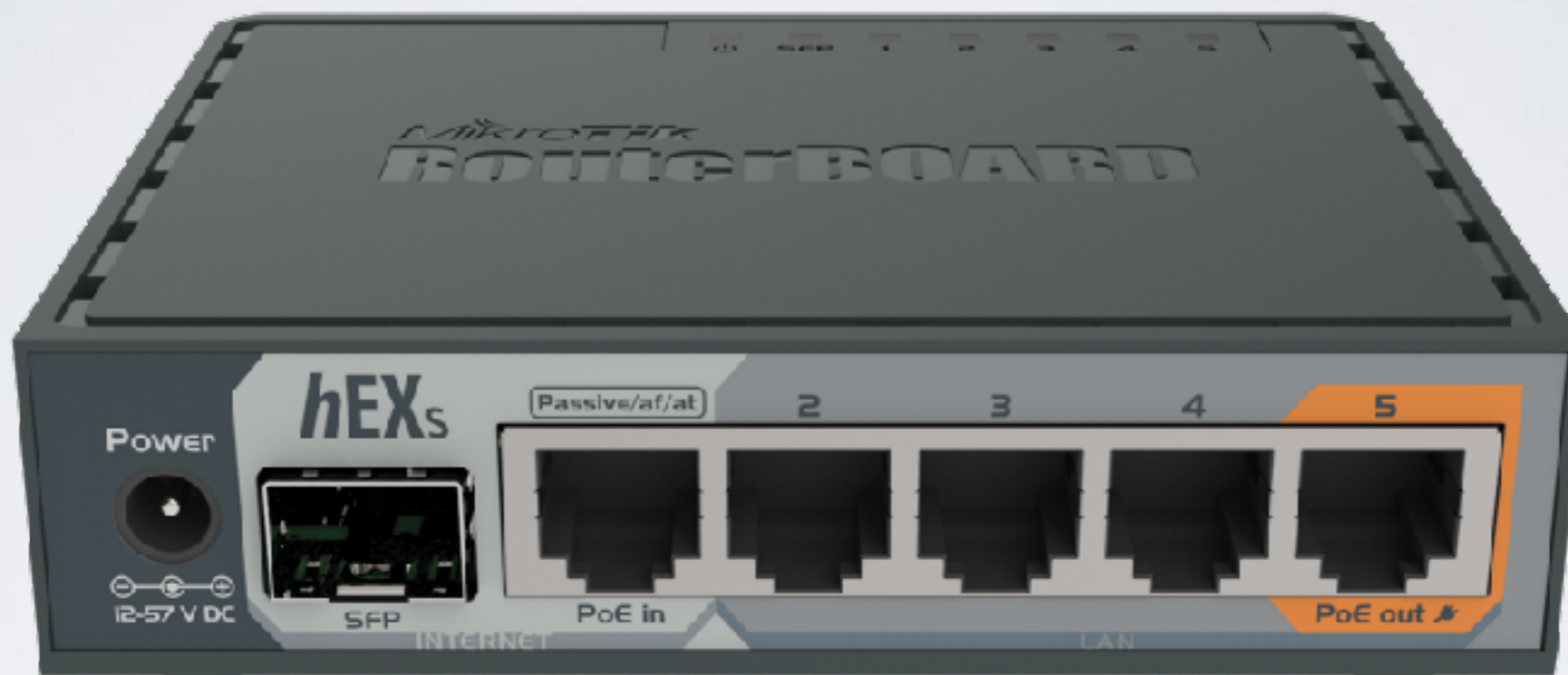
# hEX S

NOW

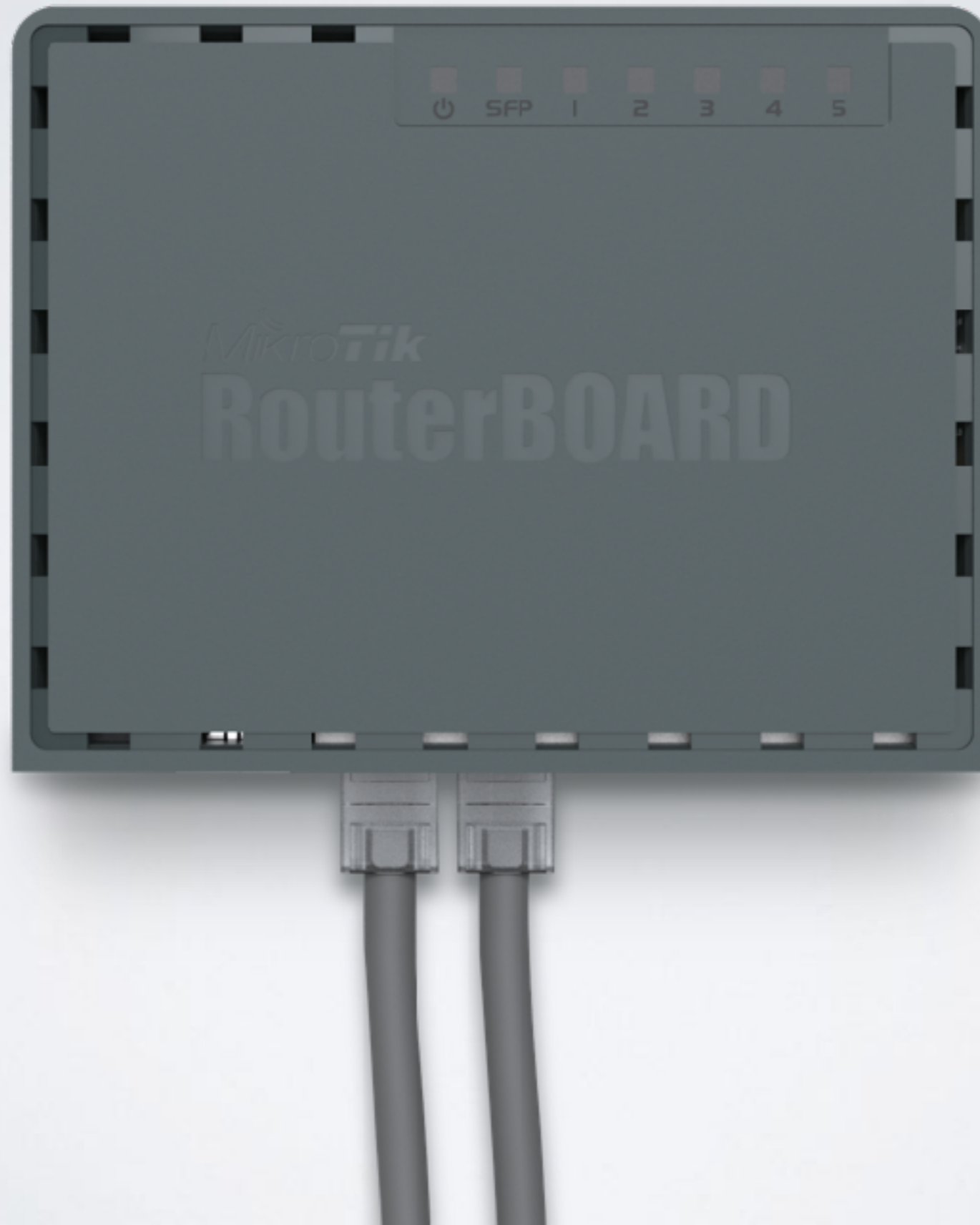
- Dual-core 880 MHz
- 256 MB of RAM
- Full size USB
- 1.25 Gbps SFP
- 10V - 57V input and PoE
- IPsec encryption
- Kit price \$69



# hEX S



hEX S





# SXTsq Lite 2

NOW

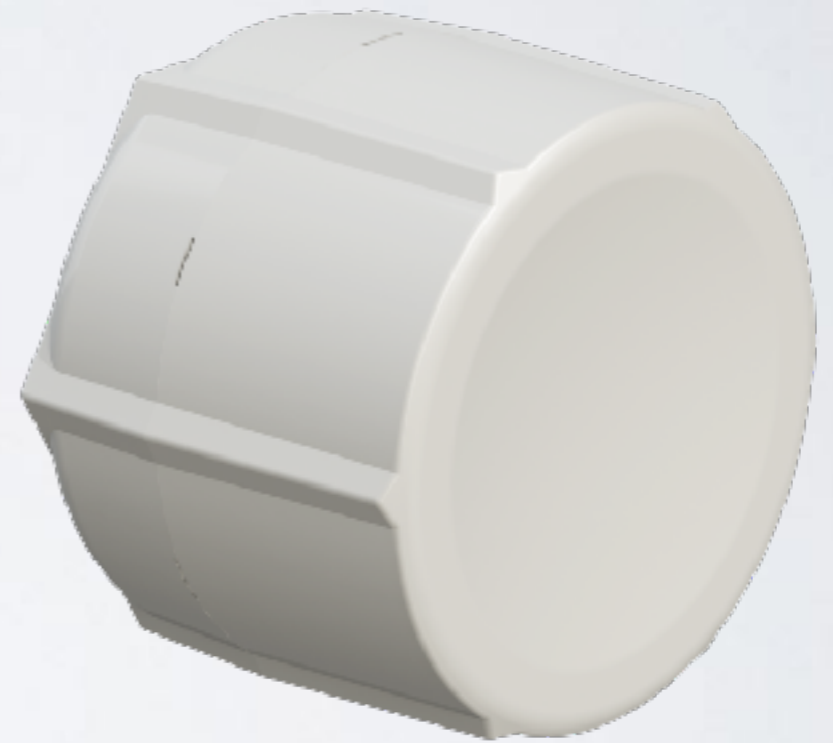
- 2 GHz CPE
- Slim design
- Low price
- Kit price \$39



# SXT LTE kit

NOW

- Dual SIM
- LTE card built in
- 2x Ethernet
- PoE output on ether2
- International LTE bands 1,2,3,7,8,20,38 and 40
- US bands 2,4,5 and 12
- Kit price \$129



# LDF 2

NOW

- 2 GHz CPE
- Mounts in regular satellite dish
- Ultra long range
- Kit price \$39





# mANT 5o LTE

NOW

- Special 5 dBi LTE antenna
- Omnidirectional design
- Use with wAP, LtAP
- High speed Internet in remote locations
- Price \$19



NOW



# CRS328-4C-20S-4S+RM

- 20x SFP ports
- 4x ETH/SFP combo ports
- 4x SFP+ ports
- Dual PSU
- Kit price \$369

# CWDM

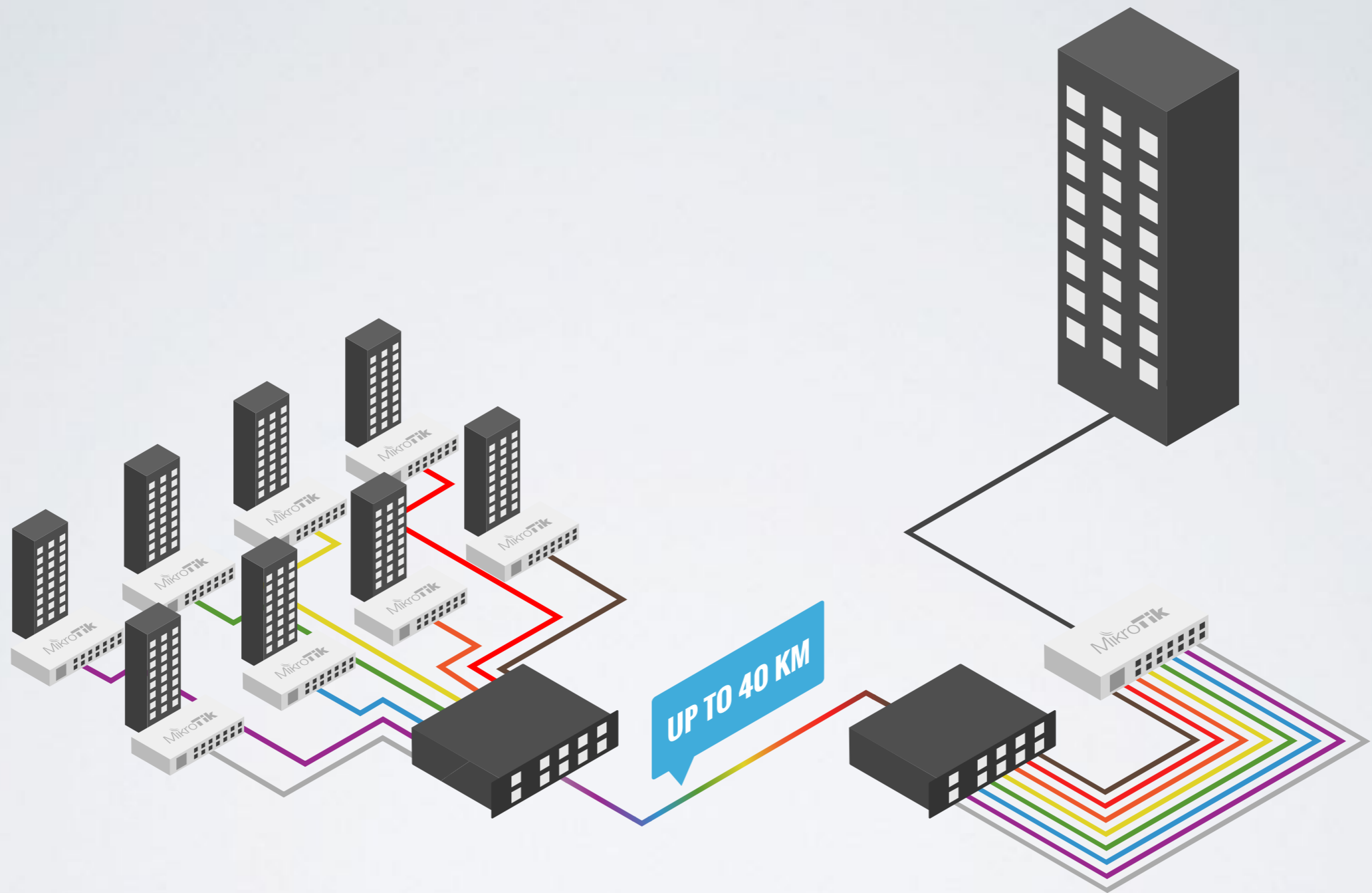
NOW

- Passive MUX/DEMUX unit
- Combine up to eight Fiber links into one
- Supports both SFP and SFP+
- Price \$359





# CWDM



**Some of our upcoming products**

# mANTBox2 12s

- 2 GHz sector antenna
- 12 dBi
- RouterBOARD built-in





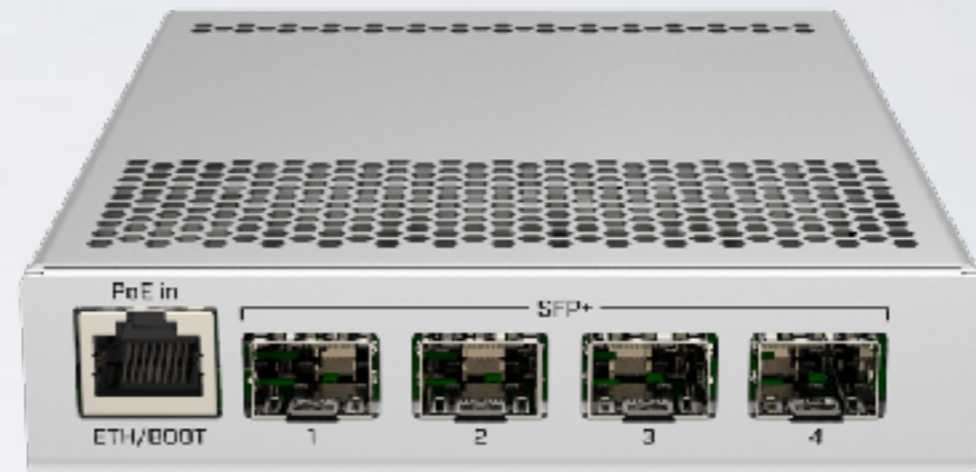
# PWR-Line AP

- Small AP that directly plugs into socket
- Makes 100 Mbps links with others like it
- Build WiFi network without special cabling
- Automatically pairs with new devices



# CRS305-1G-4S+IN

- 4x SFP+ ports
- 1x Gigabit Ethernet
- Metallic enclosure
- Dual DC jacks



# CRS309-1G-8S+PC

- 8x SFP+ ports
- 1x Gigabit Ethernet
- Silent case

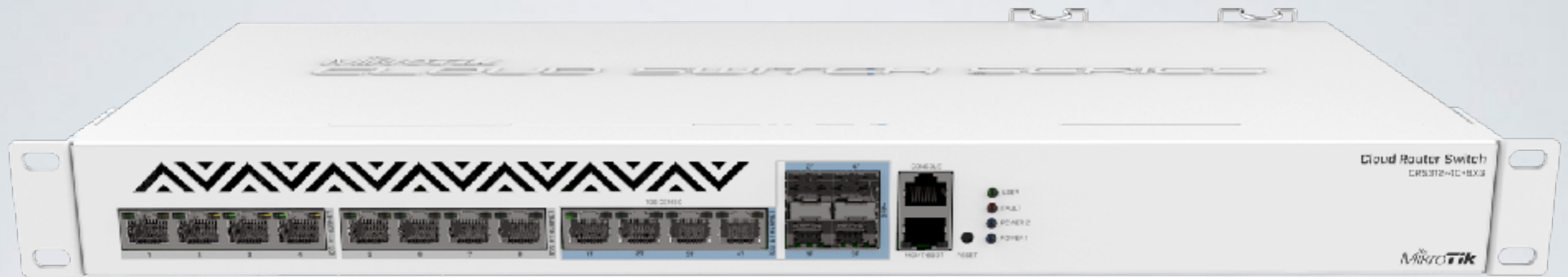




# CRS332-32S+RM

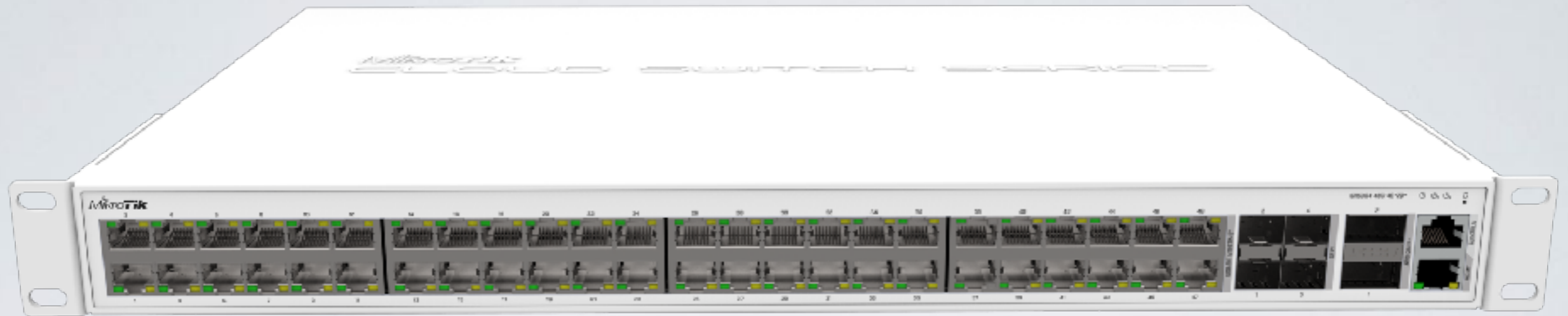
- 32x SFP+ ports
- RJ45 console and ETH management
- Dual PSU





# CRS3 12-4C+8XG

- 8x 10G Ethernet ports
- 4x 10G Ethernet / 10G SFP+ combo ports
- Console and management ports
- Dual PSU



# CRS354-48G-4S+2Q+

- 48x Gigabit ports
- 4x SFP+ for 10 Gbit connections
- 2x QSFP ports for 40 Gbit connections



# CRS354-48P-4S+2Q+

- 48x Gigabit ports with PoE out
- 4x SFP+ for 10 Gbit connections
- 2x QSFP+ ports for 40 Gbit connections

# RouterOS

Version	Number of changes
v6.42.5 (current)	14
v6.42.4 (current)	32
v6.42.3 (current)	4
v6.42.2 (current)	30
v6.42.1 (current)	16*
v6.42 (current)	170
v6.40.8 (bugfix)	10*

\* - version with important security updates



# Need help?

- Ask a local distributor
- Hire MikroTik consultant
- Read the manual [wiki.mikrotik.com](http://wiki.mikrotik.com)
- Email [support@mikrotik.com](mailto:support@mikrotik.com)
- Attend a training class or join and Academy class in a University

# After the MUM

- All presentations - [mum.mikrotik.com](http://mum.mikrotik.com)
- Videos - [youtube.com/mikrotik](http://youtube.com/mikrotik)
- License for paid and voucher registrations will be sent by an e-mail

The logo for MikroTik, featuring the word "MikroTik" in a stylized, italicized font. The "i" in "Mikro" has a unique graphic element consisting of three curved lines above it. The "Tik" part is rendered in a bold, blocky, italicized font. The entire logo is reflected on a glossy surface below it.

*MikroTik*