

The logo for MikroTik, featuring the word "Mikro" in a stylized, italicized font with a crescent-like shape above the 'i', and "Tik" in a bold, blocky font.

MUM Argentina

Buenos Aires

Noviembre 2018



What do we do?

We create networks

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

*Mikro***Tik**

- Established 1996
- RouterOS created in 1997
- RouterBOARD created in 2002
- First MUM event in Prague 2006
- MUM Indonesia 2018 had over 3700 people
- 31 events in 2018

More than 180 MUM events around the world





Iceland

Finland

Sweden

Russia

Norway

Estonia

Denmark

Ireland

United Kingdom

Lithuania

Belarus

Netherlands

Poland

Belgium

Germany

Czech Republic

Ukraine

Luxembourg

Slovakia

France

Switzerland

Liecht

Austria

Hungary

Moldova

Georgia

Monaco

Slovenia

Croatia

Romania

Armenia

Andorra

San Marino

Bosnia and Herzegovina

Serbia

Bulgaria

Portugal

Spain

Italy

Vatican City

Montenegro

Albania

Macedonia

Georgia

Turkey

Greece

Syria



STAFF

Look for MikroTik staff in the red t-shirts

Uldis Cernevskis (support)

Maris Bulans (support)

Kaspars Krampis (training)

Janis Jankovskis (sales)

Agenda

Presentaciones 10:00

Almuerzo (con vouchers) 13:00

Presentaciones 14:30

Sorteo (viernes) 16:00

mum.mikrotik.com

MUM Live

www.youtube.com/mikrotik

Special thanks



mas
net

Some of our latest products

1Gbit
over wireless

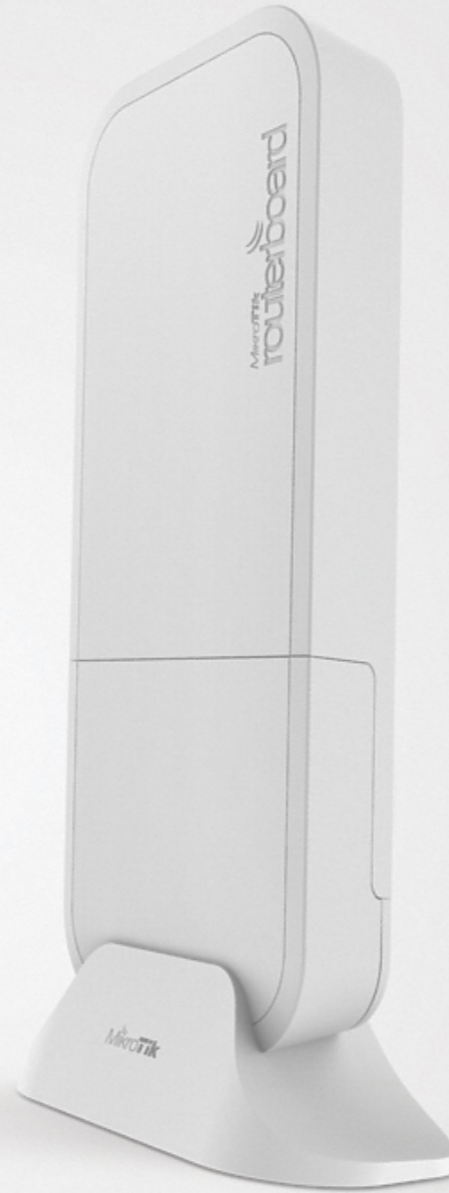
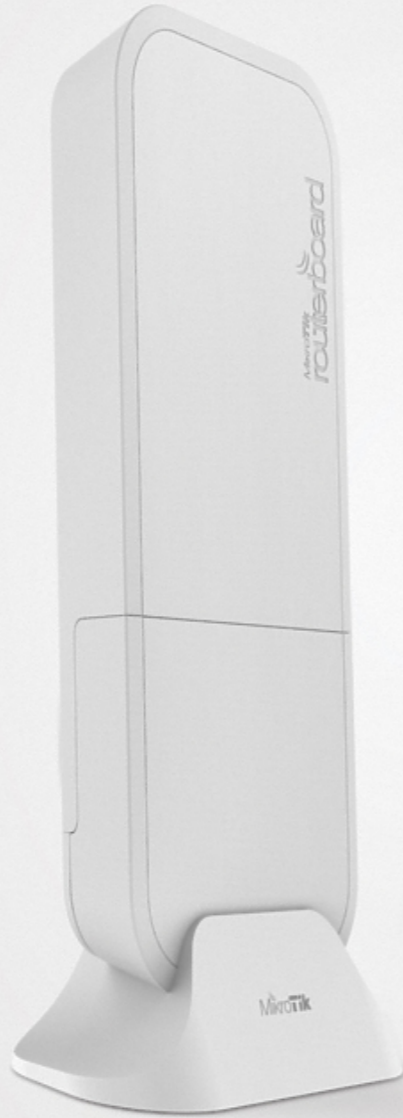
100m+
range

60GHz
radio

Gigabit
Ethernet

Paired
Secure Link
preconfigured

Powered by
AF/AT/Passive
PoE, DC jack



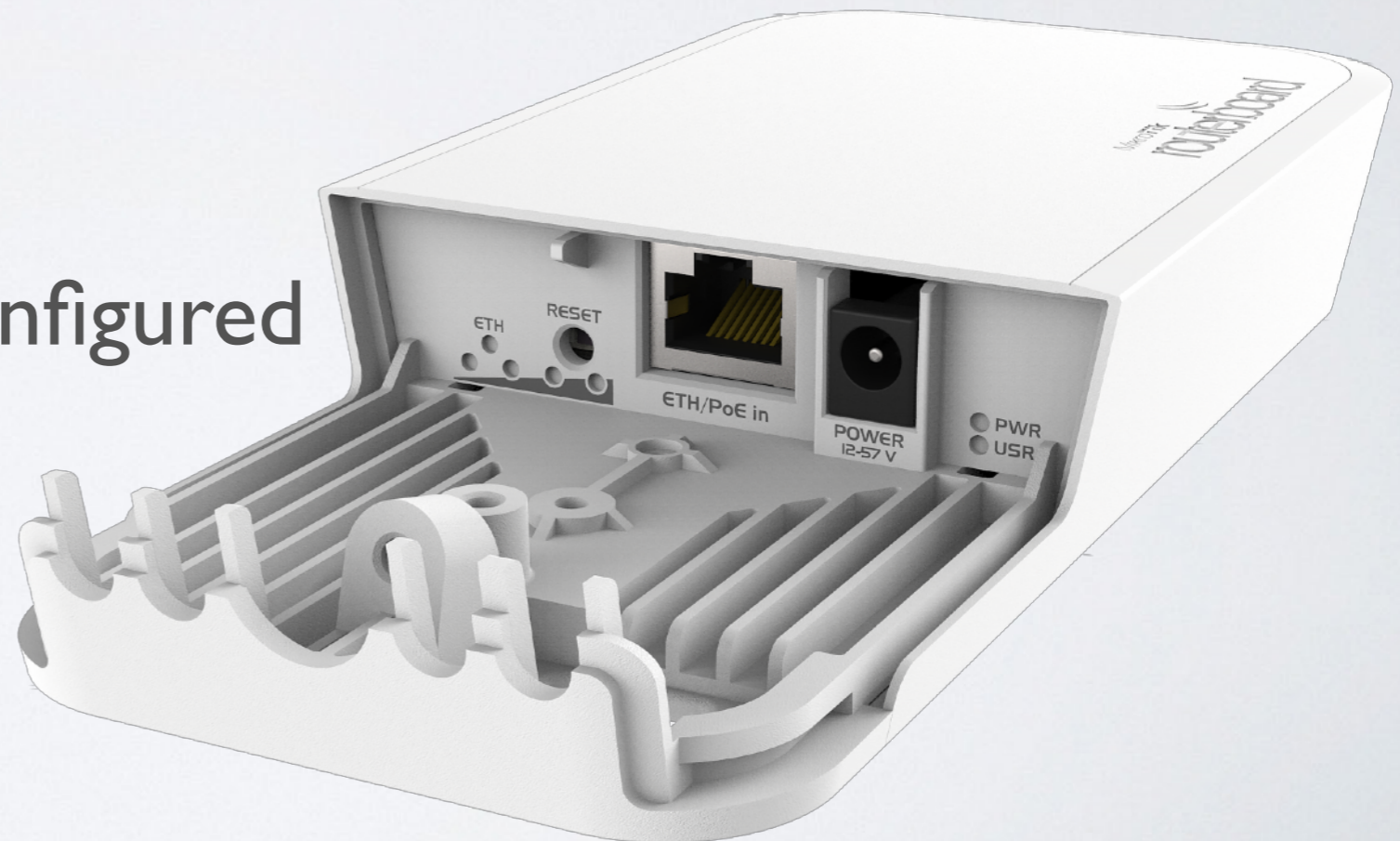
MikroTik

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



SXTsq Lite60

NOW

- 60GHz CPE
- SXTsq design
- 100 Mbps ethernet
- For distance 200 meters +
- Price \$69



MikroTik 60GHz Products

PTP Link Distances at Full Speed

LHG 60G	1500+ meters	LHG 60G
wAP 60G	200+ meters	wAP 60G (AP)
LHG 60G	800+ meters	wAP 60G AP
LHG Lite60	800+ meters	wAP 60G AP
SXTsq Lite60	200+ meters	wAP 60G AP

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



NOW



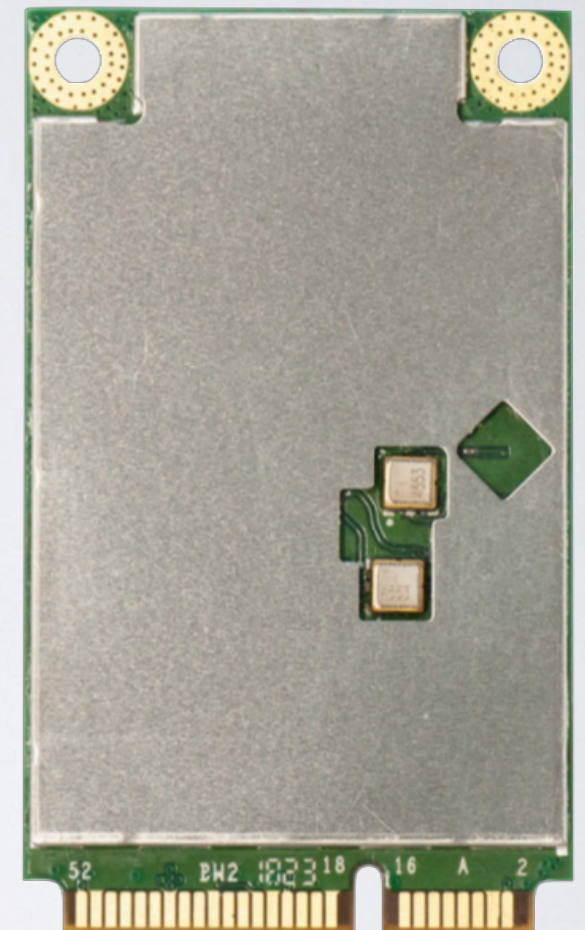
Available now

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

R11e-4G

NOW

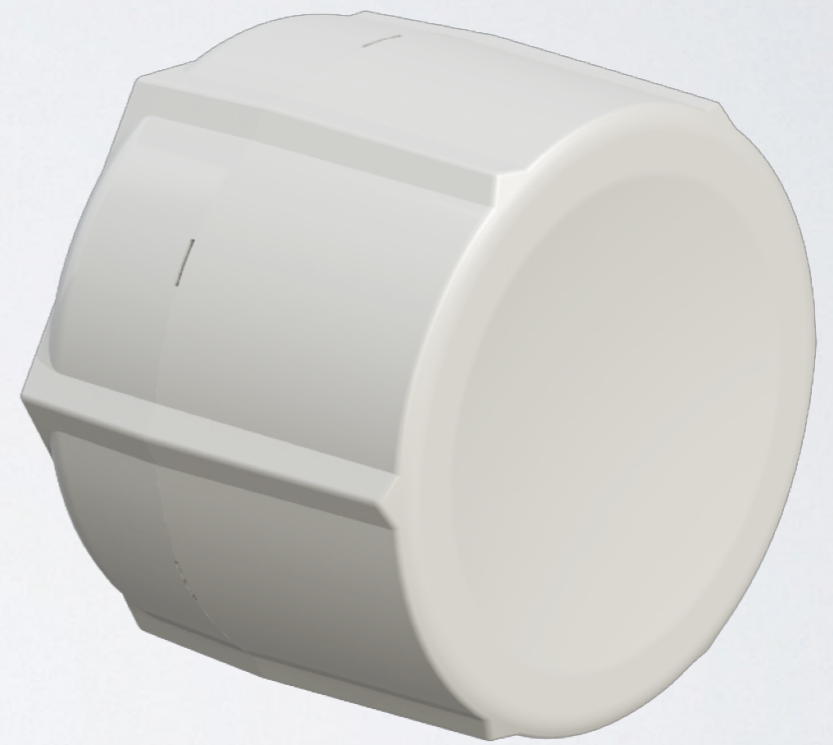
- 4G Modem (no 2G/3G)
- 4 Category (150Mbps/50Mbps)
- 3,7,20,31 FDD bands
- 41n,42,43 TDD bands



SXT LTE kit



- 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



LHG LTE kit

NOW



- LTE built-in modem
- 17 dBi, 25 angle
- 4 category (150Mbps/50Mbps) LTE
- 3G - R7/R8
- For long distances

hAP ac²

NOW

- Gigabit ports
- Dual chain, dual band
- IPsec hardware encryption
- Same small size as "lite" model
- Kit price \$69

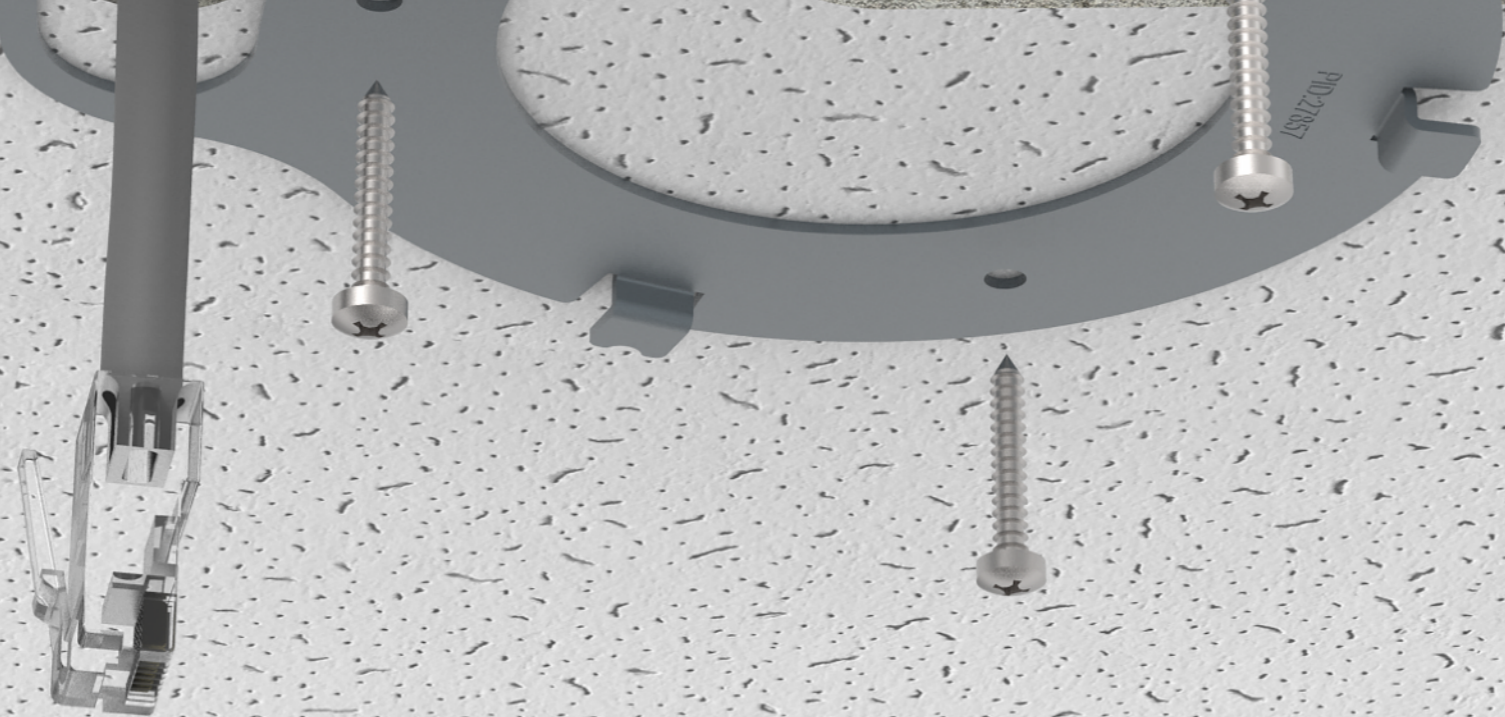


cAP ac

NOW

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



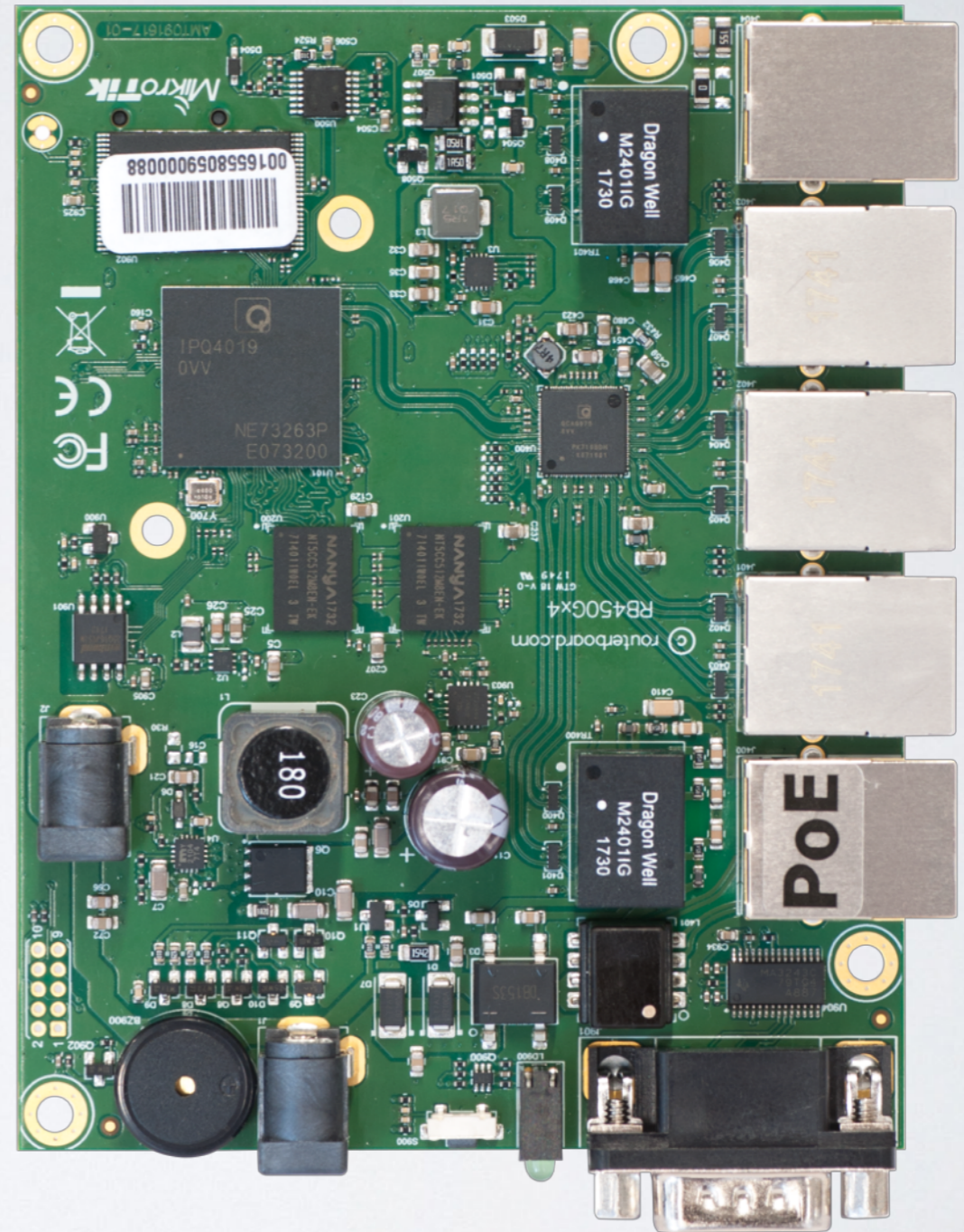




450Gx4

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
- Price \$69



SXTsq Lite 2

NOW

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



LDF 2

NOW

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



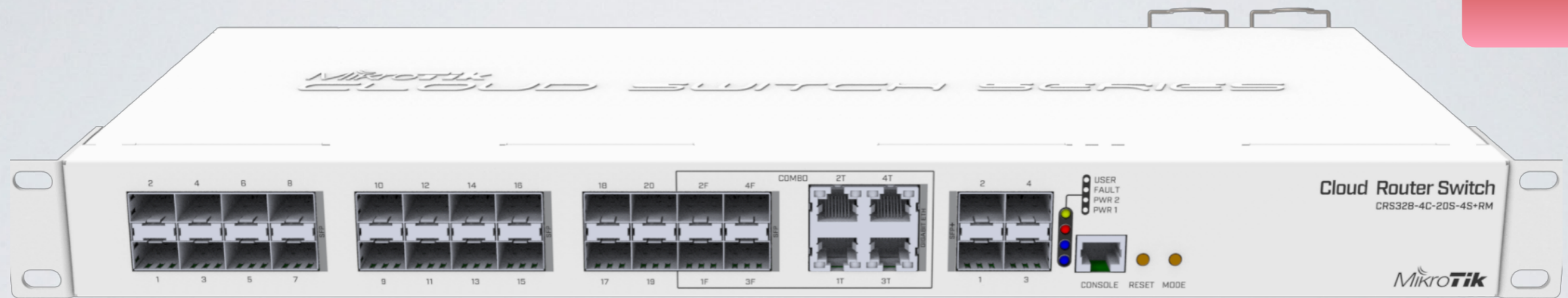
mANTBox2 12s

NOW

- 2 GHz sector antenna
- 12 dBi
- RouterBOARD built-in
- Price \$99



NOW



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

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

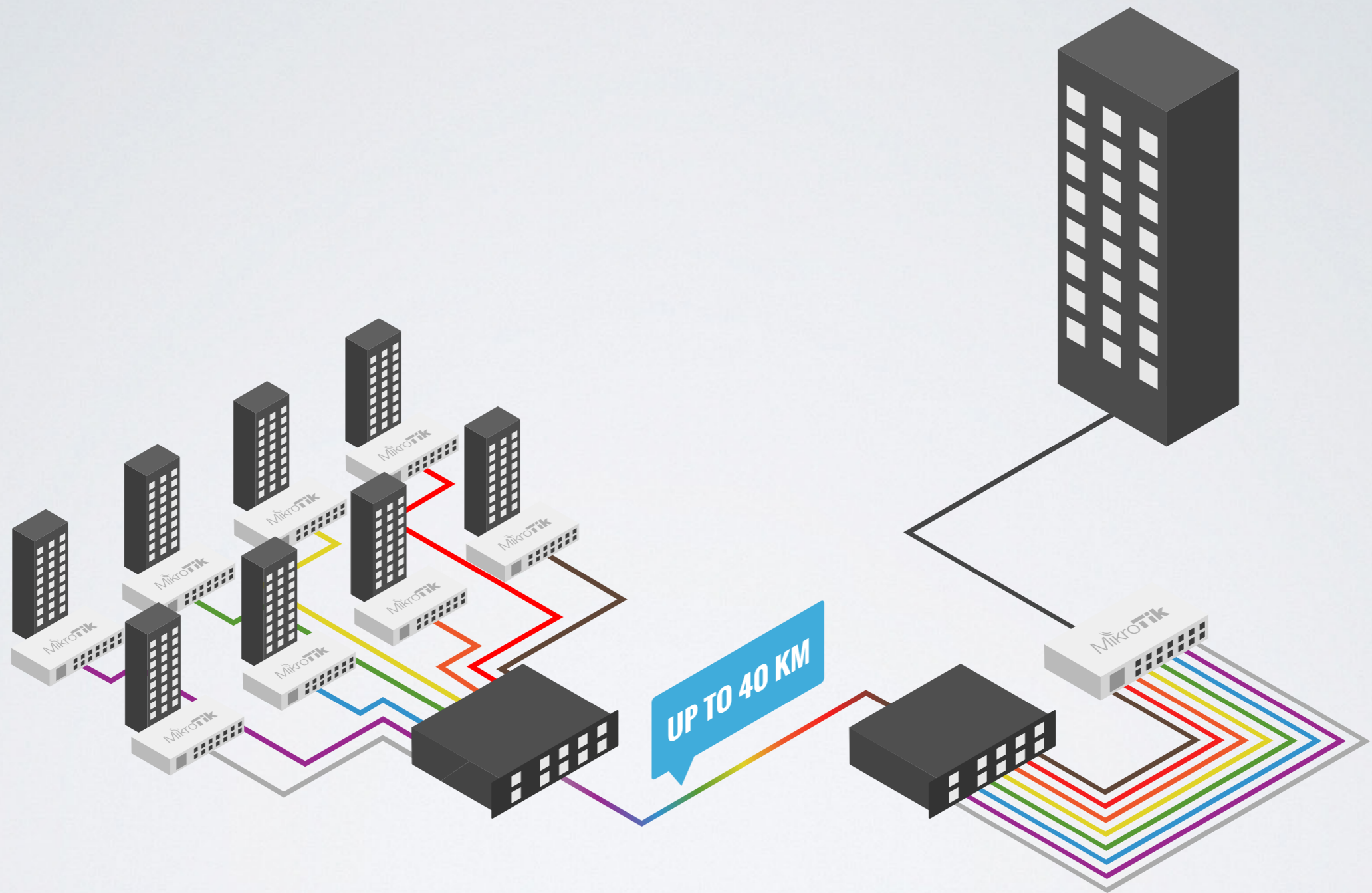
CWDM

NOW

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



CWDM



Base Box 6

- 6GHz
- RB912 inside
- 2 SMA connectors
- License 4
- Price \$69



RouterBOARD 4011

NOW



RouterBOARD 4011

NOW

- 4 Core Cortex A15 CPU
- 10 Gigabit SFP+
- IPsec Hardware acceleration
- 1GB RAM
- PoE Out
- Price \$199



RouterBOARD 4011

NOW



RouterBOARD 4011

NOW

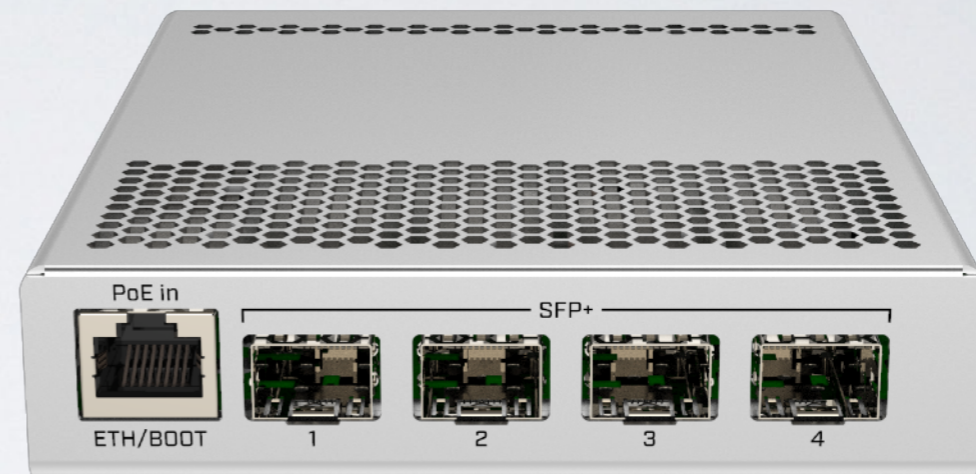
- 2 chains for 2GHz, 802.11 b/g/n
- 4 chains for 5GHz, 802.11 a/n/ac
- 160 MHz channel width
- 1733 Mbps + 300 Mbps data rates
- Price \$249



CRS305-1G-4S+IN

NOW

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



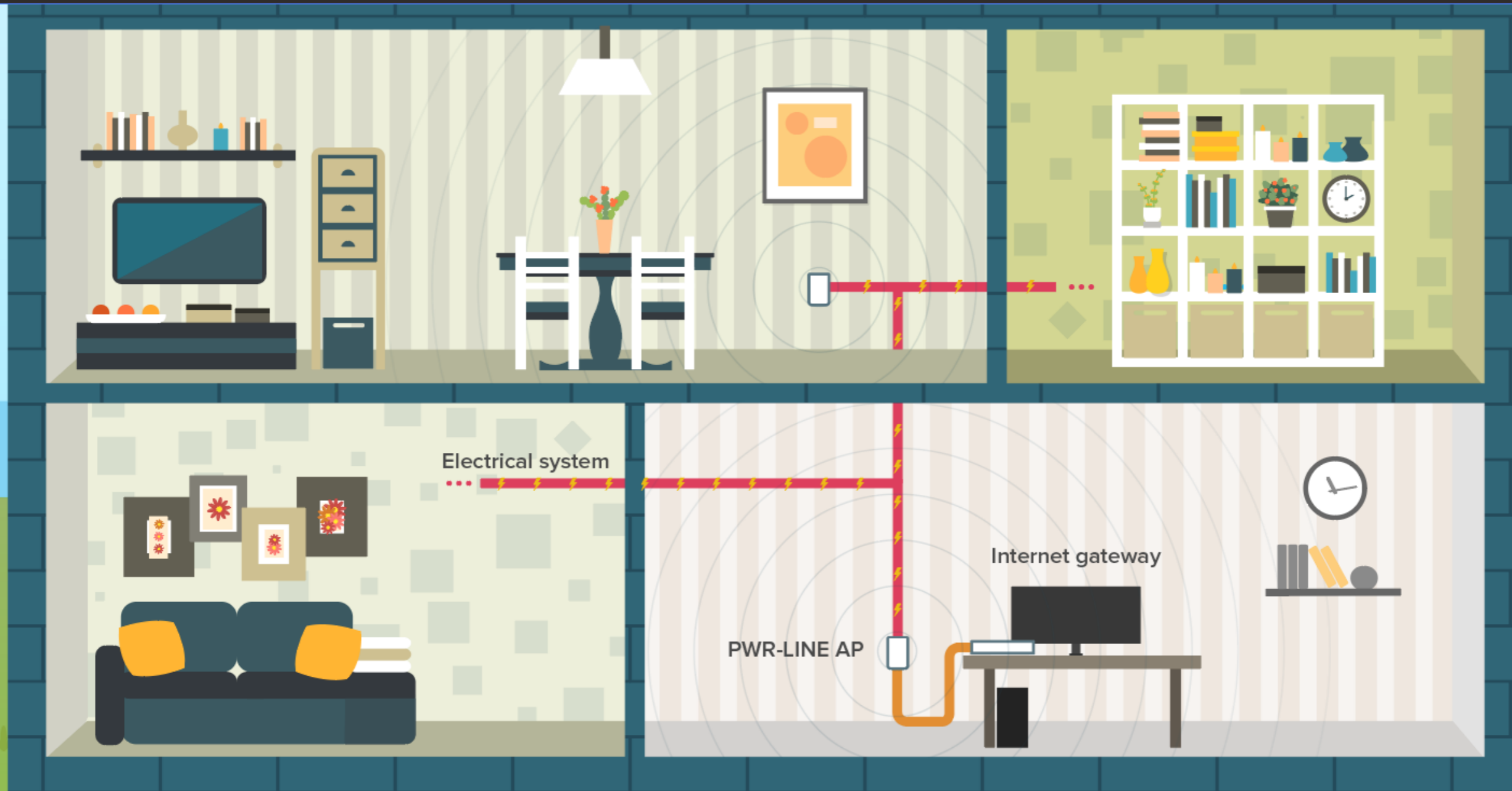
Some of our upcoming products

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



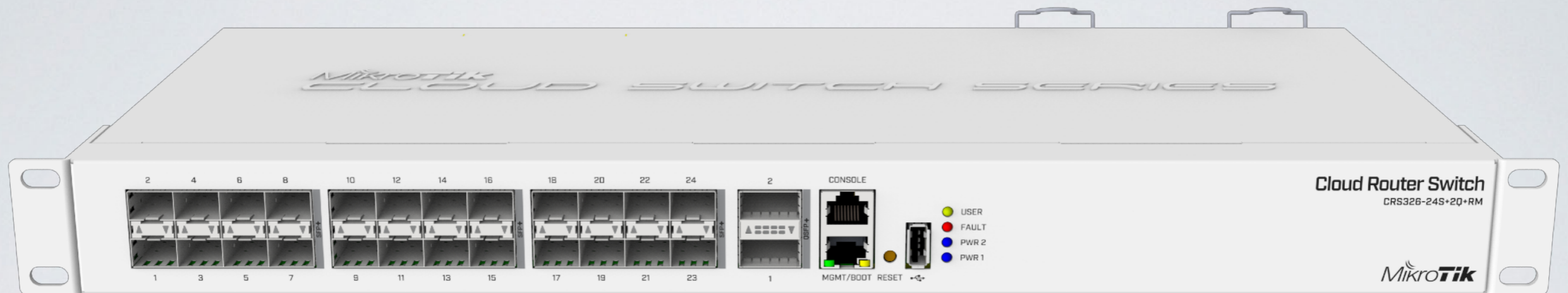
PWR-Line AP



CRS309-1G-8S+PC

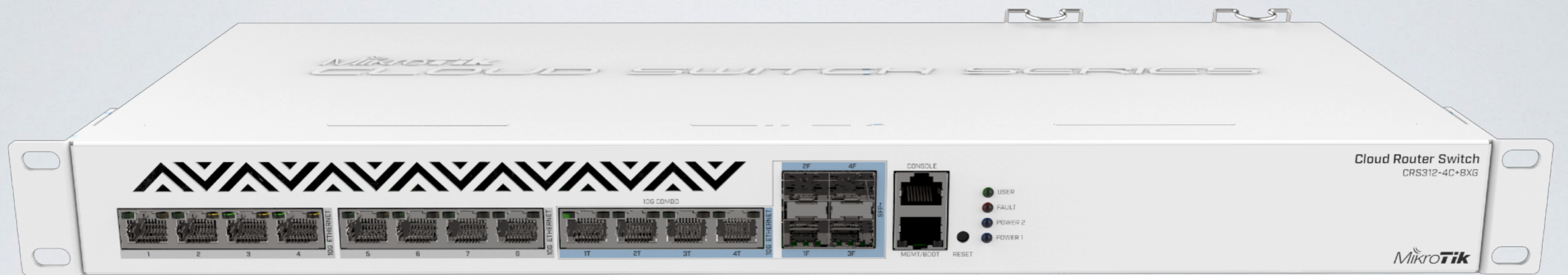
- 8x SFP+ ports
- 1x Gigabit Ethernet
- Dual boot: RouterOS / SwOS
- Silent case





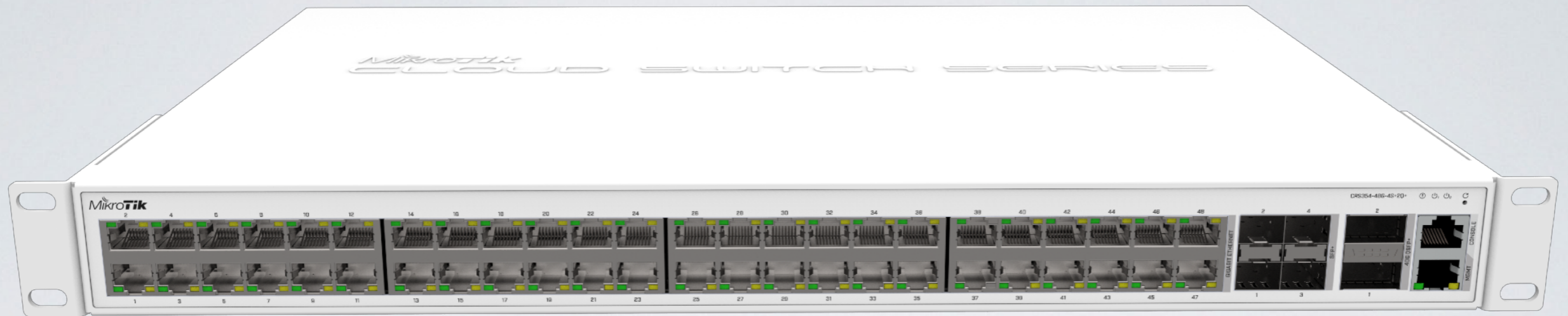
CRS326-24S+2Q+RM

- 24x SFP+ for 10 Gbit connections
- 2x QSFP+ ports for 40 Gbit connections
- RJ45 console and ETH management ports
- USB port, Dual PSU



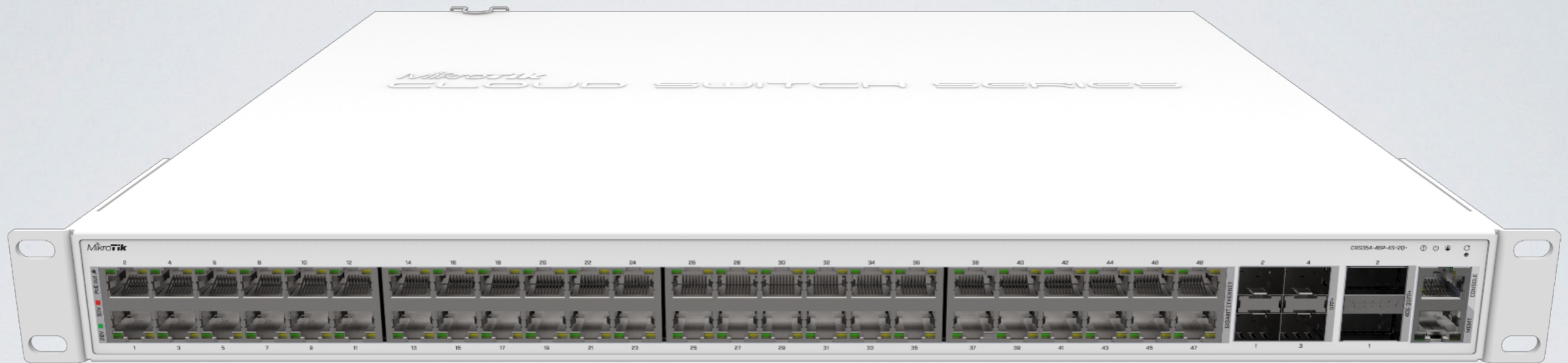
CRS312-4C+8XG

- 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

60GHz Improvements

- Major received signal sensitivity improvements
- Maximum reachable distance improvements (up to 4 KM at full speed)
- Decreased re-connection times on lost connection
- PtMP performance improvements
- Added hardware stats [`/interface w60g print stats`]

- Linksys
- MikroTik
- NETGEAR
- TP-Link
- QNAP



- Fixed within 24 hours (in April)
- Affects only devices with no firewall
- MikroTik routers **have** default firewall

MikroTik App iOS / Android

- Auto-Configuration
- Simplified interface
- support@mikrotik.com

Tele2 15:21 74%

MikroTik
Tik-App iOS 0.16

LOG IN SAVED DISCOVERED

192.168.88.1

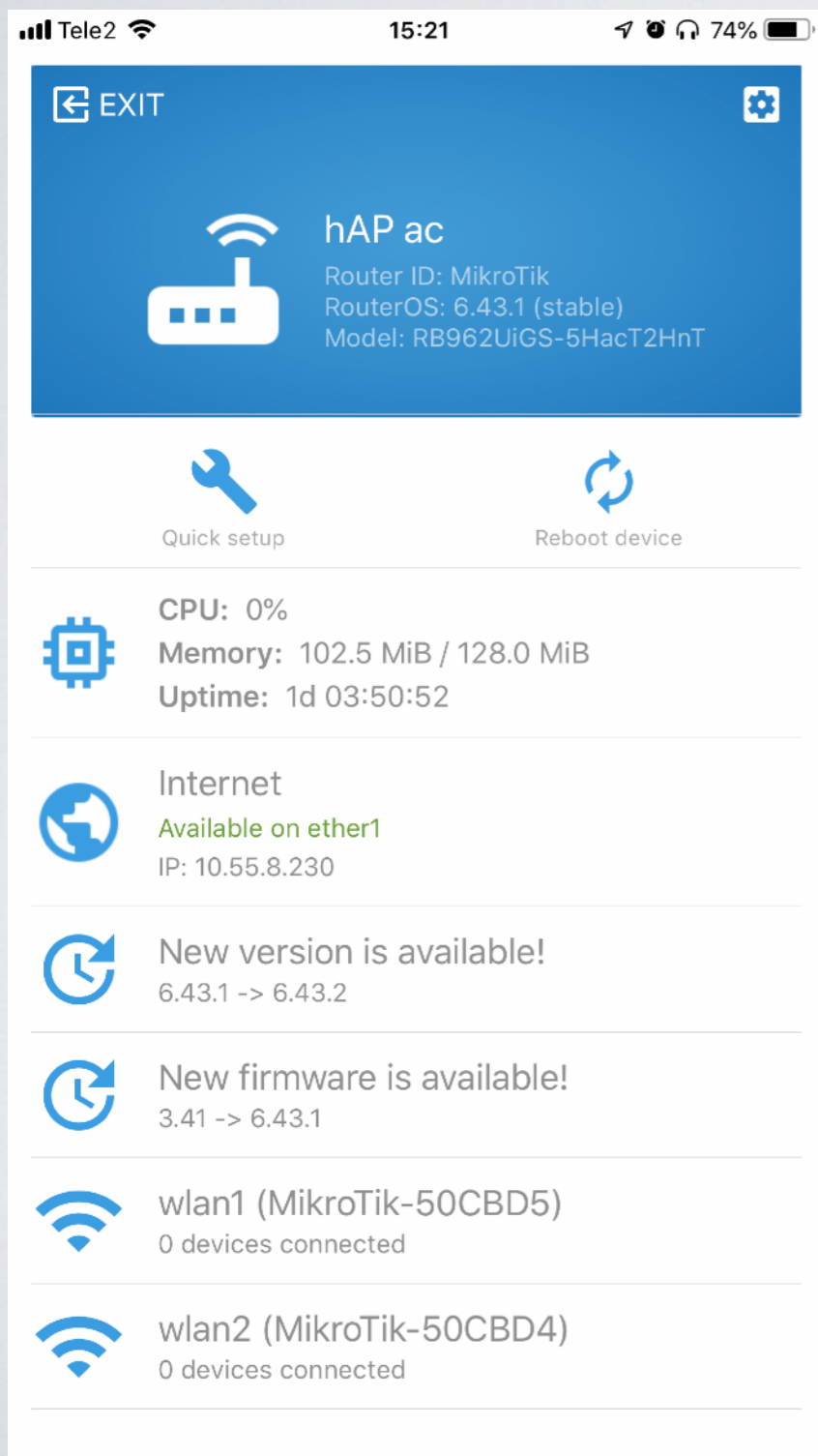
admin

Password

Keep password


SAVE CONNECT


MikroTik App iOS / Android





15:21 74%


EXIT


 **hAP ac**
Router ID: MikroTik
RouterOS: 6.43.1 (stable)
Model: RB962UiGS-5HacT2HnT


 Quick setup


 Reboot device


 CPU: 0%


 Memory: 102.5 MiB / 128.0 MiB


 Uptime: 1d 03:50:52

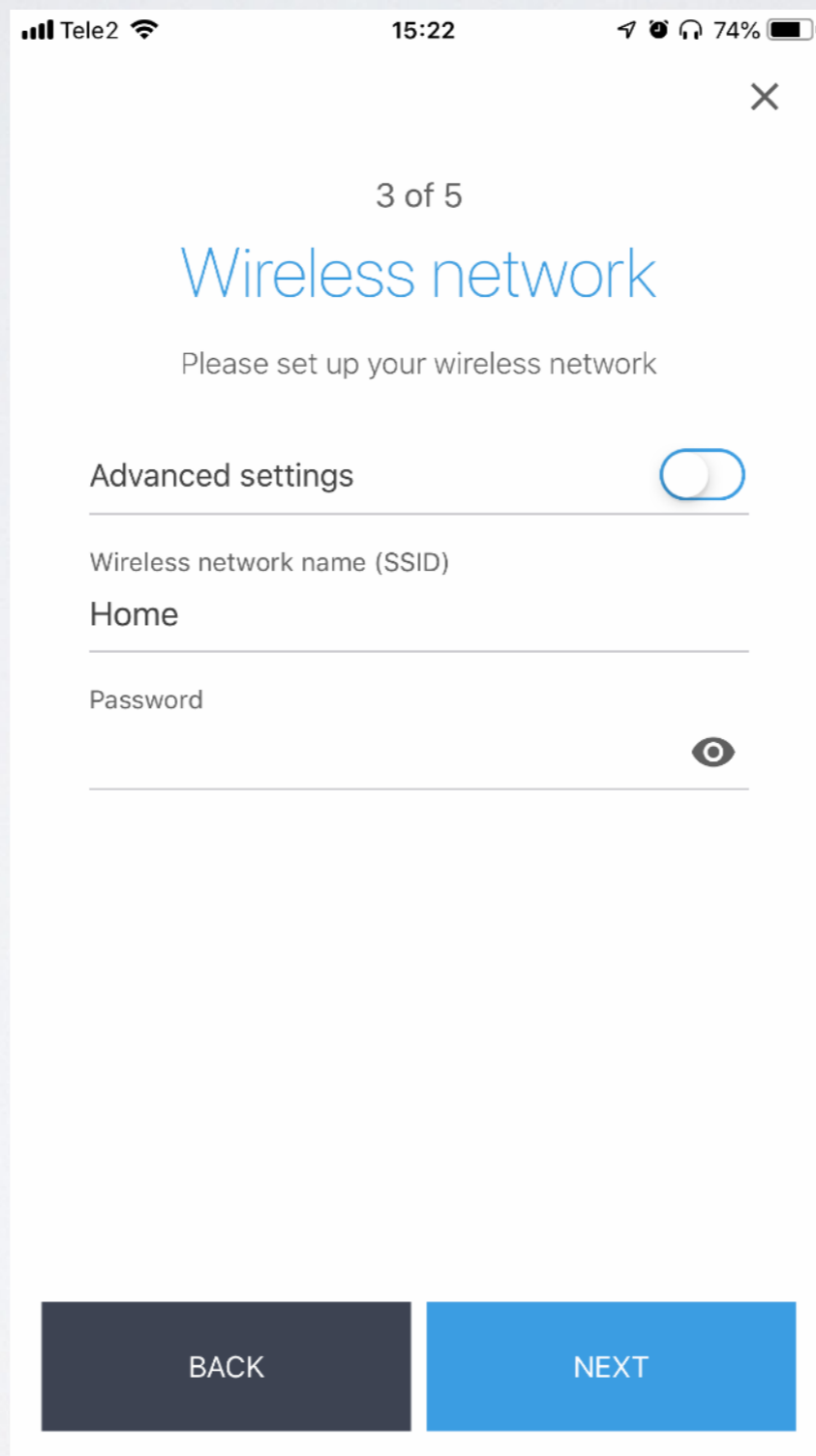
 Internet
Available on ether1
IP: 10.55.8.230

 New version is available!
6.43.1 -> 6.43.2

 New firmware is available!
3.41 -> 6.43.1

 wlan1 (MikroTik-50CBD5)
0 devices connected

 wlan2 (MikroTik-50CBD4)
0 devices connected



15:22 74%

3 of 5

Wireless network

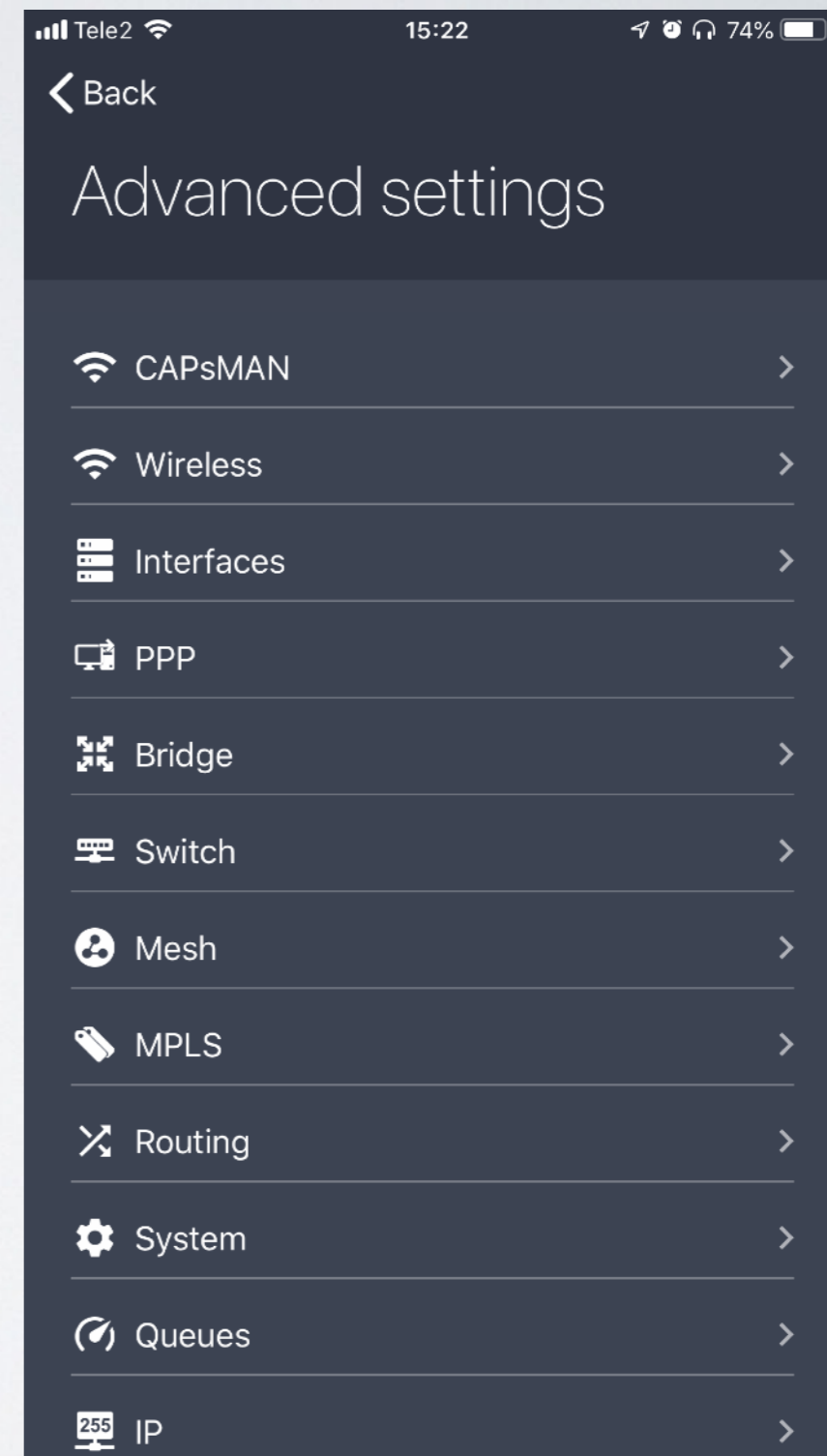
Please set up your wireless network

Advanced settings

Wireless network name (SSID)
Home

Password













BACK NEXT



15:22 74%

Back

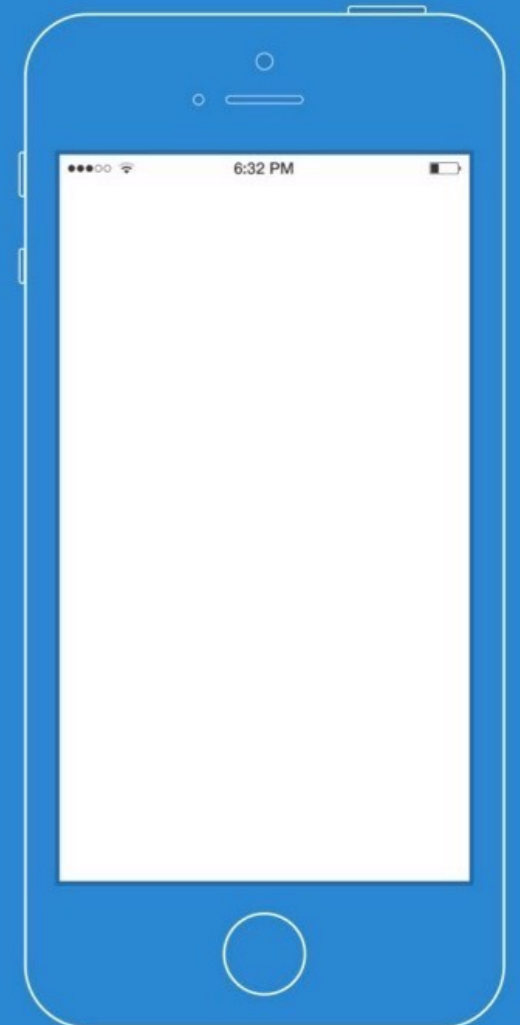
Advanced settings

-  CAPsMAN
-  Wireless
-  Interfaces
-  PPP
-  Bridge
-  Switch
-  Mesh
-  MPLS
-  Routing
-  System
-  Queues
-  IP

MikroTik Tik-App iOS beta invite



TestFlight



Need help?

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

After the MUM

- All presentations - mum.mikrotik.com
- Videos - 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 font. The "Mikro" part is in a regular weight, while the "Tik" part is in a bold, italicized weight. Above the "i" in "Mikro" are three curved lines. The entire logo is reflected on a glossy surface below it.

MikroTik