MUM Brasil

São Paulo

Novembro 2018

MUM Brasil, 2008

MUM Brasil, 2008

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

MikroTik

- 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

LETONIA
Iceland
Finland
Sweden
Norway
Russia
Estonia
Den-
mark
Lithuania
Ireland
United
Kingdom
Belarus
Kazakhstan
Nether-
lands
Poland
Belgium
Germany
Ukraine
Luxembourg
Czech Republic
Slovakia
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Austria
Hungary
Romania
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nia
Croatia
Georgia
Azerbaijan
Armenia
Monaco
Bosnia and
Herzego-
vina
Serbia
San
Marino
Andorra
Monte-
negro
Bulgaria
Portugal
Italy
Iran
Spain
Mace-
donia
Vatican City
Al-
ba-
nia
Turkey
Greece
Syria
Iraq

STAFF

Look for MikroTik staff in the red t-shirts

Uldis Cernevskis (support)
Maris Bulans (support)
Kaspars Krampis (training)
Janis Jankovskis (sales)

Agenda

Apresentações	09:00
Almoço (com bilhetes)	12:00
Apresentações	14:00
Sorteio (amanhã)	16:15

mum.mikrotik.com

WiFi

SSID: **MUM Brasil**

Password: **mikrotik**

MUM Live

www.youtube.com/mikrotik

Muito obrigado

md brasil
TI & TELECOM

WDC
Networks

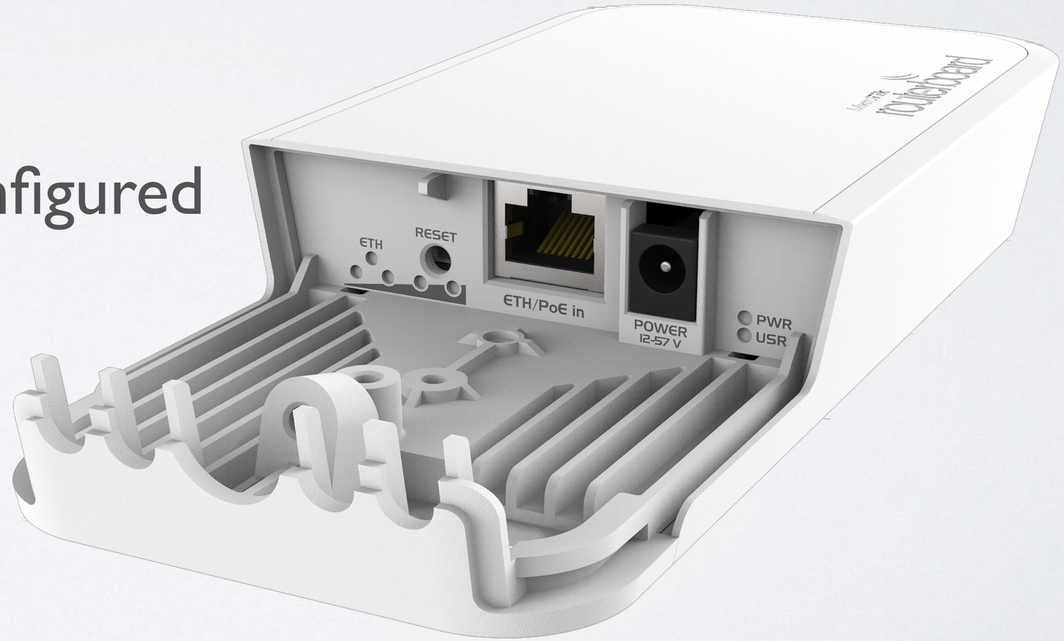
Some of our latest products

1Gbit
over wireless
100m+
range
60GHz
radio
Gigabit
Ethernet
Paired
Secure Link
preconfigured
Powered by
AF/AT/Passive
PoE, DC jack
MikroTik
routerboard
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 1 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
- miniPCIe for LTE
- Built-in GPS
- Optional external antennas for GPS and LTE
- Serial port
- Perfect for outdoor and mobile applications

NOW

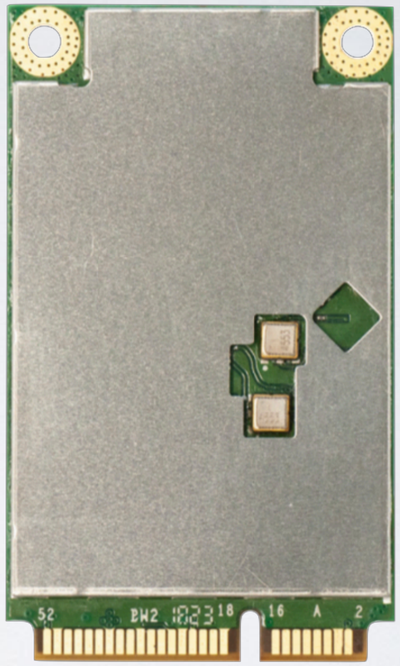
Available now

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

R11e-4G

NOW

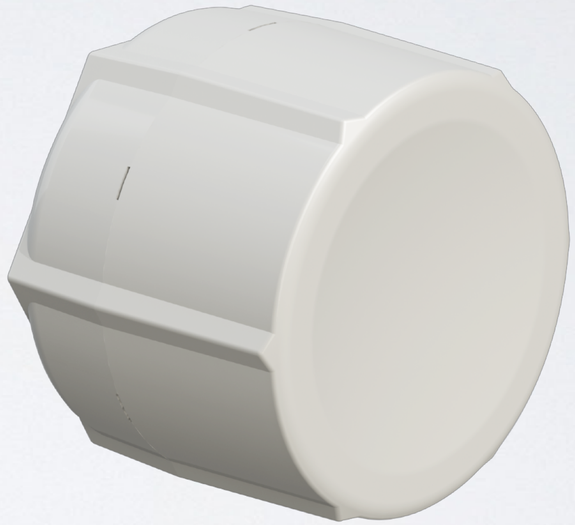
- 4G Modem (no 2G/3G)
- 4 Category (150Mbps/ 50Mbps)
- 3,7,20,31 FDD bands
- 41n,42,43 TDD bands



SXT LTE kit

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



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

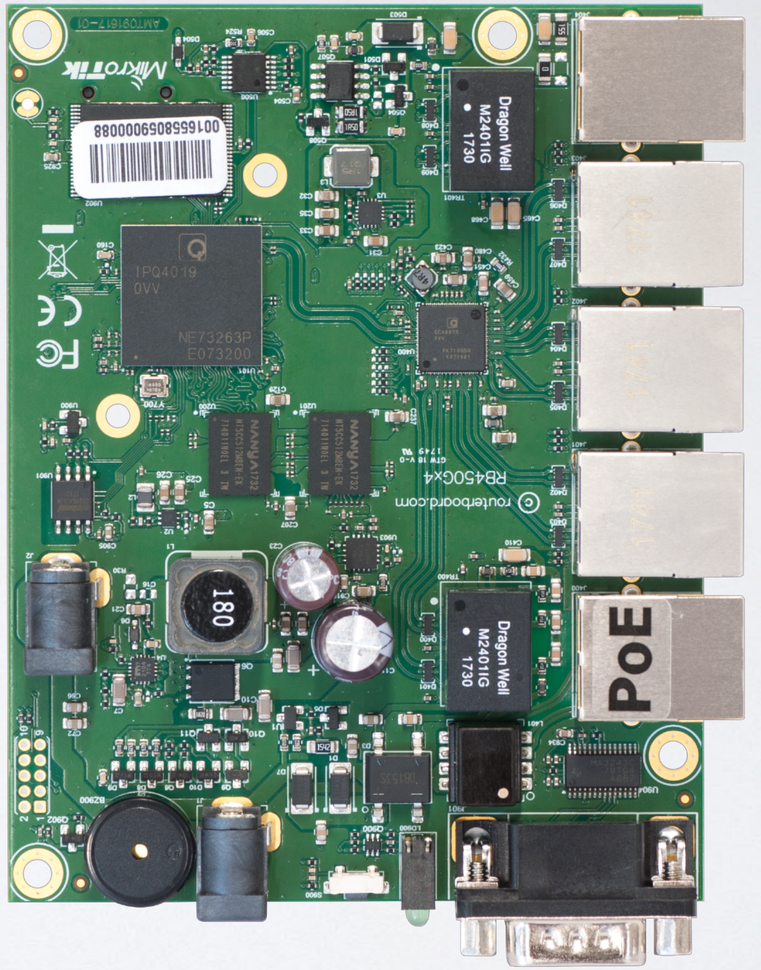
- Dual band, dual chain
- Gigabit port for 802.11ac speeds
- Two Ethernet ports
- PoE out
- Two cases included
- IPsec encryption
- Kit price $69

E1
E2
2G
5G

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

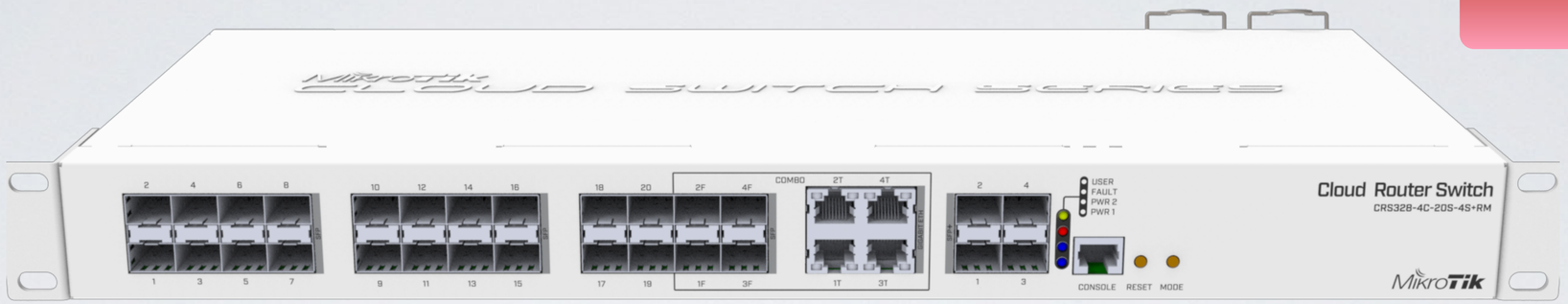
- 2 GHz CPE
- Mounts in regular satellite dish
- Ultra long range
- Price $39

mANTBox2 12s

NOW

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

NOW



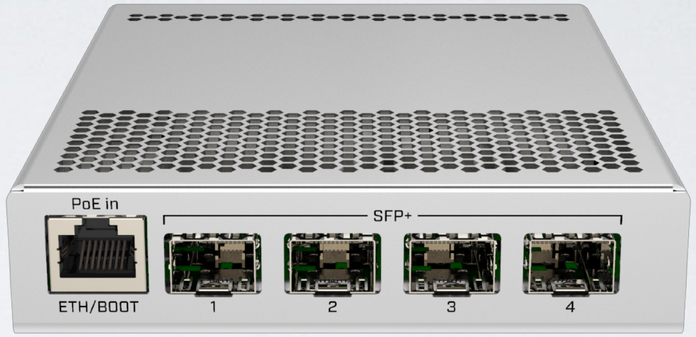
CRS328-4C-20S-4S+RM

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

CRS305-1G-4S+IN

NOW

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

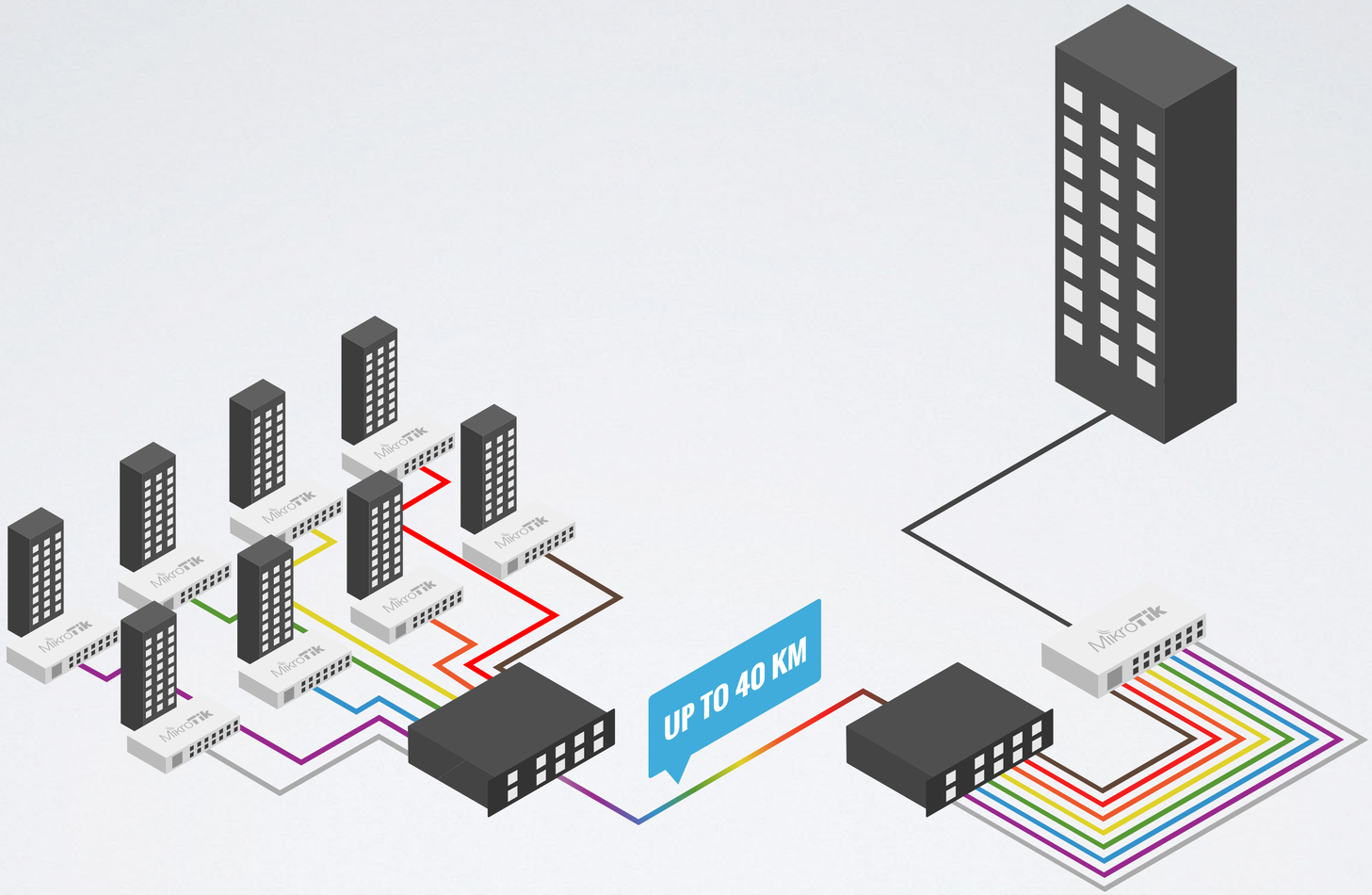


CWDM

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

NOW

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

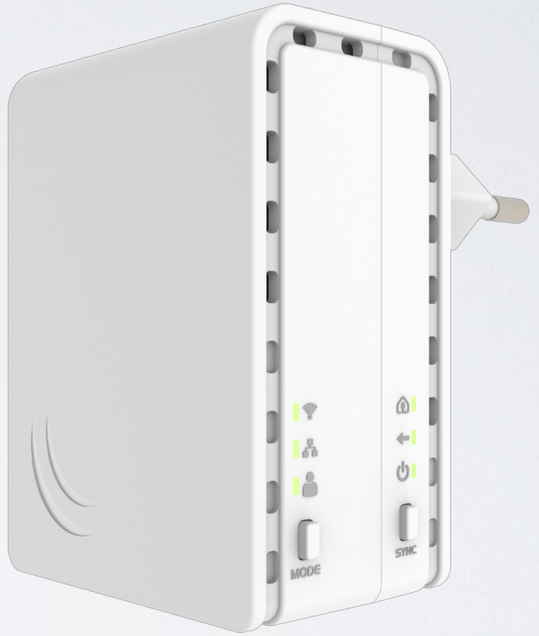
NOW

- 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

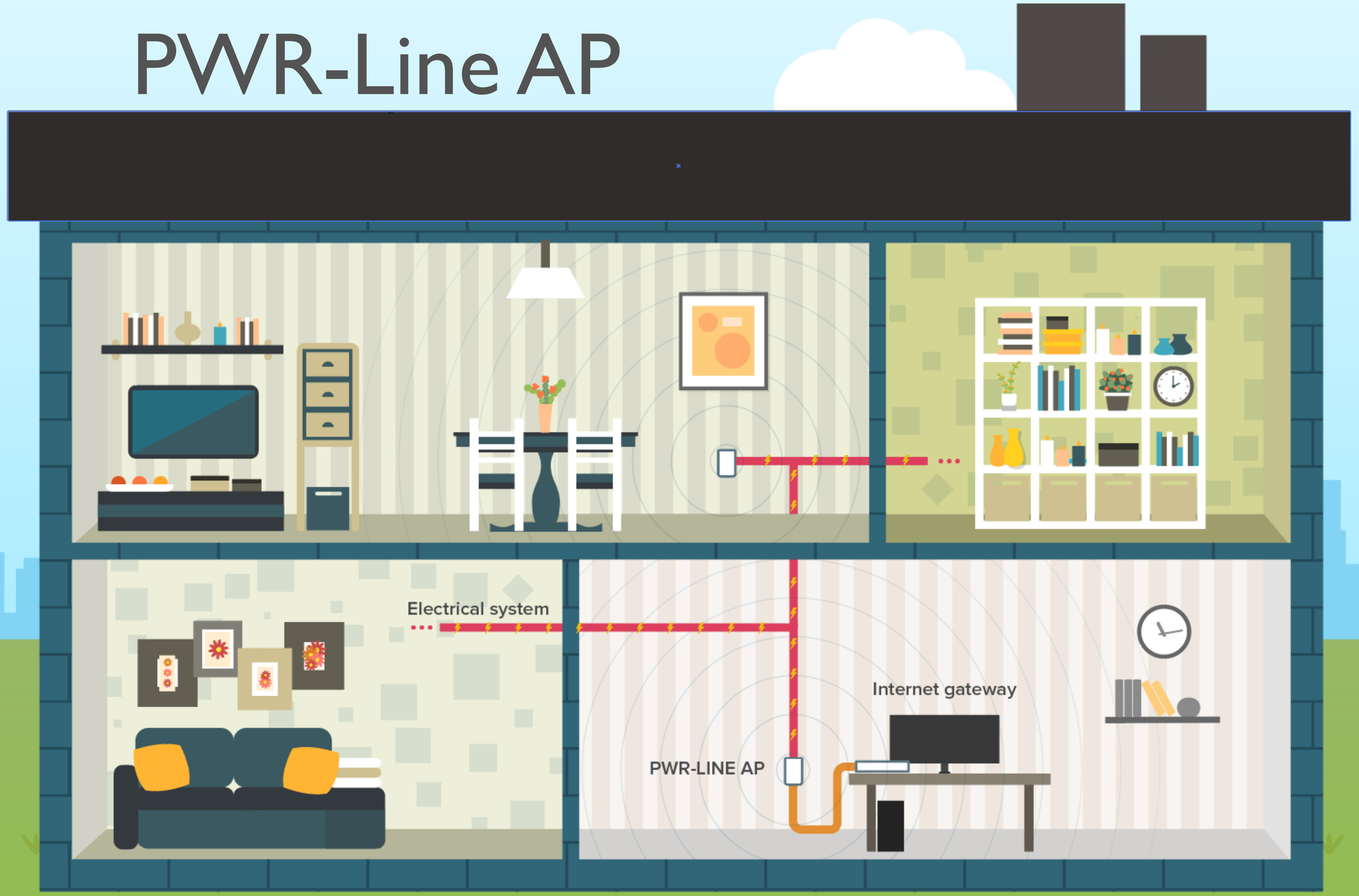
Some of our upcoming products

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

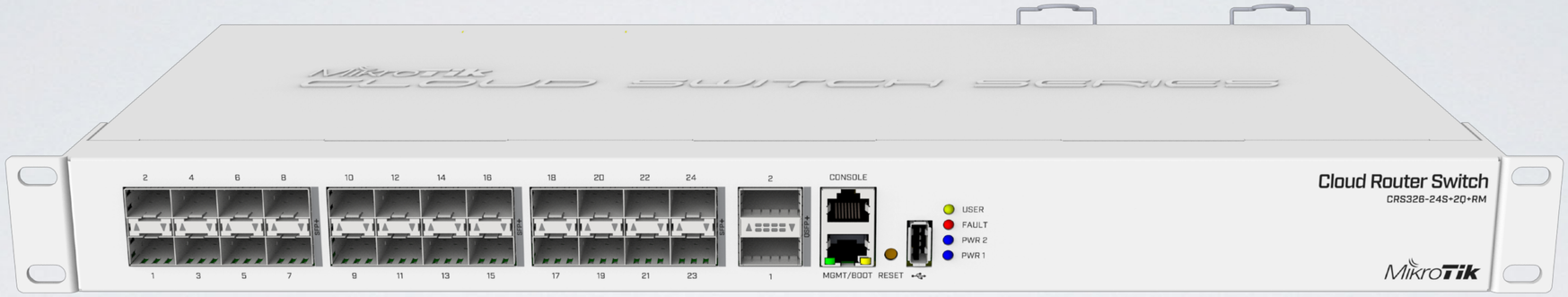


PWR-Line AP



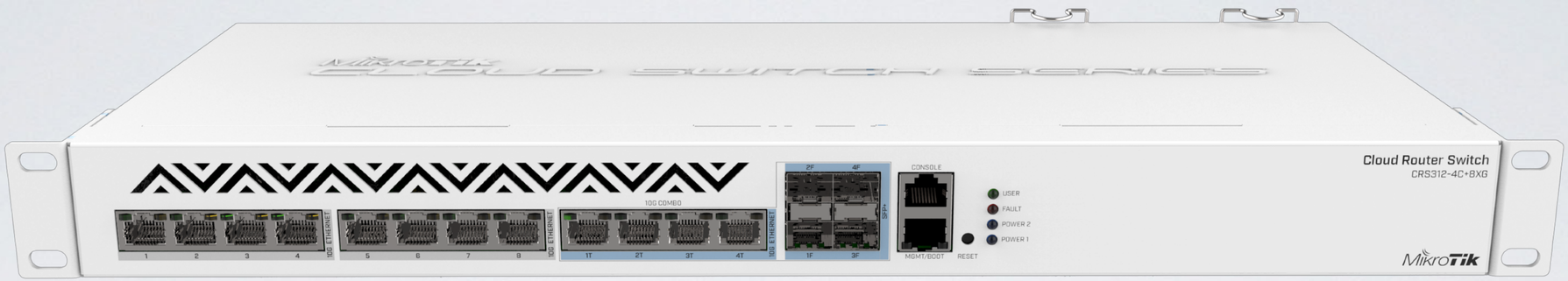
CRS309-1G-8S+PC

- 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

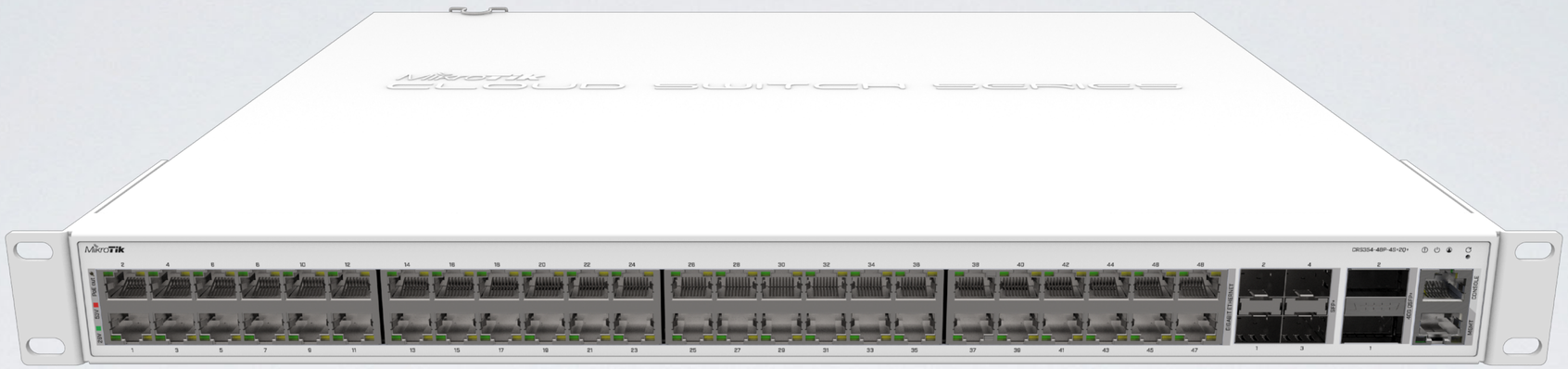


CRS312-4C+8XG

- 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

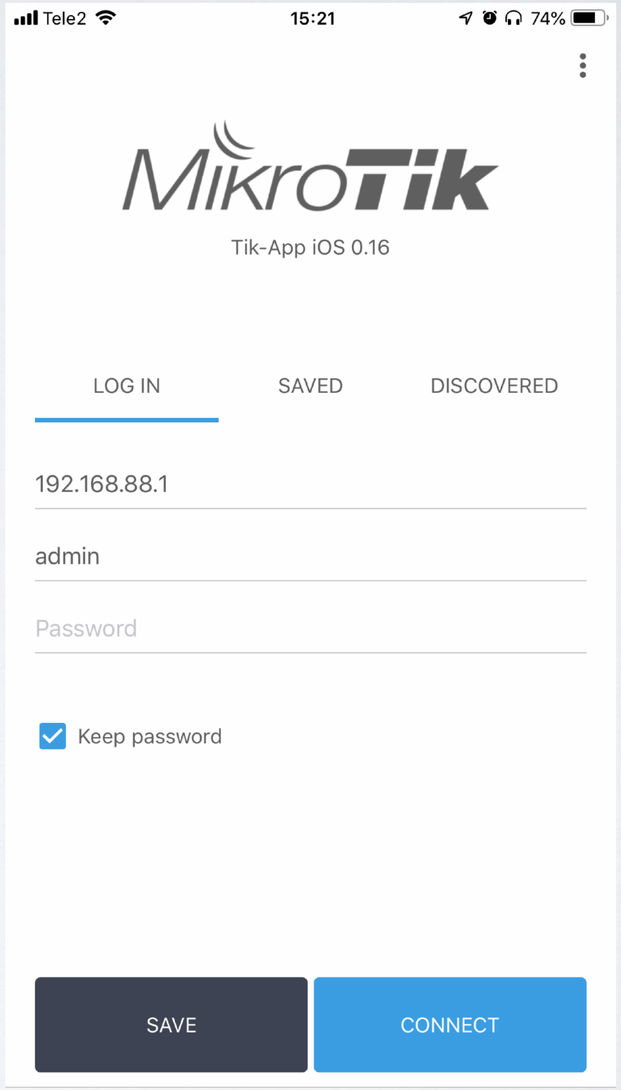
- Major received signal sensitivity improvements
- Maximum reachable distance improvements (up to 4 KM at full speed)
- Decreased re-connection times on lost connection
- PtMP performance improvements
- Added hardware stats [/interface w60g print stats]

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

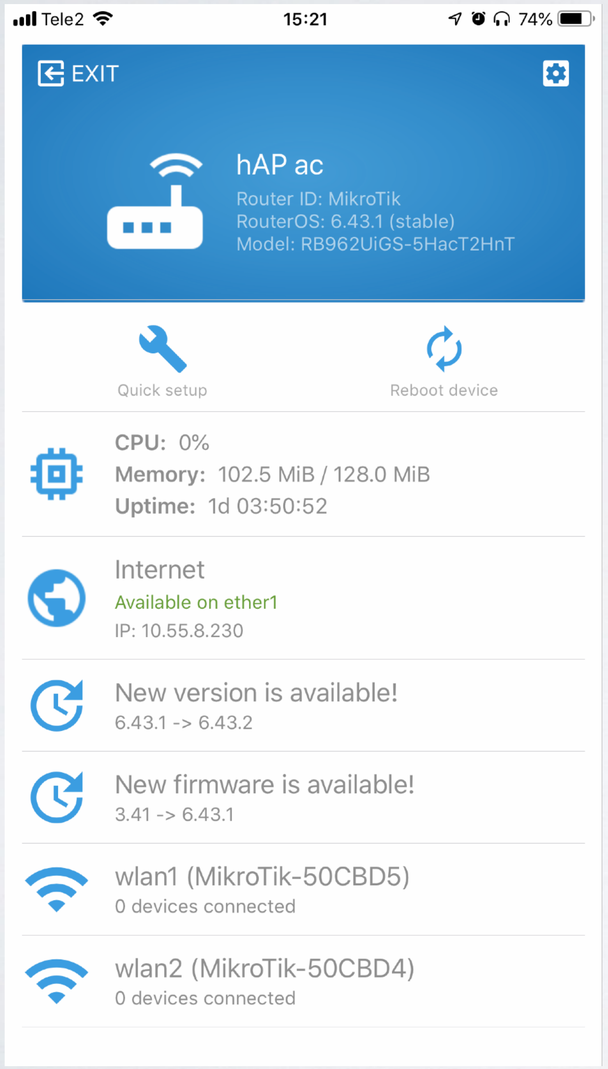
- Fixed within 24 hours (in April)
- Affects only devices with no firewall
- MikroTik routers **have** default firewall

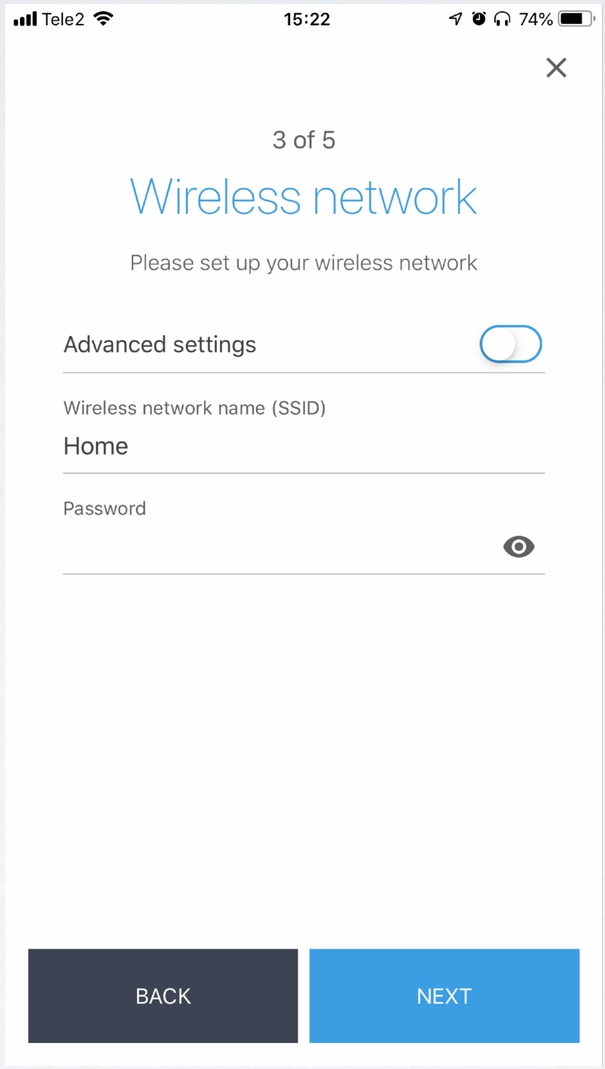
MikroTik App iOS / Android

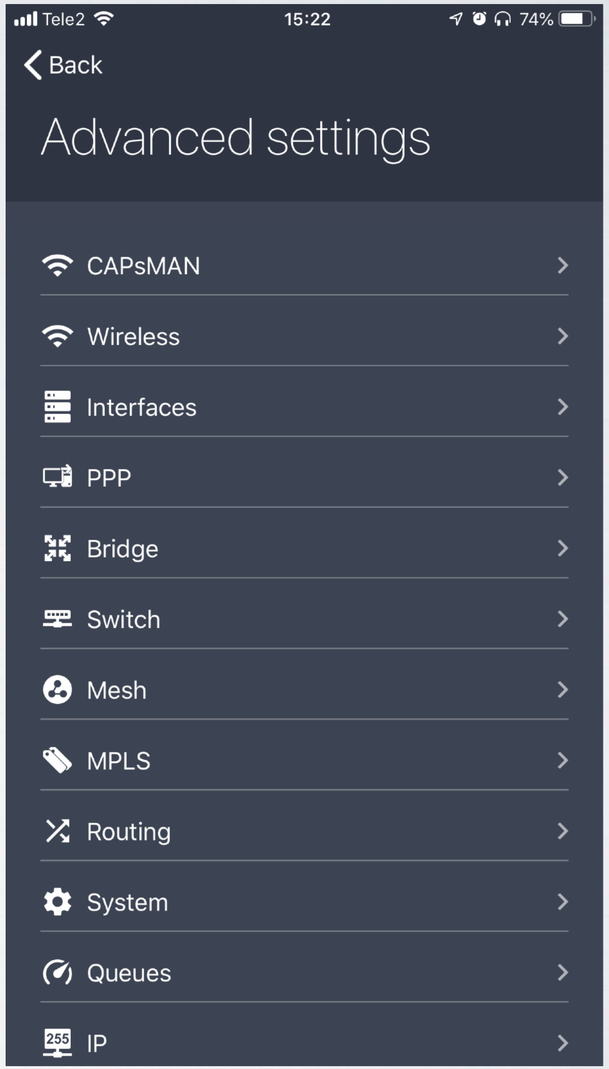
- Auto-Configuration
- Simplified interface
- support@mikrotik.com



MikroTik App iOS / Android

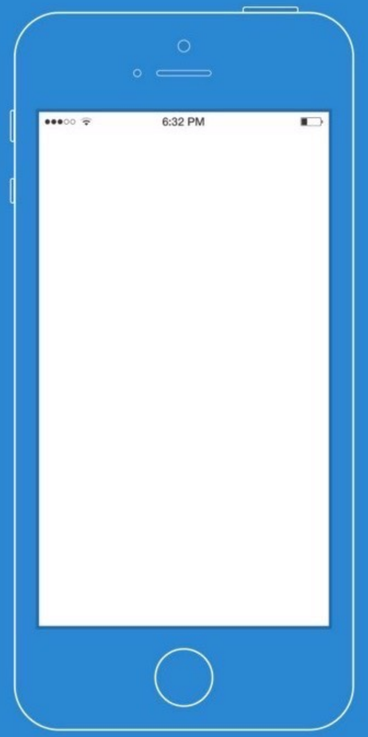






MikroTik Tik-App **iOS** beta invite

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

MikroTik