

The logo for MikroTik, featuring the word "Mikro" in a white, italicized, sans-serif font, followed by "Tik" in a white, bold, italicized, sans-serif font. A stylized white graphic of three curved lines is positioned above the letter 'i' in "Mikro".

MikroTik

BULGARIA  
JUNE 2019



WHAT DO WE DO?

The background of the image is a blurred photograph of various network hardware components, including a rack-mounted switch, a patch panel, and several network cables. The image is overlaid with a semi-transparent gradient that transitions from a reddish-pink on the left to a purple on the right. A white rectangular border is centered horizontally across the middle of the image, containing the text.

WE MAKE SOFTWARE AND HARDWARE



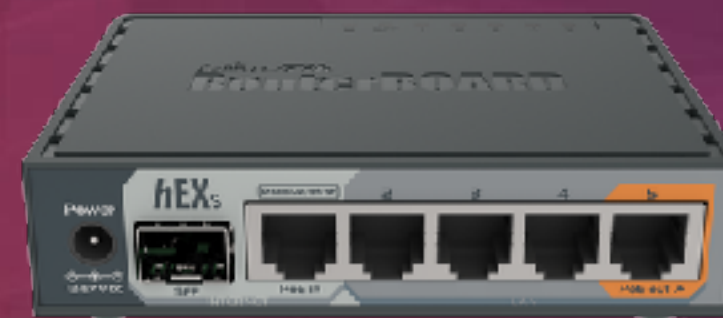
# MORE THAN 200 PRODUCTS



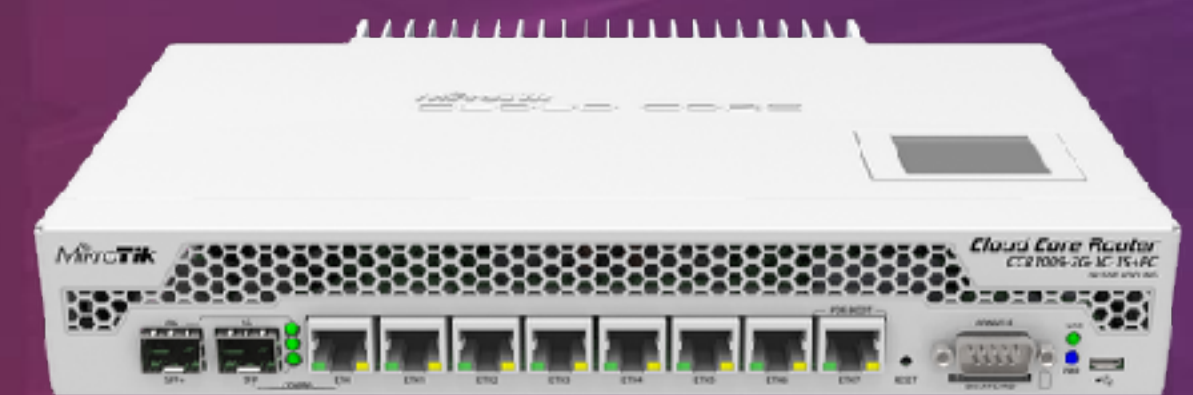
HOME



OUTDOOR



SOHO



CARRIER





LATVIA



- Established in 1996
- RouterOS created in 1997
- RouterBOARD created in 2002



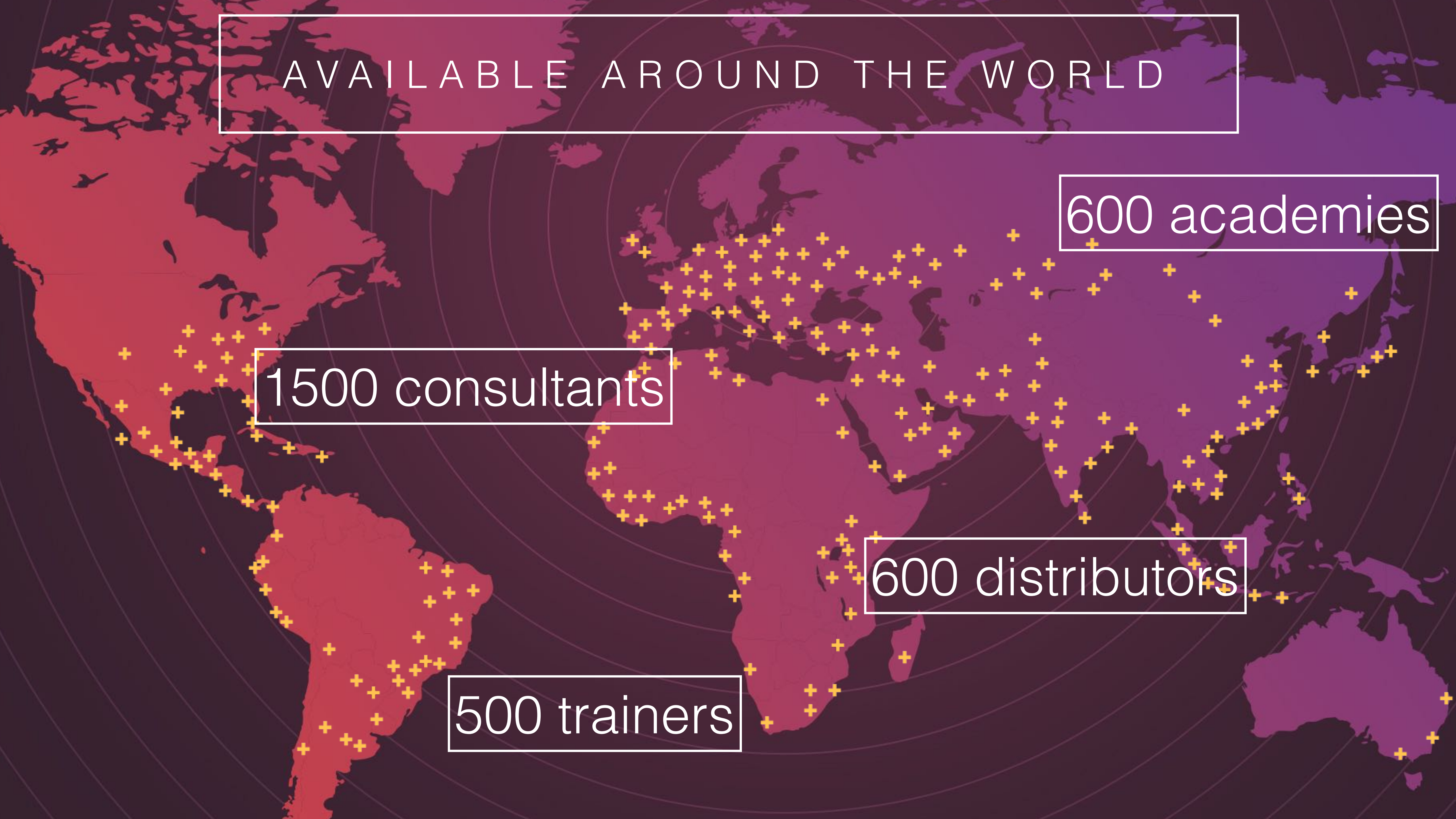
AVAILABLE AROUND THE WORLD

600 academies

1500 consultants

600 distributors

500 trainers





# MIKROTIK USER MEETING

A world map with a dark purple and red color scheme. Numerous orange hexagonal markers with white outlines are scattered across the map, representing the locations of Mikrotik User Meetings. The markers are most densely clustered in North America, Europe, and Asia, with fewer markers in South America, Africa, and Australia.

80+ countries

200 events

3500+  
participants



# MUM Bulgaria 2019

- 3 staff members from MikroTik
- Arrange a business meeting at the registration desk
- Agenda for today: <https://www.mt.lv/agenda>
- Lunch with coupon
- Beer, drinks and lottery after the event
- WiFi: MUM Bulgaria, password “mikrotik”

Special thanks!



MikroTikBG.SHOP  
routing the world

MikroTikBG.SHOP





LIVESTREAM

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



# RECENT PRODUCTS



# 60 GHz device family

wAP 60Gx3 AP



Wireless Wire Dish



SXTsq Lite60



LHG Lite60





# 4G kits

LtAP mini



wAP



SXT



LHG





# CRS309-1G-8S+PC



- 8x SFP+ ports
- 1x Gigabit Ethernet
- Passive cooling case
- Redundant power using PoE

# PWR Line AP



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



# PWR Line AP



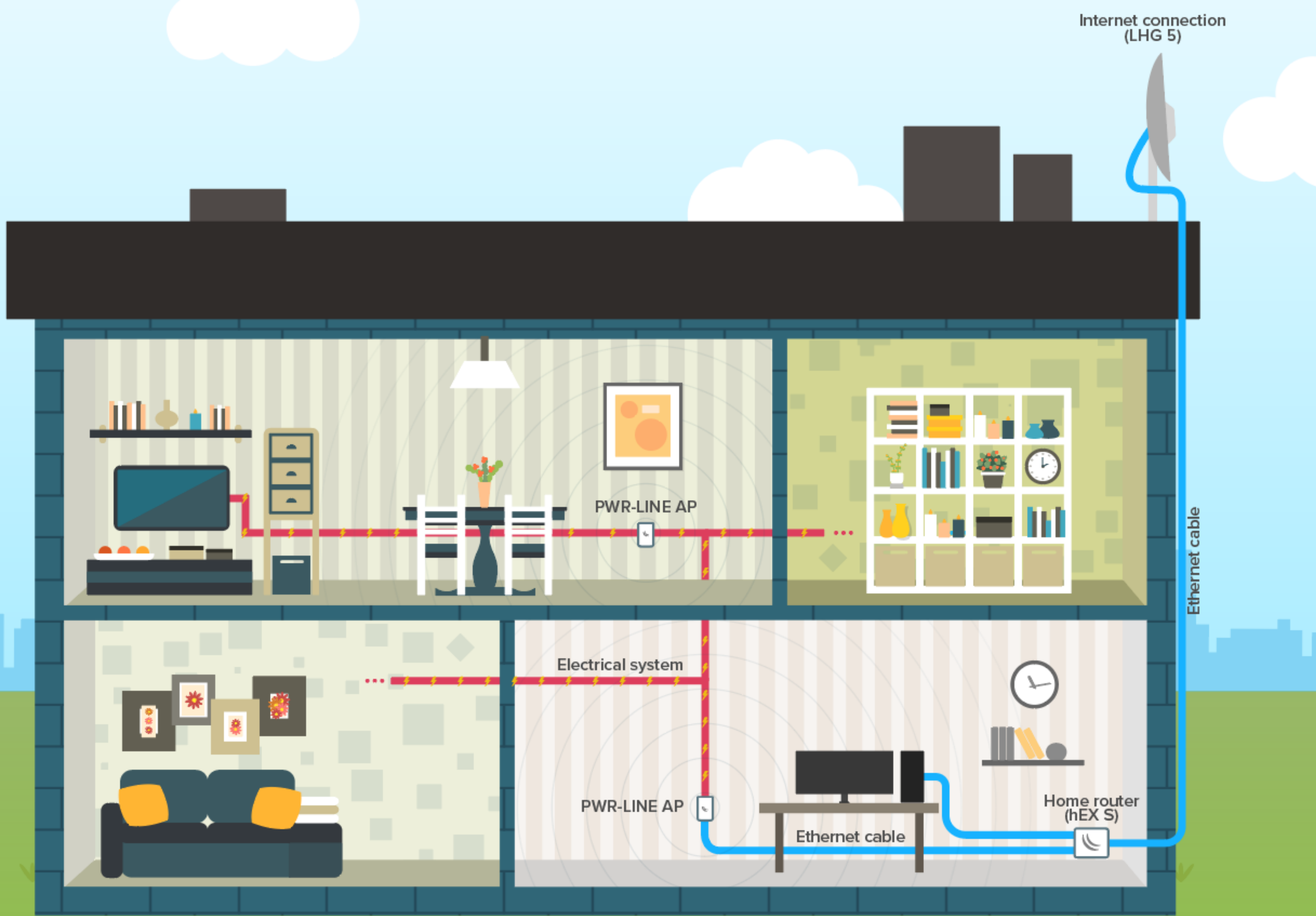
- Automatically pairs with new devices
- Uses HomePlug AV standard
- Runs standard RouterOS

# PWR Line



- Adds PowerLine function via microUSB
- Supported by the new hAP lite & mini and mAP family devices
- Connect to PWR Line AP or other routers over the electrical line





# RouterBOARD 4011





# RouterBOARD 4011

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



# RouterBOARD 4011

- 4 Core Cortex A15 CPU
- 10 Gigabit SFP+
- IPsec hardware encryption
- 1 GB RAM
- PoE out





# RouterBOARD 4011



# wAP ac kit



- Dual band and dual chain (2.4/5 GHz) wireless
- Two Gigabit Ethernet interfaces
- miniPCIe slot for LTE card
- 4 core CPU
- Three models available (LTE, 4G, without miniPCIe card)





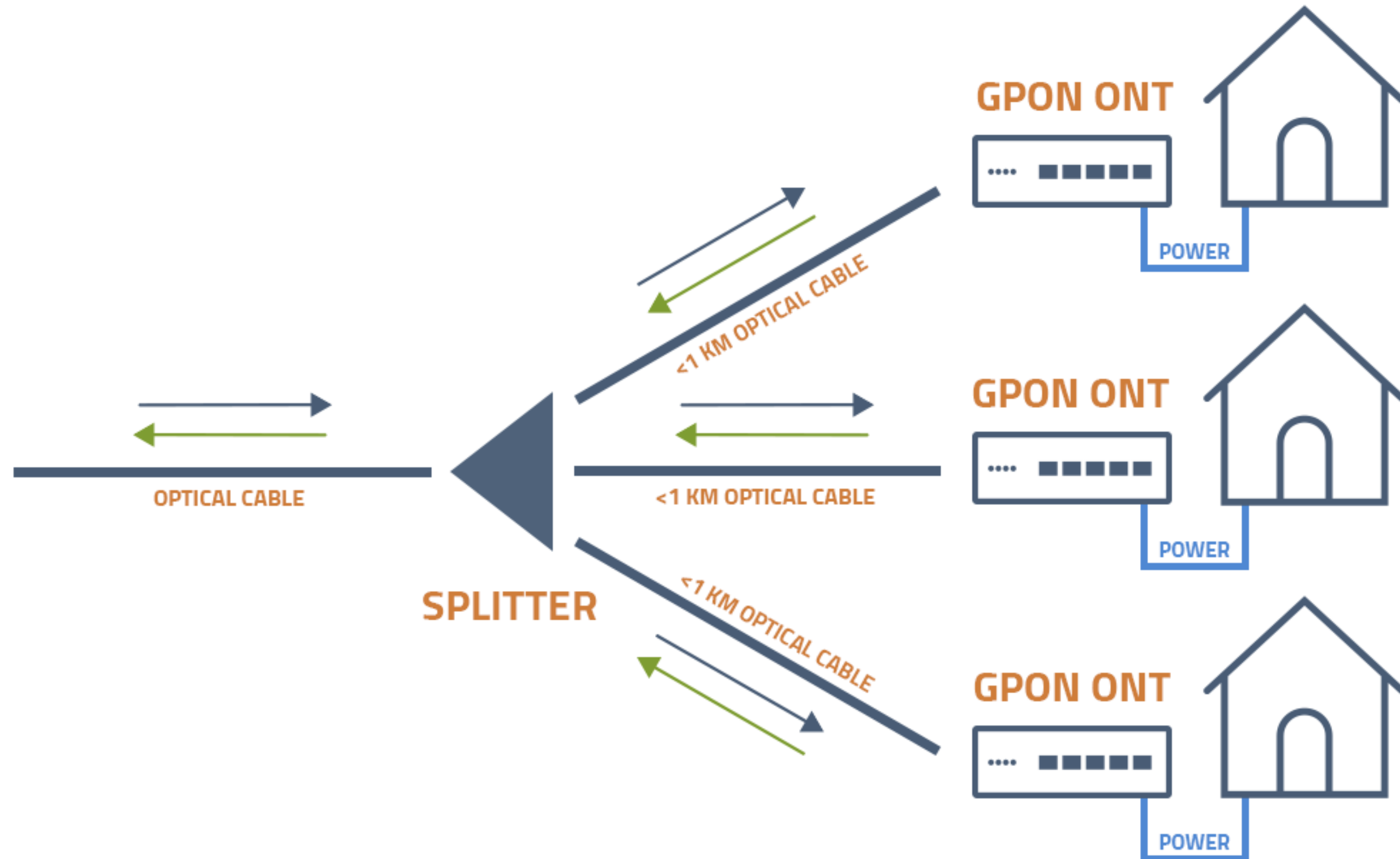
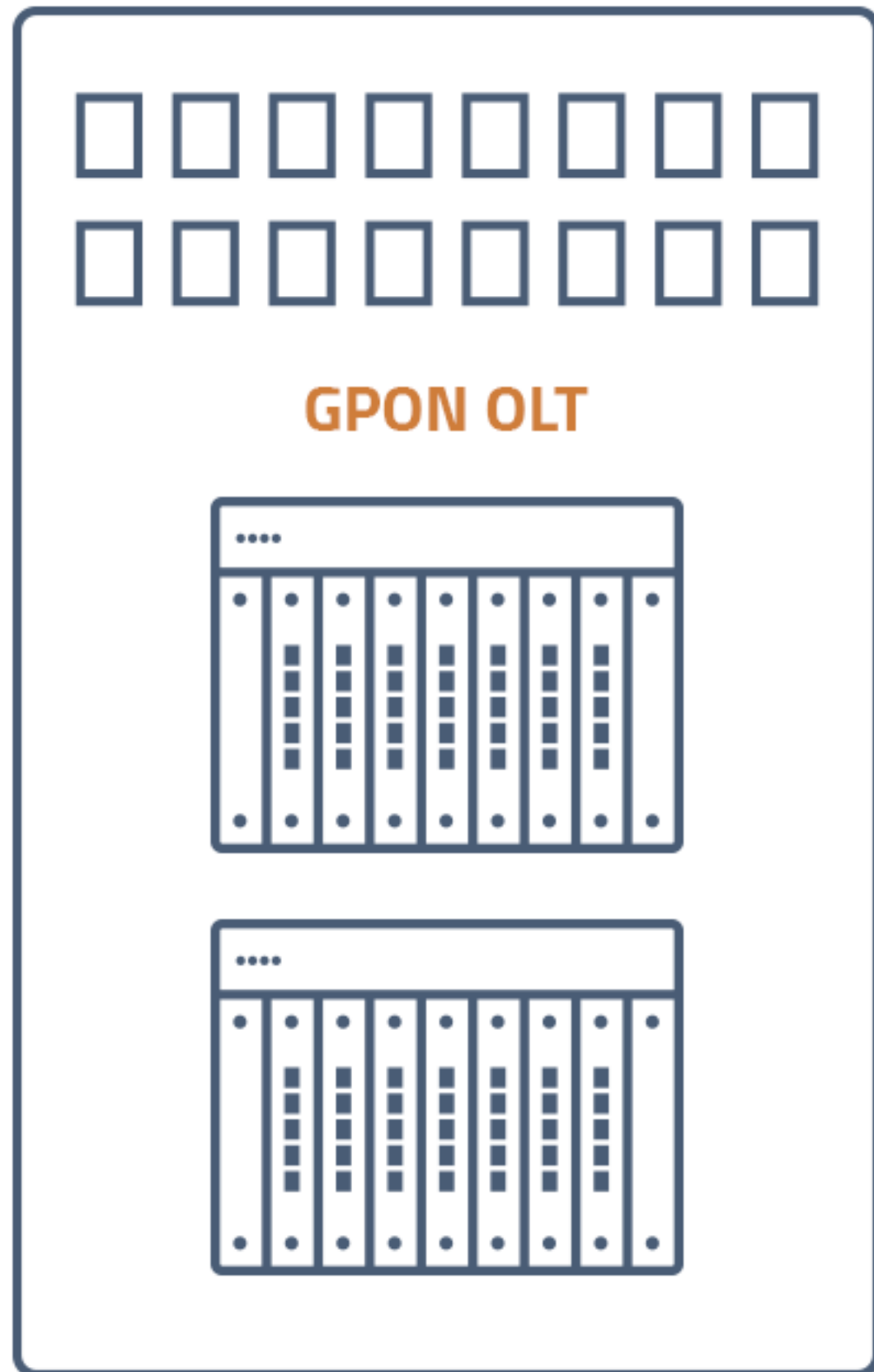
UPCOMING PRODUCTS

The background of the image shows various pieces of network hardware, including a black HP network switch on the left, a white vertical server rack in the center, and a white network switch on the right. The entire scene is overlaid with a semi-transparent purple-to-pink gradient. A white rectangular border frames the central text.

GPEN



## CENTRAL OFFICE



The background of the image shows various network hardware components, including a rack-mounted switch, a patch panel, and several network cables, all rendered in a semi-transparent, faded style. The overall color palette is a gradient of purple and blue.

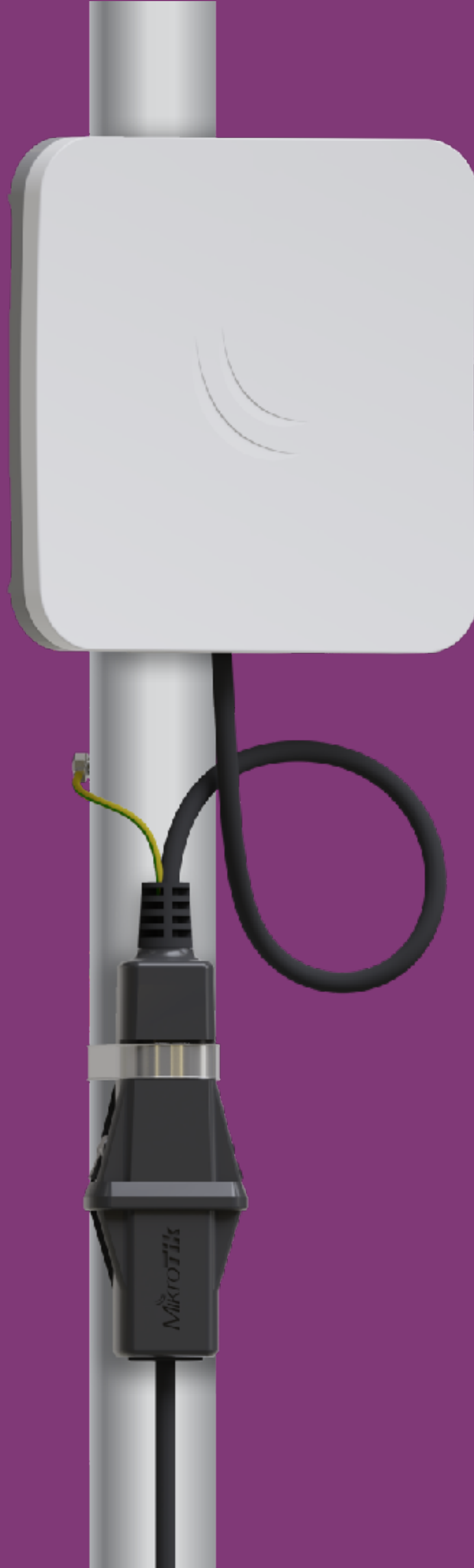
# GIGABIT PASSIVE ETHERNET NETWORK



# GPER



- Gigabit passive Ethernet repeater
- Ethernet extender with PoE passthrough
- 24-57 V supported
- Intergrated 15 kV ESD protection
- ~2.5 V loss per 100 meters, allows up to 1.5 km long cable with PoE



# GESP

- Gigabit Ethernet surge protector
- Up to 30 kV
- Tower, server room or both

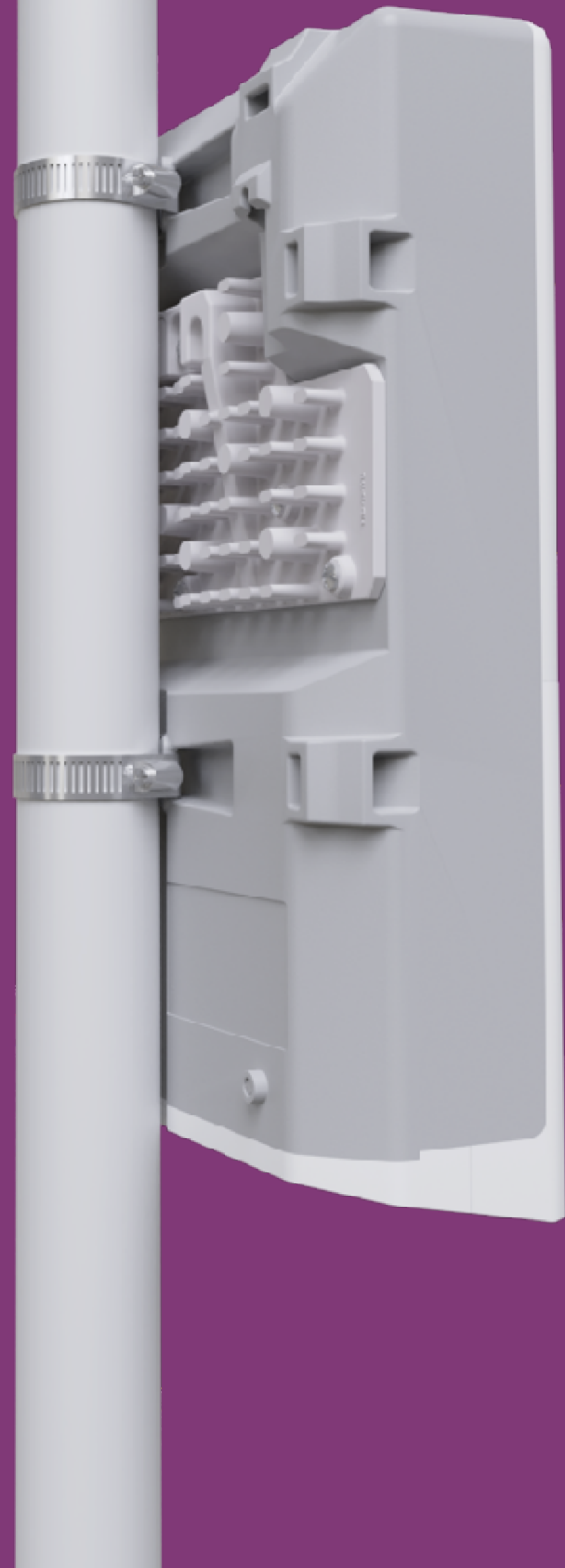




# GPEN

- Gigabit passive Ethernet network
- GPEN11 - PoE injector, can be mounted securely
- GPEN21 - smart injector, also adds SFP for fiber to copper functionality

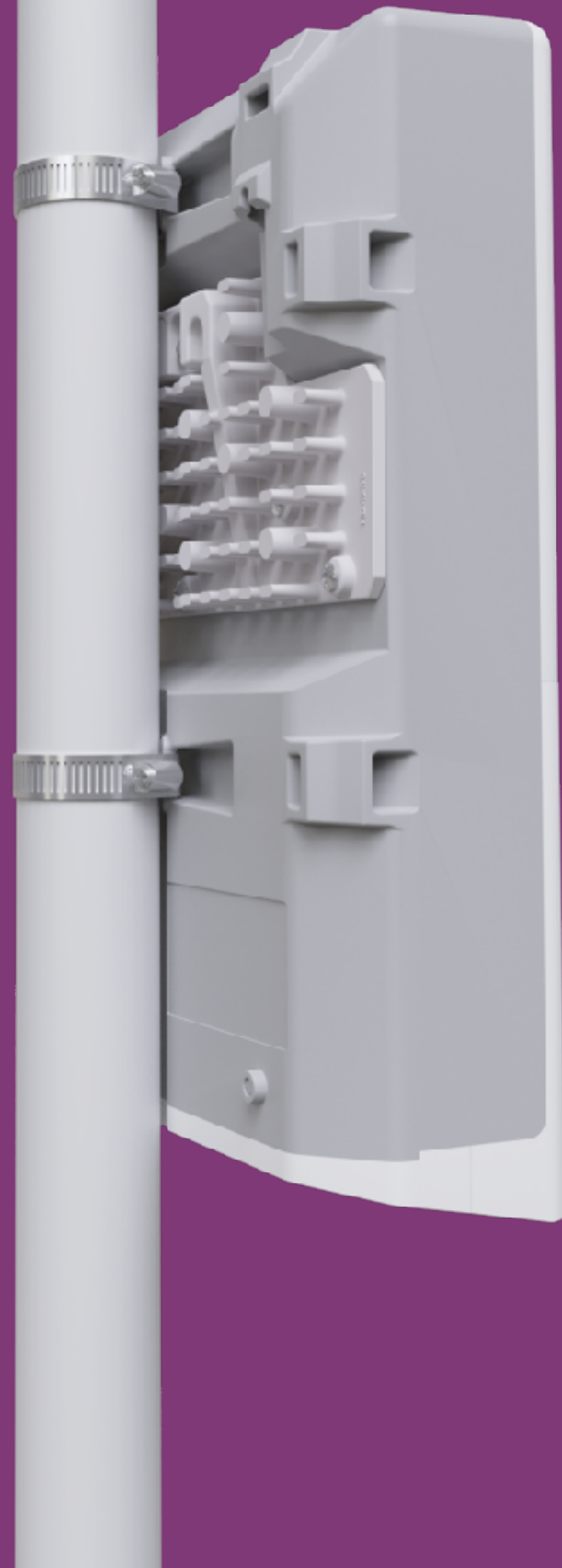
# netPower 15FR



- CRS318-1Fi-15Fr-2S
- 16 Ethernet ports and 2xSFP uplinks
- Reverse PoE (PoE in) on 15x ports
- PoE out on single port
- Very affordable pricing

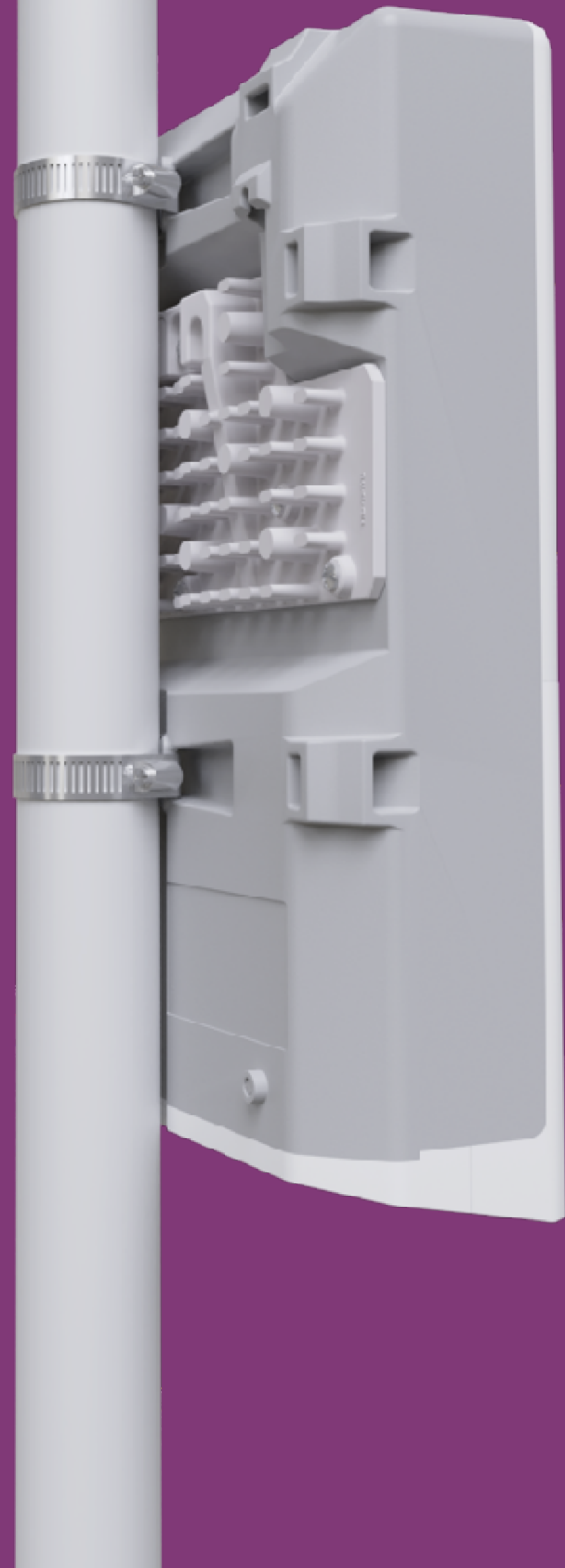


# netPower 16P

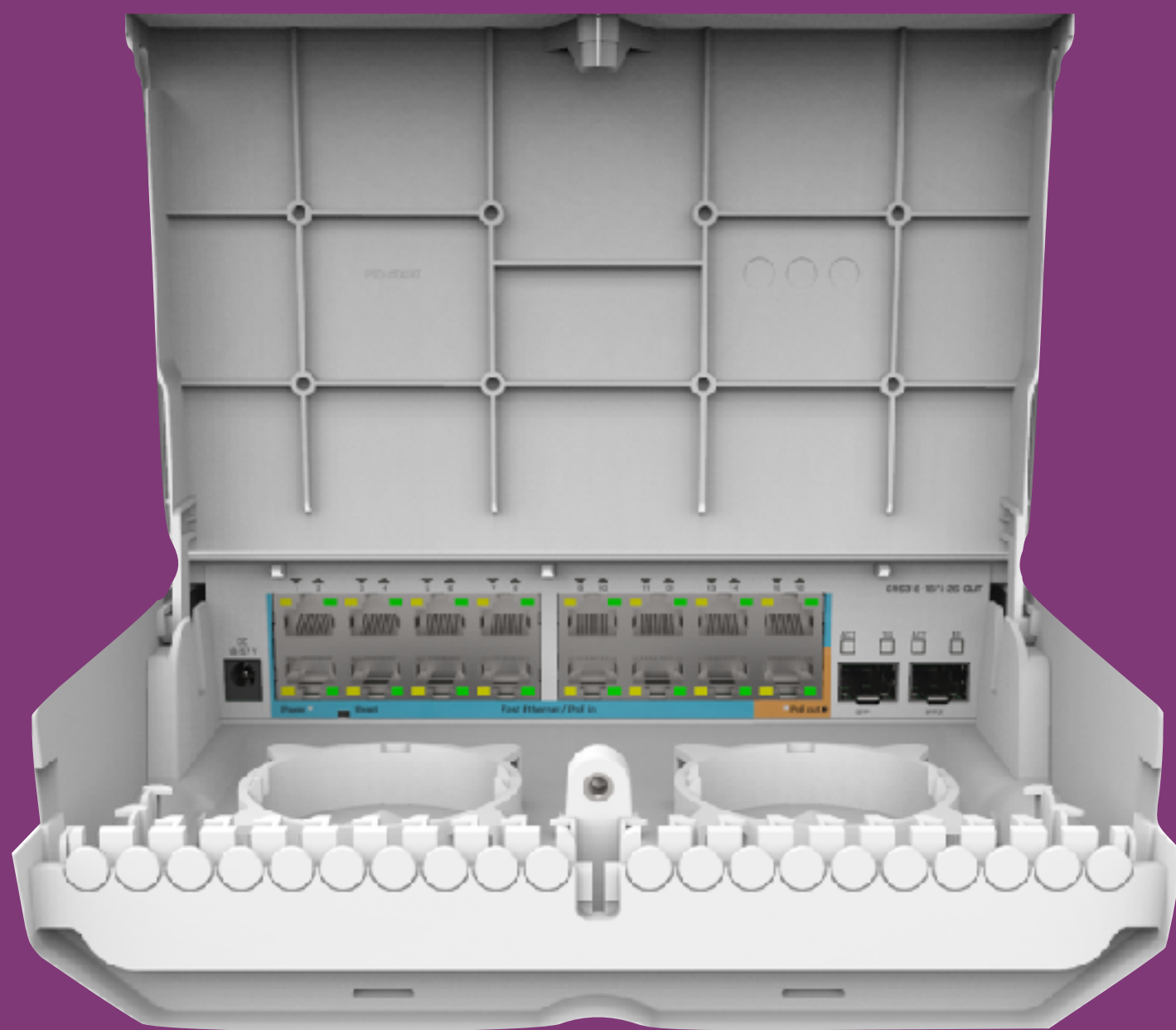


- CRS318-16P-2S+
- 16 Gigabit Ethernet PoE out ports
- 2x SFP+ uplinks

# netPower Lite 8P



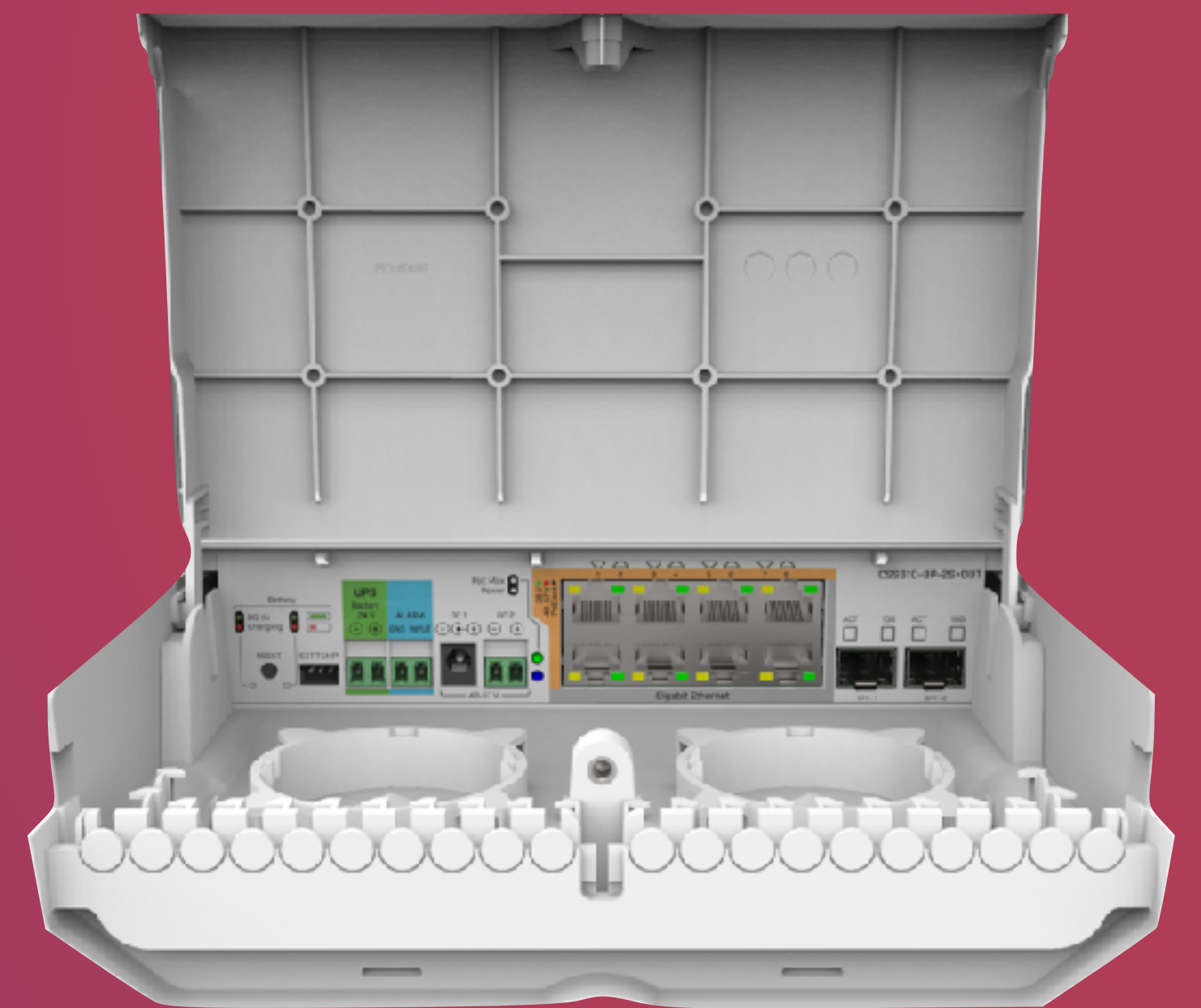
- CSS610-8P-2S+
- SwOS only
- 8 Ethernet ports with PoE out and 2x SFP+ uplinks
- Will have built-in UPS battery support
- Very affordable pricing



netPower 15FR



netPower 16P



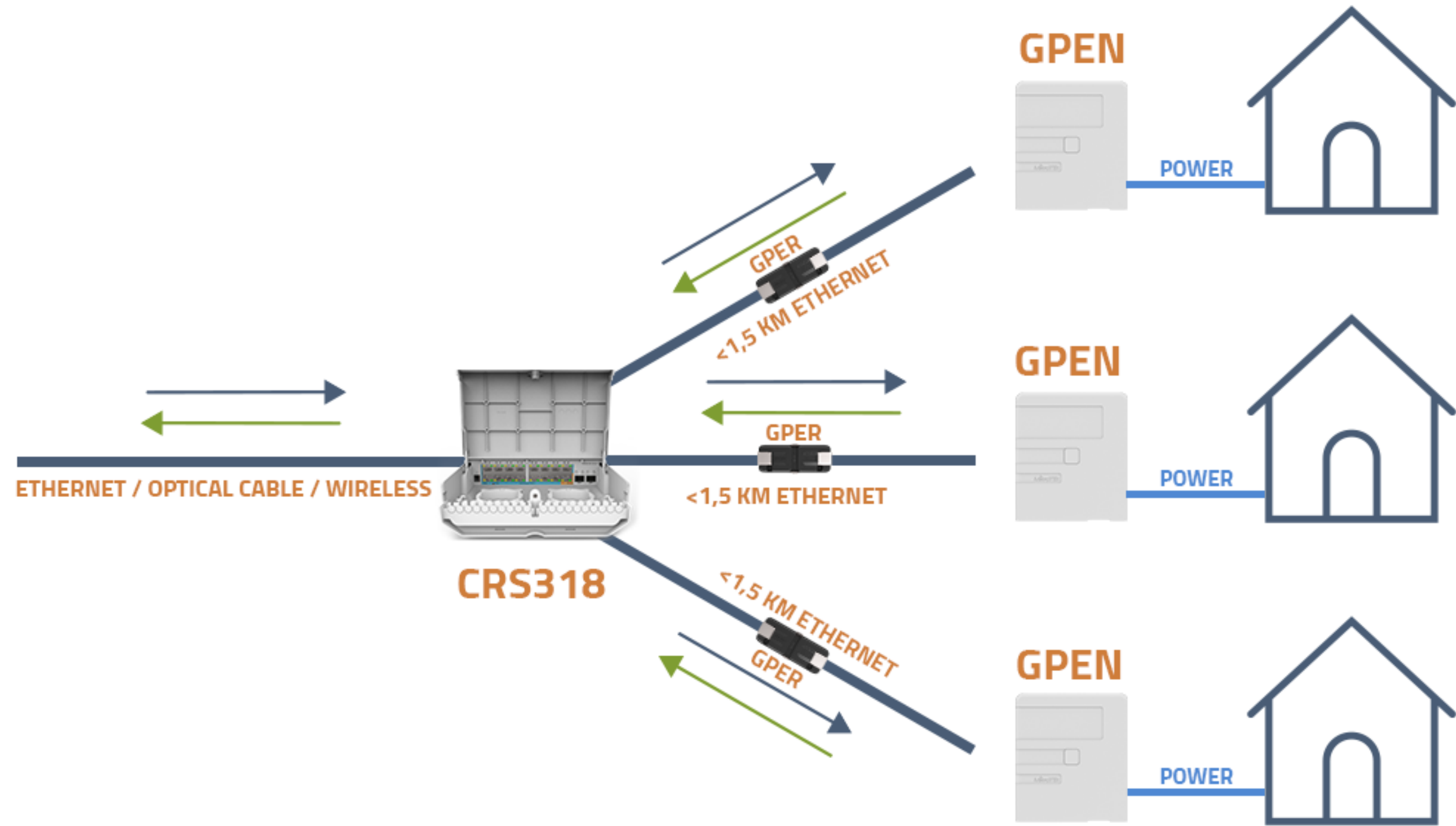
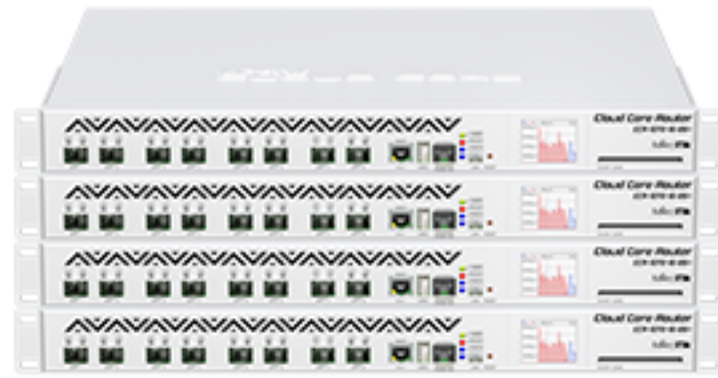
netPower Lite 8P



## CENTRAL OFFICE

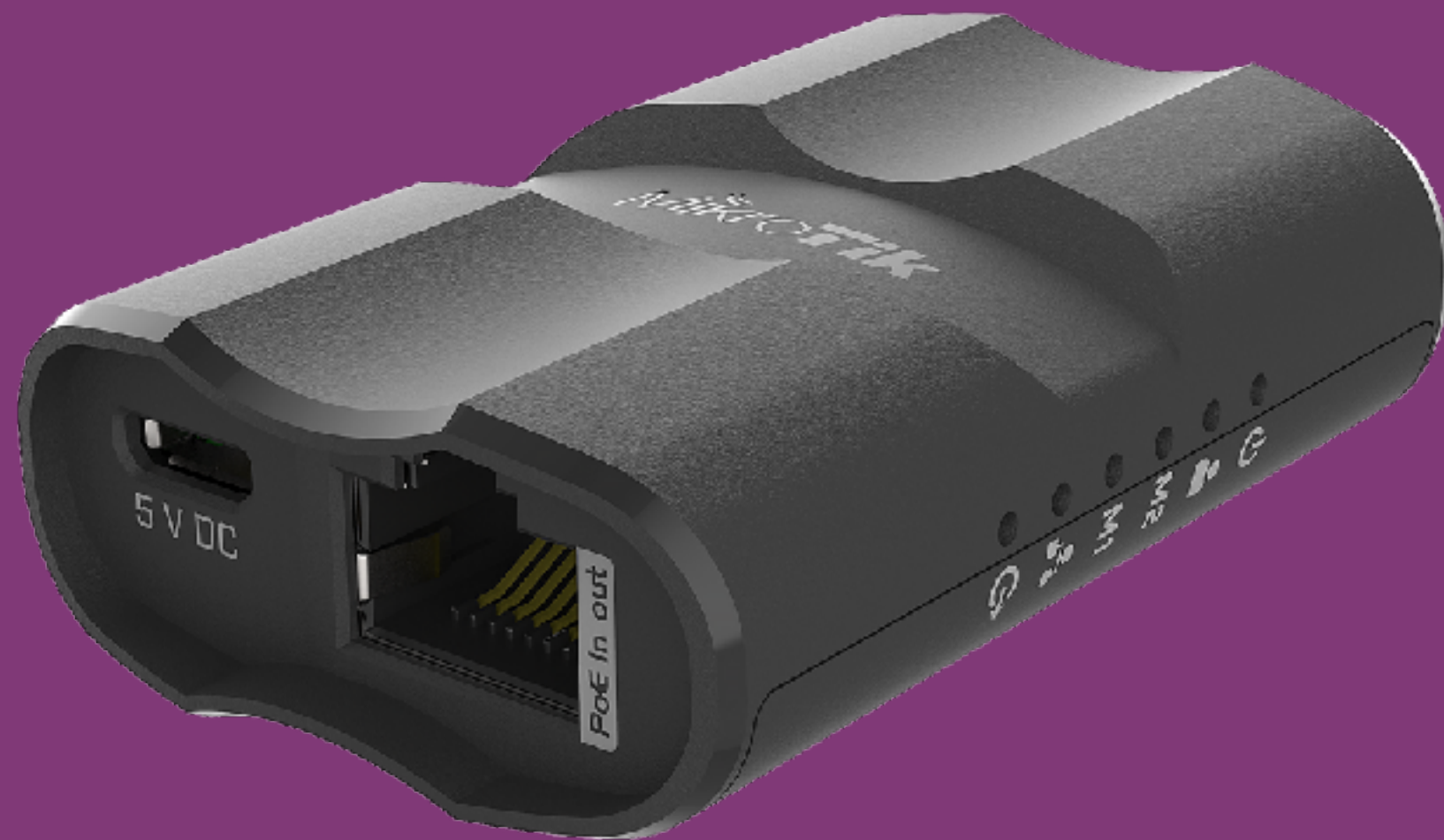


## REGULAR NETWORK



# MQS

- Mobile quick setup
- Administrators friend
- Manage Ethernet only devices from your phone over WiFi
- Can be powered from power bank
- PoE out voltage 12 V



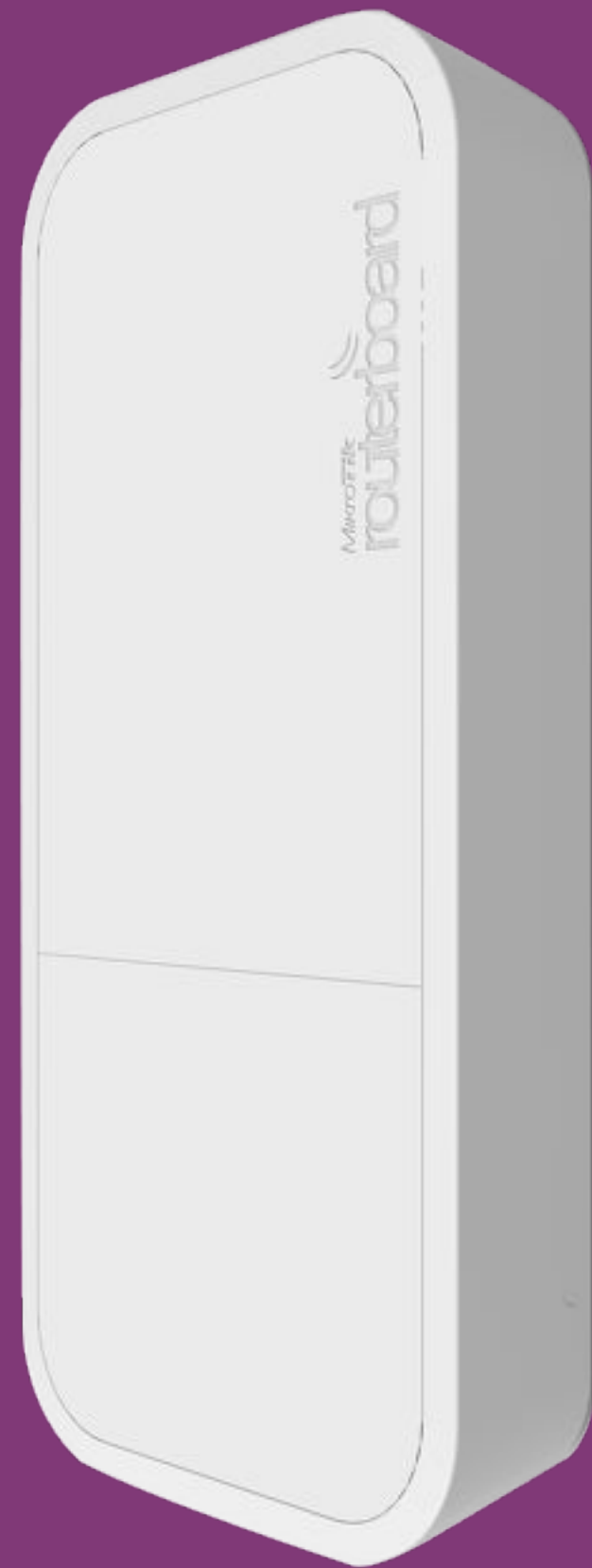


# LoRa

- wAP 2 GHz AP with LoRa gateway
- UDP packet forwarder to any public or private network server
- Integrated 2.5 dBi antenna with external antenna support
- LoRa mPCIe Gateway module available



# mUPS PRO



- Same form factor as mUPS
- 12 V/24 V battery support
- 24 V/48 V PoE out support
- Managed through web interface

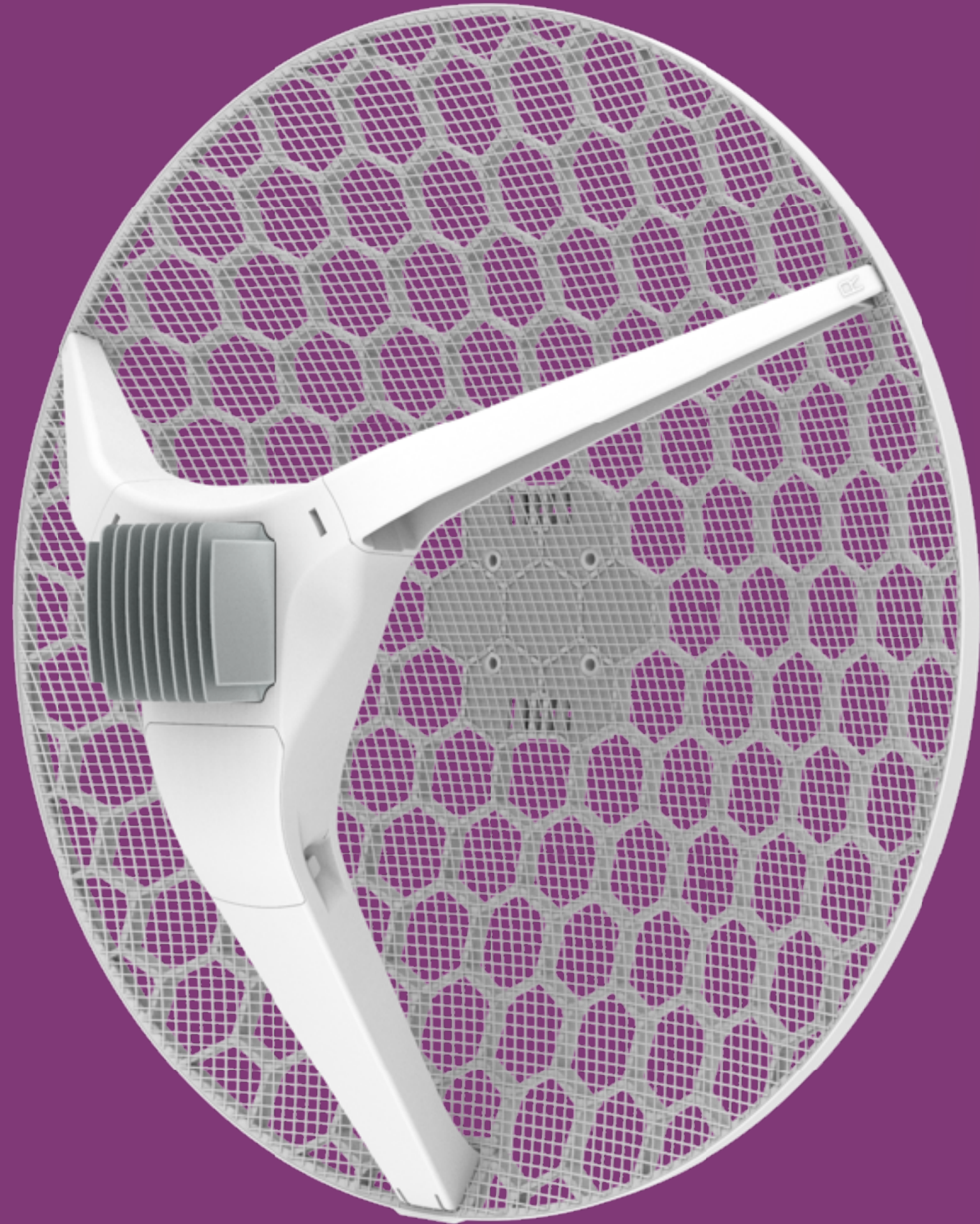
# LtAP



- Still coming, soon, promise!
- Three SIM slots, two miniPCle
- GPS (GNSS), built-in WiFi, multiple power sources, USB, console
- SMA connector for GPS, places for optional SMA connectors for other antennas



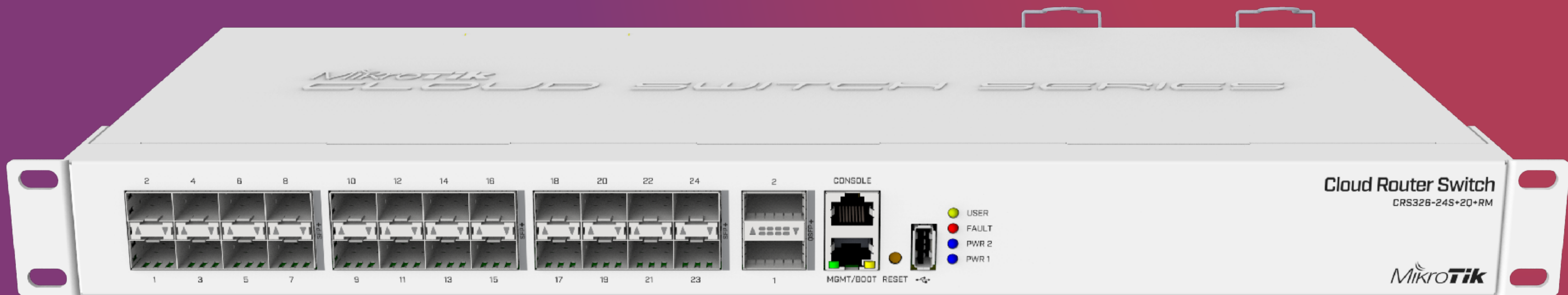
# LHG XL HP



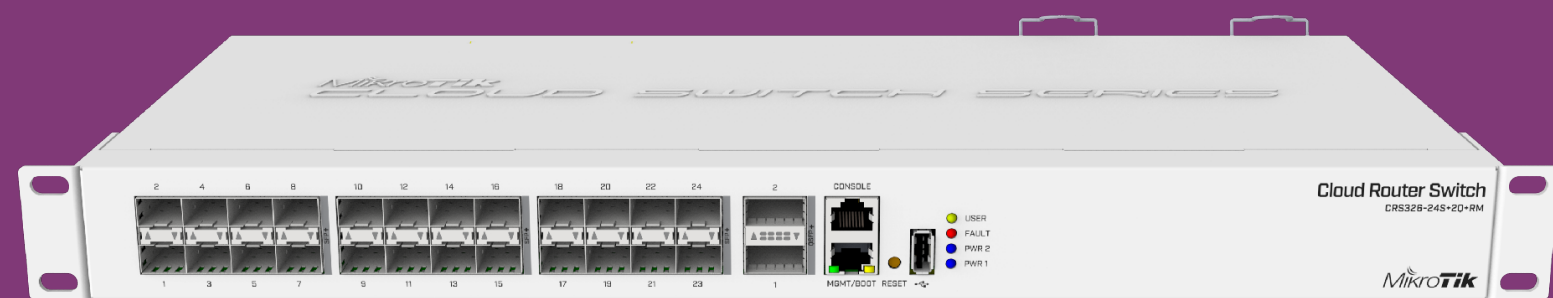
- Simultaneous dual band router
- Gigabit Ethernet and SFP
- Use for failover or high throughput
- High gain and output power



# CRS326-24S+2Q+

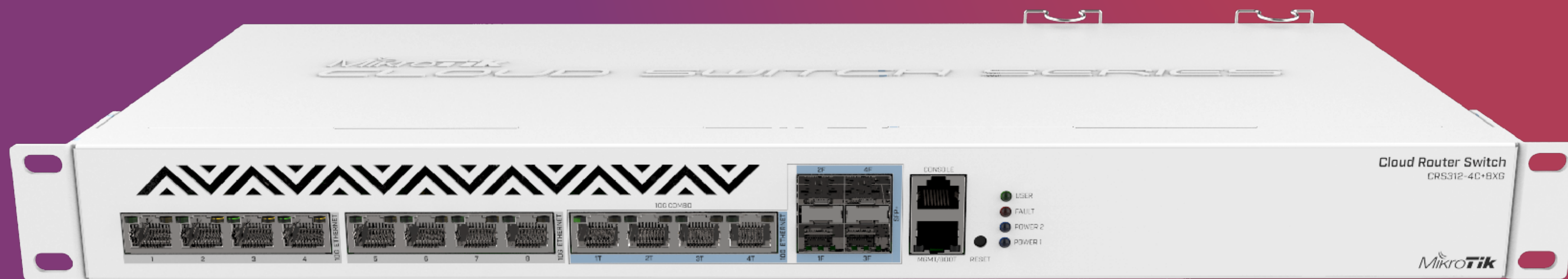


# CRS326-24S+2Q+



- 24x SFP+ (10G ports)
- 2x QSFP+ (40G ports)

# CRS312-4C+8XG



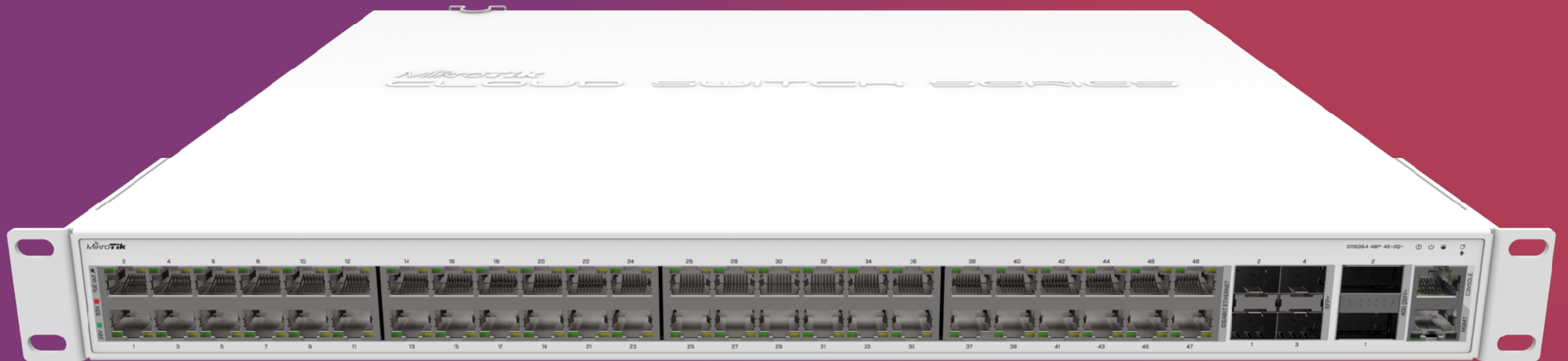


# CRS312-4C+8XG

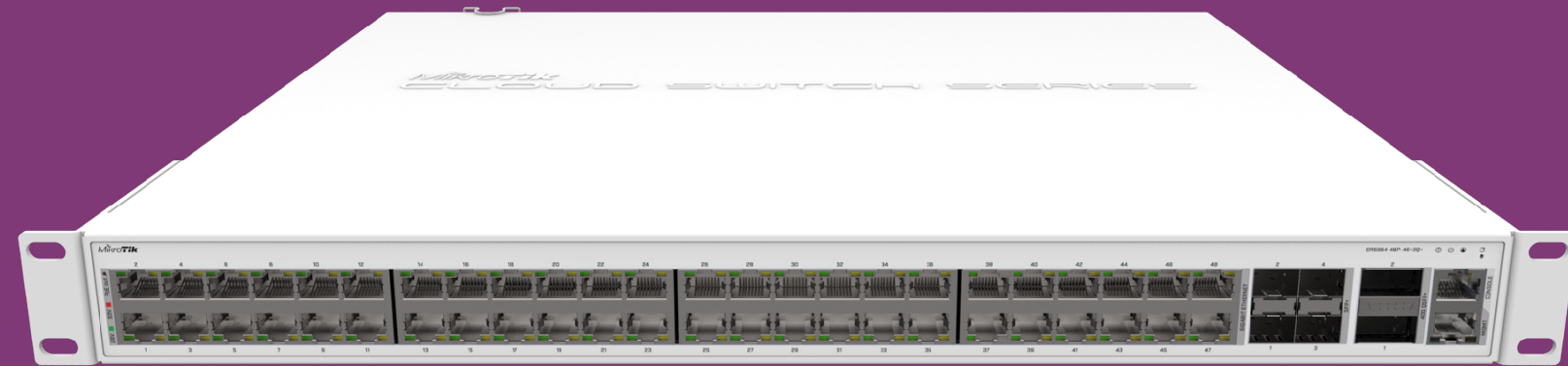


- 8x 10G Ethernet ports
- 4x 10G Ethernet / 10G SFP+ combo ports
- Console and management ports
- Dual PSU

# CRS354



# CRS354

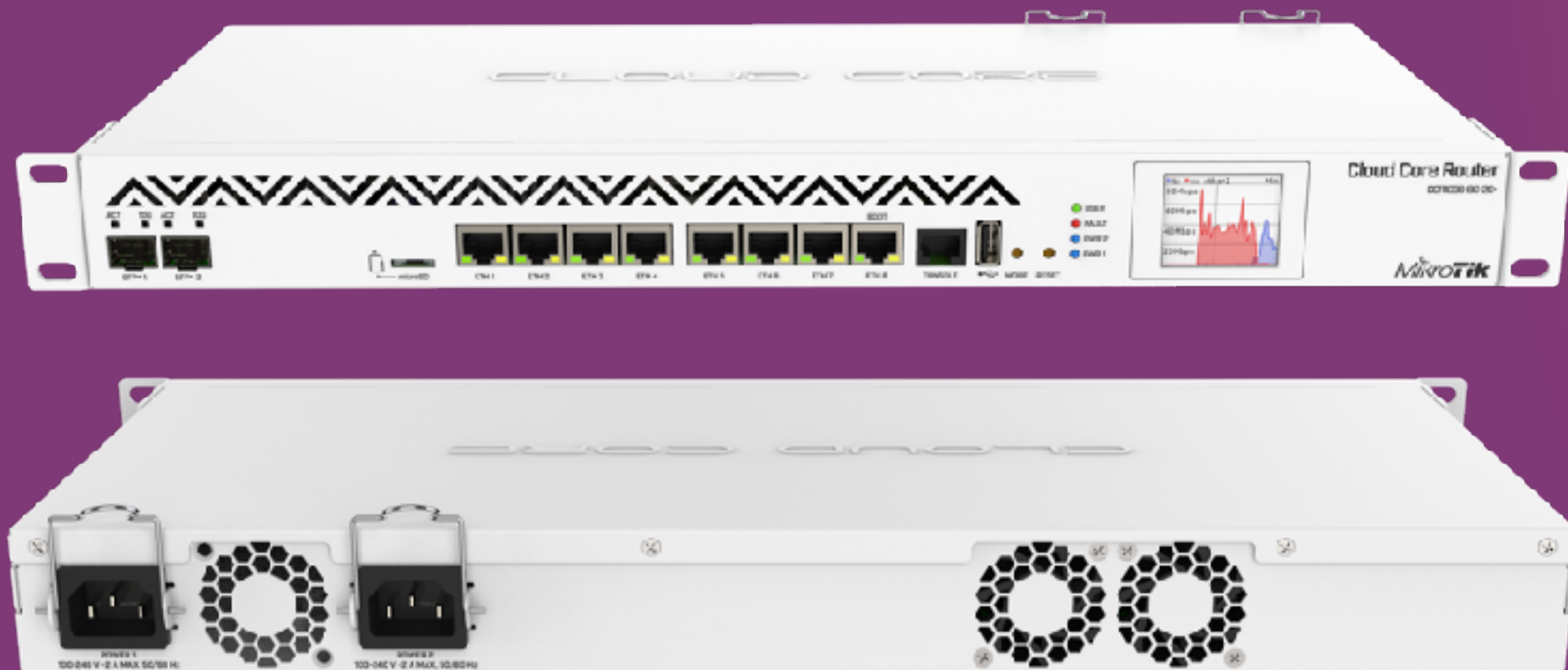


- 48x Gigabit ports
- 4x SFP+ ports
- 2x QSFP+ ports
- 48x PoE out port version



# CCR updates

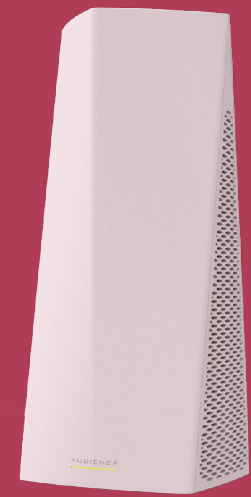
- All CCR 16-core and 36-core routers now will have dual PSU for redundancy
- Full size USB port
- Improved PSU design
- Optional 48 V PSU available separately





AUDIENCÉ

AUDIENCÉ





# Audience

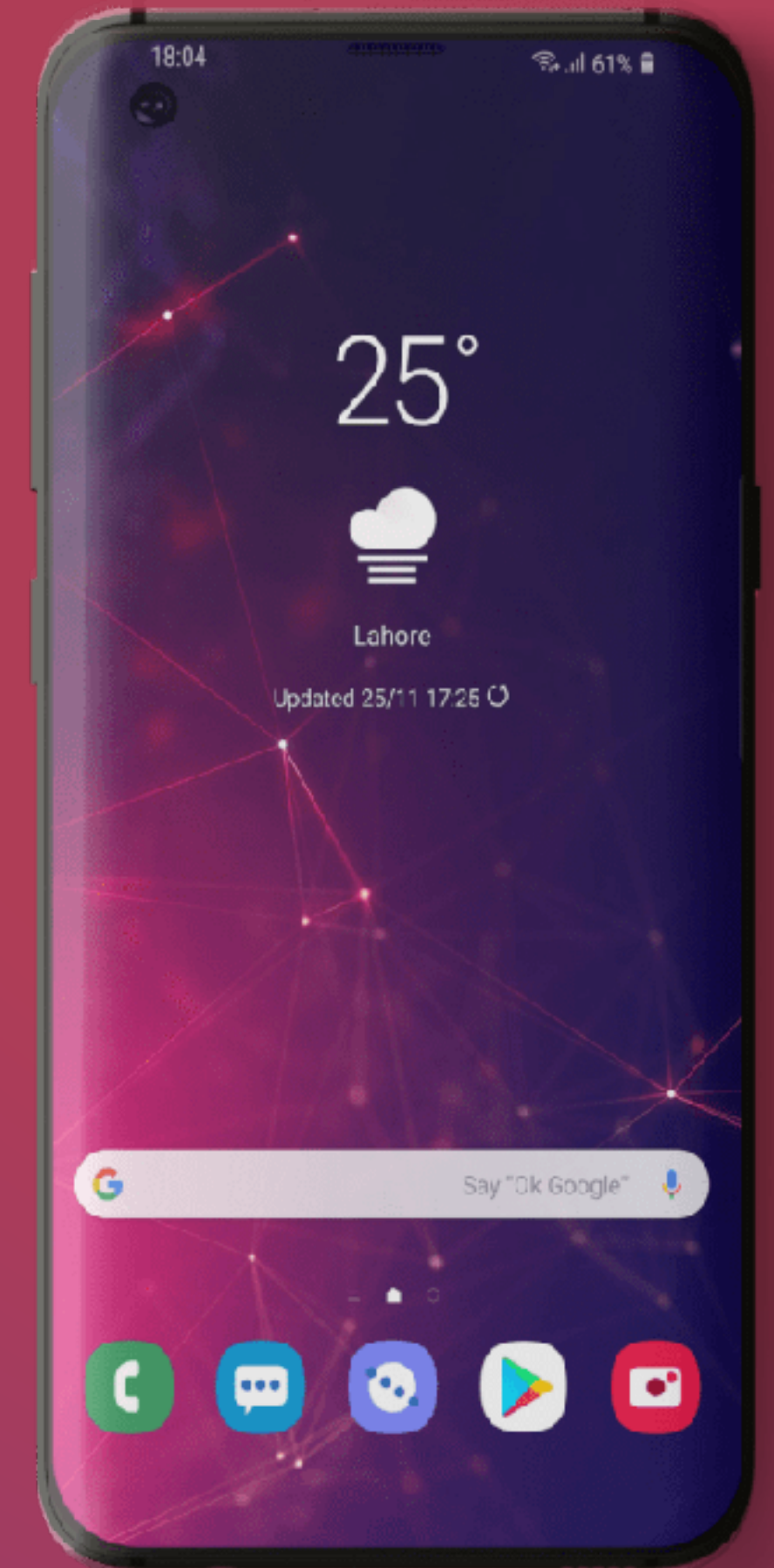
- Tri-band 802.11ac home AP with mesh function
- Secondary 5 GHz interface pairs with other units
- Two Ethernet ports
- LTE model with SIM slot and CAT6 modem



# MikroTik app for iOS / Android



Scan me



# RouterOS updates

6.43.x (long-term) 454 (17 important)

6.44.x (stable) 282 (8 important)

6.45beta (testing) 128 (3 important)



The image features a stylized world map in shades of red and purple, overlaid with a grid of latitude and longitude lines. In the center of the map, there is a white silhouette of a person riding a bicycle. The Microtik logo is prominently displayed in the center, consisting of the word "MIKRO" in a white, italicized, sans-serif font, followed by a white crescent moon symbol, and then "TIK" in a white, bold, italicized, sans-serif font.

*MIKRO*  ***TIK***