MIKROTIK

L23UGSR-5HaxD2HaxD

– build your own custom outdoor Wi-Fi 6 access point or CPE!

This modular wireless router comes with handy MMCX connectors, allowing you to create versatile omnidirectional access points and powerful point-to-point links.



★★★★★

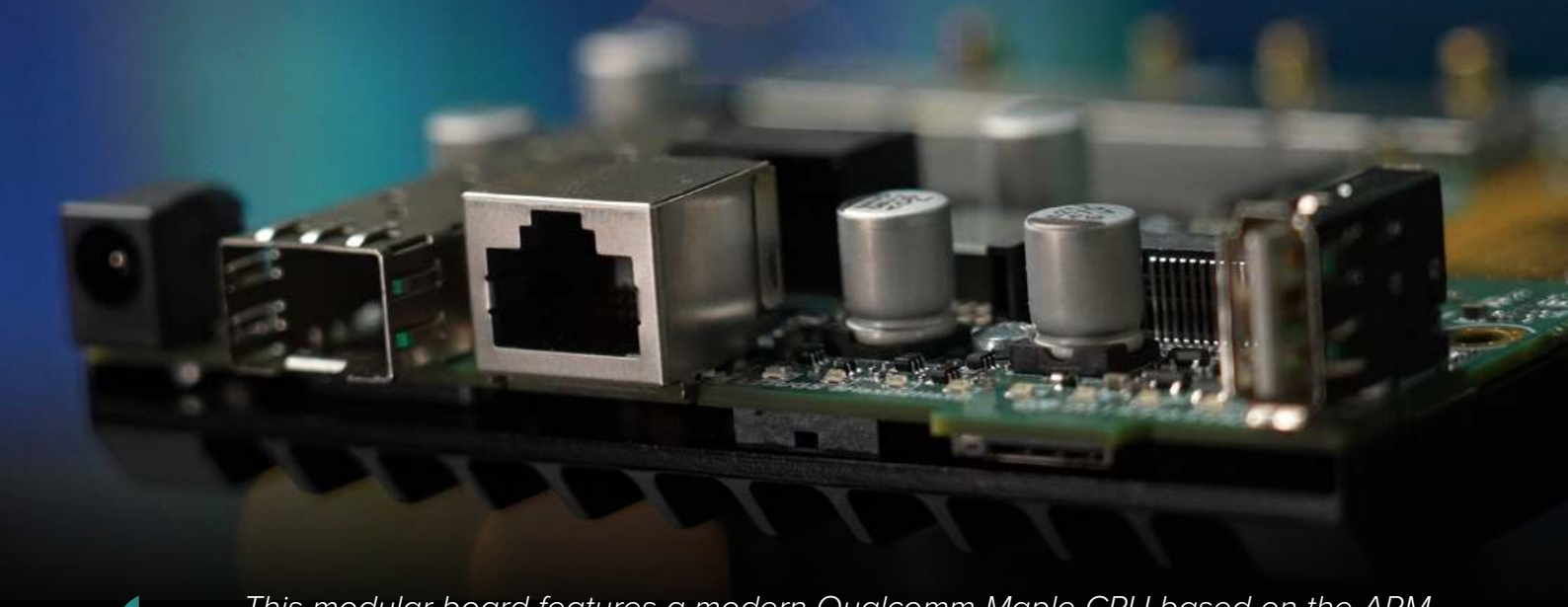
"The best DIY gift for a REAL network engineer!"

- a REAL network engineer.

- Modern dual-core ARM CPU
- NanoSIM slot
- MiniPCIe – add your own... LoRa? LTE?
- USB port
- Gigabit Ethernet with passive PoE-In
- 2.5 Gigabit SFP for fiber connectivity
- Our latest dual-band, dual-chain Wi-Fi 6 radio

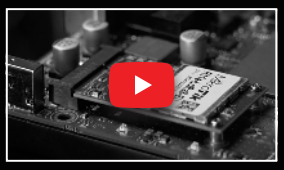
Remember the thrill of crafting your custom solutions with our RouterBoard series? Get ready for even more DIY achievements: we're refreshing the RB product line with Wi-Fi 6!

The new L23UGSR is a dual-band Wi- Fi 6 upgrade of the popular RB922 DIY router. You can use it to **build custom low-cost** outdoor **access points** or CPEs – for your home, office, homelab needs or even to **launch your own products**, such as smart vending machines or ticket stations! Thousands of people across the globe choose the RouterBOARD series to build their products because MikroTik offers **no subscriptions, no paywalls**, no weird licensing or royalty deals... **You buy it – you own it!**



This modular board features a modern Qualcomm Maple CPU based on the ARM architecture, a USB port for extra storage or other needs, ***Gigabit Ethernet with passive PoE-in, 2.5 Gigabit SFP*** *for fiber connectivity, and a* ***free miniPCIe slot*** *that allows further customization. You could, for example, add an LTE modem for a mobile internet backup – we've added a NanoSIM slot on the bottom! But there are other options, like adding a gateway for LoRa IoT setups, such as our R11e-LR8!*

A **powerful dual-band, dual-chain Wi-Fi 6 radio** offers increased speed, stability, security, roaming, power management, and other features, compared to the previous wireless protocols for distances up to 30 kilometers.*



The four MMCX connectors enable further customization with an endless variety of antennas you could use. Add a HGO-antenna-OUT and you've got yourself an excellent omnidirectional AP... or try the mANT30 PA antenna to create a powerful long-range point-to-point link!

If you've read this far, here's a little bonus feature: we've kept the good old beeper for various alarms or creative outputs.

**It's important to note that while longer links are feasible, their reliability may vary. Additionally, the distance achievable greatly depends on the antenna selected for use.*

Specifications

Product code	L23UGSR-5HaxD2HaxD
CPU	Dual-Core IPQ-5010 800 MHz
CPU architecture	ARM
Size of RAM	256 MB
RAM type	DDR3L
Storage	128 MB, NAND
Number of 1G Ethernet ports	1
Number of 2.5 Gbps SFP ports	1
MiniPCIe slots	1 (Only for LTE, LoRA cards)
USB port	1 USB 2.0 port type A*
SIM slot	1 NanoSIM
Wireless interface model	IPQ-5010 (2.4 GHz), QCN-6102 (5 GHz)
Wireless	2.4 GHz 802.11b/g/n/ax dual-chain, 5 GHz 802.11a/n/ac/ax dual-chain
Operating system	RouterOS v7, License level 4
Operating temparature	-40°C to +70°C

**USB Type-A and mini-PCIe slots share the USB line and cannot be used simultaneously.*

Powering

Number of DC inputs	2 (PoE-In, DC jack)
PoE-In input Voltage	18-28 V
DC jack input voltage	12-28 V
Power adapter nominal voltage	24 V
Power adapter nominal current	1.2 A
Max USB current	1.5 A
PoE-In	Passive PoE
Max power consumption without attachments	12 W
Max power consumption	25 W

Certification & Approvals

Certification	CE, FCC, IC