Item no.: KNOT-LR8-KIT

RB924IR-2ND-BT5&BG77&R11E-LR8 - KNOT LR8 kit, IoT Gateway Solution for LoRa® Technology

from **173,40 EUR**

Item no.: KNOT-LR8-KIT
shipping weight: 0.50 kg
Manufacturer: MikroTik

📄 Product Description

KNOT LR8 kit, IoT Gateway Solution for LoRa® Technology

We all know the struggle of managing so many devices with different interfaces and communication protocols.. You keep adding new solutions to your setup to keep up, but the older devices are still too good to let them go. How do you integrate all of them in a single system that will serve you right? Easy – you "tie" them together by using the KNOT!

It doesn't matter whether you have devices that are no longer in production, devices that came out this year, or even some custom solutions by your technician – the KNOT can handle them all!

The KNOT LR8 kit is an out-of-the-box IoT gateway solution for LoRa® technology. It uses Narrow Band and CAT-M technology. Because of the low cost, low bandwidth cellular connection, it is supported by countless mobile operators around the globe. This kit contains a pre-installed UDP packet forwarder to any public or private LoRa® servers. With the support of 8 different channels, Listen Before Talk (LBT) and spectral scan features this product will astound you with its enticing price point.

It could be used as a backup connection for the Ethernet or as a management channel for your network. NB/CAT-M monthly plan is much cheaper than LTE. Why spend extra money on bandwidth you don't need? For example, you can manage a KNOT-powered vending machine with temperature and moisture sensors with only a few megabytes per day!

KNOT features so many protocol support and connectivity options: 2.4 GHz wireless, Bluetooth, LoRa®, 2x 100 Mbps Ethernet ports with PoE-in and PoE-out, Micro-USB. Maximum convenience at the lowest cost!

With the Bluetooth interface, you can use the KNOT for asset tracking and telemetry based on Bluetooth advertisement packets. KNOT supports any BLE tag that sends advertisement data. iBeacon, Eddystone or any other format. It has powerful filters for forwarding only relevant packets and ignoring others.

This kit can even help you in the most unusual situations. Remember the part about onboard GPIOs? Those pins can be used to read all kinds of analog sensors, interact with a single-board computer or other custom electronics – hobbyist kits, D.I.Y. robotics... It's like getting the whole Swiss Army instead of a Swiss Army knife!

KNOT is a great tool for most outdoor cabinet IoT applications as well. It comes with a DIN rail mount that allows easy integration with all kinds of setups: from agriculture and asset tracking to cold chain monitoring, industrial manufacturing, and so on. Bring flexible low-cost connectivity to the most remote or tricky areas with the MikroTik KNOT!

Included parts

- 24 V/1.2 A power adapter
- Wall mount set
- DIN rail mount set
- USB A female to Micro B cable

- Product code: RB924i-2nD-BT5&BG77&R11e-LR8
- CPU: QCA9531 650 MHz
- Number of 100 Mbps Ethernet ports: 2
- Number of 100 Mbps Ethernet ports with PoE-out: 1
- Size of RAM: 64 MB
- Storage: 128 MB Flash SPI NAND
- Concentrator gateway card for LoRa®: R11e-LR8
- Wireless: 2.4 GHz 802.11 b/g/n dual-chain
- Antenna gain: 1.5 dBi
- Bluetooth antenna gain: 2 dBi
- Antenna beam width: 360°
- Bluetooth version: 5.2
- Dimensions: 122 x 87 x 26 mm
- Operating system: RouterOS, license level 4
- USB port: 1x microUSB port type AB
- SIM slots: 1x Nano SIM
- Built-in GPS: Yes (GPS, GLONASS, BeiDou, Galileo)
- Operating temperature: -40°C to +70°C

Powering

- PoE-in input voltage: 12-57 V
- Number of DC inputs: 3x (PoE-in, DC jack, MicroUSB)
- Supported input voltage: 12-57 V (PoE-in, DC jack), 5 V (MicroUSB)
- PoE-out: 802.3af/at
- PoE-out ports: 1 (Ether2)
- Power adapter nominal voltage: 24 V
- Power adapter nominal current: 1.2 A
- Max. power consumption (without attachments): 5 W
- Max. power consumption: 18 W

Certification & Approvals

- Certification: Bluetooth, CE, FCC, IC

📄 Specifications

**Scan this QR code to
view the product**
All details, up-to-date
prices and availability