MikroTiK RB924i-2ND-BT5 KNOT Router and Wireless IoT Gateway Instructions

KNOT
IoT Gateway for the most versatile
and cost-e7ective setups
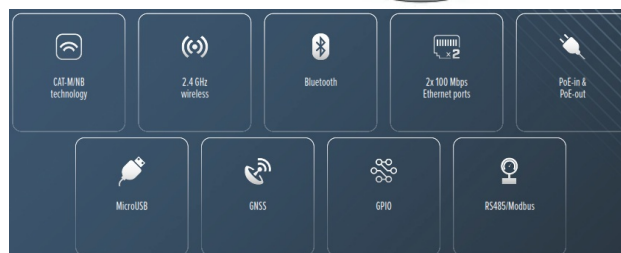
The newest addition to the MikroTik IoT product family – KNOT – is a truly universal device with exceptional connectivity options and protocol support. It is an IoT Gateway
that uses Narrow Band and CAT-M technology. Because of the low cost, low bandwidth cellular connection, it is supported by countless mobile operators around the globe.

KNOT can monitor onboard GPIOs, convert Modbus protocol to TCP, and even forward Bluetooth packets to TCP/IP network via HTTPS and MQTT.

You can use the KNOT as a TCP bridge from wired Modbus sensors to send readings to a Modbus server. Yes, the KNOT brings wireless connectivity to wired sensors and actuators, such as electricity meters and relays.

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, 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.
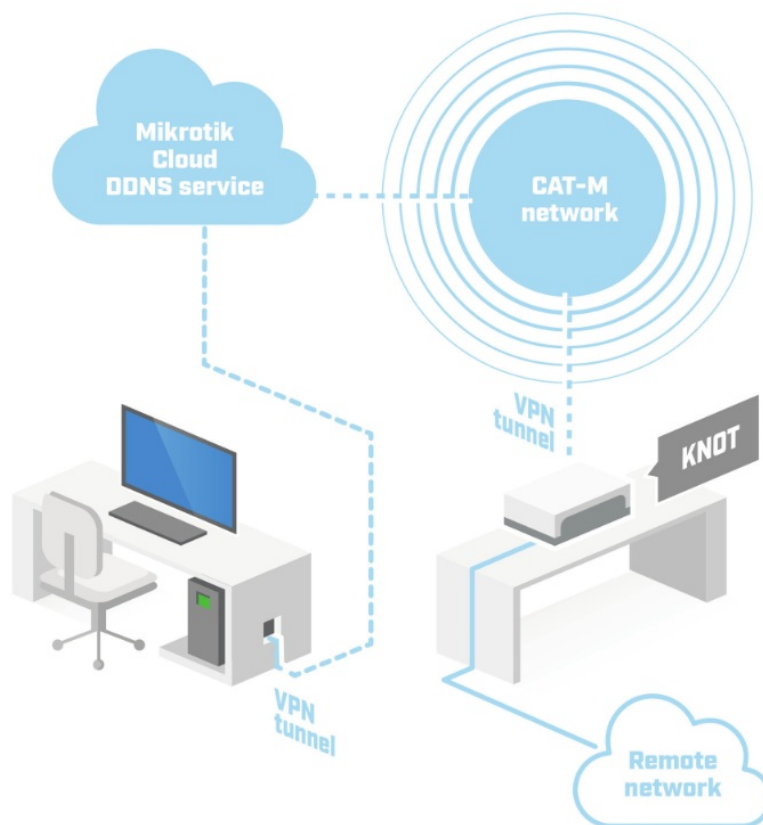

NB/CAT-M   GNSS

KNOT
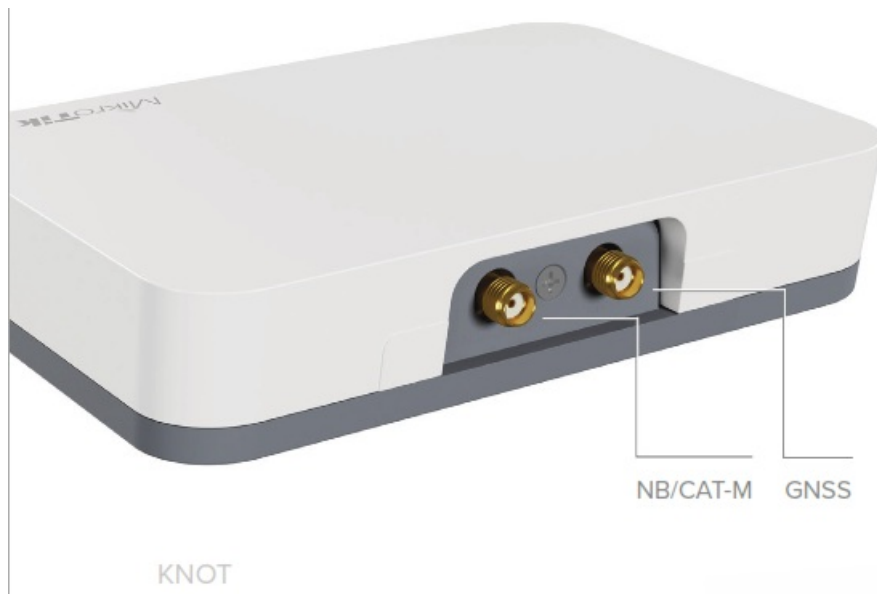
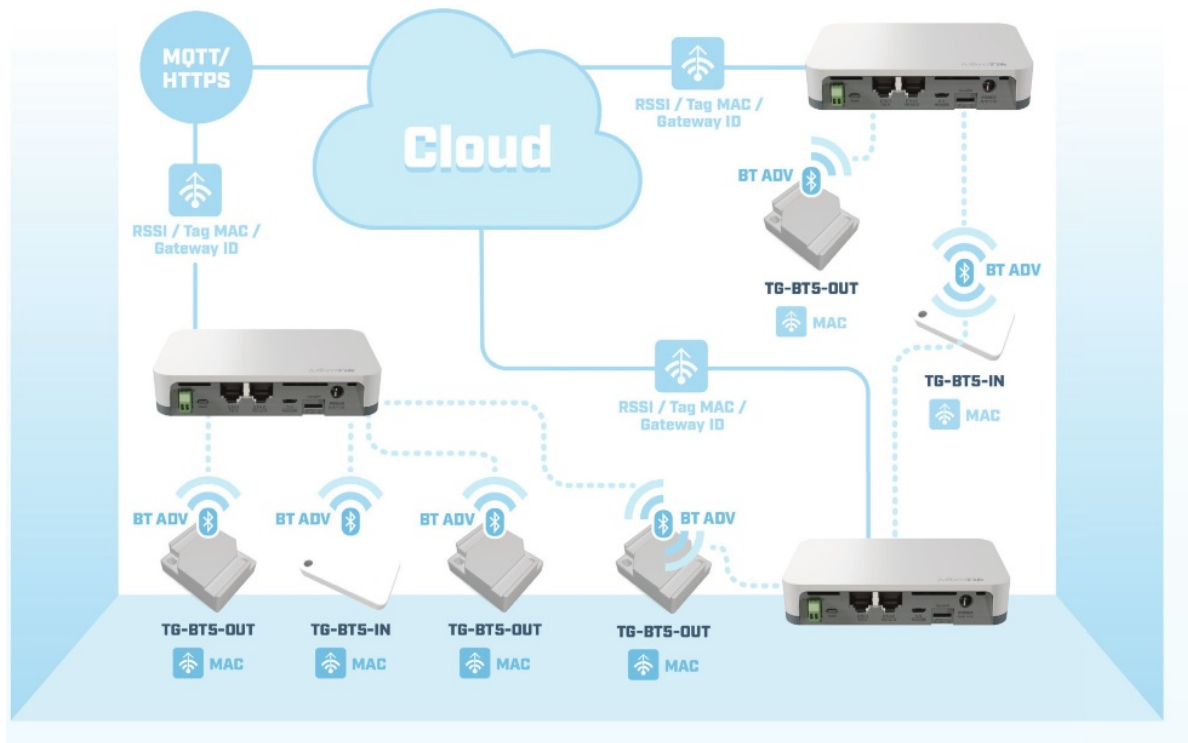Comes with a DIN rail mount! Suitable for mounting in outdoor cabinets and enclosures.

100 Mbps Ethernet   MicroUSB   DC jack
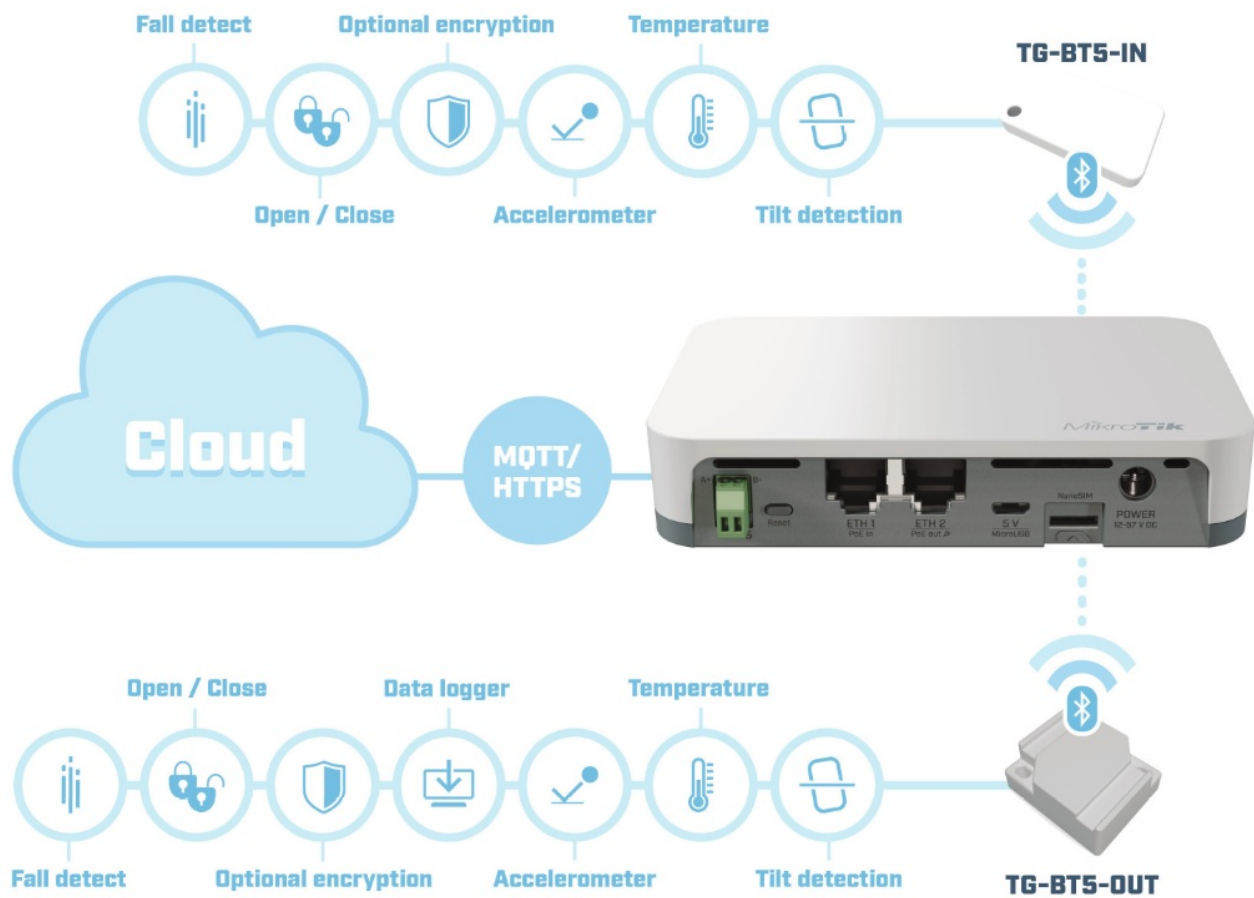
Modbus

NanoSIM slot
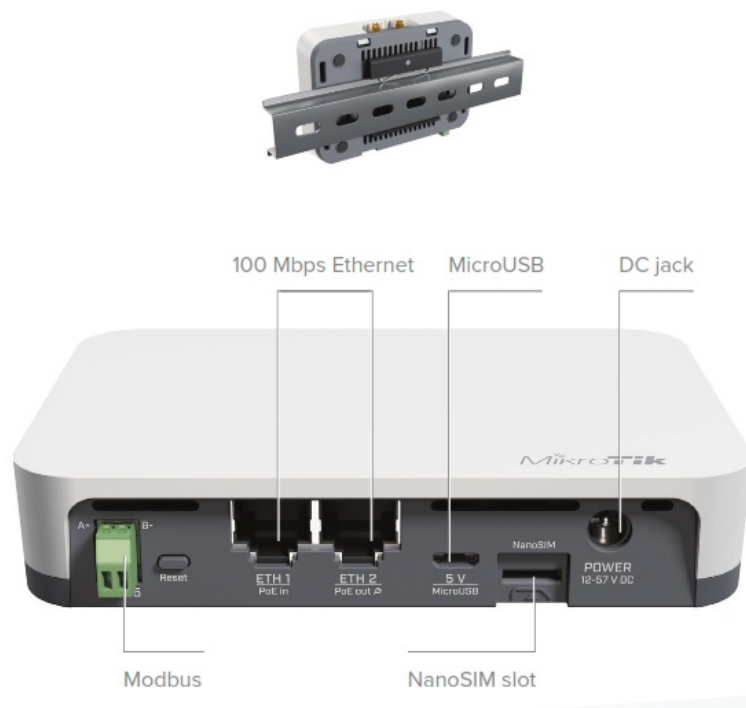
Contents

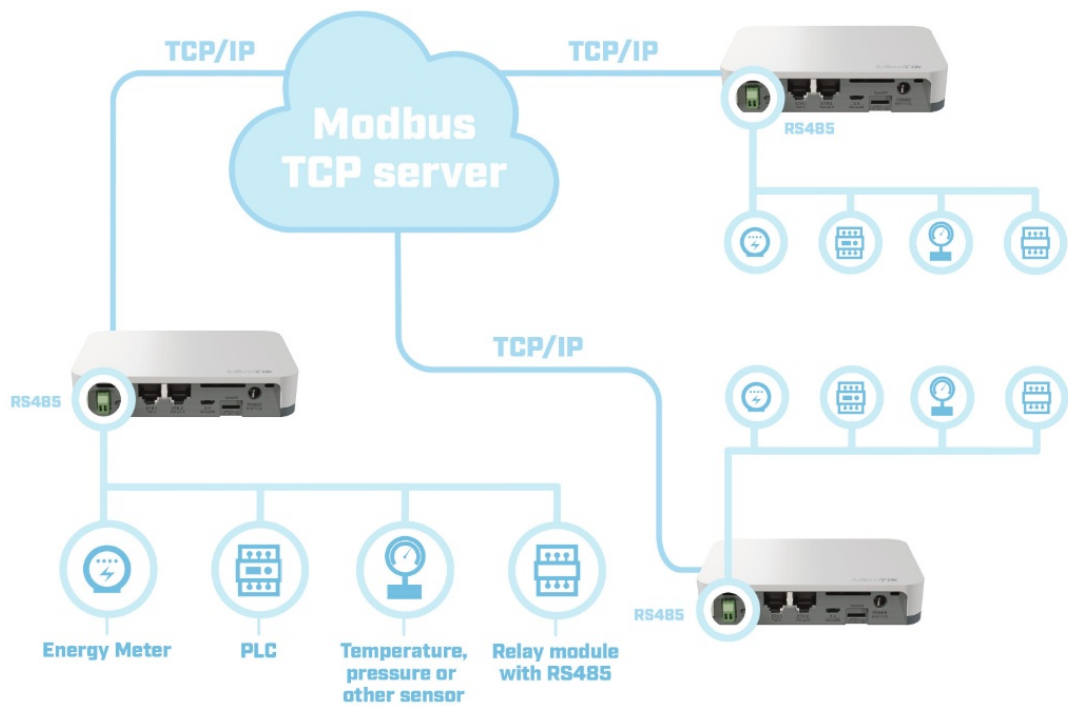## Connection to a remote network

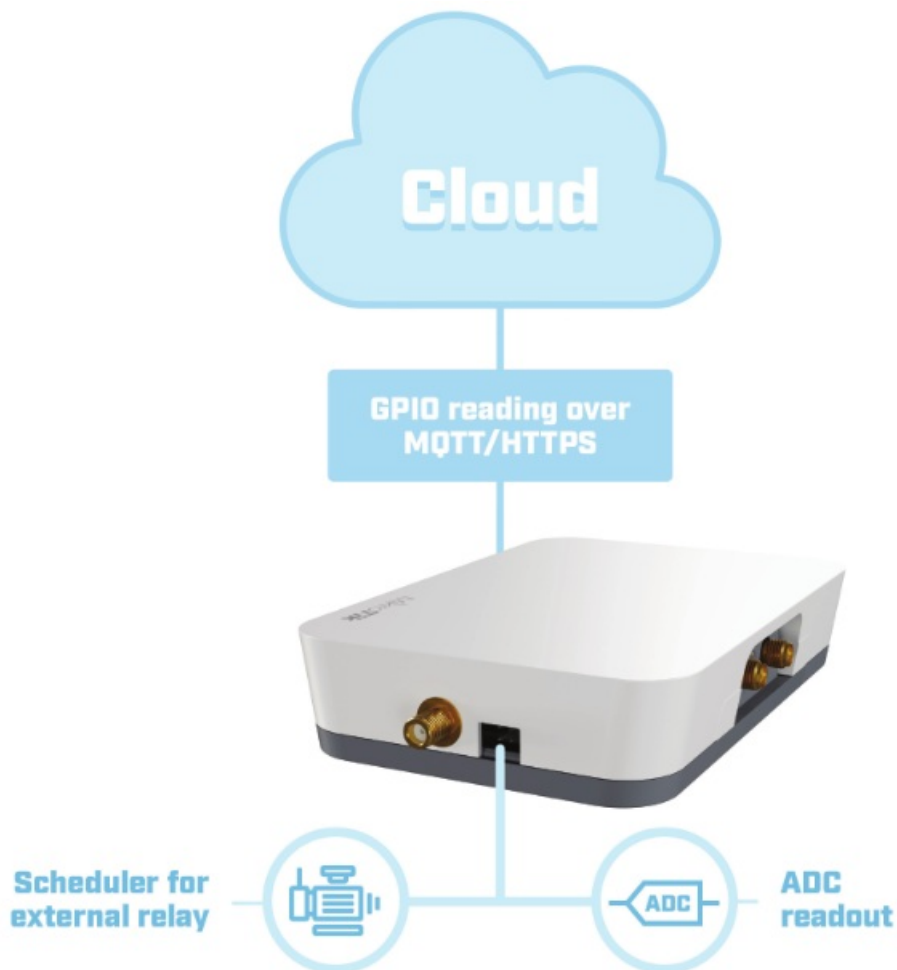## Proximity-based asset tracking

Telemetry – Sensor reading
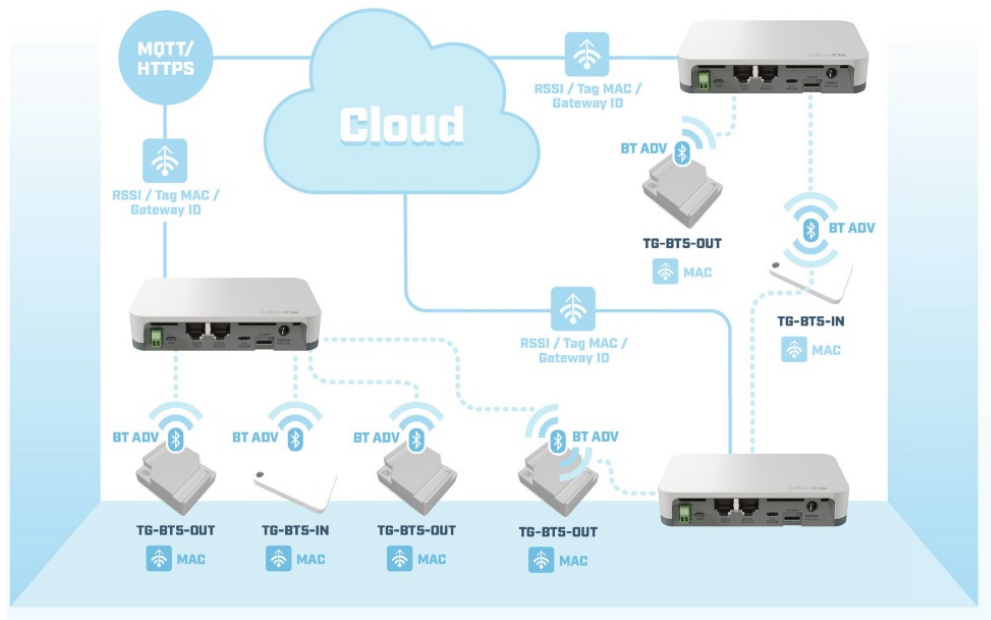

RS485 Modbus to TCP/IP bridge

Monitor GPIO

Wiliot tag support

KNOT supports Wiliot Battery-Free (energy harvesting) Bluetooth Tags for short-range (1-3m) disposable tracking tags (stickers) which can be attached to virtually everything
and helps monitor the contents of a specific cabinet, refrigerator or shelf for retail, medical or warehouse applications.

KNOT

Documents / Resources

MikroTiK RB924i-2ND-BT5 KNOT Router and Wireless IoT Gateway [pdf] Instructions
RB924i-2ND-BT5, KNOT Router and Wireless IoT Gateway