MIKROTIK

KNOT Embedded LTE4 Global

Industrial LTE/BLE/GNSS connectivity that fits anywhere.
Originally designed for coffee and vending machines – perfect for all kinds of industrial automation.

supports

MIKROTIK

Connectivity

PTCRB + AT&T certified!

This is the Global version with expanded LTE band support for North America and other non-EMEA markets!

- LTE Cat4 mobile connectivity
- Bluetooth for IoT sensors
- DIN rail mounting supported
- Gigabit Ethernet
- GNSS/GPS
- eSIM + Nano SIM
- GPIO
- 2x2 MIMO
- PoE-In

KNOT Embedded LTE4 is a tiny but powerful industrial LTE gateway designed for integrators, automation specialists, and IoT system builders. It fits into tight spaces, **mounts directly on a DIN rail**, and delivers reliable **LTE Cat4** connectivity with **Bluetooth** and **GNSS** support.

The built-in Bluetooth scanner supports Long Range Bluetooth and Extended Advertising, enabling reliable communication with MikroTik Bluetooth tags and other BLE sensors. Gather telemetry, track assets, and securely transmit data over LTE from a single compact device.

Use it as a primary gateway, a backup link, or an IoT data collection node – everything is powered by RouterOS for maximum flexibility.

***Powered by RouterOS** – full networking stack, VPNs, firewall, SMS control and notifications, automation, remote management, and so much more!*

Check out our YouTube and TikTube videos for this product!

Mounting options

Sensor-ready GPIO header for simple automation and monitoring (Digital input/Analog Input/OD output). All pins are 24V tolerant.

The unit requires external antennas – choose the models that match your environment and customize the KNOT to your specific needs.

KNOT Embedded LTE4 is made for environments where space is limited but reliability is critical:

- Smart city infrastructure (parking, sensors, metering)
- Coffee and vending machine monitoring
- Industrial automation cabinets
- Environmental & utility monitoring
- Vehicle or asset tracking with GNSS
- Retail kiosks, payment terminals, digital signage
- LTE backup connectivity for existing Ethernet devices
- IoT gateways for BLE sensors and beacons

Whether you're building a new system or adding LTE to an existing installation, KNOT Embedded LTE4 adapts easily. It's easy to integrate, easy to deploy, and built to perform in harsh environments – from smart city deployments to industrial automation and mobile tracking.

MikroTik Connectivity is available for the USA region

One simple plan provides dual-operator access via AT&T and US Cellular for reliable nationwide coverage. Data plans follow the same pricing structure as our EU Connectivity offer.

With MikroTik eSIM, you can activate a data plan directly from your MikroTik account and get online within minutes. No physical SIM cards, no carrier contracts, no activation delays. Ideal for IoT deployments, remote installations, backup connectivity, and low-usage setups where fast and simple deployment matters.

Specifications

Product code	EG25-G&KNe
CPU	ARM 32-bit 800 MHz
Size of RAM	256 MB
RAM type	DDR
Storage	256 MB, NAND
Number of 1G Ethernet ports	1
GNSS interface model	EG25-G
GNSS standard	Galileo, GPS, Glonass, BDS, QZSS
RF connector type	SMA female
SIM slots	Nano SIM, eSIM
Bluetooth version	5.1
MIMO DL	2x2
MIMO UL	1x1
Dimensions	90 x 70 x 22 mm
Operating system	RouterOS v7, License level 3
Operating temperature	-40°C to +70°C

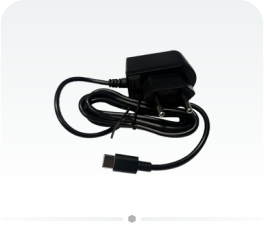
EG25-G (Global) bands

LTE modem	EG25-G
TAC	01673800
LTE Category	4 (150Mbps Downlink, 50Mbps Uplink)
LTE FDD bands	1 (2100 MHz)/ 2 (1900MHz) / 3 (1800 MHz) / 4 (1700MHz) / 5 (850 MHz) / 7 (2600 MHz) / 8 (900 MHz) / 12 (700MHz) / 13 (700 MHz) / 18 (800 MHz / 19 (800 MHz / 20 (800 MHz) / 25 (1900MHz) / 26 (850MHz) / 28 (700MHz)
LTE TDD bands	38 (2600MHz) / 39 (1900MHz) / 40 (2300MHz) / 41 (2500MHz)
3G Category	R8 (42.2Mbps Downlink, 5.76Mbps Uplink)
3G bands	1 (2100MHz) / 2 (1900MHz) / 4 (1700MHz) / 5 (850MHz) / 6 (850 MHz) / 8 (900MHz) / 19 (800 MHz)
2G Category	Class12
2G bands	2 (1900MHz) / 3 (1800MHz) / 5 (850MHz) / 8 (900MHz)

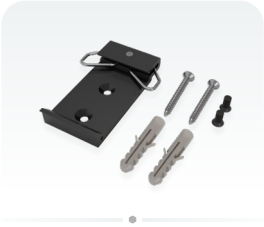
Powering

Number of DC inputs	2 (PoE-In, USB Type-C (powering only))
PoE-In input Voltage	12-57 V
USB Type-C input voltage	5 V
Power adapter nominal voltage	5 V
Power adapter nominal current	0.8 A
PoE-in	802.3af/at
Max power consumption	6 W

Included parts



5 V 0.8 A
power adapter



K-91
Fastening set