MIKROTIK

# KNOT Embedded LTE4

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




supports

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## Connectivity

- 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.

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.

## Specifications

| | |
|---|---|
| Product code | EC25-EU&KNe |
| CPU | ARM 32-bit Cortex A7 up to 1.2 GHz |
| Size of RAM | 256 MB |
| RAM type | DDR |
| Storage | 512 MB |
| Number of 1G Ethernet ports | 1 |
| GNSS interface model | EC25-EU |
| GNSS standard | BeiDou, Galileo, GPS, Glonass |
| RF connector type | SMA female |
| SIM slots | Nano SIM, eSIM |
| Bluetooth version | 5.4 |
| 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 |

## EC25-EU (EMEA) bands

| | |
|---|---|
| LTE modem | EC25-EU |
| TAC | 86554604 |
| LTE Category | 4 (150Mbps Downlink, 50Mbps Uplink) |
| LTE FDD bands | 1 (2100MHz) / 3 (1800MHz) / 7 (2600MHz) / 8 (900 MHz) /20 (800MHz) / 28A (700 MHz) |
| LTE TDD bands | 38 (2600MHz) / 40 (2300MHz) / 41 (2500MHz) |
| 3G Category | R8 (42.2Mbps Downlink, 5.76Mbps Uplink) |
| 3G bands | 1 (2100MHz) / 8 (900MHz) |
| 2G Category | Class12 |
| 2G bands | 3 (1800MHz) / 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 | 7 W |

## Included parts



5 V 0.8 A
power adapter



K-91
Fastening set