

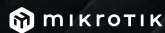


KNOT Embedded LTE4

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



supports



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!



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

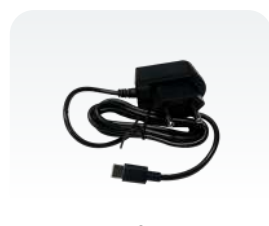
• EC25-EU (EMEA) bands

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