MIKROTIK

KNOT Gateway

Sensors in a warehouse. Equipment moving through a shipping terminal. Bluetooth tags traveling with cargo. Remote meters across a field.

KNOT Gateway ties them together in one rugged IP66 platform – combining BLE, long-range sub-GHz connectivity, Wi-Fi, Ethernet, LTE, and GNSS. Put the gateway where the devices actually are, then bring their data back to where you need it.



Gigabit Ethernet

PoE-In & surge protection

IP66

BLE 5.1

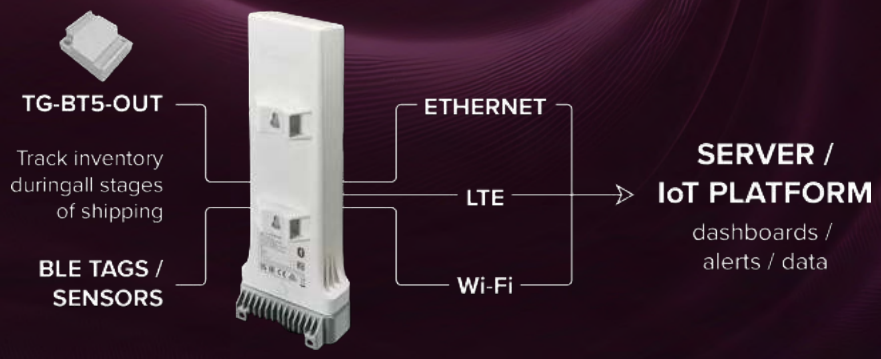
Dual-core ARM64 CPU

CAT1 bis LTE modem

Multi-GNSS GPS

SIM/eSIM

With the new KNOT Gateway, you can follow tagged equipment, pallets, containers, tools, and other assets as they pass through warehouses and terminals. But there's more: you can tie various generations of tech together! The KNOT Gateway brings remote meters, sensors, and other IoT devices into your network with BLE and long-range sub-GHz connectivity.





Whatever language your IoT devices speak, the KNOT **gets the conversation going!**

BLE 5.1

Turn Bluetooth broadcasts into useful, actionable data: track tagged assets, monitor telemetry, filter advertisements, and use RouterOS scripting to decide what happens next.

Long-range IoT

Go beyond Bluetooth with 868 MHz LoRa® on KNOT Gateway LR8 or 915 MHz Wi-Fi HaLow on KNOT Gateway HL9 – two sub-GHz options for IoT deployments that need to reach even further.

Three ways back to your servers

Use Gigabit Ethernet, 2.4 GHz Wi-Fi, or LTE Cat 1 bis for backhaul. Put the gateway where your devices are, without depending on Ethernet being available there.

RouterOS does the rest

Filter data locally, build your own logic with scripts, publish information using MQTT or HTTP, and integrate it into your preferred IoT platform with custom dashboards, notifications, and reports.

Build where it makes sense

IP66 protection, PoE-in, 12–57 V DC input, surge protection, and integrated antennas for BLE, Wi-Fi, LTE, Sub-GHz, and GNSS let you place KNOT closer to the devices it's actually serving. External antenna connectors for BLE and Sub-GHz give you extra flexibility when the installation calls for it.

And eSIM/MikroTik connectivity gives you even more flexibility – no need for an existing internet connection. You can active data via a simple MikroTik account login!

MikroTik Connectivity offers preloaded eSIM profiles all over the world, multi-operator switching, and reliable remote management with multi-network access for roaming and backup purposes.

Specifications

Product code	L14G-2ax-BT5-LR8&EG800K	L14G-2ax-BT5-HL9&EG800Q
CPU	Dual-core IPQ-5010 800 MHz	
CPU Architecture	ARM 64-bit	
Size of RAM	256 MB	
RAM type	DDR3L	
Storage	128 MB NAND	
Number of 1G Ethernet ports	1	
Wireless	2.4 GHz 802.11b/g/n/ax	
Wireless antenna gain	3.9 dBi	
GNSS interface model	AG3352Q	
LoRa modem	SX1303	-
LoRa band	868 MHz	-
LoRa / HaLow antenna gain	5.0 dBi	5.4 dBi
HaLow modem	-	FGH100MABMD
HaLow band	-	915 MHz
Bluetooth version	5.1	
Bluetooth antenna gain	2.5 dBi	
LTE modem	EG800K-EU	EG800Q-NA
TAC	86684606	01688100
LTE Category	CAT 1 bis (DL: 10 Mbps; UL: 5 Mbps)	
MIMO DL	1x1	
MIMO UL	1x1	
LTE FDD bands	1 (2100MHz) / 3 (1800MHz) / 5 (850 MHz) / 7 (2600MHz) / 8 (900 MHz) / 20 (800MHz) / 28 (700MHz)	2 (1900 MHz) / 4 (1700 MHz) / 5 (850 MHz) / 12 (700 MHz) / 13 (700 MHz) / 66 (1700 MHz)
SIM slots	1 Nano SIM	
Dimensions	254 x 88 x 57 mm	
Operating system	RouterOS v7, License level 4	
Operating temperature	-40°C to +50°C	

Powering

Number of DC inputs	2 (PoE-In, 2-pin terminal)
PoE-In input Voltage	18-57 V
2-pin terminal input Voltage	12-57 V
Power adapter nominal voltage	24 V
Power adapter nominal current	0.5 A
PoE-In	802.3af/at
Max power consumption	9 W

Included parts



24 V 0.5 A power adapter



Fastening set



Hose clamp



Gigabit PoE injector