NB IoT BOX GPS

Compact NB-IoT data logger with integrated GPS positioning – battery powered, without a gateway

NB-IOT · LTE CAT-NB2 | GPS/GNSS INTEGRATED | BATTERY 5+ YEARS | IP67 | MOTION SENSING | GEOFENCING | MQTT · COAP | NO GATEWAY

Position and readings from one device

The **NB IoT BOX GPS** is a compact, battery-powered data logger with NB-IoT communication and integrated GNSS positioning – for applications that need process data and location at the same time.

It records readings and location efficiently and transmits both straight to the backend – without a gateway, concentrator or radio infrastructure of your own. The integrated motion sensing reports when an object moves; geofencing events are transmitted immediately.

The weatherproof enclosure and the dynamic energy management make the device suitable for mobile installations. Watchdogs and an automatic network scan restore operation by themselves after a fault.



5+ years
Battery life, depending on the transmission and position interval.

GPS/GNSS
Integrated positioning module, position in the payload, interval configurable.

IP67
Rugged, weatherproof enclosure for outdoor use.

NB-IoT
LTE Cat-NB2 in licensed spectrum – straight to the backend, without a gateway.

Product features

- Communication over NB-IoT (LTE Cat-NB2), straight through without a gateway
- Integrated GPS/GNSS module for positioning
- Position in the payload, interval freely configurable
- Integrated motion sensing
- Geofencing events with immediate transmission
- Serial TTL interface for connecting further devices
- W-signal input
- Transmission by MQTT or CoAP
- Payload additionally encrypted with AES-128 or AES-256
- Self-healing mechanisms: watchdogs and automatic network scan
- Dynamic energy management for maximum autonomy
- Rugged, weatherproof enclosure (IP67)

Typical applications

- **Construction equipment** – location and status of machines in use
- **Rental equipment** – tracking use and whereabouts
- **Vehicles and trailers** – position tracking without vehicle power
- **Containers and tanks** – location and fill level reported together
- **Mobile installations** – position and condition monitoring
- **Asset tracking** – inventory across several sites
- **Geofencing** – alert when a defined area is left
- **Utility and infrastructure networks** – mobile data acquisition

WORKS WITH VERILOG web portal – analysis, alarms, export · NB IoT BOX LITE – logger for pulse and encoder meters · NB IoT BOX MICRO – OEM module with a TTL interface · MOBILE SILO – level monitoring · HES, MDM and ERP systems – data handover

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Subject to technical change. The information describes the product status at the time of preparation and does not constitute warranted characteristics in a legal sense. Version, enclosure and battery capacity are defined per project; binding delivery characteristics follow from the order confirmation.

01 Positioning and motion

Positioning module	GPS/GNSS, integrated
Position data	Transmitted in the payload, interval configurable
Geofencing	Events when an area is left or entered
Motion	Integrated motion sensing

02 Interfaces

Serial	1 × TTL
Positioning	GPS/GNSS module integrated
Further inputs	W-signal
Sensing	Integrated motion sensing

03 Mechanics and environment

Enclosure	Rugged and weatherproof, IP67
Dimensions	Variable, depending on the version
Weight	approx. 680 g to 1,500 g including battery
Operating temperature	−25 °C to +60 °C

04 Communication

Technology	NB-IoT based on LTE Cat-NB2, licensed spectrum
Protocols	MQTT or CoAP
Encryption	Payload additionally with AES-128 or AES-256
Transmission	Cyclic or event driven, configurable
Backend	VERILOG web portal as well as HES, MDM and ERP systems

05 Power supply and operation

Supply	Internal battery, no mains connection required
Battery life	5+ years, depending on the transmission and position interval
Energy management	Dynamic, in ultra-low-power operation
Self-healing	Watchdogs and automatic network scan

06 Platform and data

Operation	VERAUT GmbH servers in Linz, Austria; GDPR-compliant
Analysis	VERILOG web portal: map, history, limit alarms
Export	CSV, XML, XLSX, JSON and API
Integration	Handover to HES, MDM and ERP systems

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