vimron®

GPS TRACKER SERIES

Industry GPS Tracker 5G NB-IoT

Industrial, rugged and durable monitoring device with a battery life of up to several years, even in harsh environments



NB-IoT Bluetooth®

Features

- High positioning accuracy thanks to simultaneous reception of up to 3 GNSS
- Extendable with indoor localization
- Low operation and maintenance costs
- Alarm and battery status notifications
- Integrated accelerometer
- High resistance to weather and dirty environments
- Extreme battery life with no complicated installation
- Extendable with BLE sensors (over 110 types of measured quantities)

Use Cases

- Asset tracking
- Cold chain monitoring
- Fleet management & logistics

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INDUSTRY GPS TRACKER 5G NB-IOT

Technical Specifications

Location GNSS	
Receiver type	u-blox 72-channel
Concurrent GNSS	GPS, GLONASS, Galileo, QZSS, BeiDou
Position accuracy	2.5 m CEP
Sensitivity	-165 dBm
GNSS Assistance	A-GNSS / Assist online GNSS | Faster location acquisition
Cellular	
Technology	LTE Cat NB1/NB2
3GPP	Release 13, Release 14
Region	Europe | Coverage map available at vimron.com/coverage-nb-iot/
Bands	LTE: B3, B5, B8, B20, B28
SIM card size	nano SIM 4FF / eSIM MFF2
Bluetooth Low Energy	
Bluetooth® qualification	5.0 (Bluetooth Low Energy)
Maximum range	190 m
Receiver sensitivity	-95 dBm
Power and Battery	
Power Supply	$LiSOCl_2$ / Rechargeable Li-Ion Battery*
Battery Capacity	2.6 - 34 Ah / AA, C, D | Battery life: months to years (depends on location frequency and signal conditions)*
Other	
Antennas	Built-in GNSS, cellular and BLE antennas
User defined button	Yes
LED Indicators	Battery status, Network status, GNSS status
Sensors	Internal 3-axis accelerometer and gyroscope, BLE sensors support
Tamper detection*	Options: opening the cover, removal from the mounting location
Functionalities	Movement detection, button, OTA settings & firmware updates, Bluetooth Indoor Positioning
Environmental data & reliability	
Operating temperature	-40 °C to +85 °C (without battery)
Relative humidity	5% to 95%, non-condensing
Ingress Protection Rating	IP68
RoHS compliant	lead-free
Size and Weight	
Weight without battery	220 g
Material	Polyamide
Dimensions	126 x 68 x 42 mm (L x W x H)
Certifications and approvals	
Certifications	CE / RED, RoHS & REACH compliant | Made in the EU
Integration	
Protocols	UDP, CoAP*, MQTT*, MQTT-SN*, LwM2M*
Platform	Vimron IoT Platform, Amazon AWS, Microsoft Azure, IBM Watson IoT, Google Cloud Platform, Orange Live Objects, Cloud of Things

* For more information, contact us.

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