vimron®

GPS TRACKER SERIES

#1 battery life tracker in the world

Personal GPS Tracker 5G NB-IoT

Small, rechargeable, wearable monitoring device with an SOS button and a battery life ranging from months up to a year



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
- Extreme battery life with no complicated installation
- Extendable with BLE sensors (over 110 types of measured quantities)

Use Cases

Location and movement tracking of people, animals or goods

Monitoring of seniors or children

Monitoring and safety of field workers

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PERSONAL 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	Rechargeable Li-Ion Battery
Battery Capacity	1,800 mAh | Battery life: 3–12 months (depends on location frequency and signal conditions)*
Charging	Wireless Qi (WPC 1.2) at 0 °C to +60 °C | Charging time: approx. 3 hours
Other	
Antennas	Built-in GNSS, cellular and BLE antennas
User defined button	SOS / Yes
LED Indicators	Battery status, Network status, GNSS status
Sensors	Internal 3-axis accelerometer and gyroscope, BLE sensors support
Functionalities	Movement detection, SOS button, OTA settings & firmware updates, Bluetooth Indoor Positioning
Environmental data & reliability	
Operating temperature	-40 °C to +85 °C (battery -10 °C to +60 °C)
Relative humidity	5% to 95%, non-condensing
Ingress Protection Rating	IP65
RoHS compliant	lead-free
Size and Weight	
Weight with battery	90 g
Material	ABS
Dimensions	78 x 48 x 29 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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