vimron®

GPS TRACKER SERIES

Industry GPS Tracker 5G NR RedCap



Industrial, rugged and durable monitoring device with a battery life of up to several years, even in harsh environments, designed for 5G NR Standalone networks with RedCap support

5G 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 NR REDCAP

Technical Specifications

Location GNSS	
Receiver type	u-blox 72-channel
Concurrent GNSS	GPS, GLONASS, Galileo, QZSS, BeiDou
Position accuracy	1.5 m CEP
Sensitivity	-165 dBm
GNSS Assistance	A-GNSS / Assist online GNSS | Faster location acquisition
Cellular	
Technology	5G NR SA (Standalone) RedCap
3GPP	Release 17
Region	Global | Coverage map available at vimron.com/coverage-nb-iot/
Bands	5G NR SA: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n53, n66, n70, n71, n77, n78, n79 LTE: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B34, B38, B39, B40, B41, B42, B43, B48, B66, B71
SIM card size	nano SIM 4FF / eSIM MFF2
Bluetooth Low Energy	
Bluetooth® qualification	6.0 (Bluetooth Low Energy)
Maximum range	Long Range TBD m
Receiver sensitivity	-102 dBm
Power and Battery	
Power Supply	$LiSOCl_2$ / Rechargeable Li-Ion Battery*
Battery Capacity	2.6 - 34 Ah / AA, C, D | Battery life: TBD (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
Size and Weight	
Weight without battery	250 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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