

Badge Tracker

Achieve seamless personnel and asset tracking with the Lansitec Badge Tracker. Combining GNSS, Bluetooth 5.0, and LoRaWAN technology, this sleek device provides accurate real-time positioning both indoors and outdoors—perfect for managing workforce, visitors, and critical assets across large facilities. The built-in 3-axis accelerometer intelligently detects movement or falls, conserving battery when the device is idle and alerting you to unauthorized or emergency situations. With a maximum of five months standby time and no additional network fees, the Badge Tracker offers a cost-effective, high-precision solution for securing sensitive areas, optimizing resource usage, and improving operational workflows.

Dual Indoor/Outdoor Positioning

Switches between Bluetooth for indoor tracking (1–3m accuracy) and GNSS for outdoor tracking (<2.5m CEP), ensuring constant visibility of personnel or assets.

3-Axis Accelerometer

Detects movement, falls, or illegal handling; helps conserve battery by adjusting tracking activity based on real-time motion status.

Long-Lasting Battery

The 600mAh rechargeable battery can last up to five months in standby, reducing maintenance and downtime.

Low Total Cost

LoRaWAN connectivity eliminates the need for cellular data plans, lowering operational expenses and simplifying deployment.

Flexible Configuration

Easily adjust GNSS location acquisition frequency, LoRa communication intervals, and Bluetooth parameters for optimal performance and power consumption.

Enhanced Security Features

AES128 encryption, vibration intensity adjustment, and low-battery alerts help maintain a secure, reliable solution for critical tracking needs.

iBeacon Broadcasting

The device supports Bluetooth broadcasting using the iBeacon protocol, with a default UUID of F2-A5-2D-43-E0-AB-48-9C-B6-4C-4A-83-00-14-67-FD, and Major/Minor values are the last 4 bytes of the device's DevEUI. The UUID, Major, Minor, Interval, and TX power in the broadcast are all configurable.



SCENARIO



WORKER & VISITOR MANAGEMENT



VEHICLE TRACKING & SAFETY

Grant badges to employees and visitors for real-time location monitoring. Use location data to restrict access to sensitive zones, expedite emergency responses, and maintain a secure work environment.

Keep tabs on company vehicles, dispatch them efficiently, and monitor key metrics—like speed or potential malfunctions—to reduce costs and enhance driver safety.



FLEET OPTIMIZATION & RESOURCE ALLOCATION



EVENT & CONFERENCE MANAGEMENT

Whether it's forklifts in a warehouse or carts in a large facility, monitor routes, idle time, and overall usage to improve operational workflows and reduce congestion.

Provide attendees, staff, or VIPs with badges that enable real-time location tracking. Streamline crowd flow, handle security threats proactively, and create data-driven insights for future event planning.

SPECIFICATIONS

Connectivity

Bluetooth Protocol	5.0, iBeacon
RF Power	-20~+4 dBm, configurable in 4 dBm steps
Sensitivity	-96dBm
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance
Indoor Tracking	Bluetooth, 1~3m accuracy
Outdoor Tracking	GNSS, <2.5m CEP

LoRaWAN

LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, CN470
LoRa Distance	>1km in urban area
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz

Mechanics

Dimension	95*61*7mm
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +80°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	28g

GNSS

GNSS	BEIDOU/GALILEO/GPS/GLONASS/QZSS/SBAS (WAAS, EGNOS, GAGAN, MSAS)
GNSS Position Accuracy	<2.5m CEP
Cold Start Duration	30s to 60s

Functions

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
3D Accelerometer	Supported

Encryption	AES128
Low Battery Alert	Supported
Vibration Intensity Adjustment	Supported
Buzzer	Supported
NFC	Supported
Operating Mode	GNSS coordinates acquisition frequency adjustable, LoRa communication frequency adjustable, Automatic BLE and GNSS tracking switching
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

Power

Battery	Li-ion rechargeable battery, 600mAh
GNSS (report interval > 10minutes)	Approx. 1200 times
Bluetooth Positioning	Approx. 2700 times
Standby Current	60µA
Max. Current	450mA
Charging Method	Micro USB
Certification	CE, FCC, RCM

ORDERING INFORMATION

Product Description	Part Number
Badge Tracker, CN470, Bluetooth5.0, Beidou, GNSS, 95*61*7mm, Li-ion 600mAh	100-02372
Badge Tracker, CN470, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02371
Badge Tracker, CN470-Ali, Bluetooth5.0, Beidou, GNSS, 95*61*7mm, Li-ion 600mAh	100-02484
Badge Tracker, CN470-Ali, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02480
Badge Tracker, AS923, Bluetooth5.0, GNSS, 95*61*7mm, Li-ion 600mAh	100-02476
Badge Tracker, AS923, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02876
Badge Tracker, In865, Bluetooth5.0, GNSS, 95*61*7mm, Li-ion 600mAh	100-02566
Badge Tracker, In865, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02567
Badge Tracker, EU868, Bluetooth5.0, GNSS, 95*61*7mm, Li-ion 600mAh	100-02490
Badge Tracker, EU868, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02489
Badge Tracker, US915, Bluetooth5.0, GNSS, 95*61*7mm, Li-ion 600mAh	100-02478
Badge Tracker, US915, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02461
Badge Tracker, RU864, Bluetooth5.0, GNSS, 95*61*7mm, Li-ion 600mAh	100-02491
Badge Tracker, RU864, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02493
Badge Tracker, AU915, Bluetooth5.0, GNSS, 95*61*7mm, Li-ion 600mAh	100-02501
Badge Tracker, AU915, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02502
Badge Tracker, KR920, Bluetooth5.0, GNSS, 95*61*7mm, Li-ion 600mAh	100-02499
Badge Tracker, KR920, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02497
Badge Tracker, ID920, Bluetooth5.0, GNSS, 95*61*7mm, Li-ion 600mAh	100-02801
Badge Tracker, ID920, Bluetooth5.0, 95*61*7mm, Li-ion 600mAh	100-02799