

Macro Bluetooth Gateway

The Lansitec Macro Bluetooth Gateway takes long-range, low-power tracking to the next level. Designed with LoRaWAN and Bluetooth 5.0 at its core, it efficiently gathers beacon or sensor data—such as temperature, humidity, or location—and forwards it to LoRaWAN gateways for real-time monitoring. Thanks to its industrial-grade 38,000mAh lithium thionyl chloride battery, this gateway can run for years, minimizing maintenance while ensuring consistent performance. With a resilient IP66-rated enclosure, wide operating temperature range, and versatile data filtering capabilities, the Macro Bluetooth Gateway delivers dependable, high-precision monitoring in challenging indoor and semi-outdoor environments.



FEATURES

Industrial-Grade Battery (38,000mAh)

Powered by dual 19,000mAh (up to 6 are supported) Li-SoCl₂ batteries, delivering up to seven years of continuous service for minimal downtime.

Indoor Tracking Precision (3m)

Maintain accurate, real-time asset or personnel visibility in complex indoor spaces, reducing operational inefficiencies.

Geo-Fencing

Configure virtual boundaries for proactive alerts when tracked items move beyond defined zones.

Rugged IP66 Construction

Sealed against dust and moisture, the Macro Bluetooth Gateway is built to withstand harsh environments.

Flexible Data Transmission

Forward beacon and sensor readings via LoRaWAN to your app or cloud platform, with adjustable reporting intervals to optimize battery life.

Advanced BLE Payload Filtering

Filter out specific data bytes from Bluetooth payloads and report only the information you need, cutting down on redundant transmissions.

Wide Temperature Range

Engineered to function reliably between -45°C and +85°C, making it suitable for demanding industrial settings.

Extended Reporting & Heartbeat Intervals

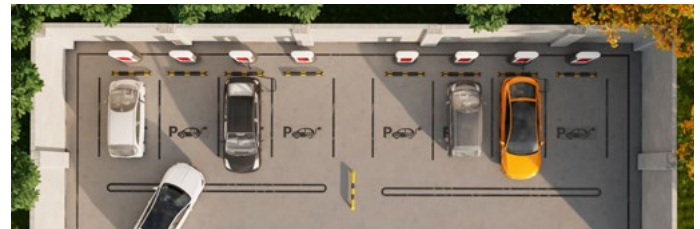
Set custom uplink or heartbeat intervals to refine power consumption and data granularity.

SCENARIO



ASSET AND PERSONAL TRACKING

Protect high-security zones by tracking employee access and movements, helping to prevent unauthorized entry or potential theft. Prevent unauthorized entry, theft, and potential destruction, thereby protecting critical data, devices, and infrastructure.



VEHICLE TRACKING

Monitor fleet activity in real time to enhance dispatch efficiency, optimize routes, and cut down on overall operational costs.



Seamlessly transmit temperature, humidity, liquid level, vibration and other BLE sensor readings to LoRaWAN gateways for robust data analytics and swift decision-making.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	Bluetooth 5.0
LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, CN470
LoRa Maximum RF Power	22dBm
High TX Power Option	Max. 30dBm and -150dBm receiving sensitivity
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
Access Quantity	>500 in one LoRaWAN gateway
Data Rate (bps)	300~30K

MECHANICS

Dimension	160*160*55mm
Operating Temperature	-20°C ~ +65°C
Storage Temperature	-60°C ~ +90°C
Operating Humidity	0% ~ 95% (non-condensing)
Weight	530g
Ingress Protection	IP66

FUNCTIONS

Encryption	AES128
Positioning Precision	3m
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
Switch	Mechanical
Adjustable Position Report Interval	5s x n (1 to 65536)
Heartbeat Report Interval	30s x n (1 to 65536)
FOTA over Bluetooth	Support
Max. Beacons Supported	105, maximum of 15 beacon messages at one single LoRaWAN package @SF9. * Please reach out to us if more are needed.

Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

POWER

Battery	Li-SoCl2 19000mAhx2, optional: 19000mAhx4/19000mAhx6
Battery Life	Standby current: 25 μ A Total Uplink Reports: 720,000 83 months @ 5 minutes report interval Please refer to our battery life calculator for detailed battery life information

ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, EU868, Bluetooth 5.0, 160x160x55mm, IP66, 38000mAh	100-02392
Bluetooth Gateway, built-in antenna, AS923, Bluetooth 5.0, 160x160x55mm, IP66, 38000mAh	100-02365
Bluetooth Gateway, built-in antenna, US915, Bluetooth 5.0, 160x160x55mm, IP66, 38000mAh	100-02366
Bluetooth Gateway, built-in antenna, AU915, Bluetooth 5.0, 160x160x55mm, IP66, 38000mAh	100-02367
Bluetooth Gateway, built-in antenna, RU864, Bluetooth 5.0, 160x160x55mm, IP66, 38000mAh	100-02368
Bluetooth Gateway, built-in antenna, KR920, Bluetooth 5.0, 160x160x55mm, IP66, 38000mAh	100-02369
Bluetooth Gateway, built-in antenna, IN865, Bluetooth 5.0, 160x160x55mm, IP66, 38000mAh	100-02370
Certification	CE, FCC, RCM