

PRODUCT CATALOG



CONTENT

LoRaWAN

Bluetooth

GATEWAY

LoRaWAN Solar Bluetooth Gateway	5
LoRaWAN Macro Bluetooth Gateway	8
LoRaWAN Micro Bluetooth Gateway	11
LoRaWAN Compact Bluetooth Gateway	14
LoRaWAN Macro Proximity Gateway	17
LoRaWAN Indoor Bluetooth Gateway	20
LoRaWAN SocketSync Bluetooth Gateway	23
LoRaWAN SocketSync Proximity Gateway	26

TRACKER

LoRaWAN Container Tracker	29
LoRaWAN Asset Management Tracker	32
LoRaWAN Badge Tracker	35
LoRaWAN Tracking Label	38
LoRaWAN Flex Tracker	41
LoRaWAN Helmet Sensor	44
LoRaWAN Solar Tracker	47
LoRaWAN Macro Tracker	50
LoRaWAN Contact Tracing Badge	53
LoRaWAN Livestock Tracking Tag	56

UWB ToF

ANCHOR

UWB Anchor	60
------------	----

TRACKER

UWB Container Tracker	63
UWB Badge Tracker	66
UWB Asset Management Tracker	69

LoRaWAN Gateway

Indoor LoRaWAN Gateway	73
Outdoor LoRaWAN Gateway	76
Solar Panel and Battery Kit	79

Cat-1

Bluetooth

GATEWAY

Cat-1 Solar Bluetooth Gateway	81
Cat-1 Macro Bluetooth Gateway	84
Cat-1 Compact Bluetooth Gateway	87

TRACKER

Cat-1 Container Tracker	90
Cat-1 Badge Tracker	93
Cat-1 Flex Tracker	96
Cat-1 Macro Tracker	99
Cat-1 Asset Management Tracker	102
Cat-1 Livestock Tracking Tag	105

NTN

TRACKER

NTN Livestock Tracking Tag	109
----------------------------	-----

Ethernet

Bluetooth AoA

GATEWAY

AG1 Indoor AoA Gateway	113
AG3 Indoor AoA Gateway	116
AG4 Outdoor AoA Gateway	119

WiFi

Bluetooth

GATEWAY

WiFi Indoor Bluetooth Gateway	123
-------------------------------	-----

NB-IoT & LTE-M

Bluetooth

GATEWAY

NB-IoT & LTE-M Solar Bluetooth Gateway	127
NB-IoT & LTE-M Macro Bluetooth Gateway	130
NB-IoT & LTE-M Compact Bluetooth Gateway	133
NB-IoT & LTE-M Indoor Bluetooth Gateway	136

TRACKER

NB-IoT & LTE-M Container Tracker	139
NB-IoT & LTE-M Badge Tracker	142
NB-IoT & LTE-M Helmet Sensor	145
NB-IoT & LTE-M Asset Management Tracker	148

LIVESTOCK TRACKING TAG

LoRaWAN Livestock Tracking Tag	56
Cat-1 Livestock Tracking Tag	105
NTN Livestock Tracking Tag	109

BLUETOOTH BEACON

B002 Bluetooth Label	152
B003 Bluetooth Beacon	154
i3 Portable Bluetooth Tag	157
i5 Wearable Bluetooth Beacon	159
B005 Bluetooth Beacon	161
B006 Badge Bluetooth Beacon	164
B010 Industrial Beacon	167
B011 Helmet Beacon	169
B014 Flex Tag	172
Lansitec Smart Wristband	174

SENSOR

Valve Positioning Sensor	178
Temperature & Humidity Sensor	181

ACCESSORIES

Lanyard	184
Clip	184
USB Charge Station	184



BACK

LANSITEC®



LoRaWAN Bluetooth

Solar Bluetooth Gateway

Experience reliable, real-time tracking and asset management with the Lansitec Solar Bluetooth Gateway. Built on the robust LoRaWAN and Bluetooth 5.0 protocols, this gateway seamlessly collects data from nearby BLE beacons and sensors—whether it’s temperature, humidity, or location—and transmits it over long distances via LoRaWAN. Powered by a durable 3W solar film and a 5300mAh rechargeable battery, it thrives in harsh outdoor environments, requiring minimal maintenance. From precise 3-meter outdoor tracking to geo-fencing capabilities, the Lansitec Solar Bluetooth Gateway helps organizations stay connected to their critical assets, reduce losses, and optimize operational efficiency.



FEATURES

Outdoor Tracking Precision (3m)

Pinpoint the exact location of assets, vehicles, or personnel in real time.

iBeacon & Eddystone Compatibility

Receive and restructure data from any BLE sensor or beacon for seamless integration.

Versatile Sensor Data Communication

Collect temperature, humidity, liquid level, blood pressure, weight, and more, then relay data via LoRaWAN to your app or cloud service.

Maintenance-Free Solar Power

A robust solar film and rechargeable battery provide continuous operation, even in harsh climates.

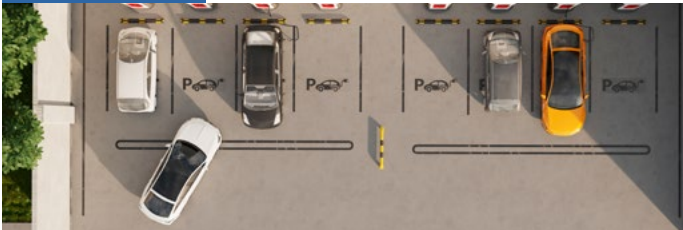
Adjustable Bluetooth Uploading Frequency

Tailor transmission intervals for extended standby time and optimal power use.

Wide Operating Temperature Range

Built to perform reliably between -20°C ~ +65°C, ensuring year-round durability.

SCENARIO



VEHICLE TRACKING

Gain real-time visibility into fleet locations to optimize routes, reduce operating costs, and enhance overall scheduling efficiency.



BLUETOOTH DATA COMMUNICATION

Seamlessly collect data from various BLE sensors—temperature, humidity, or even biometric signals—and transmit it via LoRaWAN to your cloud or on-premises system. Ideal for remote monitoring in healthcare, industrial, or environmental applications.



ASSET AND PERSONAL TRACKING



HOSPITAL ASSET TRACKING

Use advanced geolocation capabilities to keep track of valuable assets and ensure the safety of individuals across diverse environments. The low maintenance and extended battery life make it a robust solution for both large-scale facilities and remote field operations.

Monitor vital medical equipment—like wheelchairs, heart rate monitors, CT machines, X-ray machines, and operating tables—to improve efficiency, reduce losses, and ensure timely patient care. Keep tabs on drug inventory to avoid expiration or misplacement.

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

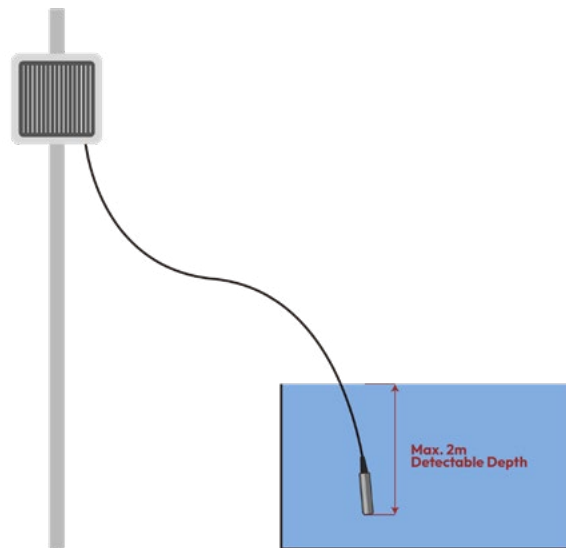
Dimension	160*160*54.5mm
Operating Temperature	-20°C ~ +65°C
Charging Temperature	-20°C ~ +60°C
Storage Temperature	-45°C ~ +85°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	0% ~ 95% (non-condensing)
Weight	460g
Ingress Protection	IP66

FUNCTIONS

Encryption	AES128, X509
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 Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)

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

Water Level Detection	Optional
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POWER

Battery	Li-ion rechargeable battery 5300mAh
Solar Panel	3W
Battery Life	Approx. 201,000 times Bluetooth advertising @ 5mins 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, solar, Bluetooth 5.0, LoRaWAN, 160x160x54.5mm, IP66, 5300mAh	100-02049 (FCC) 100-02046 (CE)
Certification	CE, FCC, RCM

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 -20°C ~ +65°C, making it suitable for demanding industrial settings.

Extended Reporting & Heartbeat Intervals

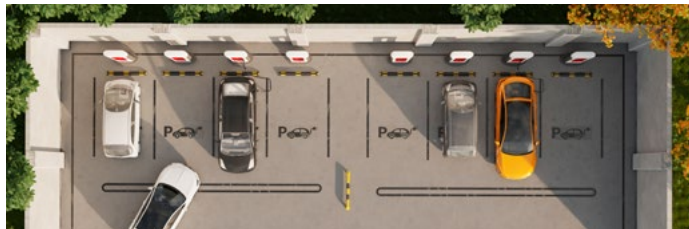
Set custom uplink or heartbeat intervals to refine power consumption and data granularity.

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*54.5mm
Operating Temperature	-20°C ~ +65°C
Storage Temperature	-60°C ~ +90°C
Operating Humidity	0% ~ 95% (non-condensing)
Temperature Sensor Range	-45°C ~ +85°C
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 Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
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: 25µA Total Uplink Reports: 720,000 Approx. 1,440,000 times Bluetooth advertising @ 5 minutes report interval with 19000mAhx2 Battery. 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, 160x160x54.5mm, IP66, 38000mAh	100-02392
Bluetooth Gateway, built-in antenna, AS923, Bluetooth 5.0, 160x160x54.5mm, IP66, 38000mAh	100-02365
Bluetooth Gateway, built-in antenna, US915, Bluetooth 5.0, 160x160x54.5mm, IP66, 38000mAh	100-02366
Bluetooth Gateway, built-in antenna, AU915, Bluetooth 5.0, 160x160x54.5mm, IP66, 38000mAh	100-02367
Bluetooth Gateway, built-in antenna, RU864, Bluetooth 5.0, 160x160x54.5mm, IP66, 38000mAh	100-02368
Bluetooth Gateway, built-in antenna, KR920, Bluetooth 5.0, 160x160x54.5mm, IP66, 38000mAh	100-02369
Bluetooth Gateway, built-in antenna, IN865, Bluetooth 5.0, 160x160x54.5mm, IP66, 38000mAh	100-02370
Certification	CE, FCC, RCM

Micro Bluetooth Gateway

Boost indoor asset visibility with Lansitec's Micro Bluetooth Gateway, a palm-sized LoRaWAN/BLE bridge that silently harvests beacon and sensor data and pushes it to the cloud in near-real time. Its dual 4000 mAh Li-SoCl2 cells deliver 6-plus years of maintenance-free uptime, while the rugged IP68 enclosure shrugs off dust, water, and extreme temperatures – giving you dependable coverage anywhere assets move.



FEATURES

LoRa + BLE Dual-Mode Bridge

Seamlessly funnels any BLE beacon or sensor data to public or private LoRaWAN back-haul.

Ultra-Long Autonomy

8000 mAh battery pack sustains approx. 297,000 times Bluetooth advertising @ 5 minutes report interval

3m Indoor Accuracy

RSSI-driven positioning plus configurable geo-fences for zone alerts.

Rugged IP68 Build

PC/ABS housing, -10°C ~ +65°C, 0-95 % RH (non-cond).

Smart Payload Filter

On-device byte-level filtering & compression cuts airtime costs.

High Tag Capacity

Tracks > 500 beacons; TDMA sync handles 105 packets per uplink.

FOTA-Ready

Bluetooth firmware upgrades without site visits.

Global Band Support

EU868, US915, AS923 and more, 22 dBm (30 dBm optional) TX power.

SCENARIO



MOBILE MEDICAL ASSETS

Locate imaging carts, pumps, or drug trolleys in seconds to boost utilisation and cut losses.



EVENT & EXHIBITION CONTROL

Temporary deployment guides visitor flow and protects rental equipment.



PERSONNEL SAFETY ZONES



SMART WAREHOUSING

Geo-fence alerts keep staff out of restricted or hazardous areas.

Automate pallet and forklift tracking to accelerate pick-and-pack workflows.

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	78*79*35mm
Ingress Protection	IP68
Weight	133g
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +75°C
Operating Humidity	0% ~ 95% (non-condensing)
Temperature Sensor Range	-45°C ~ +85°C
Housing Material	PC and ABS
PCB Coating	Water proof coating

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 with status LED	Mechanical
Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
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 Battery, 4000mAh×2
Battery Life	Standby current: 25μA Total Uplink Reports: 67000 Approx. 297,000 times Bluetooth advertising @ 5 minutes report interval

ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, Micro, built-in antenna, LoRaWAN, Bluetooth 5.0, 78*79*35mm, IP68, 8000mAh	100-02048

Compact Bluetooth Gateway

Discover the power of portable, real-time tracking with the Lansitec Compact Bluetooth Gateway. Designed with Bluetooth 5.0 and LoRaWAN technology, this slim gateway captures nearby BLE beacon signals and transmits them to your LoRaWAN network for seamless monitoring. Equipped with a 600mAh rechargeable battery, it can operate wirelessly for approximately 10 hours on a single charge—or much longer with adjusted Bluetooth settings—making it ideal for short-term deployments, pop-up events, or on-the-go asset management. With a precision of up to 5 meters indoors and geo-fencing capabilities, the Compact Bluetooth Gateway offers a quick, flexible way to keep your assets, vehicles, and personnel in check.



5m Indoor Tracking Precision

Pinpoint assets and personnel within tighter indoor spaces for more accurate data collection and analysis.

Geo-Fence Support

Create virtual perimeters to instantly detect when tracked items or individuals leave designated zones.

Long-Distance Bluetooth 5.0

Benefit from extended range and reduced power consumption, ensuring efficient data collection.

Flexible LoRaWAN Connectivity

Transmit beacon signals to your server or cloud over LoRaWAN, enabling wide-area monitoring.

Compact, Portable Design

At just 95.4*61.4*7.3mm, the gateway is easy to carry or install in tight spaces, making it versatile for various scenarios.

Built-In 600mAh Rechargeable Battery

Enjoy around 10 hours of operation off the grid, with the option to optimize battery life by adjusting Bluetooth settings.

Configurable Bluetooth data filter and payload report

Filter any data bytes from BLE sensors and forward only the essential information, reducing bandwidth and power usage.

SCENARIO



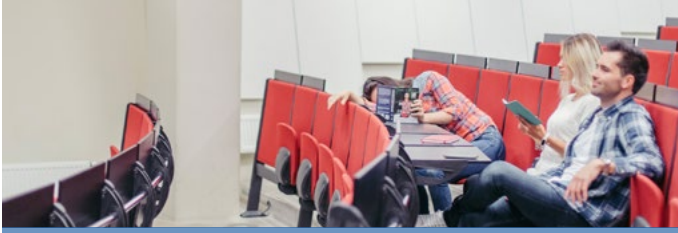
VEHICLE TRACKING

Manage vehicle and key locations in real-time to improve fleet scheduling, reduce operating costs, and enhance security.



RETAIL INVENTORY MANAGEMENT

Maintain real-time oversight of stock in retail environments or pop-up stores. The compact form factor makes it easy to deploy near point-of-sale areas or shelves for immediate, actionable insights on product availability.



CONFERENCE ATTENDEE TRACKING

Capture attendee check-ins and foot traffic patterns at events, allowing organizers to optimize layouts, manage crowd flow, and enhance overall attendee experience.



HOSPITAL ASSET TRACKING

Efficiently locate medical equipment—like CT machines, X-ray machines, or operating tables—to streamline operations and prevent loss or damage.

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 Fastest Communication Frequency	5s
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
Transmission Capacity	100 beacon messages can be received within 1s, Maximum of 15 beacon messages can be sent in one package

MECHANICS

Dimension	95.4*61.4*7.3mm
Operating Temperature	-10°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)

FUNCTIONS

Encryption	AES128
Indoor Tracking	5m accuracy
Geo-fence	Supported
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
Switch	Support
Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
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-ion rechargeable battery, 600mAh
Battery Life	Approx. 22,000 times Bluetooth advertising @ 5 minutes report interval
Power Supply Mode	5V/1A
Charge Jack	Micro USB

ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, Bluetooth5.0, CN470, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18471
Bluetooth Gateway, Bluetooth5.0, CN470-Ali, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18472
Bluetooth Gateway, Bluetooth5.0, AS923, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18475
Bluetooth Gateway, Bluetooth5.0, US915, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18473
Bluetooth Gateway, Bluetooth5.0, RU864, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18476
Bluetooth Gateway, Bluetooth5.0, EU868, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18477
Bluetooth Gateway, Bluetooth5.0, AU915, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18478
Bluetooth Gateway, Bluetooth5.0, IN865, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18479
Bluetooth Gateway, Bluetooth5.0, KR920, 5V, 95.4*61.4*7.3mm, Li-ion 600mAh	100-18474
Certification	CE, FCC, RCM

Macro Proximity Gateway

Elevate safety and tracking with the Lansitec Macro Proximity Gateway. Featuring both Bluetooth 5.0 and LoRaWAN technology, this gateway does more than just collect beacon data: it actively monitors proximity and triggers an alarm—complete with buzzing and flashing—whenever a Bluetooth beacon enters a predefined range. By measuring signal strength (RSSI), the Macro Proximity Gateway estimates the distance between itself and nearby beacons, relaying critical data to a LoRaWAN gateway for real-time visibility. Multiple battery configurations (up to 6×19,000mAh) ensure at least one year of continuous operation, making it an ideal solution for extended deployments where safety, security, and asset tracking are top priorities.

Proximity Alarm with LED & Buzzer

Automatically alert nearby personnel when a beacon crosses an adjustable RSSI threshold, bolstering safety and security.

Accurate Indoor Tracking

Track assets and personnel within indoor environments, leveraging LoRaWAN connectivity for long-range reporting.

Geo-Fencing

Define virtual boundaries and receive instant alerts if tracked items move beyond their designated zones. Adjustable Alarm Settings - Customize alarm range, duration, volume, heartbeat intervals, and more for optimal performance.

High-Capacity Battery Options

Choose from multiple Li-SoCl2 battery configurations to ensure at least one year of uninterrupted operation.

IP66-Rated Durability

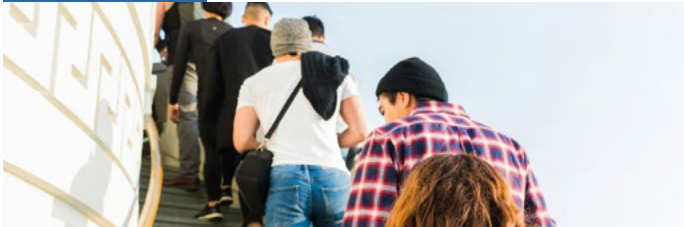
Built to withstand harsh conditions with protection against dust and water, making it suitable for industrial environments.

Comprehensive BLE Gateway

Gather sensor readings (e.g., temperature, humidity) from nearby Bluetooth beacons and forward them via LoRaWAN for centralized monitoring.



SCENARIO



VISITOR MANAGEMENT & RESTRICTED ACCESS

Implement proximity-based controls in hospitals, museums, data centers, or corporate offices. When an asset or a visitor wearing a beacon nears a restricted zone, the gateway's alarm system notifies security personnel, ensuring swift response and asset protection.



CONSTRUCTION SITE SAFETY

Deploy proximity alerts to warn workers of approaching heavy machinery or hazardous zones. The audible and visual alarms help reduce accidents and enhance overall site safety.



Seamlessly transmit temperature, humidity, liquid level, 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
LoRa Communication Distance	300~30K
Encryption	AES128

MECHANICS

Dimension	160*160*54.5mm
Operating Temperature	-20°C ~ +65°C
Storage Temperature	-60°C ~ +90°C
Operating Humidity	0% ~ 95% (non-condensing)
Temperature Sensor Range	-45°C ~ +85°C
Weight	530g
Ingress Protection	IP66

BLUETOOTH

Protocol	Bluetooth 5.0
TX Power	4, 0, -4, -8, -12, -16, -20dBm
Sensitivity	-96dBm
Receiving Range	50m

FUNCTIONS

Alarm RSSI Threshold	Default: -65dBm, adjustable
Buzzer Volume Level	0 (silent) to 4 (maximum)
Buzzer Duration	10s x n (1 to 255)
Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 255)

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
FOTA over Bluetooth	Support
Switch	Mechanical
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

Standby Current	15µA
Switch	Support
Status LED	Support
Battery	Li-SoCl2 Battery, 19000mAhx2/19000mAhx4/19000mAhx6
Battery Life	19000mAhx2 Battery: approx. 1,440,000 times Bluetooth advertising @ 5 minutes report interval

ORDERING INFORMATION

Product Description	Part Number
Macro Proximity Gateway, buzzer, LED, built-in antenna, Bluetooth 5.0, 160x160x54.5mm, IP66, 76000mAh	100-02386
Certification	CE, FCC, RCM

Indoor Bluetooth Gateway

Elevate your indoor asset and personnel tracking with the Lansitec Indoor Bluetooth Gateway. Designed around Bluetooth 5.0 technology and LoRaWAN, this gateway ensures seamless data transmission without additional network fees—even across long distances. By collecting beacon signals from badges, bracelets, and various BLE sensors, it provides real-time insights into locations, movements, and environmental conditions. Whether you're managing security staff, monitoring warehouse inventory, or overseeing event operations, the Indoor Bluetooth Gateway delivers low-power, high-efficiency connectivity to help you stay informed and in control.

Optimized for Indoor Environments

Ideal for offices, warehouses, hospitals, or event venues, offering precise real-time tracking and minimal interference.

Cost-Effective LoRaWAN Connectivity

Enjoy wide-area coverage without incurring extra network usage fees for data transmission.

Bluetooth 5.0 for Extended Range

Benefit from robust signal strength and low power consumption when collecting data from BLE beacons and sensors.

Geo-Fence Support

Establish virtual perimeters around critical areas, receiving alerts whenever tagged items or personnel enter or exit these zones.

Configurable Bluetooth data filter and payload report

Filter and report only the data you need—such as temperature, humidity, or motion—reducing bandwidth and power usage.



Versatile Power Options

Operate via a 600mAh rechargeable battery for short-term deployments or connect to a 5V/1A power source for continuous use.

FOTA Over Bluetooth

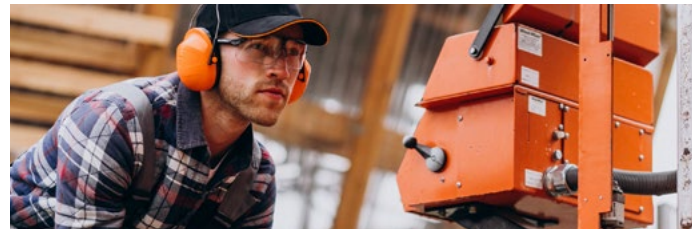
Keep your gateway updated with over-the-air firmware upgrades, ensuring you always have the latest features and security patches.

SCENARIO



REAL-TIME STAFF TRACKING

Issue connected badges to security personnel, maintenance workers, or event organizers. Monitor their locations and movements in real time to coordinate responses, deploy resources efficiently, and enhance on-site safety.



LONE WORKER PROTECTION

Provide an extra layer of security for employees working late or in isolated areas. Automated alerts trigger if a staff member's badge remains stationary for too long or enters restricted zones.



FACILITY ENVIRONMENT MONITORING

Collect temperature, humidity, and other environmental data via BLE sensors placed throughout your building. Analyze this information through LoRaWAN for better climate control, energy savings, and asset preservation.



EVENT CROWD MANAGEMENT

Track attendee flow and prevent overcrowding. Strategically place the gateway around venues to gather data from wearable beacons, helping organizers optimize layouts and enhance crowd safety.

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 Fastest Communication Frequency	5s
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz

MECHANICS

Dimension	120*120*31mm
Weight	175g
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-45°C ~ +85°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)

FUNCTIONS

Geo-fence	Support
Encryption	AES128
Transmission Capacity	100 beacon messages can be received within 1s, maximum of 15 beacon messages can be sent in one package
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
FOTA over Bluetooth	Support
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

POWER

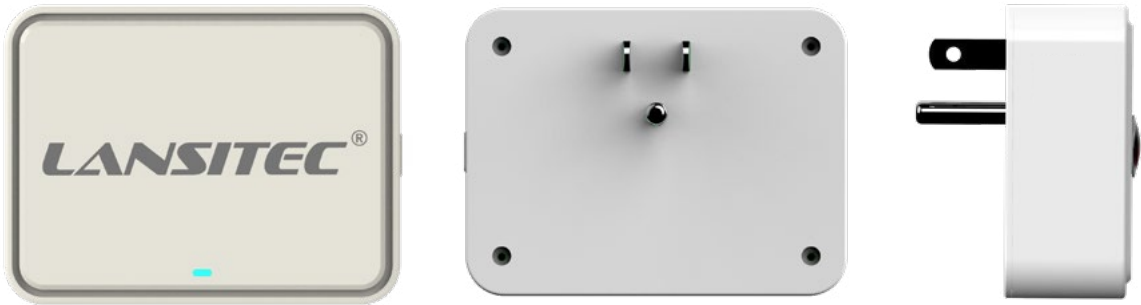
Battery	Li-ion rechargeable battery, 600mAh
Battery Life	Approx. 22,000 times Bluetooth advertising @ 5 minutes report interval
Power Supply Mode	5V/1A
Connect to Power Source	Yes
Charge Jack	Micro USB

ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, CN470, 5V	100-18369
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, CN470-Ali, 5V	100-18370
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, IN865, 5V	100-18365
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, AU915, 5V	100-18465
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, AS923, 5V	100-18466
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, US915, 5V	100-18467
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, EU868, 5V	100-18468
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, IN865, 5V	100-18469
Bluetooth Gateway, Bluetooth5.0, 120x120x31mm, KR920, 5V	100-18378
Certification	CE, FCC, RCM

SocketSync Bluetooth Gateway

Streamline your indoor tracking and data collection with the Lansitec SocketSync Bluetooth Gateway. Built on a powerful combination of BLE and LoRaWAN technology, this compact device reads Bluetooth beacon data—such as location or sensor measurements—and forwards it securely via LoRaWAN to your preferred server or cloud platform. Designed for easy installation in office buildings, hospitals, or public venues, the SocketSync Gateway features adjustable parameters—including heartbeat intervals and LoRaWAN work modes—so you can tailor its operation to your specific needs. Whether you’re tracking hospital equipment, monitoring staff movement, or managing public spaces, SocketSync offers a flexible, cost-efficient gateway solution with minimal downtime.



Plug-and-Play Installation

Simply connect the gateway to an AC power source (85–305VAC). A built-in 300mAh battery ensures continuous operation during power outages.

Bluetooth 5.0 & LoRaWAN Integration

Receive data from BLE beacons and transmit it over LoRaWAN for broad coverage without incurring additional data costs.

Adjustable Reporting & Alarms

Customize heartbeat intervals, position reports, and alarm triggers for precise control over your monitoring systems.

Long-Distance LoRa Communication

Achieve up to 1.5km coverage in urban areas, enabling wide-area indoor or near-indoor tracking.

Configurable Bluetooth data filter and payload report

Filter out unnecessary data bytes from BLE sensor messages to optimize bandwidth and power usage.

Robust Security

Utilize AES128 encryption for safe, end-to-end data transmission and peace of mind in secure environments.

Versatile Sensor Compatibility

Collect temperature, humidity, pressure, and more from BLE sensors, with the option to tailor data reports to your unique application. Wide power supply - 85–305VAC

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HOSPITAL ASSET TRACKING

Monitor crucial medical tools—like infusion pumps and diagnostic devices—and ensure they’re located, maintained, and deployed efficiently.



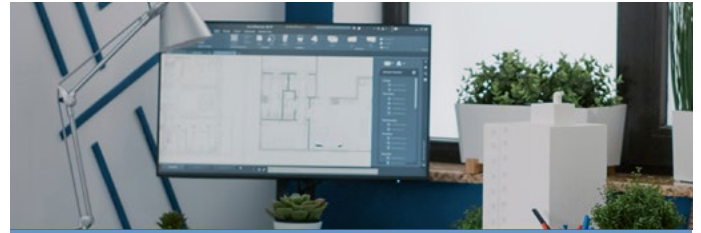
PUBLIC SPACE MANAGEMENT

Oversee security personnel, maintenance teams, or event staff in large venues such as shopping malls, stadiums, or airports. Real-time location visibility improves safety and responsiveness.



WAREHOUSE & INVENTORY OPTIMIZATION

Track pallets, forklifts, or valuable goods within a busy warehouse environment. Leverage the gateway's long-range connectivity to reduce misplaced items and streamline operations.



SMART OFFICE & CO-WORKING SPACES

Monitor desk occupancy, temperature, and air quality with BLE sensors. Automatically adjust HVAC settings and optimize workspace allocation in real time to boost comfort and efficiency.

SPECIFICATIONS

BLUETOOTH

TX Power	4, 0, -4, -8, -12, -16, -20dBm
Sensitivity	-96dBm
Receiving Range	50m

LoRaWAN

Activation Mode	OTAA or ABP
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, ID920, KR920, IN865, KZ865, CN470, CN470-Ali
LoRa TX Power	0 to 20dBm
LoRa Sensitivity	-139dBm @SF12, BW 125kHz, 434MHz/470MHz -137dBm @SF12, BW 125kHz, 868MHz/915MHz
LoRa Communication Distance	>1.5km in the urban area
Encryption	AES128

MECHANICS

Dimension	81*61*48mm
Housing Material	ABS with fire retardant
Operating Temperature	-10 ~ +60°C
Storage Temperature	-45°C ~ +85°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)

FUNCTIONS

Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
FOTA over Bluetooth	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
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
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POWER

AC Input	85~305VAC
Standby Current	5mA
Max. Current	200mA
Switch	Mechanical
Status LED	Support
Battery	Li-ion rechargeable battery, 300mAh
Battery Life	Approx. 11,500 times Bluetooth advertising @ 5 minutes report interval

ORDERING INFORMATION

Product Description	Part Number
SocketSync Gateway, built-in antenna, Bluetooth 5.0, LoRaWAN, 90~260VAC	100-00PG1
Certification	CE, FCC, RCM

SocketSync Proximity Gateway

Enhance indoor safety and tracking precision with the SocketSync Proximity Gateway. Combining Bluetooth 5.0 and LoRaWAN technology, this compact device not only collects and forwards BLE sensor data to the LoRaWAN network but also alerts you with buzzing and flashing when a Bluetooth beacon enters a predefined proximity range. By calculating distance based on the signal strength (RSSI), the SocketSync Proximity Gateway helps you protect sensitive areas, manage high-value equipment, and monitor personnel in real time. Thanks to its configurable alarm range, adjustable reporting intervals, and robust power options, this gateway provides a versatile solution for security, asset management, and workflow efficiency across diverse indoor scenarios.



Proximity-Based Alarms

Trigger buzzer and LED flash alerts when beacons cross a customizable RSSI threshold, enhancing on-site safety and security.

Indoor Tracking & Geo-Fencing

Monitor movement within defined areas and receive notifications if assets, personnel, or visitors breach preset boundaries.

LoRaWAN & Bluetooth 5.0 Integration

Enjoy wide-area, cost-effective connectivity without compromising on low-power, long-range performance.

Easy Installation & Power Options

Comes with AC power support (85–305VAC), a rechargeable 300mAh battery for temporary power outages, and a compact ABS housing for simple mounting.

FOTA Over Bluetooth

Keep your device up to date with over-the-air firmware upgrades for continuous improvements in performance and security. Wide power supply – 85–305VAC

Customizable Reporting

Adjust alarm duration, heartbeat intervals, beacon report frequency, and Bluetooth payload settings to match your operational needs.

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PERSONNEL SAFETY & ACCESS CONTROL

Automatically alert staff if someone enters a restricted zone, or if a lone worker remains stationary for too long—ideal for office buildings and industrial settings.



EVENT MANAGEMENT

Deploy the gateway at entrances or designated sections to control crowd flow, prevent bottlenecks, and enhance attendee safety with immediate, on-the-spot alarms.



WAREHOUSE COLLISION AVOIDANCE



REAL-TIME RETAIL SECURITY

Minimize accidents by alerting forklift operators or warehouse staff when they come too close to one another or to restricted aisles, preventing collisions and enhancing on-site safety.

Monitor high-value merchandise in retail stores; trigger on-site alarms and remote notifications if inventory items are moved without authorization.

SPECIFICATIONS

LoRaWAN CONNECTIVITY

LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, AS923, LA915, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
LoRa Sensitivity	-139dBm @SF12, BW 125kHz, 434MHz/470MHz -137dBm @SF12, BW 125kHz, 868MHz/915MHz
LoRa Communication Distance	>1.5km in the urban area
Encryption	AES128

BLUETOOTH CONNECTIVITY

Protocol	Bluetooth 5.0
TX Power	4, 0, -4, -8, -12, -16, -20dBm
Sensitivity	-96dBm
Receiving Range	50m

FUNCTIONS

Alarm RSSI Threshold	Default: -65dBm, adjustable
Buzzer Volume Level	0 (silent) to 4 (maximum)
Buzzer Duration	10s x n (1 to 255)
Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 255)
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
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

MECHANICS

Dimension	81*61*48mm
Housing Material	ABS with fire retardant
Operating Temperature	-10 to 60°C
Temperature Sensor Range	-45°C ~ +85°C
Weight	85g

POWER

AC Input	85~305VAC
Standby Current	15μA
Max. Current	200mA
Switch	Mechanical
Status LED	Support
Battery	Li-ion rechargeable battery, 300mAh
Battery Life	Approx. 11,500 times Bluetooth advertising @ 5 minutes report interval

ORDERING INFORMATION

Product Description	Part Number
SocketSync Proximity Gateway, plug, buzzer, LED, built-in antenna, Bluetooth 5.0, LoRaWAN, 90~260VAC, 300mAh	100-18364
Certification	CE, FCC, RCM

Container Tracker

Keep track of your valuable assets, wherever they travel, with the Lansitec Container Tracker. Equipped with GNSS, Bluetooth, and LoRaWAN technology, it excels at both indoor and outdoor positioning—providing real-time visibility into containers, transit cases, heavy machinery, and more. Its rugged IP68-rated enclosure and ultra-long battery life allow for extended deployments in harsh environments, while tamper detection and vibration sensing enhance security and damage prevention. From monitoring a single container in motion to overseeing an entire fleet of shipping assets, the Lansitec Container Tracker helps you reduce losses, streamline logistics, and maintain full control over your operations.

GNSS & Bluetooth Integration

Combine multi-satellite tracking (GPS, BDS, GALILEO, GLONASS, QZSS, SBAS) with BLE for accurate indoor and outdoor positioning.

IP68-Rated Durability

Ensure reliable performance in harsh or wet environments, ideal for long-haul shipping and outdoor storage.

Ultra-Long Battery Life

Powered by dual Li/SOCI2 4000mAh batteries, enabling thousands of position reports before a recharge or replacement is needed.

Tamper & Vibration Detection

Receive real-time alerts if the device is removed from a container or subjected to excessive shocks.

Door Open/Close Sensing

Monitor access in transit, reducing theft and unauthorized entry.

Offline Cache & FOTA

Stores up to 40 positions when out of network range, and supports firmware updates over Bluetooth for ongoing performance improvements.



Built-In 3D Accelerometer

Track movement duration and vibration intensity to gauge usage, detect mishandling, and prevent damage.

Asset Management with Bluetooth Tags

Collect data from nearby BLE tags to monitor secondary assets, inventory items, or equipment within the container.

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



CONTAINER TRACKING

Gain real-time visibility of thousands of containers across fleets. An instant alarm triggers if the tracker is tampered with, securing shipments and preventing unauthorized removal.



TRANSIT CASE TRACKING

Maintain continuous oversight of sensitive materials, ensuring you know the location and contents of each case—whether in a warehouse or on the move.



MACHINE STATUS MONITORING

Observe vibration levels, total usage time, and movement patterns for machinery, enabling preventive maintenance and optimal utilization.



GENERAL ASSET MANAGEMENT

Keep tabs on critical inventory—even in remote sites—by leveraging LoRaWAN for wide coverage and Bluetooth for detailed proximity data.

SPECIFICATIONS

Connectivity

Bluetooth Protocol	5.0, iBeacon
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance
Sensitivity	-96dBm
RF Power	-20~+4 dBm, configurable in 4 dBm steps

LoRaWAN

LoRaWAN Protocol	1.0.2B, Class A
Activation Mode	OTAA or ABP
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, CN470
LoRa TX Power	0 to 20dBm
LoRa Sensitivity	-137dBm @SF12, BW125kHz, 868MHz/915MHz
LoRa Communication Distance	>1km in urban area
Encryption	AES128

GNSS

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

Mechanics

Dimension	198*28.3*33.3mm
Ingress Protection	IP68
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-10°C ~ +30°C
Operating Humidity	0% ~ 95% (non-condensing)
Housing Material	PC and ABS
Weight	133g

Battery	Li/SOCI2 4000mAh x 2
GNSS (default report interval 30mins)	Approx. 26,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 297,000 times
Standby Current	60µA
Max. Current	450mA

Functions

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Heartbeat Report Interval	30s x n (1 to 65535)
Switch	Magnetic Reed
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Tamper Detection	Support
FOTA over Bluetooth	Support
Movement Duration	Support
Door Open/Close Sensing	Optional
Vibration Shock Detection	Support
Asset Management with Bluetooth Tags	Support (report nearby Bluetooth tags)
Offline Cache Position (40 Positions)	Support
Magnetic Power Switch Enable/Disable	Support
3D Accelerometer	Support
NFC Tag	1KB
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

ORDERING INFORMATION

Product Description	Part Number
Container Tracker, AS923, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02394
Container Tracker, IN865, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02702
Container Tracker, EU868, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02393
Container Tracker, US915, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-00160
Container Tracker, RU864, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02705
Container Tracker, AU915, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02706
Container Tracker, KR920, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02707
Container Tracker, ID920, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02708
Container Tracker, CN470, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02709
Container Tracker, CN470-Ali, Bluetooth5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-02710

Asset Management Tracker

Optimize how you track, monitor, and safeguard high-value items with the Lansitec Asset Management Tracker. Featuring GNSS, Bluetooth 5.0, and LoRaWAN technology, this device delivers accurate indoor and outdoor positioning—ensuring full visibility of assets ranging from shipping containers and transit cases to industrial machinery. Its IP68-rated enclosure and ultra-long battery life provide dependable performance in harsh conditions, while features like tamper detection, door open/close sensing, and vibration monitoring strengthen security and operational oversight. Whether you're managing remote equipment, monitoring valuable shipments, or consolidating on-site inventory, the Asset Management Tracker helps you stay informed in real time, reduce losses, and streamline processes.

Multi-Technology Positioning

Combine GNSS for outdoor tracking and Bluetooth 5.0 for indoor positioning, ensuring continuous visibility across varied environments.

IP68 Rugged Enclosure

Shield the device against water, dust, and extreme temperatures for reliable performance in challenging conditions.

Ultra-Long Battery Life

Dual Li/SOC12 4000mAh batteries enable thousands of position updates, minimizing maintenance and device downtime.

Tamper & Door Open/Close Detection

Receive immediate alerts if the device is removed or if a container door is opened unexpectedly.

Comprehensive Movement & Vibration Monitoring

Track operational hours, detect shock events, and know when machinery is moved or used outside set parameters.

Asset Management with BLE Tags

Maintain a real-time inventory of items stored within containers or transit cases by reporting nearby Bluetooth tags.



Offline Cache & FOTA

Store up to 40 position logs when out of network range and update firmware over Bluetooth to keep the device secure and current.

Adjustable Reporting Intervals

Configure position or heartbeat intervals to match your operational needs, saving power while providing timely data.

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



MACHINE STATUS MONITORING

Observe vibration levels, total usage time, and movement patterns for machinery, enabling preventive maintenance and optimal utilization.



GENERAL ASSET MANAGEMENT

Keep tabs on critical inventory—even in remote sites—by leveraging LoRaWAN for wide coverage and Bluetooth for detailed proximity data.



OFF-SITE EQUIPMENT DEPLOYMENT



EMERGENCY RESPONSE READINESS

Track items loaned or leased to third-party locations, ensuring you know where your assets are and how they're being used at all times.

Secure vital rescue or medical supplies. The tracker's tamper detection and door sensing ensure equipment remains sealed and ready for immediate deployment.

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

LoRaWAN

LoRaWAN Protocol	1.0.2B, Class A
Activation Mode	OTAA or ABP
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, CN470
LoRa TX Power	0 to 20dBm
LoRa Sensitivity	-137dBm @SF12, BW125kHz, 868MHz/915MHz
LoRa Communication Distance	>1km in urban area
Encryption	AES128

GNSS

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

Mechanics

Dimension	78x79x35mm
Ingress Protection	IP68
Weight	133g
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +75°C
Operating Humidity	0% ~ 95% (non-condensing)
Housing Material	PC and ABS
PCB Coating	Water proof coating

Power

Battery	Li/SOCI2 4000mAh x 2
GNSS (default report interval 30mins)	Approx. 26,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 297,000 times
Standby Current	60µA
Max. Current	450mA

Functions

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Heartbeat Report Interval	30s x n (1 to 65535)
Switch	Mechanical
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Tamper Detection	Support
FOTA over Bluetooth	Support
Movement Duration	Support
Door Open/Close Sensing	Support
Vibration Shock Detection	Support
Asset Management with Bluetooth Tags	Support (report nearby Bluetooth tags)
Offline Cache Position (40 Positions)	Support
Mechanical Power Switch Enable/Disable	Support
3D Accelerometer	Support
NFC Tag	1KB
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

ORDERING INFORMATION

Product Description	Part Number
Asset Management Tracker, LoRaWAN, Bluetooth 5.0, GNSS, 78x79x35mm, 2x4000mAh, IP68	100-00165

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.



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WORKER & VISITOR MANAGEMENT

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.



VEHICLE TRACKING & SAFETY

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

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.



EVENT & CONFERENCE MANAGEMENT

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	95.4*61.4*7.3mm
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
Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
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 (default report interval 30mins)	Approx. 2,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 22,000 times
Standby Current	60μA
Max. Current	120mA
Charging Method	Micro USB
Certification	CE, FCC, RCM

ORDERING INFORMATION

Product Description	Part Number
Badge Tracker, CN470, Bluetooth5.0, Beidou, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02372
Badge Tracker, CN470, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02371
Badge Tracker, CN470-Ali, Bluetooth5.0, Beidou, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02484
Badge Tracker, CN470-Ali, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02480
Badge Tracker, AS923, Bluetooth5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02476
Badge Tracker, AS923, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02876
Badge Tracker, In865, Bluetooth5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02566
Badge Tracker, In865, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02567
Badge Tracker, EU868, Bluetooth5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02490
Badge Tracker, EU868, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02489
Badge Tracker, US915, Bluetooth5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02478
Badge Tracker, US915, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02461
Badge Tracker, RU864, Bluetooth5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02491
Badge Tracker, RU864, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02493
Badge Tracker, AU915, Bluetooth5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02501
Badge Tracker, AU915, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02502
Badge Tracker, KR920, Bluetooth5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02499
Badge Tracker, KR920, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02497
Badge Tracker, ID920, Bluetooth5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02801
Badge Tracker, ID920, Bluetooth5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-02799

Tracking Label

Say goodbye to lost shipments and untraceable assets with Lansitec's ultra-thin Tracking Label. Combining GNSS, Bluetooth 5.0, and LoRaWAN technology, this disposable tracking solution provides reliable indoor and outdoor positioning for packages, pallets, and containers. Whether you're shipping goods across the globe or simply managing inventory within a warehouse, the Tracking Label's 3-axis accelerometer and automatic BLE/GNSS switching ensure efficient power use without compromising on accuracy. With up to three years of battery life (based on six GNSS reports per day) and an IP66 rating, this label is built to stand up to harsh conditions and lengthy transit times—giving you the confidence to monitor and manage your assets from end to end.

Ultra-Thin & Disposable Design

At just 3mm thick, it's easy to attach to packages or pallets, making it the ideal lightweight, single-use tracking solution.

Dual Indoor/Outdoor Tracking

Switch automatically between Bluetooth (1–3m accuracy) indoors and GNSS (<2.5m CEP) outdoors for consistent location visibility.

Long Battery Life

A built-in 1800mAh disposable lithium battery can last over three years under typical usage, significantly reducing maintenance.

Intelligent Motion Detection

The 3-axis accelerometer detects movement or tampering and adjusts tracking frequency to conserve power.

Rugged IP66 Enclosure

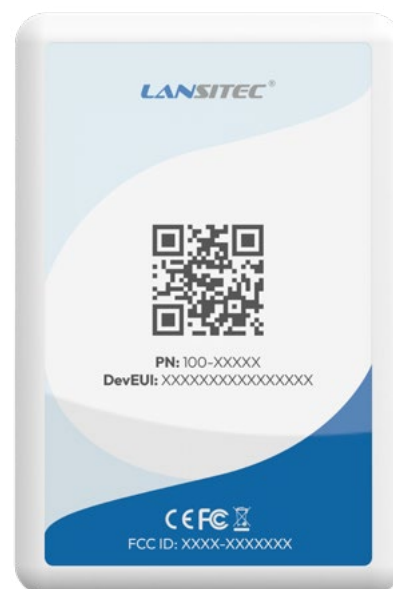
Safeguards against moisture, dust, and mild impacts, ensuring reliable performance in transit or storage.

Low Operating Costs

LoRaWAN connectivity removes the need for costly cellular data plans, lowering your total cost of ownership.

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



PACKAGE & PALLET TRACKING

Monitor shipments in real time across multiple carriers, alerting you to potential delays, re-routes, or tampering.

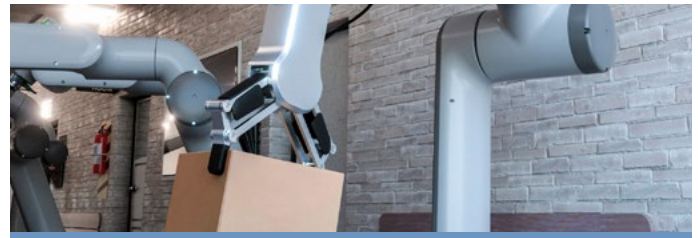


WAREHOUSE INVENTORY CONTROL

Combine the label's indoor BLE tracking with LoRaWAN coverage to instantly locate items—preventing stockouts or overstock.



COLD CHAIN LOGISTICS



RENTAL & LEASING MANAGEMENT

Pair optional environmental sensors with the label to track temperature-sensitive goods, ensuring compliance and preventing spoilage.

Affix a disposable label to equipment or assets on short-term leases, offering accurate usage data and location without long-term commitments or high operational costs.

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

GNSS

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

Mechanics

Dimension	120*75*3mm
Operating Temperature	-35°C ~ +75°C
Storage Temperature	-45°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	50g
IP Rating	IP66

Functions

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
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3D Accelerometer	Supported
Encryption	AES128
Low Battery Alert	Supported
Vibration Intensity Adjustment	Supported
Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

Power

Battery	1800mAh Disposable Lithium Battery
Battery Life	Approx. 68,100 times Bluetooth advertising @ 5 minutes report interval Approx. 5,900 times GNSS report @ 30 minutes report interval
Operating Current	20μA ~139mA

Certification	CE, FCC, RCM
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ORDERING INFORMATION

Product Description	Part Number
Label Tracker, LoRaWAN, BLE, GNSS, 1800mAh	100-00173 (CE), 100-00174 (FCC)

LoRaWAN Flex Tracker

Achieve ultimate installation flexibility with the LoRaWAN Flex Tracker. Built with a soft, adhesive-friendly silicone gel base, this device effortlessly attaches to curved, uneven, or cylindrical surfaces, making it perfect for tracking tools, medical supplies, or equipment with non-flat exteriors. Measuring just 50x37.4mm, and compatible with cylinders having a diameter of 35 to 45mm. It can last up to 10 years with 3 LoRa messages per day in typical usage scenarios.



Attach Everywhere

This tracker effortlessly attaches to curved, uneven, or cylindrical surfaces

Indoor Tracking & Geo-Fencing

Monitor movement within defined areas and receive notifications if assets, personnel, or visitors breach preset boundaries.

LoRaWAN & Bluetooth 5.0 Integration

Enjoy wide-area, cost-effective connectivity without compromising on low-power, long-range performance.

FOTA Over Bluetooth

Keep your device up to date with over-the-air firmware upgrades for continuous improvements in performance and security. Wide power supply - 85~305VAC

Customizable Reporting

Adjust alarm duration, heartbeat intervals, beacon report frequency, and Bluetooth payload settings to match your operational needs.

SCENARIO



HOSPITAL ASSET TRACKING

Monitor crucial medical tools—like infusion pumps and diagnostic devices—and ensure they’re located, maintained, and deployed efficiently.

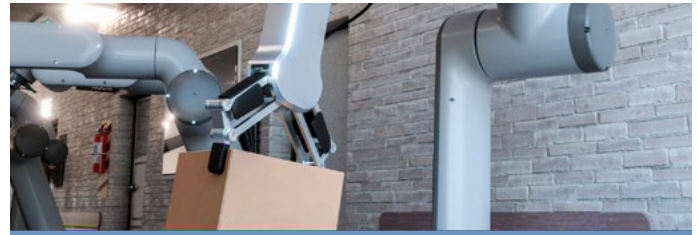


WAREHOUSE & INVENTORY OPTIMIZATION

Track pallets, forklifts, or valuable goods within a busy warehouse environment. Leverage the gateway’s long-range connectivity to reduce misplaced items and streamline operations.



GENERAL ASSET MANAGEMENT



RENTAL & LEASING MANAGEMENT

Keep tabs on critical inventory—even in remote sites—by leveraging LoRaWAN for wide coverage and Bluetooth for detailed proximity data.

Affix a disposable label to equipment or assets on short-term leases, offering accurate usage data and location without long-term commitments or high operational costs.

SPECIFICATIONS

LoRa

Activation Mode	OTAA/ABP
Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
LoRa Sensitivity	-137dBm @ SF12, BW 125 kHz, 868MHz/915MHz
LoRa Communication Distance	>1 km in an urban area
Encryption	AES128

Bluetooth

Bluetooth	5.0, iBeacon
TX Power	-20 to +4 dBm TX power, configurable in 4 dB steps
Advertise Interval	100ms to 10s
Sensitivity	-96dBm
Transmission Distance	150m sight distance
Antenna	PCB Antenna

Physical Parameters

Dimension	75x22mm (LxW), compatible with cylinders having a diameter of 20mm
Weight	10g
Housing Material	Silicone gel
Ingress Protection	IP67
Operating temperature	-10°C~+60°C

Power

Battery	CP601835, 780mAh, Non-replacable battery
Standby time	10 years (3 LoRa message per day)
Standby current	5µA
Max. Current	80mA (10dBm)

Function

Magnet Button	Support
Status LED	Support
FOTA over Bluetooth	Support
Battery level report	Support
Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535

Certification	CE, to be obtained
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ORDERING INFORMATION

Product Description	Part Number
Flex tracker, LoRaWAN, Beacon 5.0, GNSS, iBeacon, silicon gel, 75x22mm, 780mAh	100-02477

Helmet Sensor

Enhance worker safety and operational efficiency with the Lansitec Helmet Sensor. Combining GNSS, Bluetooth 5.0, and LoRaWAN technology, this sensor supports accurate indoor and outdoor positioning, making it ideal for construction sites, factories, distribution centers, or wide-open environments like ports and airports. From wear detection and fall alarms to zone-based alerts and step counting, the Helmet Sensor proactively monitors worker activities and conditions. Its integrated 3-axis accelerometer helps conserve battery by adjusting tracking frequency based on motion, while the robust IP66 and IK10-rated enclosure stands up to harsh industrial settings. Whether you're looking to streamline visitor management, protect lone workers, or optimize fleet oversight, the Lansitec Helmet Sensor delivers real-time data and reliable performance where it matters most.



Comprehensive Sensing & Alerts

Wear detection, fall detection, panic alarm, overstay alarm, and zone-based alerts for enhanced worker safety.

Accurate Indoor/Outdoor Tracking

Utilize Bluetooth for up to 3m accuracy indoors and GNSS with 2.5m precision outdoors.

Robust Design

IP66-rated and IK10 impact protection keeps the device functioning in harsh environmental and industrial conditions.

Efficient Battery Use

Built-in 3-axis accelerometer and barometer help manage power consumption by detecting motion and altitude changes.

Simple Integration & Deployment

NFC for quick device identification, magnetic charging port, and optional FOTA over Bluetooth streamline setup and updates.

Flexible Connectivity

LoRaWAN connectivity provides low-cost, long-range coverage, reducing the need for expensive cellular plans.

Asset Management Compatibility

Pair the sensor with BLE tags or beacons to gather location data from additional equipment or tools in the field.

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



CONSTRUCTION WORKER TRACKING

Monitor on-site personnel for fall incidents, overstay alerts, and emergency notifications in large construction environments.



FACTORY PERSONNEL TRACKING

Improve shift management, locate workers during emergencies, and monitor time spent in restricted zones to boost operational safety.



HAZARDOUS ENVIRONMENT MONITORING



AERIAL WORK OVERSIGHT

Deploy in mines, chemical plants, or other hazardous locations to detect falls, track exposure times, and enforce safety protocols.

Track height data and detect sudden movements or falls for elevated work teams, increasing safety compliance.

SPECIFICATIONS

Connectivity

Bluetooth Protocol	Bluetooth 5.0, iBeacon
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m
LoRaWAN Protocol	LoRaWAN 1.0.2B, Class A
Activation Mode	OTAA or ABP
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, CN470
LoRa TX Power	0 to 20dBm
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
LoRa Distance	> 1km in urban area
Encryption	AES128

GNSS

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

Mechanics

Dimension	81.4*76*35mm
Operating Temperature	-10°C~+65°C
Charging Temperature	0°C~+50°C
Storage Temperature	-20°C~+80°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	90g
Housing Material	ABS and PC
Ingress Protection	IP66
Impact Protection	IK10

Functions

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
3D Accelerometer	Support
Barometer	Support, 10cm altitude accuracy
PCB Coating	Water proof coating
NFC Tag (optional)	1KB
Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval $5s \times n$, $n=0 \sim 65535$ Bluetooth report interval $5s \times n$, $n=0 \sim 65535$
Heartbeat Report Interval	$30s \times n$ (1 to 255)
Switch	Touch button x2
FOTA over Bluetooth	Support
Battery Level Report	Support
Proximity Detection	Support
Asset management with Bluetooth	Report nearby Bluetooth beacons/tags to a LoRaWAN gateway
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

Power

Battery	Li-ion rechargeable battery, 1200mAh
GNSS (default report interval 30mins)	Approx. 3,900 times
Bluetooth positioning (default report interval 5mins)	Approx. 45,100 times
Standby Current	25 μ A
Maximum Current	145mA

Please refer to our battery calculator for more battery details.

ORDERING INFORMATION

Product Description	Part Number
Sensor, Helmet use, BLE5.0, LoRaWAN, GNSS, 1200mAh	100-02388

Solar Tracker

Harness the power of the sun for streamlined asset and personnel tracking with the Lansitec Solar Tracker. Built on GNSS, Bluetooth 5.0, and LoRaWAN technology, it provides accurate indoor and outdoor positioning while operating on a robust 3W solar panel and a 5300mAh rechargeable battery. Easy to install and configure, the Solar Tracker enables flexible scheduling for GNSS reports, heartbeat messages, and beacon data intervals—helping users optimize performance and power consumption. Ideal for vehicles, personnel, or medical assets, this eco-friendly device reduces downtime and boosts operational visibility, even in demanding environments.



Hybrid Indoor/Outdoor Tracking

Combines GNSS (<2.5m accuracy) for outdoor positioning with Bluetooth 5.0 for more localized, indoor asset monitoring.

Solar-Powered & Long-Lasting Battery

A durable 3W solar panel and 5300mAh rechargeable battery provide extended operation, reducing manual charging and maintenance.

LoRaWAN Connectivity

Transmit data over long distances (>2km in urban areas) without network fees, leveraging AES128 encryption for secure communication.

Adaptable Reporting Intervals

Adjust GNSS position, heartbeat, and beacon reporting frequencies to balance battery life with real-time visibility.

IP66-Rated Enclosure

Rugged design withstands dust, water, and extreme temperatures, ideal for challenging outdoor or semi-outdoor conditions.

Asset Management with BLE Tags

Gather data from nearby Bluetooth beacons—such as temperature or location—and relay them via LoRaWAN for centralized monitoring.

Offline Caching & FOTA

Store location data when out of network range and utilize firmware-over-the-air updates via Bluetooth to keep the device up-to-date.

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



VEHICLE TRACKING

Monitor real-time vehicle locations, speeds, and conditions to optimize dispatching and reduce operational costs.



PERSONNEL TRACKING

Enhance workplace security and efficiency by monitoring staff movements in sensitive areas or across large facilities.



AGRICULTURAL ASSET MONITORING

Use solar-powered tracking in remote farmlands to safeguard expensive equipment, livestock, or valuable inventory without relying on constant battery replacements.



OUTDOOR EVENT & VENUE MANAGEMENT

Track attendee flow, staff placement, and critical resources—such as medical stations—in expansive event spaces to improve crowd control and safety.

SPECIFICATIONS

Connectivity

Activation Mode	OTAA or ABP
LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, AS923, LA915, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
High TX Power Option	Max. 30dBm and -150dBm receiving sensitivity
LoRa Sensitivity	-139dBm @SF12, BW 125kHz, 434MHz/470MHz -137dBm @SF12, BW 125kHz, 868MHz/915MHz
Access Quantity	>500 in one LoRaWAN gateway
LoRa Communication Distance	>2km in the urban area
Encryption	AES128

Bluetooth

Bluetooth Protocol	5.0, iBeacon
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance
Sensitivity	-96dBm
RF Power	-20~+4 dBm, configurable in 4 dBm steps

GNSS

GNSS	BEIDOU/GALILEO/GPS/GLONASS/QZSS/SBAS (WAAS, EGNOS, GAGAN, MSAS)
Accuracy	<2.5m (CEP50)
Cold Start Time Duration	30~120s

Functions

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
Adjustable Bluetooth Data Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535

Heartbeat Report Interval	30s x n (1 to 255)
GNSS Position Report Interval	5s x n (0 to 65535)
FOTA over Bluetooth	Support
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

PHYSICAL PARAMETERS

Dimension	160*160*54.5mm
Operating Temperature	-10 ~ +60°C
Storage Temperature	-45°C ~ +85°C
Operating Humidity	0% ~ 95% (non-condensing)
Weight	460g
Ingress Protection	IP66

POWER

Battery	Li-ion rechargeable battery 5300mAh
Battery Life	Approx. 201,000 times Bluetooth advertising @ 5 minutes report interval
Standby Current	25µA
Switch	Support
Status LED	Support
Solar Panel	3W

ORDERING INFORMATION

Product Description	Part Number
Tracker, built-in antenna, solar, BLE 5.0, GNSS, LoRaWAN, 160x160x54.5mm, IP66, 5300mAh	100-18361(FCC) 100-02538(CE)
Certification	CE, FCC, RCM

Macro Tracker

Take long-term asset monitoring to the next level with the Lansitec Macro Tracker. Built on GNSS, Bluetooth 5.0, and LoRaWAN technology, this tracker excels at both indoor and outdoor positioning—making it ideal for fleet management, warehouse optimization, and high-value asset protection. Thanks to its industrial-grade 36,000mAh lithium thionyl chloride battery, the Macro Tracker can run for multiple years with minimal intervention. Add to that IP66-rated durability, configurable reporting intervals, and flexible data payload settings, and you have a robust, low-maintenance tracking solution that keeps your operations running smoothly, no matter how demanding the environment.



Comprehensive Sensing & Alerts

Wear detection, fall detection, panic alarm, overstay alarm, and zone-based alerts for enhanced worker safety.

Accurate Indoor/Outdoor Tracking

Utilize Bluetooth for up to 3m accuracy indoors and GNSS with 2.5m precision outdoors.

Robust Design

IP66-rated and IK10 impact protection keeps the device functioning in harsh environmental and industrial conditions.

Efficient Battery Use

Built-in 3-axis accelerometer and barometer help manage power consumption by detecting motion and altitude changes.

Simple Integration & Deployment

NFC for quick device identification, magnetic charging port, and optional FOTA over Bluetooth streamline setup and updates.

Flexible Connectivity

LoRaWAN connectivity provides low-cost, long-range coverage, reducing the need for expensive cellular plans.

Asset Management Compatibility

Pair the sensor with BLE tags or beacons to gather location data from additional equipment or tools in the field.

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



MINING & REMOTE SITE OPERATIONS

Track heavy machinery and key personnel in remote mining sites or construction zones. The Macro Tracker's robust battery and IP66 enclosure thrive in harsh outdoor conditions.



EMERGENCY LOGISTICS & DISASTER RELIEF

Monitor relief shipments and critical resources over extended durations in areas lacking stable power or connectivity, ensuring that aid reaches those who need it most.



VEHICLE TRACKING

Monitor vehicles in real time to optimize dispatch operations, reduce fuel costs, and enhance driver safety through maintenance alerts and geofencing.

SPECIFICATIONS

Connectivity

Activation Mode	OTAA or ABP
LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, AS923, LA915, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
High TX Power Option	Max. 30dBm and -150dBm receiving sensitivity
LoRa Sensitivity	-139dBm @SF12, BW 125kHz, 434MHz/470MHz -137dBm @SF12, BW 125kHz, 868MHz/915MHz
Access Quantity	>500 in one LoRaWAN gateway
LoRa Communication Distance	>2km in the urban area
Encryption	AES128

Bluetooth

Bluetooth Protocol	5.0, iBeacon
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance
Sensitivity	-96dBm
RF Power	-20~+4 dBm, configurable in 4 dBm steps

GNSS

GNSS	BEIDOU/GALILEO/GPS/GLONASS/QZSS/SBAS (WAAS, EGNOS, GAGAN, MSAS)
Accuracy	<2.5m (CEP50)
Cold Start Time Duration	30~120s

Functions

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
Adjustable Bluetooth Data Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535

Heartbeat Report Interval	30s x n (1 to 255)
GNSS Position Report Interval	5s x n (0 to 65535)
FOTA over Bluetooth	Support
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support

Physical Parameters

Dimension	160*160*54.5mm
Operating Temperature	-10 ~ +60°C
Storage Temperature	-60°C ~ +90°C
Operating Humidity	0% ~ 95% (non-condensing)
Weight	530g
Ingress Protection	IP66

Power

Battery	Li-SoCl ₂ Battery, 2×19000mAh (optional: 4×19000mAh)
GNSS (default report interval 30mins)	Approx. 126,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 1,440,000 times
Standby Current	25µA
Max. Current	450mA
Switch	Support
Status LED	Support

ORDERING INFORMATION

Product Description	Part Number
Tracker, built-in antenna, Bluetooth 5.0, GNSS, LoRaWAN, 160x160x54.5mm, IP66, 38000mAh	100-02538 (Macro)
Certification	CE, FCC

Contact Tracing Badge

The Lansitec Contact Tracing Badge offers a proactive way to maintain social distance, track proximity events, and enhance safety within workplaces, hospitals, and public facilities. Powered by Bluetooth 5.0 and LoRaWAN, this badge uses RSSI-based distance measurement—beeping and vibrating whenever users get too close. Featuring NFC integration for swift device management, a rechargeable battery, and multiple configuration modes, it's designed to fit seamlessly into busy environments without the need for extensive infrastructure. Whether you're enforcing health guidelines during a pandemic or simply ensuring personal space in a high-traffic setting, the Lansitec Contact Tracing Badge provides an efficient, user-friendly solution.

Proximity Detection & Alerts

Accurately measures a 2–3m distance using RSSI; Customizable alert threshold ensures optimal user comfort; On-board buzzer and vibration let users know when they're too close, even without LoRaWAN coverage.

Friend Feature

Bypass alerts for designated “trusted” badges to accommodate team members who need close collaboration.

Multi-Mode Configuration

Tailor contact history reports, auto-configuration, and alert styles to meet situational requirements.

NFC for Streamlined Management

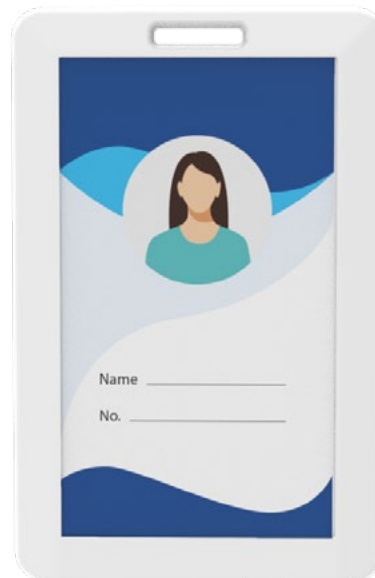
Configure badges or assign them to users in seconds via NFC, cutting down deployment time.

Bluetooth 5.0 & LoRaWAN

Long-range, low-power data transfer for secure, cost-effective communication; LoRaWAN coverage extends beyond 1km in urban areas without additional network fees.

Long-Lasting & Rechargeable

600mAh Li-ion battery provides up to 100 hours of operation, charged easily via Micro USB.



FOTA over Bluetooth

Keep firmware up to date with simple over-the-air upgrades for continuous enhancements and security patches.

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



HOSPITAL PERSONNEL & VISITOR MANAGEMENT

Enforce social distancing in waiting rooms, wards, and corridors. Alert staff if badges come within an unsafe distance, helping to protect vulnerable patients.



PUBLIC FACILITY MANAGEMENT

Equip security guards, maintenance staff, and event organizers with badges that provide instant feedback on proximity violations, enabling safer operations and rapid incident response.



INDOOR EVENT & CONFERENCE SPACES



EDUCATIONAL CAMPUS TRACKING

Help attendees maintain recommended distances. Gather anonymous contact data for follow-up communication in case of health or safety concerns.

Offer students, teachers, and support staff a reliable way to maintain social distancing in busy hallways, cafeterias, or dormitory settings, enhancing overall campus well-being.

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, 2~3m accuracy

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

GNSS

GNSS	BEIDOU/GALILEO/GPS/GLONASS/QZSS/SBAS (WAAS, EGNOS, GAGAN, MSAS)
Accuracy	<2.5m (CEP50)
Cold Start Time Duration	30~120s

Mechanics

Dimension	95.4*61.4*7.3mm
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +80°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	28g

Functions

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN
NFC	Supported
Encryption	AES128

Low Battery Alert	Supported
Buzzer	Supported
Vibrator	Supported
Vibrator Mechanical Noise	<50dB
Proximity Detection	Supported, 2 meters by default. Distance is adjustable through commands.
Bluetooth FOTA	Win10, Android, iOS
Decoder	On-line decoder and decoder source code to expedite the development
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
Battery Life	100 Hours
Charge Jack	Micro USB
Operating Current	20μA ~139mA

ORDERING INFORMATION

Product Description	Part Number
Badge, AS923, Bluetooth5.0, buzzer, vibrator, PD, 95.4*61.4*7.3mm, 600mAh	100-02533
Badge, IN865, Bluetooth5.0, buzzer, vibrator, PD, 95.4*61.4*7.3mm, 600mAh	100-02534
Badge, US915, Bluetooth5.0, buzzer, vibrator, PD, 95.4*61.4*7.3mm, 600mAh	100-02535
Badge, RU864, Bluetooth5.0, buzzer, vibrator, PD, 95.4*61.4*7.3mm, 600mAh	100-02536
Badge, AU915, Bluetooth5.0, buzzer, vibrator, PD, 95.4*61.4*7.3mm, 600mAh	100-02537
Badge, EU868, Bluetooth5.0, buzzer, vibrator, PD, 95.4*61.4*7.3mm, 600mAh	100-02538
Badge, KR920, Bluetooth5.0, buzzer, vibrator, PD, 95.4*61.4*7.3mm, 600mAh	100-02539
Certification	CE, FCC, RCM, UN38.3

Livestock Tracking Tag

Ensure precise livestock monitoring with the Lansitec Livestock Tracking Tag—designed specifically for long-term, rugged outdoor use. Engineered in a robust, animal-friendly enclosure, this Bluetooth tag continuously advertises iBeacon packets and supports up to six broadcast frames for versatile tracking needs. Powered by a rechargeable 150mAh Li-ion battery, the tag delivers months of operation on a single charge, even under demanding farm conditions. Its integrated 3D accelerometer enables real-time motion sensing, allowing farmers to monitor grazing patterns, rest cycles, and abnormal movements.

Multi-Network Connectivity

Support LoRaWAN communication, ensuring uninterrupted livestock tracking in remote or infrastructure-limited regions.

Flexible Tracking Modes

Offers adjustable uplink report intervals and tracking logic, allowing tailored configurations for grazing, resting, or transport scenarios.

Outdoor GNSS Support

Built-in GNSS capability enables precise outdoor positioning—ideal for open pasture environments and large-scale ranch operations.

Solar-Powered Long Lasting Rechargeable Battery

Equipped with a 150mAh Li-ion rechargeable battery, the tag delivers continuous tracking capability.

Rugged and Animal-Friendly Design

Crafted for outdoor durability and safe attachment to livestock, the tag withstands harsh weather and daily animal movement.

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



ANIMAL TRACKING

Motion sensing and flexible reporting intervals help farmers detect abnormal activity, optimize grazing patterns, and improve overall herd health and security.



AGRICULTURAL ASSET MONITORING

Remote farmlands to safeguard expensive equipment, livestock, or valuable inventory without relying on constant battery replacements.



VEHICLE TRACKING



OUTDOOR EVENT & VENUE MANAGEMENT

Monitor real-time vehicle locations, speeds, and conditions to optimize dispatching and reduce operational costs.

Track attendee flow, staff placement, and critical resources—such as medical stations—in expansive event spaces to improve crowd control and safety.

SPECIFICATIONS

LoRa

Activation Mode	OTAA/ABP
Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
LoRa Sensitivity	-137dBm @ SF12, BW 125 kHz, 868MHz/915MHz
LoRa Communication Distance	>1 km in an urban area
Encryption	AES128

GNSS

GNSS	GPS/BeiDou (Compass)
Accuracy	<2.5m (CEP50)
Cold Start Time Duration	30 ~ 120s

Functions

Heartbeat Report Interval	30s x n (1 to 65536)
GNSS Position Report Interval	5s x n (1 to 65536)
Bluetooth Position Report Interval	5s x n (1 to 65536)
FOTA over Bluetooth	Support
Geo-Fence	The tracker positioning based on a configurable positioning interval. It determines whether it is within the Geo-fence. 1. If the tracker is inside the Geo-fence, it does not report location information. 2. If it is outside the Geo-fence, the tracker will report its current position at a configurable reporting interval 30 minutes (Default).
Alarm	Support
Button	On/Off
LED	Red and green, for device status and network status
3D accelerometer	Support

Physical Parameters

Dimension	60*44*13mm
Housing Materials	PC & ABS
Operating temperature	-10 °C to +60°C
Charging Temperature	0 to +50°C
PCB Coating	Water proof coating
Weight	40g
Operating Current (AVG)	60µA
Ingress Protection	IP66

Power

Battery	Li-ion 150mAh rechargeable battery
Solar Panel	55mmx39mm, 0.34W
Standby Current	10µA
GPS Positioning Current (AVG)	30mA
Battery Life	"500 times GPS positioning without solar charging 83 days @ 6 GPS reports per day"

Ordering Information

Product Description	Part Number
Livestock Tracking Tag, LoRaWAN, BLE5.0, GNSS, 150mAh	100-00LT2



BACK

LANSITEC®



LoRaWAN UWB ToF

UWB Anchor

The Lansitec UWB Anchor bridges ultra-precise indoor positioning with the long-range communication of LoRaWAN, providing up to 10 cm accuracy for assets, personnel, and vehicles. By regularly synchronizing time with other UWB anchors, it calculates distances to nearby UWB trackers and transmits heartbeat data to a LoRaWAN gateway—all while operating on a low-power industrial battery that can last for years. Its IP66 enclosure safeguards against harsh conditions, making the UWB Anchor a dependable backbone for advanced real-time location systems in warehouses, factories, transportation hubs, and more.

UWB & LoRaWAN Integration

Combine high-precision UWB (± 10 cm) for tracking with long-range, low-power LoRaWAN connectivity for data backhaul.

Time Synchronization

Automatically syncs with neighboring anchors to ensure consistency and precise distance calculations.

Long Battery Life

Industrial-grade Li-SoCl₂ batteries can last up to 18 years (depending on tracker density and reporting frequency), minimizing maintenance.

Durable IP66 Enclosure

Resists dust, water, and extreme temperatures (from -45°C to $+85^{\circ}\text{C}$), ideal for challenging indoor or semi-outdoor environments.

Scalable Tracker Support

Operates with up to 512 UWB trackers, easily expanding as your inventory or workforce grows.



Adjustable Reporting Intervals

Fine-tune how frequently the anchor uploads data to balance real-time visibility with extended battery life.

FOTA Over Bluetooth

Streamline updates by installing firmware over the air, ensuring your system remains secure and up to date without complex reconfiguration.

SCENARIO



SECURE ASSET MANAGEMENT

Protect high-value tools, machinery, and goods by using tamper alerts and real-time location information, reducing loss and improving site-wide efficiency.

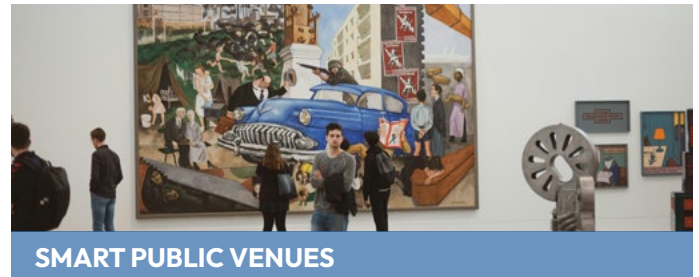


PRECISE INVENTORY CONTROL

Gain full visibility into item location within multi-floor warehouses. Quickly locate products, speed up picking operations, and reduce errors.



AUTOMATED MANUFACTURING & ROBOTICS



SMART PUBLIC VENUES

Synchronize UWB anchors with robots or automated vehicles for collision avoidance, route optimization, and efficient material handling on factory floors.

Deploy anchors in large arenas, airports, or shopping malls for accurate wayfinding, queue management, and location-based services that enhance visitor experiences.

SPECIFICATIONS

LoRaWAN Connectivity

Activation Mode	OTAA or ABP
LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRaWAN Band	US915, AU915, EU868, AS923, LA915, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
High TX Power Option	Max. 30dBm and -150dBm receiving sensitivity
LoRa Sensitivity	-139dBm @SF12, BW 125kHz, 434MHz/470MHz -137dBm @SF12, BW 125kHz, 868MHz/915MHz
Access Quantity	>500 in one LoRaWAN gateway
LoRa Communication Distance	>2km in the urban area
Encryption	AES128

UWB

Regions	Europe	US	Japan	S.Korea	Singapore	China
Frequency Band	6.0 to 10.6 GHz	3.1 to 10.6 GHz	7.25 to 10.25 GHz	7.2 to 10.2 GHz	3.4 to 10.6 GHz	6.0 to 9.0 GHz
Receiving Range	Up to 15m					
Max. Number of Trackers Supported	512					

Physical Parameters

Dimension	160*160*54.5mm
Operating Temperature	-10 ~ +60°C
Storage Temperature	-40°C ~ +85°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	0% ~ 95% (non-condensing)
Weight	530g
Ingress Protection	IP66

Power

Standby Current	5μA
Switch	Support
Status LED	Support
Battery	Li-SoCl ₂ Battery, 19000mAhx4

Battery Life

When the tracker is still, it will enter low-power mode

Number of Trackers Supported	64 units	192 units	512 units
Anchor Battery Life @ 76000mAh 8s advertise interval	13 years	11 years	7.8 years
Tracker Battery Life @ 600mAh 64s report interval	25 days	23 days	16 days
Container & Asset Management Tracker Battery Life @ 8000mAh 64s report interval	11 months	10 months	7.2 months

Functions

Heartbeat Report Interval	30s x n (1 to 65535)
FOTA over Bluetooth	Support
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN

Certification	CE, FCC
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ORDERING INFORMATION

Product Description	Part Number
UWB Anchor, LoRaWAN, Bluetooth, 160x160x54.5mm, 76,000mAh	100-000U1

UWB Container Tracker

The Lansitec UWB Container Tracker leverages LoRaWAN and UWB technologies to deliver high-precision indoor positioning—up to 10 cm accuracy. By measuring its distance to nearby anchors and forwarding that information to a LoRaWAN gateway, the device's position is calculated on the server in near real time. Built with a rugged IP68 enclosure and a dual 4000mAh Li/SOCI2 battery, it withstands extreme temperatures, making it ideal for tracking containers or assets in harsh environments.



Ultra-Precise Indoor Tracking

UWB ensures 10 cm accuracy, critical for minimizing misplaced assets in warehouses or distribution centers.

Rugged & IP68 Rated

Survives dust, water immersion, and extreme temperatures, making it suitable for outdoor or semi-outdoor deployments.

Adjustable Reporting

Customize position intervals and heartbeat messages to balance real-time visibility with battery life.

Extended Battery Life

Dual 4,000mAh Li/SOCI2 batteries minimize maintenance intervals.

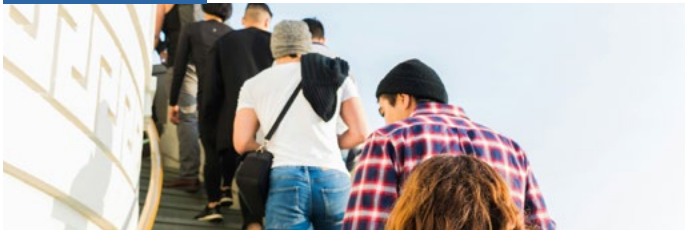
FOTA Over Bluetooth

Update firmware wirelessly, reducing manual interventions.

Scalable Integration

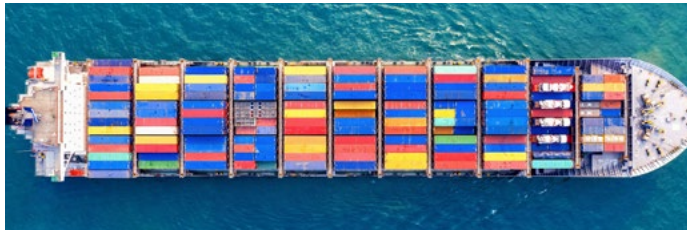
Supports up to eight UWB anchors and can coexist with multiple tracker types (badge, asset) in the same network.

SCENARIO



PERSONNEL & CROWD SAFETY

Employ the same UWB anchors to keep track of staff or visitors in areas where containers may present hazards. This dual-purpose network helps ensure safety compliance and quick incident response.



OFFSHORE CONTAINER MONITORING

Monitor containers on offshore platforms or remote construction sites. IP68 protection and wide operating temperature capability make it reliable in extreme marine or heavy industrial conditions.



OUTDOOR ENTERTAINMENT LOGISTICS



OFFSHORE OIL RIG SUPPLY

Deploy trackers for quick, accurate placement of concert stages, portable facilities, or festival assets. Simplify inventory control and shorten setup times.

Safeguard essential parts and materials used on offshore rigs. The IP68 enclosure resists harsh marine conditions, ensuring critical equipment stays accounted for and protected.

SPECIFICATIONS

LoRaWAN Connectivity

Activation Mode	OTAA or ABP
LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRaWAN Band	US915, AU915, EU868, AS923, LA915, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
High TX Power Option	Max. 30dBm and -150dBm receiving sensitivity
LoRa Sensitivity	-139dBm @SF12, BW 125kHz, 434MHz/470MHz -137dBm @SF12, BW 125kHz, 868MHz/915MHz
Access Quantity	>500 in one LoRaWAN gateway
LoRa Communication Distance	>1.5km in the urban area
Encryption	AES128

UWB

Regions	Europe	US	Japan	S.Korea	Singapore	China
Frequency Band	6.0 to 10.6 GHz	3.1 to 10.6 GHz	7.25 to 10.25 GHz	7.2 to 10.2 GHz	3.4 to 10.6 GHz	6.0 to 9.0 GHz
Receiving Range	Up to 15m					
Max. Number of Anchors Supported	8					

Physical Parameters

Dimension	198*28.3*33.3mm
Ingress Protection	IP68
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-10°C ~ +30°C
Operating Humidity	0% ~ 95% (non-condensing)
Housing Material	PC and ABS
Weight	133g

Power

Standby Current	5µA
Switch	Support
Status LED	Support
Buzzer	Support
Battery	Li/SOCl2 4000mAh x 2
Charging Method	N/A

Battery Life When the tracker is still, it will enter low-power mode

Number of Trackers Supported	64 units	192 units	512 units
Anchor Battery Life @ 76000mAh 8s advertise interval	13 years	11 years	7.8 years
Tracker Battery Life @ 600mAh 64s report interval	25 days	23 days	16 days
Container & Asset Management Tracker Battery Life @ 8000mAh 64s report interval	11 months	10 months	7.2 months

Functions

Adjustable Position Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
FOTA over Bluetooth	Support
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN

ORDERING INFORMATION

Product Description	Part Number
UWB Container Tracker, LoRaWAN, BLE5.0, 198*28.3*33.3mm, IP68, 8,000mAh	100-000U2
Certification	CE, FCC

UWB Badge Tracker

The Lansitec UWB Badge Tracker utilizes both LoRaWAN and UWB technologies for high-precision indoor location (up to 10 cm). By measuring distance from nearby UWB anchors and forwarding that data over LoRaWAN, the badge's position is calculated on the server side. With a compact, lightweight design and a 600mAh rechargeable battery, this tracker is ideal for monitoring personnel, vehicles, or assets in environments where real-time, highly accurate positioning is crucial.

Indoor Tracking Precision (10 cm)

Delivers near real-time, ultra-precise location data for enhanced security and asset management.

Geo-Fencing

Create virtual boundaries and receive alerts whenever the badge crosses them.

Adjustable Upload Frequency

Optimize power usage and data granularity to suit different operational needs.

Wide Operating Temperature

Functions reliably between -10°C and +65°C.

Rechargeable Battery

A 600mAh Li-ion battery charges via Micro USB for convenient reuse.

LoRaWAN Connectivity

Transmit distance data over long ranges (>1.5km urban) with low power consumption.

FOTA over Bluetooth

Update firmware without physical intervention, ensuring continuous performance improvements.



SCENARIO



VEHICLE TRACKING

Monitor fleet location in real-time for better scheduling, route optimization, and quick response to potential safety issues.



FACTORY ASSET TRACKING

Track the movement of tools, machinery, and raw materials indoors with precise location data, reducing losses and downtime.



PUBLIC SPACE MANAGEMENT

Oversee crowds or high-value equipment in places like airports, malls, or event venues. Enhance security and visitor experience with accurate positioning.



PERSONNEL TRACKING

Safeguard staff by monitoring their positions in restricted or hazardous areas. Receive alerts for unauthorized entries, improving security and emergency response.

SPECIFICATIONS

LoRaWAN Connectivity

Activation Mode	OTAA or ABP
LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRaWAN Band	US915, AU915, EU868, AS923, LA915, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
High TX Power Option	Max. 30dBm and -150dBm receiving sensitivity
LoRa Sensitivity	-139dBm @SF12, BW 125kHz, 434MHz/470MHz -137dBm @SF12, BW 125kHz, 868MHz/915MHz
Access Quantity	>500 in one LoRaWAN gateway
LoRa Communication Distance	>1.5km in the urban area
Encryption	AES128

UWB

Regions	Europe	US	Japan	S.Korea	Singapore	China
Frequency Band	6.0 to 10.6 GHz	3.1 to 10.6 GHz	7.25 to 10.25 GHz	7.2 to 10.2 GHz	3.4 to 10.6 GHz	6.0 to 9.0 GHz
Receiving Range	Up to 15m					
Max. Number of Anchors Supported	8					

Physical Parameters

Dimension	95.4*61.4*7.3mm
Ingress Protection	N/A
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +80°C
Operating Humidity	5% ~ 95% (non-condensing)
Housing Material	ABS
Weight	28g

Power

Standby Current	5μA
Switch	Support
Status LED	Support

Buzzer	Support
Battery	Li-ion rechargeable battery 600mAh
Charging Method	Micro USB

Battery Life

When the tracker is still, it will enter low-power mode

Number of Trackers Supported	64 units	192 units	512 units
Anchor Battery Life @ 76000mAh 8s advertise interval	13 years	11 years	7.8 years
Tracker Battery Life @ 600mAh 64s report interval	25 days	23 days	16 days
Container & Asset Management Tracker Battery Life @ 8000mAh 64s report interval	11 months	10 months	7.2 months

Functions

Adjustable Position Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
FOTA over Bluetooth	Support
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN

ORDERING INFORMATION

Product Description	Part Number
UWB Badge Tracker, LoRaWAN, BLE5.0, 95.4*61.4*7.3mm, Li-ion 600mAh	100-000U3
Certification	CE, FCC

UWB Asset Management Tracker

The Lansitec UWB Asset Management Tracker employs LoRaWAN and UWB technology for high-precision positioning, accurate to within 10 cm. By measuring its distance to a network of UWB anchors, it continuously transmits relevant data via LoRaWAN to a remote server for real-time location updates. Engineered for tough industrial environments, its IP68 enclosure and dual 4000mAh Li/SOCI2 batteries support long operational life, making it an ideal choice for optimizing asset utilization and ensuring reliable performance in extreme temperatures.



Indoor Tracking Precision (10 cm)

Delivers near real-time visibility of equipment, tools, or inventory.

Geo-Fencing

Configure virtual perimeters and receive immediate alerts when tracked items cross boundaries.

Adjustable Frequency

Customize data reporting to balance battery life and update speed.

Wide Temp Range & IP68

Handles temperatures from -20°C to +70°C and resists dust and water.

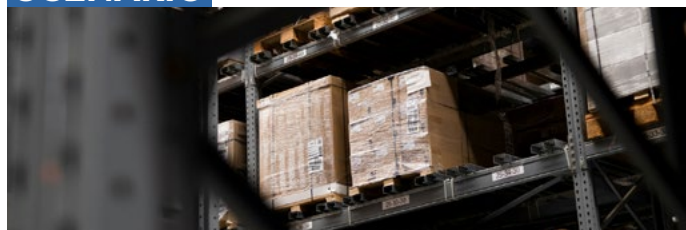
Extended Battery Operation

Dual Li/SOCI2 4000mAh batteries minimize replacement intervals, ideal for long-term deployments.

FOTA Over Bluetooth

Update device firmware without disassembly or downtime.

SCENARIO



FACTORY ASSET TRACKING

Locate large machinery or manufacturing equipment in real time for better throughput, reduced downtime, and streamlined processes.



PERSONNEL TRACKING

Enhance workforce safety by monitoring employee access to restricted or hazardous areas, facilitating swift emergency response.



MOBILE MEDICAL STATION



OUTDOOR AGRICULTURAL EQUIPMENT

Position and relocate pop-up medical facilities or testing stations with precision. Improve patient flow and reduce wait times by identifying optimal locations in real time.

Track the status and location of farming machinery across expansive fields. Receive alerts if equipment strays from designated zones or requires maintenance, boosting productivity and security.

SPECIFICATIONS

LoRaWAN Connectivity

Activation Mode	OTAA or ABP
LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRaWAN Band	US915, AU915, EU868, AS923, LA915, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
High TX Power Option	Max. 30dBm and -150dBm receiving sensitivity
LoRa Sensitivity	-139dBm @SF12, BW 125kHz, 434MHz/470MHz -137dBm @SF12, BW 125kHz, 868MHz/915MHz
Access Quantity	>500 in one LoRaWAN gateway
LoRa Communication Distance	>1.5km in the urban area
Encryption	AES128

UWB

Regions	Europe	US	Japan	S.Korea	Singapore	China
Frequency Band	6.0 to 10.6 GHz	3.1 to 10.6 GHz	7.25 to 10.25 GHz	7.2 to 10.2 GHz	3.4 to 10.6 GHz	6.0 to 9.0 GHz
Receiving Range	Up to 15m					
Max. Number of Anchors Supported	8					

Physical Parameters

Dimension	78x79x35mm
Ingress Protection	IP68
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +75°C
Operating Humidity	0% ~ 95% (non-condensing)
Housing Material	PC and ABS
Weight	135g

Power

Standby Current	5μA
Switch	Support

LoRaWAN UWB Asset Management Tracker

Status LED	Support
Buzzer	Support
Battery	Li/SOCI2 4000mAh x 2
Charging Method	N/A

Battery Life

When the tracker is still, it will enter low-power mode

Number of Trackers Supported	64 units	192 units	512 units
Anchor Battery Life @ 76000mAh 8s advertise interval	13 years	11 years	7.8 years
Tracker Battery Life @ 600mAh 64s report interval	25 days	23 days	16 days
Container & Asset Management Tracker Battery Life @ 8000mAh 64s report interval	11 months	10 months	7.2 months

Functions

Adjustable Position Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
FOTA over Bluetooth	Support
Multiple Bluetooth gateway LoRaWAN report synchronization	Sync the clock and LoRaWAN report
TDMA	Support
Bluetooth Data Compression	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via LoRaWAN

ORDERING INFORMATION

Product Description	Part Number
UWB Asset Management Tracker, LoRaWAN, BLE5.0, 78x79x35mm, IP68, 8000mAh	100-000U4
Certification	CE, FCC



BACK

LANSITEC®



LoRaWAN

LoRaWAN Gateway

Indoor LoRaWAN Gateway

The Lansitec Indoor LoRaWAN Gateway is designed for easy indoor deployment, featuring built-in Ethernet, optional LTE uplink, and 2.4 GHz Wi-Fi for quick AP-based configuration. Powered by Semtech's SX1302 chipset and supporting LoRaWAN V1.0.3, this gateway offers a scalable solution for small to medium-sized IoT applications. With OpenWRT software, built-in network server, and PoE compatibility, it simplifies installation and reduces both hardware and operational costs.

Full LoRaWAN Stack (V1.0.3)

Utilizes the Semtech SX1302 chipset with 8 channels for robust, wide-area coverage.

Quick Configuration

2.4 GHz Wi-Fi AP mode allows simple, intuitive setup via Web UI.

Multiple Backhaul Options

Ethernet (with PoE), Wi-Fi, or optional LTE Cat 4 connectivity.

Built-In Network Server

Offers easy application deployment and straightforward integration with other gateways.

OpenWRT Firmware

Web-based interface supports flexible customization and monitoring.

Failover Protection

TF card logs and buffers LoRa frames during backhaul disruption.



SCENARIO



SMART CAMPUS OR MALL

Cover large indoor spaces such as campuses, shopping malls, and convention centers with minimal gateways. Take advantage of built-in network server support for quick, unified device management.

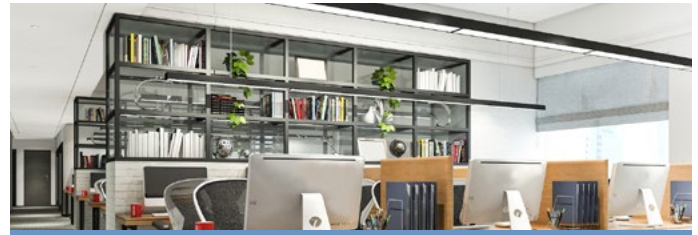


HEALTHCARE FACILITY TRACKING

Power indoor asset tracking (e.g., wheelchairs, beds, medical devices) for hospitals. Use Wi-Fi AP mode to configure, manage, and scale deployments rapidly.



AGRICULTURAL GREENHOUSES



TEMPORARY INSTALLATIONS

Deploy in large indoor farming operations, tracking humidity, temperature, and soil sensors. Leverage PoE or LTE for reliable connectivity where wired broadband is limited.

Place in pop-up events, trade shows, or temporary offices for swift IoT sensor deployment. The optional LTE uplink provides a reliable backhaul without needing permanent infrastructure.

SPECIFICATIONS

WIFI FEATURE

Frequency	2.4 GHz (802.11b/g/n)
RX Sensitivity	-95 dBm (Min)
TX Power	20 dBm (Max)
Operation Channels	2.4 GHz: 1-13

BLUETOOTH CONNECTIVITY

Card	SX1302 Mini PCIe card
Channels	8 Channels
RX Sensitivity	-139 dBm (Min)
TX Power	27 dBm (Max)
Frequency	EU433/CN470/EU868/US915/AS923/AU915/IN865/KR920

CELLULAR FEATURE

Supports Quectel EG95-E/EG95-NA (IoT/M2M -optimized LTE Cat 4 Module)

EG95 -E for EMEA Region:	LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM/EDGE: B3/B8
EG95 -NA for North America:	LTE FDD: B2/B4/B5/B12/B13 WCDMA: B2/B4/B5

MECHANICS

Power Supply	DC 12 V - 1 A, PoE (IEEE 802.3 af), 36~57 VDC
Power Consumption	12 W (typical)
ETH	RJ45 (10/100M)
Antenna	LoRa: RP-SMA female connector; LTE/WiFi: Internal antenna
Ingress Protection	IP30
Enclosure Material	ABS
Weight	0.3kg
Dimension	166*127*36mm
Operating Temperature	-10 to 55 °C
Storage Temperature	-40°C to +85°C

Operating Humidity	0% to 95% (non-condensing)
Storage Humidity	0% to 95% (non-condensing)
Installation Method	Wall Mounting
Computing	MT7628, DDR2 RAM 128 MB

ORDERING INFORMATION

Product Description	Part Number
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, NS, CN470	100-00029
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, CN470	100-00030
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, EU868	100-02158
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, US915	100-02156
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, AU915	100-02159
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, AS923	100-02155
Certification	CE, FCC, RCM

Outdoor LoRaWAN Gateway

The Lansitec Outdoor LoRaWAN Gateway is purpose-built for industrial-grade IoT deployments, offering robust reliability via its IP67-rated enclosure. Designed on OpenWRT, this gateway allows for rapid setup and flexible customization—supporting LTE Cat4, Wi-Fi, GNSS, and optional 8 or 16 LoRa channels. It delivers PoE (802.3 af) power input with surge protection and an extended operating temperature range (-30°C to +55°C), making it suitable for demanding outdoor applications. The user-friendly Web UI offers straightforward configuration and management, whether you need to build a private or a public LoRaWAN network.

High Capacity (8 or 16 Channels)

Features up to two SX1301 Mini PCIe cards for high-capacity data handling.

LTE Cat4 & Wi-Fi Support

Multiple backhaul options ensure connectivity even in remote outdoor locations.

IP67-Grade Enclosure

Withstands harsh environments, with protection against water and dust.

Pole/Wall Mount & PoE

Streamlined installation process with minimal wiring requirements, plus surge protection for lightning-prone areas.

OpenWRT-Based Firmware

Integrate custom apps or extend the UI via an SDK for specialized use cases.

GNSS Function

Enables location-based gateway positioning and time synchronization in large, geographically dispersed deployments.



SCENARIO



SMART CITY DEPLOYMENTS

Monitor environmental sensors (e.g., air quality, noise levels) across wide areas. The rugged IP67 enclosure stands up to weather extremes.



UTILITY & METERING

Install in remote outdoor sites to gather data from water, gas, or electricity meters. Leverage cellular fallback when wired internet isn't feasible.



AGRICULTURAL FIELDS



OUTDOOR RETAIL & THEME PARKS

Cover extensive farmland for soil moisture sensors, livestock tracking, or weather stations. PoE power and surge protection reduce downtime from electrical storms.

Provide long-range coverage for ticketing, digital signage, or customer engagement systems. The gateway's IP67 enclosure ensures stable performance in open-air or semi-outdoor environments.

SPECIFICATIONS

WIFI FEATURE

Frequency	2.400-2.4835GHz (802.11b/g/n)
RX Sensitivity	-95 dBm (Min)
TX Power	20 dBm (Max)
Operation Channels	2.4 GHz: 1-13

LORA FEATURE

Card	SX1301 Mini PCIe Card (connects maximum of two)
Channels	8 Channels (optional: 16 channels)
RX Sensitivity	-139 dBm (Min)
TX Power	27 dBm (Max)
Frequency	EU433, CN470, EU868, US915 , AS923, AU915, KR920, IN865

CELLULAR FEATURE

Supports Quectel EG95-E/EG95-NA (IoT/M2M -optimized LTE Cat 4 Module)

EG95 -E for EMEA Region:	LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM/EDGE: B3/B8
EG95 -NA for North America:	LTE FDD: B2/B4/B5/B12/B13 WCDMA: B2/B4/B5

MECHANICS

Power Supply	PoE(IEEE 802.3af/at-Compliant) - 42~57VDC; Power Jack - 12V DC
Power Consumption	12 W (typical)
ETH	RJ45 (10/100Mbps)
Antenna	5 N-Type Connectors
Ingress Protection	IP67
Enclosure Material	Aluminum
Weight	Approximately 111.11oz (3.15kg)
Dimension	220* 220*104mm
Operating Temperature	-30°C to +55°C
Storage Temperature	-40°C to +85°C

Operating Humidity	0% to 95% (non-condensing)
Storage Humidity	0% to 95% (non-condensing)
Installation Method	Pole or Wall mounting
Computing	MT7628, DDR2 RAM 128 MB

ORDERING INFORMATION

Product Description	Part Number
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, CN470, IP67	100-00028
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, EU868, IP67	100-00032
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, AS923, IP67	100-00033
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, IN865, IP67	100-00078
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, US915, IP67	100-00128
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, AU915, IP67	100-00085
LoRaWAN Gateway, Outdoor, 16 uplink channels, Ethernet, 4G, NS, CN470, IP67	100-00062
Certification	CE, FCC, RCM

Solar Panel and Battery Kit



Physical Parameters

Solar Panel Dimension	530*1170*17mm
Battery Dimension	290*118*68mm
Total Weight	16kg
Housing Material	Monocrystalline silicon, cold-rolled steel

Environmental Ratings

Operating Temperature	-10℃ ~ +60℃
Charge Temperature	0℃ ~ +45℃
Wind Pressure Resistance	2400Pa
Snow Load Resistance	5400Pa
Hail Resistance	25mm diameter at 23m/s

Environmental Ratings

Nominal Voltage	11V
Nominal Capacity	60Ah
Peak Power	120W
Conversion Efficiency	22%-24%
Rated Energy	666Wh
Service Life	25 Years
Power Degradation Warranty	≤10% in first 10 years, ≤20% in 25 years

Ordering Information	Part Number
Solar panel and battery kit, 120W, 60Ah	100-00600



BACK

LANSITEC®

Cat-1 Bluetooth

Solar Bluetooth Gateway

The Lansitec Solar Bluetooth Gateway (Cat-1) scans and restructures data from nearby BLE sensors, beacons, and controllers, transmitting it to the cloud through a global LTE Cat-1 network. Equipped with a 3W solar panel and a 5300 mAh rechargeable battery, it operates maintenance-free in extreme environments. The device's IP66-rated enclosure, adjustable reporting intervals, and support for multiple Bluetooth protocols (iBeacon, Eddystone, private) make it ideal for monitoring assets, vehicles, or personnel over wide areas.



Cat-1 Global Coverage

Works across multiple frequency bands for seamless connectivity worldwide.

Solar-Powered & Long Battery Life

A 3 W solar panel and 5300 mAh battery ensure reliability, even under harsh conditions or low sunlight.

iBeacon & Eddystone Compatibility

Scan and forward BLE payloads, with customizable filtering to optimize data usage.

IP66 Enclosure

Rugged, dustproof, and water-resistant design.

Adjustable Report Intervals

Configure Bluetooth scanning rates and data uplinks to balance power efficiency and real-time updates.

FOTA Over Bluetooth

Simplify firmware updates without removing or disassembling the gateway.

SCENARIO



HOSPITAL ASSET TRACKING

Collect and transmit location or status updates from BLE-enabled medical devices. Instantly verify the availability of critical equipment like CT machines or monitor drug inventory in real time.



VEHICLE TRACKING

Deploy on vehicles to gather engine diagnostics, mileage, and usage data from BLE sensors. Leverage Cat-1 connectivity for wide coverage, reducing fleet operating costs.



FACTORY PERSONNEL TRACKING



CONSTRUCTION SITE INVENTORY

Assign BLE badges to workers in large factories or distribution centers. The gateway's real-time scanning and data forwarding improve safety, resource allocation, and productivity.

Place gateways at construction sites to track material deliveries and equipment usage through BLE tags. Prevent losses, manage tools efficiently, and streamline project timelines by receiving immediate alerts for unauthorized relocations.

SPECIFICATIONS

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon, Eddystone, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Distance	150m sight distance

CAT-1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

MECHANICS

Dimension	160*160*54.5mm
Housing Materials	Anti-UV PC-ABS
Operating Temperature	-20°C ~ +65°C
Charging Temperature	-20°C ~ +60°C
Storage Temperature	-45°C ~ +85°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	0% ~ 95% (non-condensing)
Weight	460g
PCB Coating	Water proof coating
Ingress Protection	IP66

POWER *Please refer to the battery life calculator for detailed battery life information.

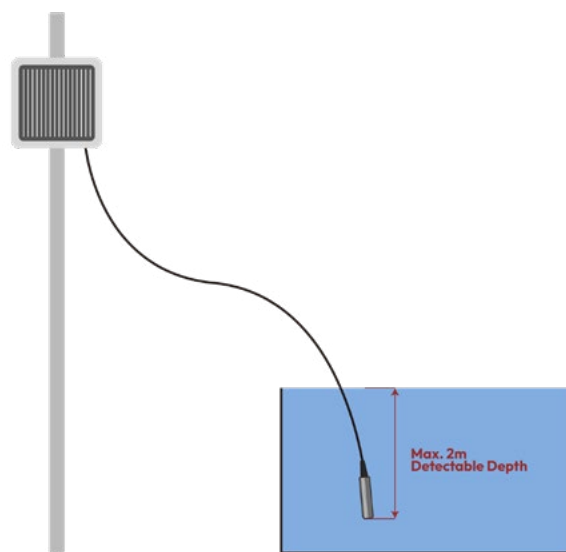
Battery	Li-ion rechargeable battery 5300mAh
Battery Life	1 month @ 10s Bluetooth receiving duration and 60 report interval
Bluetooth positioning	Approx. 23,850 times *
Solar Panel	3W

Standby Current	25µA
Max. Current	450mA
Max. Charging Current	500mA
Charging Rate	Max. 1500mAh each day

FUNCTIONS

Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via Cat-1
FOTA over Bluetooth	Support
Battery Level Report	Support
Switch	Mechanical
Positioning Precision	3m
Cellular-based Positioning	Support
Bluetooth data compression	Support

Water Level Detection	Optional
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ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, solar, Bluetooth 5.0, Cat-1, 160x160x54.5mm, IP66, 5300mAh	100-000C1
Certification	CE, FCC

Macro Bluetooth Gateway

The Lansitec Macro Bluetooth Gateway (Cat-1) offers a uniquely robust power solution with a 38,000 mAh low-discharge battery, enabling continuous operation for 5+ years. It processes and relays Bluetooth (BLE) data — supporting iBeacon, Eddystone, and private protocols — to a server via Cat-1 networks worldwide. Encased in an IP66-rated enclosure, this gateway thrives in extreme temperatures (–20°C ~ +65°C) and demanding outdoor or industrial settings, delivering a reliable, zero-maintenance approach to long-term asset and environmental monitoring.



38,000 mAh Battery

Provides over five years of operation, drastically reducing maintenance visits for remote or hard-to-access installations.

Global Cat-1 Coverage

Supports various regions (North America, Europe/Africa, China/India, Latin America) for seamless data transfer.

Adjustable BLE Payload

Configure packet filtering and scanning intervals to optimize bandwidth and power usage.

IP66 Durability

Resistant to water, dust, and extreme temperatures, ensuring reliable performance in harsh environments.

Wide Protocol Compatibility

Works with iBeacon, Eddystone, private BLE formats, plus advanced encryption (AES128) for secure data handling.

FOTA Over Bluetooth

Quickly update firmware without opening the device or disconnecting power, saving time and labor costs.

SCENARIO



HOSPITAL ASSET TRACKING

Leverage the macro battery capacity to track medical equipment and monitor drug inventories for years without manual recharging. Real-time data minimizes losses and ensures timely patient care.



VEHICLE TRACKING

Deploy on transport fleets operating in remote or international routes. BLE sensors measure key parameters (fuel levels, tire pressure), while Cat-1 connectivity enables broad coverage for location and status updates.



FACTORY OR WAREHOUSE

Monitor forklifts, pallets, or sensitive machinery in large facilities. The gateway's extended battery life and IP66 rating eliminate the need for external power or frequent checks, lowering overhead.



MINING OPERATIONS

Place the gateway on mining equipment to track usage hours, vibration metrics, and location. The robust enclosure and long-lasting battery reduce downtime in rugged, power-scarce environments.

SPECIFICATIONS

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon, Eddystone, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Distance	150m sight distance

CAT- 1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

FUNCTIONS

Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via Cat-1
FOTA over Bluetooth	Support
Battery Level Report	Support
Switch	Mechanical
Positioning Precision	3m
Cellular-based Positioning	Support
Bluetooth data compression	Support

MECHANICS

Dimension	160*160*54.5mm
Housing Materials	Anti-UV PC-ABS
Operating Temperature	-20°C ~ +65°C
Storage Temperature	-60°C ~ +90°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	0% ~ 95% (non-condensing)
Weight	530g
PCB Coating	Water proof coating
Ingress Protection	IP66

POWER

Battery	Li-SoCl ₂ 19000mAhx2, optional: 19000mAhx4/19000mAhx6
Battery Life	5 years @ 5s Bluetooth receiving duration and 240 report interval
Standby Current	25μA
Max. Current	450mA
Bluetooth positioning	Approx. 171,000 times

Certification	CE, FCC
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ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, Bluetooth 5.0, Cat-1, 160x160x54.5mm, IP66, 38000mAh	100-000C2

Compact Bluetooth Gateway

The Compact Bluetooth Gateway is a pocket-size BLE to LTE Cat-1 bridge built for fast, cable-free deployments. It scans nearby Bluetooth beacons, sensors, or controllers, supports iBeacon, Eddystone, and private protocols, restructures the payloads, then forwards them to your server via Cat-1 using MQTT, HTTP(S), TCP, or UDP. From temperature and humidity to liquid level, weight, position, or custom telemetry, you can choose exactly which bytes are reported and how often, thanks to configurable payload filtering and adjustable uplink intervals. A 600 mAh Li-ion rechargeable battery delivers roughly 10 hours of operation when external power is unavailable, making the gateway a practical pick for vehicles, temporary sites, and rapid field diagnostics.



Portable Power

A 600 mAh Li-ion battery delivers 10 hours of operation when no external power is available, recharging via a standard 5 V/1 A Micro USB port.

Global Cat-1 Connectivity

Multiple frequency bands (B1/B3/B5/B7/B8/B20, etc.) for worldwide coverage.

Customizable BLE Payload

Filter specific bytes in BLE sensor data to reduce bandwidth usage and optimize cloud reports.

Adaptable Report Intervals

Balance real-time data needs with power efficiency by adjusting data and heartbeat intervals.

Easy Setup

Compact, 7 mm-thick design slips into tight spaces, with optional mounting hardware for flexible installation.

FOTA via Bluetooth

Update firmware wirelessly, ensuring minimal downtime and simpler on-site maintenance.

SCENARIO



VEHICLE TRACKING

Temporarily install the gateway in rental fleets or company vehicles to gather telemetry (e.g., mileage, battery status), then upload it through Cat-1 to central systems, even when on the move or in remote locations.



POP-UP RETAIL OR EVENTS

Monitor foot traffic and customer interactions at trade shows, markets, or fairs. The gateway's 10-hour internal battery bridges gaps in power supply and simplifies fast, temporary deployments.



INVENTORY SCANNING ZONES

Create semi-permanent scanning stations in warehouses or distribution centers. When power outlets are scarce, rely on the gateway's onboard battery to capture BLE data from pallets or containers before uploading to management systems.



HOSPITAL ASSET TRACKING

Deploy in labs or emergency pop-up clinics to track mobile medical equipment. The device's portable power eliminates the need for dedicated power lines, ensuring uninterrupted monitoring of critical resources.

SPECIFICATIONS

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon, Eddystone, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Distance	150m sight distance

CAT-1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

FUNCTIONS

Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via Cat-1
FOTA over Bluetooth	Support
Battery Level Report	Support
Switch	Mechanical
Positioning Precision	3m
Cellular-based Positioning	Support
Bluetooth data compression	Support

MECHANICS

Dimension	95.4*61.4*7.3mm
Housing Materials	ABS
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +80°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	35g

POWER

Battery	Li-ion rechargeable battery 600mAh
Standby Current	25µA
Max. Current	450mA
Power Supply Mode	5V/1A
Charge Jack	Micro USB
Bluetooth positioning	Approx. 2700 times

ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, Bluetooth 5.0, Cat-1, 95.4*61.4*7.3mm, Li-ion 600mAh	100-000C3
Certification	CE, FCC

Container Tracker

Track high-value containers, pallets, or equipment anywhere in the world with the Lansitec Cat-1 Container Tracker. Powered by dual Li/SOCl₂ batteries for up to five years of maintenance-free service (at 30-minute reporting intervals), this device seamlessly combines GNSS (<2.5 m accuracy) for precise positioning with Cat-1 cellular connectivity to deliver real-time data—even in harsh climates. Its IP68 enclosure defends against dust and water, while built-in features like tamper detection, door open/close sensing, and vibration shock alerts help protect assets from unauthorized movement or damage. Optional Bluetooth tags expand your monitoring capabilities, letting you track secondary items packed inside cargo containers or transit cases. Whether you need to secure machines on remote worksites or ensure that perishable goods arrive intact, the Cat-1 Container Tracker keeps you informed and in control every step of the way.



Global Cat-1 Coverage

Operates on various frequency bands (North America, Europe/Africa, China/India, Latin America), ensuring continuous connectivity worldwide.

5-Year Battery Life

Powered by dual Li/SOCl₂ (2×4000 mAh) batteries, delivering up to five years of service at 30-minute report intervals.

Indoor & Outdoor Positioning

GNSS for outdoor precision (<2.5 m CEP) and optional Bluetooth positioning for indoor or transition zones.

Rugged IP68 Enclosure

Protects against dust, water, and extreme temperatures (-20°C ~ +70°C), suitable for harsh industrial or maritime conditions.

Advanced Security & Sensing

Tamper detection, vibration shock monitoring, and door open/close sensing help prevent unauthorized movement or damage.

Optional Bluetooth Tags

Track secondary assets stored inside containers or pallets by scanning nearby BLE beacons, all reported through Cat-1.

Offline Cache & FOTA

Stores up to 40 positions if network coverage is lost, and supports firmware-over-the-air updates for minimal manual intervention.

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



CONTAINER TRACKING

Monitor large fleets of shipping containers. Receive real-time alarms if a device is removed, and keep an eye on location, temperature, or door status to prevent cargo theft or spoilage.



TRANSIT CASE MANAGEMENT

Keep tabs on valuable equipment or sensitive materials stored in transit cases, even when shipped across multiple facilities. Bluetooth tag compatibility allows you to see precisely what's inside each box.



MACHINE STATUS MONITORING

Measure vibration, usage duration, and door access on remote machinery—such as construction vehicles or generators—to optimize maintenance scheduling and reduce downtime.



HARSH ENVIRONMENT SITES

Deploy in mines, offshore drilling rigs, or exposed outdoor yards where equipment is frequently moved. The rugged IP68 design and extended battery life minimize servicing needs in remote locations.

SPECIFICATIONS

Bluetooth

Bluetooth Protocol	5.0, iBeacon, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance

Cat- 1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

GNSS

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

Mechanics

Dimension	198*28*33.3mm
Ingress Protection	IP68
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-10°C ~ +30°C
Operating Humidity	0% ~ 95% (non-condensing)

Housing Material	PC and ABS
Weight	130g
PCB Coating	Water proof coating

Power

Battery	Li/SOCI2 2x4000mAh
GNSS (default report interval 30mins)	Approx. 11,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 24,000 times
Standby Current	25μA
Max. Current	450mA

Functions

Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Heartbeat Report Interval	30s x n (1 to 65535)
Switch	Magnetic Reed
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Tamper Detection	Support
FOTA over Bluetooth	Support
Movement Duration	Support
Door Open/Close Sensing	Optional
Vibration Shock Detection	Support
Asset Management with Bluetooth Tags	Support (report nearby Bluetooth tags)
Offline Cache Position (40 Positions)	Support
Magnetic Power Switch Enable/Disable	Support
3D Accelerometer	Support
NFC Tag	1KB
Cellular-based Positioning	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via Cat-1
Bluetooth data compression	Support

ORDERING INFORMATION

Product Description	Part Number
Container Tracker, Cat-1, Bluetooth 5.0, GNSS, 198*28*33.3mm, 2x4000mAh, IP68	100-00C11

Badge Tracker

The Lansitec Cat-1 Badge Tracker is a credit-card-thin tag that blends LTE Cat-1, multi-GNSS and BLE 5.0 for seamless indoor/outdoor visibility of people and moveable assets. A 600 mAh rechargeable cell powers up to 6 months of smart reporting, while a 3-axis accelerometer unlocks fall detection, motion-based power saving and tamper alerts—making it the go-to badge for safety, security and utilisation analytics.

Cat-1 Global Bands

LTE coverage across 25+ bands with MQTT/HTTP(S)/TCP/UDP back-haul.

Dual-Mode Positioning

GNSS (< 2.5 m CEP) outdoors; BLE RSSI (1–3 m) indoors.

Panic & Fall Alarm

Single-press SOS plus auto-trigger on sudden vertical drop.

Geo-Fence & Movement Rules

Configurable zones and idle/active timers cut false alerts.

Ultra-Slim 97 × 62 × 7 mm

35 g ABS housing with NFC for tap-&-go provisioning.

Six-Month Standby

25 µA sleep current and motion-wake logic extend field life.

Edge Filtering & Compression

Byte-level rules minimise cellular data fees.

FOTA via BLE

Firmware upgrades without returning badges to the depot.



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



VISITOR MANAGEMENT

Issue temporary badges to contractors or guests; live location and dwell-time logs tighten security and evacuation roll-calls.



EVENT STAFF COORDINATION

Track stewards and medical teams across arenas; heat-maps improve deployment and shorten response times.



CAMPUS ATTENDANCE ANALYTICS

Combine entry tap (NFC) with zone presence to verify class attendance and optimise lecture-hall utilisation.



HOSPITAL STAFF ROUNDS

BLE indoor accuracy tags nurses and doctors; motion alerts verify routine rounds and shorten emergency response.

SPECIFICATIONS

Bluetooth

Bluetooth Protocol	5.0, iBeacon, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance

Cat- 1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

GNSS

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

Mechanics

Dimension	95.4*61.4*7.3mm
Operating Temperature	-10°C~+65°C
Storage Temperature	-20°C~+80°C
Operating Humidity	5% ~ 95% (non-condensing)
Housing Material	ABS
Weight	35g

Power

Battery	Li-ion rechargeable battery, 600mAh
GNSS (default report interval 30mins)	Approx. 600 times
Bluetooth Positioning (default report interval 5mins)	Approx. 2000 times
Standby Current	25µA
Max. Current	450mA

Functions

Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Heartbeat Report Interval	30s x n (1 to 65535)
Switch	Mechanical
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Tamper Detection	Support
FOTA over Bluetooth	Support
Movement Duration	Support
Vibration Shock Detection	Support
Asset Management with Bluetooth Tags	Support (report nearby Bluetooth tags)
Offline Cache Position (40 Positions)	Support
3D Accelerometer	Support
NFC Tag	1KB
Cellular-based Positioning	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via Cat-1
Bluetooth data compression	Support

ORDERING INFORMATION

Product Description	Part Number
Badge tracker, Cat-1, Bluetooth 5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-00C12

Cat-1 Flex Tracker

Achieve ultimate installation flexibility with the Cat-1 Flex Tracker. Built with a soft, adhesive-friendly silicone gel base, this device effortlessly attaches to curved, uneven, or cylindrical surfaces, making it perfect for tracking tools, medical supplies, or equipment with non-flat exteriors. Compatible with cylinders having a diameter of 20mm. It can last up to 10 years with 3 LoRa messages per day in typical usage scenarios.



Attach Everywhere

This tracker effortlessly attaches to curved, uneven, or cylindrical surfaces

Indoor Tracking & Geo-Fencing

Monitor movement within defined areas and receive notifications if assets, personnel, or visitors breach preset boundaries.

Cat-1 Worldwide Network Coverage

Support Cat-1 communication, ensuring uninterrupted livestock tracking in remote or infrastructure-limited regions.

Outdoor GNSS Support/WiFi Positioning

Built-in GNSS capability enables precise outdoor positioning—ideal for open pasture environments and large-scale ranch operations.

Flexible Tracking Modes

Offers adjustable uplink report intervals and tracking logic, allowing tailored configurations for grazing, resting, or transport scenarios.

SCENARIO



HOSPITAL ASSET TRACKING

Monitor crucial medical tools—like infusion pumps and diagnostic devices—and ensure they're located, maintained, and deployed efficiently.

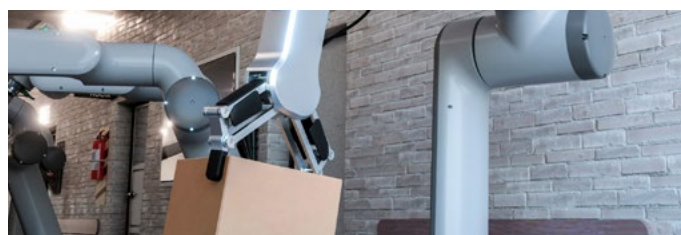


WAREHOUSE & INVENTORY OPTIMIZATION

Track pallets, forklifts, or valuable goods within a busy warehouse environment. Leverage the gateway's long-range connectivity to reduce misplaced items and streamline operations.



GENERAL ASSET MANAGEMENT



RENTAL & LEASING MANAGEMENT

Keep tabs on critical inventory—even in remote sites—by leveraging LoRaWAN for wide coverage and Bluetooth for detailed proximity data.

Affix a disposable label to equipment or assets on short-term leases, offering accurate usage data and location without long-term commitments or high operational costs.

SPECIFICATIONS

Cat-1

Regions**	North America	Europe / Africa	China / India	Japan	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B1/B3/B8/B18/B19/B26/B28	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A	N/A
SIM Card	Nano or eSIM				
Protocol	MQTT, HTTP(S), TCP, UDP				
Antenna	FPC				

** The hardware for different regions are different.

WiFi

Wi-Fi Scan	802.11b/g/n
Wi-Fi connectivity	Do not support
Antenna	FPC

Bluetooth

Bluetooth	5.0, iBeacon
TX Power	-20 to +4 dBm TX power, configurable in 4 dB steps
Advertise Interval	100ms to 10s
Sensitivity	-96dBm
Transmission Distance	150m sight distance
Antenna	PCB Antenna

GNSS

GNSS	GPS/BDS/Glonass
GNSS Position Accuracy	<2.5m CEP
Cold Start Duration	30s to 60s
Antenna	20*6mm, ceramic

Physical Parameters

Dimension	75x22mm (LxW), compatible with cylinders having a diameter of 20mm
Weight	10g
Housing Material	Silicone gel
Ingress Protection	IP67
Operating temperature	-10°C~+60°C

Power

Battery	CP601835, 780mAh, Non-replacable battery
Standby time	10 years (3 LoRa message per day)
Standby current	5μA
Max. Current	80mA (10dBm)

Function

Magnet Button	Support
Status LED	Support
FOTA over Bluetooth	Support
Battery level report	Support
Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Certification	CE, to be obtained

ORDERING INFORMATION

Product Description	Part Number
Flex tracker, Cat-1, WiFi, Beacon 5.0, GNSS, iBeacon, silicon gel, 75x22mm, 780mAh	100-00FT2

Macro Tracker

Built for multi-year, zero-maintenance deployments, the Lansitec Cat-1 Macro Tracker fuses dual-constellation GNSS, BLE 5.0 scanning and LTE Cat-1 connectivity inside a rugged IP66 enclosure. A massive 38 000 mAh Li-SOCI2 battery powers up to 7 years of adaptive reporting, while edge-side filters, offline caching and motion-driven autonomy turn raw pings into actionable asset intelligence—no external power, no data waste.



Global Cat-1 Bands

LTE bands with MQTT/HTTP(S)/TCP/UDP back-haul.

GNSS + BLE Dual Mode

< 2.5 m CEP outdoors; 3 m RSSI indoors for seamless hand-off.

Ultra-Long Autonomy

38 000 mAh field-replaceable pack; 25 µA sleep current.

Edge Smart Rules

Geo-fence, idle/motion timers, offline cache (40 positions).

Industrial IP66 Shell

-20°C ~ +70°C, 0-95 % RH, PC/ABS housing, waterproof PCB.

Asset BLE Tag Sync

Inventories nearby tags/beacons for granular container contents.

Easy-Fit Mounting

160 × 160 × 55.4mm, 530 g; strap, bolt or magnet in minutes.

FOTA & NFC Provisioning

Wireless firmware updates and tap-to-pair setup.

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



VEHICLE TRACKING

Real-time GNSS/BLE telemetry guides fleet dispatch, reduces idle time and boosts safety KPIs.



PERSONNEL TRACKING

Track lone or remote workers; SOS and movement rules trigger instant Cat-1 alerts.



HOSPITAL ASSET TRACKING



MINING & OILFIELD ASSETS

Locate mobile diagnostic gear and auto-inventory BLE-tagged consumables for zero loss.

IP66, -45 °C resilience protects pumps and tools in harsh, remote environments.

SPECIFICATIONS

Bluetooth

Bluetooth Protocol	5.0, iBeacon, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance

Cat- 1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

GNSS

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

Physical Parameters

Dimension	160*160*54.5mm
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-60°C ~ +90°C
Operating Humidity	0% ~ 95% (non-condensing)
Weight	530g
Ingress Protection	IP66

Functions

Adjustable Bluetooth Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 255)
GNSS Position Report Interval	5s x n (0 to 65535)
FOTA over Bluetooth	Support
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Cellular-based Positioning	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via Cat-1
Bluetooth data compression	Support

Power

Battery	Li-SoCl ₂ 19000mAhx2 Optional: 19000mAhx4/19000mAhx6
GNSS (default report interval 30mins)	Approx. 76,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 171,000 times
Standby Current	25µA
Switch	Support
Status LED	Support

Certification	CE, FCC
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ORDERING INFORMATION

Product Description	Part Number
Macro Tracker, built-in antenna, Cat-1, Bluetooth 5.0, GNSS, 160x160x54.5mm, IP66, 38000mAh	100-00C13

Asset Management Tracker

The Cat-1 Asset Management Tracker unites multi-GNSS, BLE 5.0 and LTE Cat-1 for always-connected indoor & outdoor asset intelligence. Its twin 4 000 mAh Li-SOCI2 cells (8 000 mAh total) power up to 3+ years of adaptive reporting inside an IP68, palm-sized enclosure. Motion sensors, tamper switch and door-open detection transform raw position pings into actionable utilisation data—ideal for containers, transit cases and unattended machinery.



Global Cat-1 Coverage

25 + FDD bands with MQTT / HTTP(S) / TCP / UDP uplinks.

Dual-Mode Positioning

< 2.5 m CEP by GNSS outdoors; 3 m BLE RSSI indoors.

Edge Smart Rules

Geo-fence, motion duration, shock, door and tamper alerts on board.

Ultra-Long Autonomy

15 µA sleep current yields 30 k GNSS or 500 k BLE reports.

Offline Cache & Burst

Stores 40 locations when out of coverage, uploads on reconnect.

Asset BLE Tag Sync

Inventories nearby beacons to know what is inside each case.

Wide Temp Range

-10°C ~ +65°C operation, waterproof-coated PCB.

FOTA & NFC Provisioning

Firmware upgrades and tap-to-pair setup without unsealing.

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



MACHINE-STATUS MONITOR

Correlate vibration hours and shock spikes to schedule maintenance and prevent downtime.



COLD-CHAIN COMPLIANCE

Pair with BLE temperature probes inside vaccine coolers; Cat-1 pushes threshold breaches instantly.



MUSEUM & EXHIBIT SECURITY

Shock-, motion- and door-sensing safeguard priceless artifacts during transit and storage.



CONTAINER TRACKING

Real-time GNSS & door-open alerts secure sea-rail containers through ports, depots and yards.

SPECIFICATIONS

Bluetooth

Bluetooth Protocol	5.0, iBeacon, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance

Cat-1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

GNSS

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

Mechanics

Dimension	78*79*35mm
Ingress Protection	IP68
Weight	133g
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +75°C
Operating Humidity	0% ~ 95% (non-condensing)
Housing Material	PC and ABS
PCB Coating	Water proof coating

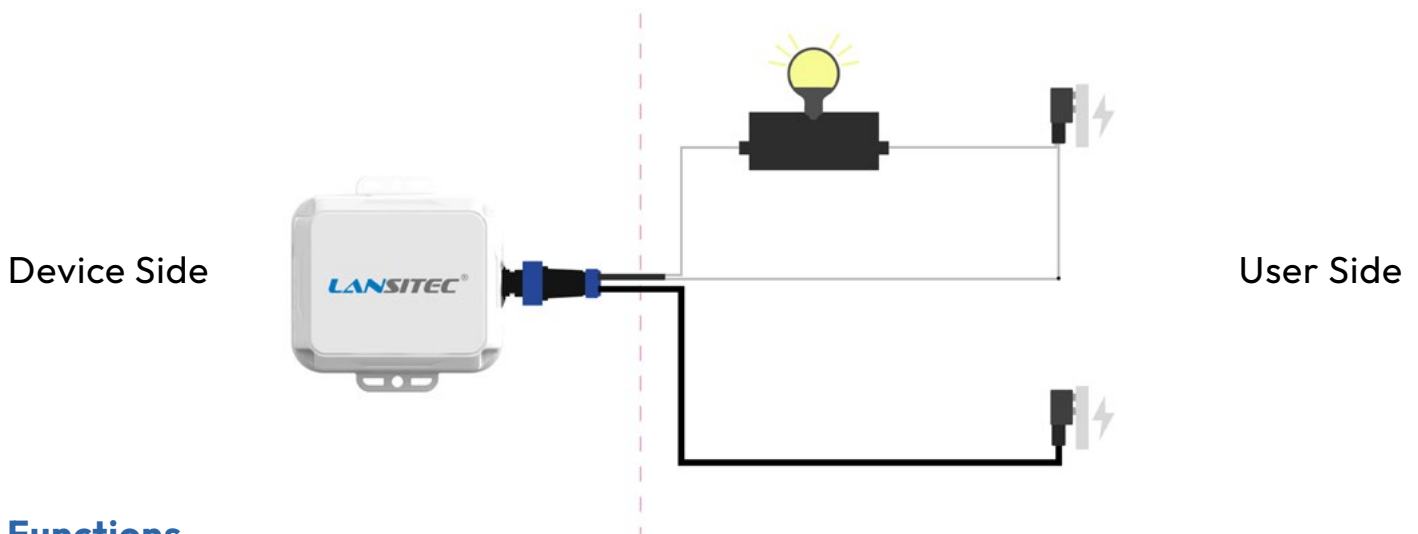
Power Option 1

Battery	Li/SOCI2 4000mAh x 2
GNSS (default report interval 30mins)	Approx. 30,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 500,000 times
Standby Current	15 μ A
Max. Current	450mA

Power Option 2: Remote Relay Control

"Remote Relay Control: The tracker is equipped with a built-in relay, allowing remote on/off control of connected external devices."

Battery	Li-ion rechargeable battery, 1200mAh
Power Supply	DC 12V



Functions

Adjustable Bluetooth Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 255)
GNSS Position Report Interval	5s x n (0 to 65535)
FOTA over Bluetooth	Support
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, $\pm 5^{\circ}\text{C}$
Temperature Resolution	0.25°C
Cellular-based Positioning	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via Cat-1
Bluetooth data compression	Support

ORDERING INFORMATION

Product Description	Part Number
Asset Management Tracker, Cat-1, BLE5.0, 78x79x35mm, IP68, 2x4000mAh	100-000C4
Certification	CE, FCC

Livestock Tracking Tag

Ensure precise livestock monitoring with the Lansitec Livestock Tracking Tag—designed specifically for long-term, rugged outdoor use. Engineered in a robust, animal-friendly enclosure, this Bluetooth tag continuously advertises iBeacon packets and supports up to six broadcast frames for versatile tracking needs. Powered by a rechargeable 150mAh Li-ion battery, the tag delivers months of operation on a single charge, even under demanding farm conditions. Its integrated 3D accelerometer enables real-time motion sensing, allowing farmers to monitor grazing patterns, rest cycles, and abnormal movements.

Multi-Network Connectivity

Support Cat-1 communication, ensuring uninterrupted livestock tracking in remote or infrastructure-limited regions.

Flexible Tracking Modes

Offers adjustable uplink report intervals and tracking logic, allowing tailored configurations for grazing, resting, or transport scenarios.

Outdoor GNSS Support

Built-in GNSS capability enables precise outdoor positioning—ideal for open pasture environments and large-scale ranch operations.

Solar-Powered Long Lasting Rechargeable Battery

Equipped with a 150mAh Li-ion rechargeable battery, the tag delivers continuous tracking capability.

Rugged and Animal-Friendly Design

Crafted for outdoor durability and safe attachment to livestock, the tag withstands harsh weather and daily animal movement.

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



ANIMAL TRACKING

Motion sensing and flexible reporting intervals help farmers detect abnormal activity, optimize grazing patterns, and improve overall herd health and security.



AGRICULTURAL ASSET MONITORING

Remote farmlands to safeguard expensive equipment, livestock, or valuable inventory without relying on constant battery replacements.



VEHICLE TRACKING

Monitor real-time vehicle locations, speeds, and conditions to optimize dispatching and reduce operational costs.



OUTDOOR EVENT & VENUE MANAGEMENT

Track attendee flow, staff placement, and critical resources—such as medical stations—in expansive event spaces to improve crowd control and safety.

SPECIFICATIONS

Cat-1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

Connectivity

Bluetooth Protocol	5.0, iBeacon
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance
Sensitivity	-96dBm
RF Power	-20~+4 dBm, configurable in 4 dBm steps

GNSS

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

Functions

Heartbeat Report Interval	30s x n (1 to 65535)
GNSS Position Report Interval	5s x n (0 to 65535)
Bluetooth Position Report Interval	5s x n (0 to 65535)
FOTA over Bluetooth	Support
Geo-Fence	Support
Alarm	Support
Button	On/Off
LED	Red and green, for device status and network status
3D accelerometer	Support

Step Count	Support
Run Detection	Support

Physical Parameters

Dimension	60*44*13mm
Housing Materials	PC & ABS
Operating temperature	-10°C~+65°C
Storage Temperature	-20°C~+80°C
PCB Coating	Water proof coating
Weight	32g
Ingress Protection	IP66

Power

Battery	Li-ion 150mAh rechargeable battery
Solar Panel	55*39mm, 0.34W
Standby Current	10μA
GPS Positioning Current (AVG)	30mA
Battery Life	100 GPS Reports

Ordering Information

Product Description	Part Number
Livestock Tracking Tag, Cat-1, BLE5.0, GNSS, 150mAh	100-00LT1



Livestock Tracking Tag

What if we tell you that you can monitor every movement and health stats of your livestock anytime and from anywhere? Today, the question is not whether it is possible or not, but how reliable it is. With Lansitec's Livestock Tracking Tag, you'll be able to do all this and more with the assurance of better reliability.

Powered by LTE Cat-1, LoRaWAN, and NB-IoT+NTN, our Livestock Tracking Tag ensures reliable connectivity, even in the most remote pastures. The tag has a built-in GNSS which delivers precise positioning, while geo-fence alerts notify you instantly if animals stray. And to ensure farmers get uninterrupted service, we have integrated a solar-powered rechargeable battery, which keeps it running for the long haul. Lightweight, rugged, and animal-friendly, the tag is built to endure harsh outdoor conditions.

On top of this, to provide an added value to the farmers, our advanced sensing features, such as steps, motion, and activity sensors, can be used to help you secure livestock, optimize grazing, and optimize production. With this tag, we offer simplicity, reliability, and a feature-packed technology that prioritizes eco-friendliness.

Multi-Network Connectivity

Option 1: Cat-1 (LTE 4G)

Option 2: LoRaWAN

Option 3: NB-IoT+NTN+LoRaWAN

ensuring uninterrupted livestock tracking in remote or infrastructure-limited regions.

Flexible Tracking Modes and Geo-Fence

Offers adjustable uplink report intervals and tracking logic, allowing tailored configurations for grazing, resting, or transport scenarios.

Outdoor GNSS Support

Built-in GNSS capability enables precise outdoor positioning—ideal for open pasture environments and large-scale ranch operations.

Solar-Powered Long Lasting Rechargeable Battery

Equipped with a 150mAh Li-ion rechargeable battery, the tag delivers continuous tracking capability.

Rugged and Animal-Friendly Design

Crafted for outdoor durability and safe attachment to livestock, the tag withstands harsh weather and daily animal movement.



Multiple Sensing Features:

- Step counts
- Still checking and alarm
- Chasing monitor and alarm.

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



ANIMAL TRACKING

Motion sensing and flexible reporting intervals help farmers detect abnormal activity, optimize grazing patterns, and improve overall herd health and security.



AGRICULTURAL ASSET MONITORING

Remote farmlands to safeguard expensive equipment, livestock, or valuable inventory without relying on constant battery replacements.



VEHICLE TRACKING

Monitor vehicle locations, speeds, and conditions to optimize dispatching and reduce operational costs.



OUTDOOR EVENT & VENUE MANAGEMENT

Track attendee flow, staff placement, and critical resources. Such as medical stations in expansive event spaces to improve crowd control and safety.

SPECIFICATIONS

Cat-1

Regions	North America	Europe / Africa	China / India	Latin America
FDD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TDD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

LoRaWAN

Activation Mode	OTAA/ABP
Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, KZ865, CN470
LoRa TX power	0 to 20dBm
LoRa Sensitivity	-137dBm @ SF12, BW 125 kHz, 868MHz/915MHz
LoRa Communication Distance	>1 km in an urban area
Encryption	AES128

	Band	Data Rate (Peak)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85	Cat NB2: 127(DL) 158.5(UL) Cat NB1: 32(DL) 70(UL)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	300(DL) 400(UL)
NTN	N255/N256	LEO: 10(DL) 20(UL) GEO: 1(DL) 2(UL)
SIM Card	Nano or eSIM	

Connectivity

Bluetooth Protocol	5.0, iBeacon
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance
Sensitivity	-96dBm
RF Power	-20~+4 dBm, configurable in 4 dBm steps

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

Heartbeat Report Interval	30s x n (1 to 65535)
GNSS Position Report Interval	5s x n (0 to 65535)
Bluetooth Position Report Interval	5s x n (0 to 65535)
FOTA over Bluetooth	Support
Geo-Fence	Support
Alarm	Support
Button	On/Off
LED	Red and green, for device status and network status
3D Accelerometer	Support
Step Count	Support
Run Detection	Support

Physical Parameters

Dimension	60*44*13mm
Housing Materials	PC & ASA
Operating temperature	-10°C~+65°C
Storage Temperature	-20°C~+80°C
PCB Coating	Water proof coating
Weight	32g
Ingress Protection	IP66

Power

Battery	Li-ion 150mAh rechargeable battery
Solar Panel	55*39mm, 0.34W
Standby Current	10μA
GPS Positioning Current (AVG)	30mA
Battery Life	400 GPS Reports

Ordering Information

Product Description	Part Number
Livestock Tracking Tag, LoRaWAN, NTN, NB-IoT, BLE5.0, GNSS, 150mAh	100-00LT3



BACK

LANSITEC®



Ethernet Bluetooth AoA

AG1 Indoor AoA Gateway

PoE/DC Interface, Ethernet

Experience ultra-precise positioning in demanding outdoor environments with the Lansitec AG1 Positioning Gateway. By harnessing Bluetooth AoA (Angle of Arrival) technology and a high-precision antenna array, it can achieve real-time location accuracy within 0.1 m. Designed for outdoor or semi-outdoor installations, the IP66-rated housing resists harsh weather, while 802.3af PoE (or 12–30 V DC) simplifies power delivery. Whether you're safeguarding equipment in expansive yard operations or tracking personnel at open-air events, the AG1 Positioning Gateway delivers robust, real-time insights that streamline your operational efficiency.



High-Precision AoA

Measures angles via advanced antenna arrays, delivering sub-meter accuracy (0.1 m).

IP66-Grade Enclosure

Rated for operation from -20 °C to +60 °C, with ABS+PC housing that resists dust, water, and impact.

Easy Installation

Mount on ceilings or angled walls ($\leq 45^\circ$) up to 30 m in height; an indicator light provides real-time status feedback.

PoE or DC Power

Standard 802.3af PoE or 12–30 V DC eliminates the need for separate power lines, reducing setup complexity.

Flexible Coverage

Covers a radius up to twice its installation height (max 15 m), enabling wide-area tracking in warehouses, factories, and more.

Online Configuration & Updates

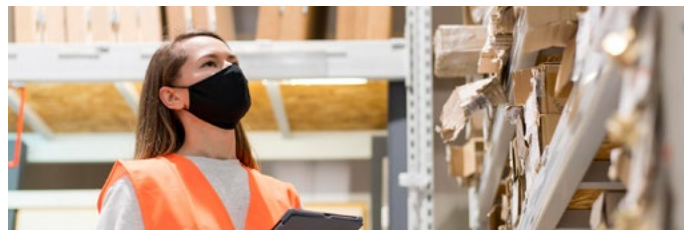
Support for remote gateway firmware updates, easing ongoing maintenance and ensuring up-to-date performance.

SCENARIO



VEHICLE TRACKING

Deploy in parking lots or bus depots to monitor vehicle positions in real time, reducing missed routes and improving safety.



LOGISTICS WAREHOUSE

Achieve pin-point oversight of forklift operations or high-value inventory within open storage yards. AoA-based location data optimizes picking routes and prevents lost goods.



LARGE EVENT SPACES



OPEN-AIR INDUSTRIAL SITES

Place AoA gateways around festival grounds or outdoor expos to guide attendees, track staff, and manage crowd flow. Organizers gain detailed spatial analytics without intrusive infrastructure.

Ideal for heavy manufacturing plants or energy facilities where precise asset tracking prevents losses and ensures safe operations. The combination of rugged design and high accuracy meets stringent industrial demands.

SPECIFICATIONS

MECHANICS

Color	White
Material	ABS+PC
Size	180.7*180.7*39.36mm
Weight	≤580g
Installation Method	Ceiling mouting / Side mounting, angle ≤ 45°
Installation Height	Max 15m
Switch	PoE/DC Powered, self-starting
Indicator Light	1 red and green status indicator + 1 ethernet port indicator

BLUETOOTH CHIP

Protocol Standard	Bluetooth 5.0/4.2
Band	2.401 ~ 2.481 GHz

ENVIRONMENT & ELECTRIC

Power Supply	PoE 48V IEEE 802.3af / DC 12V~30V 1A
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
IP Rating	IP66
Rated Power	< 2W

RF SPECIFICATION

Coverage Range	Maximum coverage radius is double of the installation height, but not over 15m
Speed	10 / 100Mbps
Antenna	Array Antenna

OTHERS

Online Gateway Configuration and Update	Support
FE	IEEE 802.3
Reset Button	1 Reset Button

ORDERING INFORMATION

Product Description	Part Number
AoA Gateway, ethernet, POE/DC, 180.7*180.7*39.36mm, IP66	100-01AG1

AG3 Indoor AoA Gateway

DC Interface, WiFi

Experience pinpoint indoor positioning with the Lansitec AG3 Positioning Gateway, a high-precision locator designed to simplify large-scale tracking in warehouses, visitor facilities, and other challenging environments. By leveraging Bluetooth 5.1 and an advanced antenna array, the AG3 delivers sub-meter accuracy (0.1–1 m) and quickly synchronizes data through 4G/5G or Wi-Fi backhaul. The robust IP66-rated enclosure and flexible mounting options (ceiling or angled installation) make it suitable for both industrial and semi-outdoor scenarios, while DC power supply ensures minimal cabling hassles. Whether you're coordinating a sprawling distribution center or securing high-traffic public venues, the AG3 Positioning Gateway's combination of remote configuration tools and on-board intelligence helps you manage assets and personnel in real time—with ease and confidence.



Precision Tracking (0.1–1 m)

Bluetooth 5.1 combined with an optimized antenna array delivers near real-time, high-accuracy positioning.

Multi-Interface Backhaul

Choose from 4G, 5G, or Wi-Fi (IEEE 802.11ac) for data transmission, ensuring consistent performance across varied network conditions.

IP66-Grade Enclosure

Rated for operation from -20 °C to +60 °C, with ABS+PC housing that resists dust, water, and impact.

Power Flexibility

Supports DC input (12–30 V/1 A), reducing installation complexity and cost.

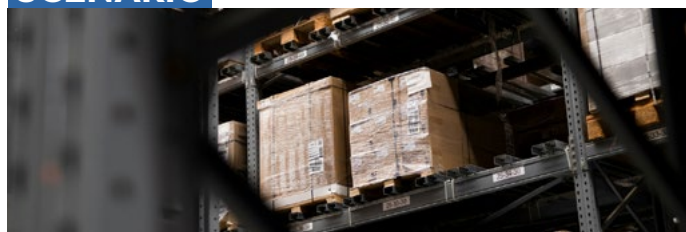
Intelligent On-Board System

A 64 MHz Arm Cortex-M4 CPU, 512 KB Flash, and 128 KB RAM enable remote configuration, firmware updates, and robust local processing.

Wide Coverage Radius

Covers up to twice its mounting height (max 15 m), optimizing device usage and lowering deployment expenses.

SCENARIO



LOGISTICS WAREHOUSE

Implement high-accuracy tracking to locate specific pallets or forklifts swiftly. By monitoring real-time positions, operators reduce lost inventory and boost operational efficiency.



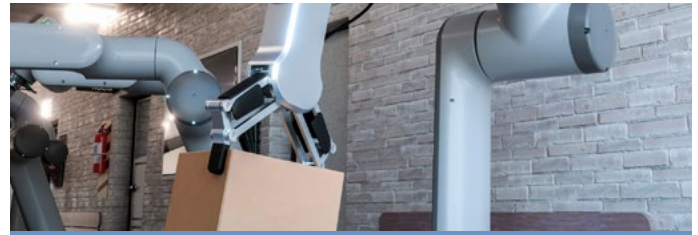
VISITOR MANAGEMENT

Ensure safety and seamless navigation within large venues (e.g., theme parks, nursing homes, prisons). The AG3 alerts staff if visitors stray outside permissible zones or if an emergency arises, enabling swift response.



VEHICLE MONITORING

Ideal for multi-level parking garages or distribution centers, capturing precise vehicle positions. Combine with 4G/5G backhaul for fleet scheduling and dispatch optimization in real time.



RESOURCE PLANNING

Collect and analyze position data for tools, robots, and automated guided vehicles (AGVs). Improve route planning, prevent idle assets, and keep maintenance teams informed for proactive part replacements or servicing.

SPECIFICATIONS

MECHANICS

Color	White
Material	ABS+PC
Size	180.7*180.7*39.36mm
Weight	611±5g
Installation Method	Ceiling mouting / Side mounting, angle ≤ 45°
Installation Height	Max 15m
Indicator Light	1 red and green status indicator + 1 ethernet port indicator

BLUETOOTH CHIP

CPU	64 MHz Arm Cortex-M4
Storage	512 KB Flash + 128 KB RAM
Protocol Standard	Bluetooth 5.1/4.2
Sensitivity	-96 dBm
Band	2.401 ~ 2.481 GHz

ENVIRONMENT & ELECTRIC

Power Supply	DC Power Supply (12-30V 1A)
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
IP Rating	IP66
Rated Power	< 2W

RF SPECIFICATION

Supported TX Power	+8 ~ -20dBm configurable in 4 dBm step
Positioning Accuracy	0.1 ~ 1m
Coverage Range	Maximum coverage radius is double of the installation height, but not over 15m
Speed	10 / 100Mbps
Antenna	Array Antenna

OTHERS

Internet Indicator	Support
Online Gateway Configuration and Update	Support
Online Beacon Configuration and Update	Support
WiFi	IEEE 802.11ac
FE	IEEE 802.3
Reset Button	1 Reset Button
Burn Interface	JTAG
Debug Interface	Serial Port

ORDERING INFORMATION

Product Description	Part Number
AoA Gateway, ethernet, DC, WiFi, 180.7*180.7*39.36mm, IP66	100-01AG3

AG4 Outdoor AoA Gateway

PoE/DC Interface, Ethernet (Enhanced Coverage)

Experience ultra-precise positioning in demanding outdoor environments with the Lansitec AG4 Positioning Gateway. By harnessing Bluetooth AoA (Angle of Arrival) technology and a high-precision antenna array, it can achieve real-time location accuracy within 0.1 m. Designed for outdoor or semi-outdoor installations, the IP66-rated housing resists harsh weather, while 802.3af PoE (or 12–30 V DC) simplifies power delivery. Whether you're safeguarding equipment in expansive yard operations or tracking personnel at open-air events, the AG4 Positioning Gateway delivers robust, real-time insights that streamline your operational efficiency.



High-Precision AoA

Measures angles via advanced antenna arrays, delivering sub-meter accuracy (0.1 m).

Outdoor-Ready

IP66 enclosure and operating temperature from -20 °C to +60 °C for reliable performance in most climates.

Easy Installation

Mount on ceilings or angled walls ($\leq 45^\circ$) up to 30 m in height; an indicator light provides real-time status feedback.

PoE or DC Power

Standard 802.3af PoE or 12–30 V DC eliminates the need for separate power lines, reducing setup complexity.

Flexible Coverage

Covers a radius up to twice its installation height (max 30 m), enabling wide-area tracking in warehouses, factories, and more.

Online Configuration & Updates

Support for remote gateway firmware updates, easing ongoing maintenance and ensuring up-to-date performance.

SCENARIO



VEHICLE TRACKING

Deploy in parking lots or bus depots to monitor vehicle positions in real time, reducing missed routes and improving safety.



LOGISTICS WAREHOUSE

Achieve pin-point oversight of forklift operations or high-value inventory within open storage yards. AoA-based location data optimizes picking routes and prevents lost goods.



LARGE EVENT SPACES



OPEN-AIR INDUSTRIAL SITES

Place AoA gateways around festival grounds or outdoor expos to guide attendees, track staff, and manage crowd flow. Organizers gain detailed spatial analytics without intrusive infrastructure.

Ideal for heavy manufacturing plants or energy facilities where precise asset tracking prevents losses and ensures safe operations. The combination of rugged design and high accuracy meets stringent industrial demands.

SPECIFICATIONS

MECHANICS

Color	White
Material	ABS+PC
Size	331*331*45mm
Weight	≤3.6kg
Installation Method	Ceiling mouting / Side mounting, angle ≤ 45°
Installation Height	Max 30m
Switch	PoE/DC Powered, self-starting
Indicator Light	1 red and green status indicator + 1 ethernet port indicator

BLUETOOTH CHIP

Protocol Standard	Bluetooth 5.0/4.2
Band	2.401 ~ 2.481 GHz

ENVIRONMENT & ELECTRIC

Power Supply	PoE 48V IEEE 802.3af / DC 12V~30V 1A
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
IP Rating	IP66
Rated Power	< 2W

RF SPECIFICATION

Coverage Range	Maximum coverage radius is double of the installation height, but not over 30m
Speed	10 / 100Mbps
Antenna	Array Antenna

OTHERS

Online Gateway Configuration and Update	Support
FE	IEEE 802.3
Power Consumption	1 Reset Button

ORDERING INFORMATION

Product Description	Part Number
AoA Gateway, ethernet, POE/DC, 331x331x45mm, IP66	100-01AG4



WiFi

WiFi Indoor Bluetooth Gateway

Elevate your indoor asset and personnel tracking with the Lansitec Indoor Bluetooth Gateway. Designed around Bluetooth 5.0 technology and WiFi, this gateway ensures seamless data transmission without additional network fees—even across long distances. By collecting beacon signals from badges, bracelets, and various BLE sensors, it provides real-time insights into locations, movements, and environmental conditions. Whether you're managing security staff, monitoring warehouse inventory, or overseeing event operations, the Indoor Bluetooth Gateway delivers low-power, high-efficiency connectivity to help you stay informed and in control.

Optimized for Indoor Environments

Ideal for offices, warehouses, hospitals, or event venues, offering precise real-time tracking and minimal interference.

Cost-Effective WiFi Connectivity

Enjoy wide-area coverage without incurring extra network usage fees for data transmission.

Bluetooth 5.0 for Extended Range

Benefit from robust signal strength and low power consumption when collecting data from BLE beacons and sensors.

Geo-Fence Support

Establish virtual perimeters around critical areas, receiving alerts whenever tagged items or personnel enter or exit these zones.

Configurable Bluetooth data filter and payload report

Filter and report only the data you need—such as temperature, humidity, or motion—reducing bandwidth and power usage.



Versatile Power Options

Operate via a 600mAh rechargeable battery for short-term deployments or connect to a 5V/1A power source for continuous use.

FOTA Over WiFi

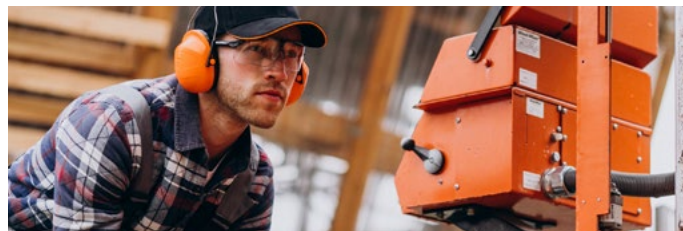
Keep your gateway updated with over-the-air firmware upgrades, ensuring you always have the latest features and security patches.

SCENARIO



REAL-TIME STAFF TRACKING

Issue connected badges to security personnel, maintenance workers, or event organizers. Monitor their locations and movements in real time to coordinate responses, deploy resources efficiently, and enhance on-site safety.



LONE WORKER PROTECTION

Provide an extra layer of security for employees working late or in isolated areas. Automated alerts trigger if a staff member's badge remains stationary for too long or enters restricted zones.



FACILITY ENVIRONMENT MONITORING

Collect temperature, humidity, and other environmental data via BLE sensors placed throughout your building. Analyze this information through WiFi for better climate control, energy savings, and asset preservation.



EVENT CROWD MANAGEMENT

Track attendee flow and prevent overcrowding. Strategically place the gateway around venues to gather data from wearable beacons, helping organizers optimize layouts and enhance crowd safety.

SPECIFICATIONS

CONNECTIVITY

WiFi	IEEE 802.11 b/g/n
Band	2.4 GHz frequency
Wireless encryption protocol	WPA/WPA2 and open networks
Encryption	AES 128/256

PROTOCOL

Protocols	MQTT
Support	TLS/SSL
Data format	JSON/HEX/Plain txt

BLUETOOTH

Bluetooth Protocol	Bluetooth 5.0, iBeacon
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dB steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m

FUNCTIONS

Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
WiFi Scan	5s x n (0 to 65535)
FOTA over WiFi	Support
Geo-fence	Support
Transmission Capacity	200 beacon messages can be received within 1s, 15 (default) beacon messages can be sent in one package

PHYSICAL PARAMETERS

Dimension	120*120*31mm
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-45°C ~ +85°C

WiFi Indoor Bluetooth Gateway

Operating Humidity	5% ~ 95% (non-condensing)
Weight	175g
Housing Material	ABS and PC

POWER

Status LED	Support
Power Supply Mode	5V/1A
Connect to Power Source	Yes
Charge Jack	Micro USB

ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, Bluetooth 5.0, WiFi, 120x120x31mm, 5V	100-18579



BACK

LANSITEC®



NB-IoT & LTE-M Bluetooth

Solar Bluetooth Gateway

The Lansitec Solar Bluetooth Gateway (NB-IoT/LTE-M) captures data from nearby BLE beacons and sensors—such as temperature or positioning information—and transmits it to the cloud via NB-IoT or LTE-M. Featuring a 3W solar panel and a 5300mAh rechargeable battery, it runs maintenance-free in harsh environments. Its IP66-rated enclosure, adjustable reporting intervals, and support for iBeacon, Eddystone, and custom Bluetooth protocols make it a flexible solution for long-term asset and inventory tracking across a wide range of industries.



Global NB-IoT/LTE-M Coverage

Operates on multiple bands, ensuring reliable connectivity worldwide.

Solar-Powered & Rechargeable Battery

A 3W solar panel and 5300mAh Li-ion battery offer low-maintenance, sustainable power.

Versatile Bluetooth Integration

Gathers data from iBeacon, Eddystone, or private BLE beacons; adjustable payload filtering optimizes bandwidth.

IP66 Enclosure

Resists dust, water, and extreme temperatures (-20°C ~ +65°C).

Configurable Report Intervals

Adjust frequency of both Bluetooth scanning and cellular uploads to balance real-time data needs with power efficiency.

FOTA Over Bluetooth

Update firmware without disassembly, reducing downtime and field service costs. ensuring year-round durability.

SCENARIO



HOSPITAL ASSET TRACKING

Continuously monitor high-value medical equipment in real time. The solar-powered design suits semi-outdoor usage, such as ambulance staging areas or portable triage stations, minimizing battery swaps and maintenance visits.



VEHICLE TRACKING

Oversee fleet movement and engine diagnostics by reading BLE sensor data. Forward aggregated telemetry (e.g., speed, location, temperature) to the cloud via NB-IoT or LTE-M for efficient scheduling and route optimization.



FIELD SECURITY SYSTEMS

Deploy for temporary security checkpoints or remote outposts. Solar charging and robust cellular connectivity allow you to track personnel badges and local BLE sensors anywhere, without requiring a dedicated power source.



OUTDOOR RETAIL MANAGEMENT

Position at outdoor markets, festivals, or pop-up shops. Gather customer foot-traffic data via BLE beacons, while NB-IoT/LTE-M backhaul offers reliable connectivity for sales analytics and marketing insights.

SPECIFICATIONS

CONNECTIVITY

Protocol	MQTT, HTTP	
LoRaWAN	Optional	
LTE-FDD	Band	Data Rate (Peak)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	588 (DL) 1119 (UL)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85	Cat NB2: 127 (DL) 158.5 (UL) Cat NB1: Max. 32 (DL) Max. 70 (UL)
Wifi	Optional, 2.4GHz, positioning only	N/A
SIM Card	Nano and eSIM	N/A

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon, Eddystone, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm

MECHANICS

Dimension Option 1	160*160*54.5mm
Ingress Protection	IP66
Housing Materials	Anti-UV PC-ABS
Operating Temperature	-20°C ~ +65°C
Charging Temperature	-20°C ~ +60°C
Storage Temperature	-45°C ~ +85°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	0% ~ 95% (non-condensing)
PCB Coating	Water proof coating
Weight	460g
IP Rating	IP66

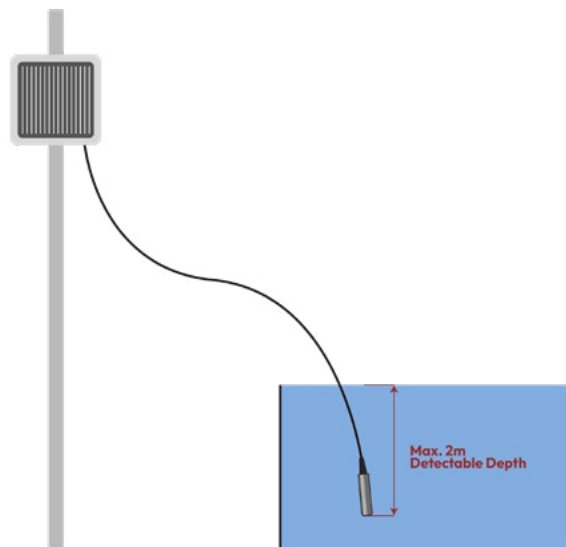
POWER

Battery	Li-ion rechargeable battery, 5300mAh
Battery Life	1 month @ 10s Bluetooth receiving duration and 60 report interval
Bluetooth positioning	Approx. 19,875 times *
Solar Panel	3W
Standby current	25µA
Max. Current	350mA
Max. Charging Current	500mA
Charging Rate	Max. 1500mAh each day

*Please refer to the battery life calculator for detailed battery life information.

FUNCTIONS

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M
Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
Switch	Mechanical
FOTA over Bluetooth	Support
Encryption	TLS1.2
Max. Uplink Report Bytes	1400
Max. Beacons Supported	105, *Please reach out to us if more are needed.
Bluetooth data compression	Support
Water Level Detection	Optional



ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, solar, NB-IoT, LTE-M, Bluetooth 5.0, 160x160x54.5mm, IP66, 5300mAh	100-NBBG1
Certification	CE, FCC, RCM

Macro Bluetooth Gateway

The Lansitec Macro Bluetooth Gateway (NB-IoT/LTE-M) gathers data from nearby BLE beacons, sensors, or controllers, then forwards it to a remote server via cellular networks. Equipped with a 38,000mAh (low-discharge) battery, it can operate for five years or more, even in challenging environments. With IP66 protection, an adjustable reporting interval, and broad BLE protocol support (iBeacon, Eddystone, private), this gateway delivers a versatile, long-term solution for various asset tracking and monitoring applications.



Long-Life Battery

A 38,000mAh Li-SoCl₂ power source can deliver 5+ years of operation at default settings (5s BLE scanning, 240s cellular reporting).

Wide Cellular Coverage

NB-IoT/LTE-M worldwide bands ensure data transmission even in remote or low-signal areas.

Multiple BLE Protocols

Works with iBeacon, Eddystone, and proprietary formats for broad sensor compatibility.

Rugged IP66 Enclosure

Suitable for outdoor or industrial environments (-20°C ~ +65°C).

Configurable Data & Interval

Users can adjust Bluetooth payload filters and upload frequency to balance power usage and data needs.

FOTA Over Bluetooth

Supports firmware upgrades without physical servicing, reducing maintenance overhead.

SCENARIO



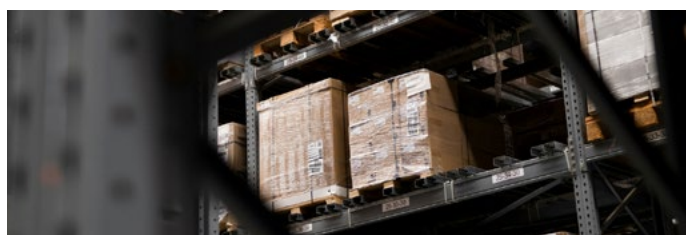
HOSPITAL ASSET TRACKING

Monitor critical medical devices (e.g., infusion pumps, portable X-ray units) and forward real-time usage and location to hospital IT systems. Ultra-long battery life reduces manual checks and maintenance.



VEHICLE TRACKING

Gather BLE sensor info (fuel, tire pressure, diagnostics) from fleet vehicles. Relay aggregated data to the cloud for route optimization, safety checks, and real-time alerts.



INDUSTRIAL INVENTORY

Track and manage large machinery or warehouse pallets over extended periods without frequent battery replacements. Alerts and data trends help minimize downtime and streamline logistics.



OFF-GRID INFRASTRUCTURE

Ideal for remote facilities (e.g., telecom towers, solar farms) lacking consistent power supply. The durable design and low discharge battery enable automatic sensor readings and status reports even under harsh conditions.

SPECIFICATIONS

CONNECTIVITY

Protocol	MQTT, HTTP	
LoRaWAN	Optional	
LTE-FDD	Band	Data Rate (Peak)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	588 (DL) 1119 (UL)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85	Cat NB2: 127 (DL) 158.5 (UL) Cat NB1: Max. 32 (DL) Max. 70 (UL)
Wifi	Optional, 2.4GHz, positioning only	N/A
SIM Card	Nano and eSIM	N/A

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon, Eddystone, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm

MECHANICS

Dimension Option 1	160*160*54.5mm
Ingress Protection	IP66
Housing Materials	Anti-UV PC-ABS
Operating Temperature	-20°C ~ +65°C
Storage Temperature	-60°C~+90°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	0% ~ 95% (non-condensing)
PCB Coating	Water proof coating
Weight	530g
IP Rating	IP66

POWER

Battery	Li-SoCl ₂ 19000mAhx2, optional: 19000mAhx4/19000mAhx6
Battery Life	5 years @ 5s Bluetooth receiving duration and 240s report interval
Standby Current	25µA
Max. Current	350mA
Bluetooth Positioning	Approx. 142,500 times

*Please refer to the battery life calculator for detailed battery life information.

FUNCTIONS

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M
Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
Switch	Mechanical
FOTA over Bluetooth	Support
Encryption	TLS1.2
Max. Uplink Report Bytes	1400
Max. Beacons Supported	105, *Please reach out to us if more are needed.
Bluetooth data compression	Support

ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, NB-IoT, LTE-M, Bluetooth 5.0, 160x160x54.5mm, IP66, 38000mAh	100-NBBG2
Certification	CE, FCC, RCM, BQB

Compact Bluetooth Gateway

Bring instant BLE visibility to any site with Lansitec's pocket-sized Compact Bluetooth Gateway. The slim 95.4* 61.4*7.3 mm bridge captures iBeacon, Eddystone, or custom sensor frames and backhauls them over global NB-IoT / LTE-M bands. A 600 mAh rechargeable battery keeps data flowing for ≈ 10 h without mains power, while AES-128 security and smart edge filtering make it a dependable, grab-and-go solution for mobile, pop-up, or emergency deployments.

NB-IoT & LTE-M Worldwide

Dual LPWAN radios across 20+ FDD bands for truly global roll-outs.

BLE 5.0 Multi-Protocol

Ingests iBeacon, Eddystone, and private sensor payloads with 3 m indoor accuracy.

Credit-Card Form Factor

97 × 62 × 7 mm, 35 g, easy to slip into vehicles, cabinets, or tool cases.

10 h On-Board Battery

600 mAh Li-ion keeps reporting when external power is unavailable.

Smart Payload Filter & Compression

Edge processing slashes cellular data fees.

Configurable Report Cadence

Uplink every 5 s–18 h; heartbeat every 30 s–18 h.

FOTA & Battery Telemetry

Wireless firmware updates and battery-level reporting via BLE.

AES-128 Encryption

End-to-end security for sensitive medical or industrial data.



SCENARIO



HOSPITAL ASSET TRACKING

Locate diagnostic carts, infusion pumps, and surgical kits in seconds to boost utilisation and prevent loss.



VEHICLE TRACKING

Drop the gateway in rental or fleet vehicles to forward BLE tag data, enabling real-time dispatch and utilisation analytics.



PUBLIC INFRASTRUCTURE MONITORING

Mount on lamp-posts or bus shelters to collect BLE environmental-sensor data (air quality, noise) for smart-city dashboards.



CONSTRUCTION & REMOTE SITES

Attach to heavy machinery or portable equipment to stream run-time, vibration, and location metrics for predictive maintenance in harsh, power-scarce environments.

SPECIFICATIONS

CONNECTIVITY

Protocol	MQTT, HTTP	
LoRaWAN	Optional	
LTE-FDD	Band	Data Rate (Peak)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	588 (DL) 1119 (UL)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85	Cat NB2: 127 (DL) 158.5 (UL) Cat NB1: Max. 32 (DL) Max. 70 (UL)
Wifi	Optional, 2.4GHz, positioning only	N/A
SIM Card	Nano and eSIM	N/A

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon, Eddystone, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm

FUNCTIONS

Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M
FOTA over Bluetooth	Support
Battery Level Report	Support
Switch	Mechanical
Positioning Precision	3m
Encryption	AES128
Bluetooth data compression	Support

MECHANICS

Dimension	95.4* 61.4*7.3mm
Housing Materials	ABS
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +80°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	35g

POWER

Battery	Li-ion rechargeable battery 600mAh
Standby Current	25μA
Max. Current	350mA
Power Supply Mode	5V/1A
Charge Jack	Micro USB
Bluetooth Positioning	Approx. 2250 times

Certification	CE, FCC
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ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, Bluetooth 5.0, NB-IoT, LTE-M, 95.4* 61.4*7.3, Li-ion 600mA	100-NBBG3

Indoor Bluetooth Gateway

Purpose-built for indoor deployments, the Lansitec Indoor Bluetooth Gateway marries long-range BLE 5.0 scanning with global NB-IoT / LTE-M back-haul to stream beacon and sensor data straight to the cloud. The compact 120 × 120 × 31 mm unit mounts on any wall or ceiling, draws 5 V / 1 A power, and carries a 600 mAh backup battery for ≈ 10 h of outage resilience. With TLS 1.2 security, geo-fencing and edge payload filtering, it is a plug-and-play cornerstone for indoor RTLS, safety and analytics systems.

Dual NB-IoT / LTE-M Back-haul

Worldwide LPWAN bands with MQTT / HTTPS endpoints.

BLE 5.0 Long-Range

Captures iBeacon, Eddystone & private sensor frames up to 120 m LOS.

High-Throughput Engine

Ingests 200 beacon msgs / s and bundles 15 per cellular packet.

3 m Indoor Accuracy

RSSI trilateration plus configurable geo-fence alerts.

TLS 1.2 Secure Pipe

End-to-end encryption with AES-128 payload protection.

Smart Edge Filtering

Byte-level filters & compression cut airtime and fees.

Battery + Mains Power

600 mAh Li-ion gives ~10 h backup during outages.

FOTA & Telemetry

Wireless firmware updates and status LEDs for zero-touch maintenance.



SCENARIO



HOSPITAL ASSET TRACKING

Locate imaging carts, infusion pumps and surgical kits in seconds to boost utilisation and prevent loss.



PUBLIC SPACE MANAGEMENT

Monitor visitor flow and environmental sensors in malls, stations or arenas to optimise crowd comfort and safety.



SMART CAMPUS ANALYTICS



MUSEUM EXHIBIT MONITORING

Correlate student traffic, library occupancy and indoor air quality to enhance campus services and resource planning.

Protect artifacts with vibration / temperature beacons and receive instant cellular alerts on abnormal handling.

SPECIFICATIONS

CONNECTIVITY

Protocol	MQTT, HTTP(s)	
LoRaWAN	Optional	
LTE-FDD	Band	Data Rate (Peak)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/	588 (DL)
	B20/B25/B26/B27/B28/B66/B85	1119 (UL)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/	Cat NB2: 127 (DL) 158.5 (UL)
	B20/B25/B28/B66/B71/B85	Cat NB1: Max. 32 (DL) Max. 70 (UL)
Wifi	Optional, 2.4GHz, positioning only	N/A
SIM Card	Nano and eSIM	N/A

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon, Eddystone, private
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m

MECHANICS

Dimension	120*120*31mm
Weight	175g
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-45°C ~ +85°C
Temperature Sensor Range	-45°C ~ +85°C
Operating Humidity	5% ~ 95% (non-condensing)

FUNCTIONS

Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M
Adjustable Data Report Interval	5s x n (0 to 65535)
Heartbeat Report Interval	30s x n (1 to 65535)
FOTA over Bluetooth	Support
Geo-fence	Support

Transmission Capacity	200 beacon messages can be received within 1s, 15 (default) beacon messages can be sent in one package
Encryption	TLS1.2
Bluetooth data compression	Support

POWER

Battery	Li-ion rechargeable battery, 600mAh
Power Supply Mode	5V/1A
Status LED	Support
Connect to Power Source	Yes
Charge Jack	Micro USB

Certification	CE, FCC, RCM
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ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, Bluetooth 5.0, NB-IoT, LTE-M, 120x120x31mm, 5V, 600mAh	100-NBBG5

NBM1 Container Tracker

The Lansitec NBM1 Container Tracker combines NB-IoT/LTE-M connectivity with GNSS for versatile indoor and outdoor positioning. Its IP68-rated enclosure and dual 4000mAh Li/SOCI2 batteries enable 5 years of operation at a 30-minute reporting interval, making it perfect for long-haul containers, pallets, or high-value assets. With features such as tamper detection, door open/close sensing, and offline cache, this tracker helps prevent unauthorized activity and maintains reliable asset visibility in varied environments.



Global NB-IoT & LTE-M Support

Operates on multiple bands for worldwide coverage.

Indoor & Outdoor Tracking

GNSS (<2.5m accuracy) and optional Bluetooth positioning for transitional or indoor locations.

Movement & Tamper Detection

Monitors vibration, detects shocks, and issues alarms if the tracker is removed.

Ultra-Long Battery Life

Up to 5 years of service at a 30-minute reporting interval; 8,000mAh total capacity.

Asset Management with BLE

Collect data from nearby Bluetooth tags and report through NB-IoT or LTE-M.

Offline Caching & FOTA

Stores up to 40 positions if out of network range and supports firmware updates over Bluetooth.

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



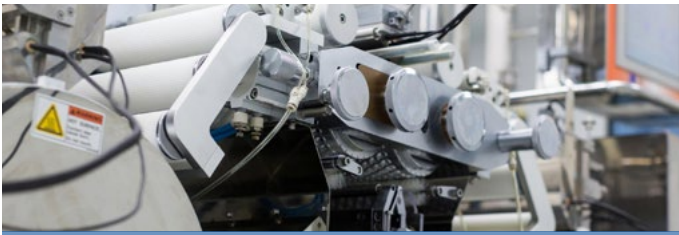
CONTAINER TRACKING

Track thousands of cargo containers globally in real time; receive automatic alerts if a device is tampered with or removed, maintaining shipment integrity.

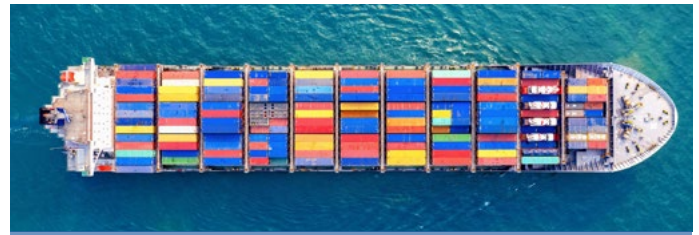


TRANSIT CASE MANAGEMENT

Enhance visibility of transit cases, whether located in warehouses or on the move. Easily identify case contents via BLE tag scanning and expedite inventory checks.


MACHINE STATUS MONITORING

Capture metrics like movement duration, vibration intensity, and door open/close events for valuable machinery. Optimize maintenance schedules and extend equipment lifespan.


OFFSHORE LOGISTICS

Monitor critical supplies on oil rigs or ships. The robust enclosure and wide operating temperature range (-45°C to +85°C) ensure uninterrupted tracking in extreme marine environments.

SPECIFICATIONS

CONNECTIVITY

Protocol	MQTT, HTTP	
LoRaWAN	Optional	
LTE-FDD	Band	Data Rate (Peak)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	588 (DL) 1119 (UL)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85	Cat NB2: 127 (DL) 158.5 (UL) Cat NB1: Max. 32 (DL) Max. 70 (UL)
Wifi	Optional, 2.4GHz, positioning only	N/A
SIM Card	Nano and eSIM	N/A

BLUETOOTH

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

GNSS

GNSS	BDS/GPS/GLONASS/QZSS/SBAS
GNSS Position Accuracy	<2.5m CEP
Cold Start Duration	30s to 60s
AGPS	Support

MECHANICS

Dimension	198*28.3*33.3mm
Ingress Protection	IP68
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-10°C ~ +30°C
Operating Humidity	0% ~ 95% (non-condensing)
Housing Material	PC and ABS
Weight	130g
PCB Coating	Water proof coating

POWER

Battery	Li/SOCI2 4000mAh x 2
GNSS (default report interval 30mins)	Approx. 12,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 30,000 times
Standby Current	60µA
Max. Current	350mA

FUNCTIONS

Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Heartbeat Report Interval	30s x n (1 to 65535)
Switch	Magnetic reed
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
NFC Tag (optional)	1KB
3D Accelerometer	Support
FOTA over Bluetooth	Support
Movement Duration	Support
Door Open/Close Sensing	Optional
Vibration Shock Detection	Support
Tamper Detection	Support
Asset Management with Bluetooth Tags	Support, report nearby Bluetooth tags
Offline Cache Position	40 Positions
Magnet Power Switch Enable/Disable	Support
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M
Bluetooth data compression	Support

ORDERING INFORMATION

Product Description	Part Number
Container Tracker, NB-IoT, LTE-M, BLE5.0, GNSS, 198*28.3*33.3mm, 2x4000mAh	100-ONBM1

NBM2 Badge Tracker

The Lansitec NBM2 Badge Tracker combines NB-IoT, LTE-M, GNSS, and Bluetooth 5.0 for reliable indoor/outdoor tracking. Designed for both personnel and asset management, it features a built-in 3-axis accelerometer for motion detection, helping to optimize power consumption and extend battery life (up to 6 months on standby). Its sleek form factor (97×62×7 mm) makes it a convenient wearable or attachable solution for applications ranging from security and fleet operations to inventory tracking.

Global NB-IoT & LTE-M Coverage

Ensures connectivity in diverse environments without relying on local Wi-Fi or LoRaWAN networks.

Dual Positioning Methods

GNSS (<2.5 m accuracy) for outdoors and Bluetooth (1–3 m accuracy) for indoors.

3D Accelerometer

Detects movement, falls, or changes in orientation to optimize reporting frequency and conserve battery.

Geo-Fence & Panic Button

Set up virtual perimeters and trigger immediate alerts for emergencies.

Extended Standby

A 600 mAh rechargeable battery supports up to 6 months of standby, reducing maintenance.

FOTA Over Bluetooth

Simplifies firmware upgrades, keeping the device current with minimal user intervention.

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



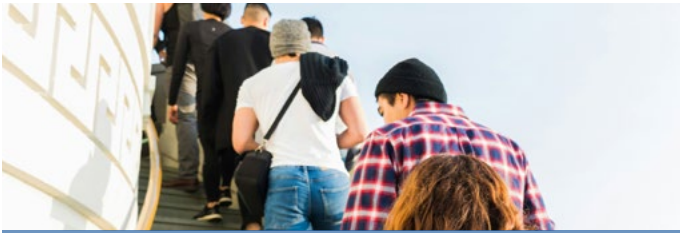
WORKER & VISITOR MANAGEMENT

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.



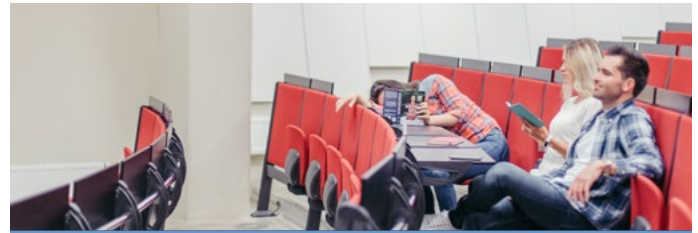
PERSONNEL MANAGEMENT

Equip staff with trackers in high-security areas or large campuses. Real-time alerts for unauthorized movement or overstay in restricted zones enhance workplace safety and compliance.



VIP & VISITOR PROTECTION

Offer the badge to VIPs or visitors in events or corporate premises for heightened security. Panic button and geo-fencing provide quick response in emergencies.



TIME & ATTENDANCE

Integrate the badge into HR systems to automate clock-ins/outs and track shift movements, helping streamline labor management in factories, fulfillment centers, or large-scale retail operations.

SPECIFICATIONS

CONNECTIVITY

Protocol	MQTT, HTTP	
LoRaWAN	Optional	
LTE-FDD	Band	Data Rate (Peak)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	588 (DL) 1119 (UL)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85	Cat NB2: 127 (DL) 158.5 (UL) Cat NB1: Max. 32 (DL) Max. 70 (UL)
Wifi	Optional, 2.4GHz, positioning only	N/A
SIM Card	Nano and eSIM	N/A

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon, private
RF Power	-20~+4 dBm, configurable in 4 dBm steps
Sensitivity	-96dBm
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance

GNSS

GNSS	BDS/GPS/GLONASS/QZSS/SBAS
GNSS Position Accuracy	<2.5m CEP
Cold Start Duration	30s to 60s
AGPS	Support

MECHANICS

Dimension	95.4*61.4*7.3mm
Operating Temperature	-10°C~+65°C
Storage Temperature	-20°C~+80°C
Operating Humidity	5% ~ 95% (non-condensing)
Housing Material	ABS
Weight	35g

POWER

Battery	Li-ion rechargeable battery, 600mAh
GNSS (default report interval 30mins)	Approx. 900 times
Bluetooth Positioning (default report interval 5mins)	Approx. 2250 times
Standby Current	60µA
Max. Current	350mA

FUNCTIONS

Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Heartbeat Report Interval	30s x n (1 to 65535)
Switch	Support
Fall Detection	Support
FOTA over Bluetooth	Support
Movement Duration	Support
3D Accelerometer	Support
NFC Tag (optional)	1KB
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M
Bluetooth data compression	Support

ORDERING INFORMATION

Product Description	Part Number
Badge, NB-IoT, LTE-M, BLE5.0, GNSS, 95.4*61.4*7.3mm, Li-ion 600mAh	100-0NBM2

NBM3 Helmet Sensor

The Lansitec NBM3 Helmet Sensor integrates NB-IoT/LTE-M, GNSS, and Bluetooth 5.0 for real-time personnel tracking and safety alerts in demanding industrial or commercial settings. Equipped with a 3D accelerometer, barometer, and smart sensing features (fall detection, panic alarm, overstay alerts), it automatically adjusts power usage based on movement. Rated IP66 and IK10, this rugged device easily fits into construction, factory, and distribution center operations, enabling managers to locate and protect workers or visitors at all times.



Dual Indoor/Outdoor Tracking

GNSS (<2.5 m accuracy) for outdoor location, and Bluetooth (~3 m accuracy) for indoor tracking.

Safety-Focused Alerts

Includes fall detection, panic button, zone detection, and overstay alarms, bolstering worker protection.

Rugged Design

IP66 and IK10 ratings resist dust, water, and impacts from -10 °C to +65 °C.

Efficient Power Usage

1,200 mAh battery plus motion-based activation; up to 8,000 GNSS reports or 33,000 Bluetooth position updates.

Barometer & 3D Accelerometer

Detect altitude changes (±1 m) and motion states for improved safety and usage metrics.

FOTA & NFC

Firmware-over-the-air via Bluetooth and optional NFC enable swift device updates and easy provisioning.

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



CONSTRUCTION WORKER TRACKING

Equip workers on building sites with helmet sensors for fall detection and overstay alarms. Managers receive near real-time alerts, improving safety compliance and rapid emergency response.



FACTORY PERSONNEL TRACKING

Monitor staff locations and movements in production lines or warehouses. Barometric data helps identify employees working at elevated platforms, enhancing safety and ensuring quick intervention if unexpected drops occur.



LARGE VENUE SECURITY



CONFINED SPACE MONITORING

Deploy sensors at major events, stadiums, or airports. The panic alarm feature helps staff quickly signal emergencies, while GNSS/Bluetooth location data streamlines crowd control and resource allocation.

Track workers entering tunnels, tanks, or basements where visibility and cellular connectivity can be limited. The sensor's IP66 enclosure and fall-detection alerts bolster safety, preventing prolonged incidents in inaccessible areas.

SPECIFICATIONS

CONNECTIVITY

Protocol	MQTT, HTTP(S)
Encryption	AES128

LTE-FDD	Band	Data Rate (Peak)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	588 (DL) 1119 (UL)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85	Cat NB2: 127 (DL) 158.5 (UL) Cat NB1: Max. 32 (DL) Max. 70 (UL)
Wifi	Optional, 2.4GHz, positioning only	N/A
SIM Card	Nano and eSIM	N/A

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance

GNSS

GNSS	BDS/GPS/GLONASS/QZSS/SBAS
GNSS Position Accuracy	<2.5m(CEP50)
Cold Start Duration	30~120s
AGPS	Support

MECHANICS

Dimension	80*80*35mm
Operating Temperature	-10°C~+65°C
Charging Temperature	0°C~+50°C
Storage Temperature	-20°C~+80°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	90g

Housing Material	ABS and PC
Ingress Protection	IP66
Impact Protection	IK10

POWER

Standby Current	90µA
Maximum Current	350mA
Status LED	Support
Battery	Li-ion rechargeable battery 1200mAh
GNSS (default report interval 30mins)	Approx. 1800 times
Bluetooth Position (default report interval 5mins)	Approx. 4500 times

FUNCTIONS

Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Heartbeat Report Interval	30s x n (1 to 65535)
GNSS Position Report Interval	5s x n (0 to 65535)
FOTA over Bluetooth	Support
Movement Duration	Support
Fall Detection	Support
G-sensor	Support
Barometer	Support, 1m altitude accuracy
Battery Level Report	Support
Proximity Detection	Support
Switch	Button x 2
NFC Tag (optional)	1KB
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M
Bluetooth data compression	Support

ORDERING INFORMATION

Product Description	Part Number
Sensor, Helmet use, NB-IoT, LTE-M, BLE5.0, GNSS, 1200mAh	100-ONBM3

Asset Management Tracker

The Asset Management Tracker pairs multi-constellation GNSS with BLE 5.0 scanning and global NB-IoT / LTE-M backhaul to give assets a single tag for seamless indoor & outdoor visibility. Dual 4 000 mAh Li-SOCI2 cells deliver years of autonomy in a sealed IP68 housing, while onboard motion, shock, door and barometric sensors turn raw location into rich utilisation intelligence—perfect for containers, equipment, and mission-critical transit cases.



Triple-Tech Positioning

GNSS (< 2.5 m CEP50), BLE (3 m RSSI) and optional Wi-Fi fingerprinting.

Ultra-Long Life

8 000 mAh battery $\approx$ 30 000 GNSS or 500 000 BLE reports; 15 μ A standby.

Rugged IP68 Shell

-10°C ~ +65°C, 0–95 % RH, PC/ABS with waterproof PCB coating.

Smart Motion Suite

6-axis IMU for movement duration, vibration, shock & tamper alerts.

Door/Seal Sensor

Magnetic switch flags unauthorised container or case openings.

Edge Payload Filter & Compression

Byte-level rules minimise cellular data costs.

Autonomous & Cached Modes

Offline logging with later burst upload when signal returns.

NFC & FOTA via BLE

Quick field provisioning and firmware upgrades without unsealing.

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



HEAVY-MACHINERY UTILISATION

Correlate vibration hours and shock events to schedule maintenance and prevent costly downtime.

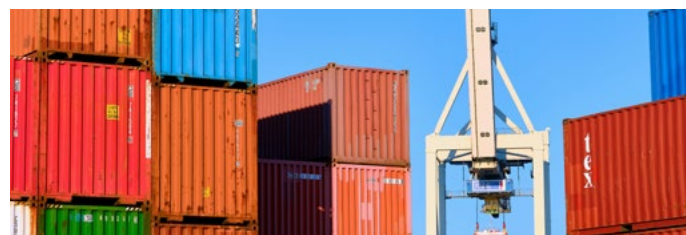


SMART-WAREHOUSE PALLET POOLS

BLE-tag pallets and use trackers on forklifts to map flow, cut search time and optimise layout.



PIPELINE INSPECTION KITS



CONTAINER TRACKING

Follow specialised NDT tools across rugged oil-&-gas sites; barometric altitude pinpoints underground or elevated sections.

Real-time geofence & door-open alerts secure intermodal sea-/rail containers across ports and depots.

SPECIFICATIONS

CONNECTIVITY

Protocol	MQTT, HTTP(S)
Encryption	AES128

LTE-FDD	Band	Data Rate (Peak)
LTE-M	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85	588 (DL) 1119 (UL)
NB-IoT	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85	Cat NB2: 127 (DL) 158.5 (UL) Cat NB1: Max. 32 (DL) Max. 70 (UL)
Wifi	Optional, 2.4GHz, positioning only	N/A
SIM Card	Nano and eSIM	N/A

BLUETOOTH

Bluetooth Protocol	5.0, iBeacon
Bluetooth TX Power	-20 to +4 dBm TX power, configurable in 4 dBm steps
Bluetooth Sensitivity	-96dBm
Bluetooth Positioning Accuracy	3m
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance

GNSS

GNSS	BDS/GPS/GLONASS/QZSS/SBAS
GNSS Position Accuracy	<2.5m(CEP50)
Cold Start Duration	30~120s
AGPS	Support

MECHANICS

Dimension	78x79x35mm
Ingress Protection	IP68
Weight	133g
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +75°C

NB-IoT & LTE-M Asset Management Tracker

Operating Humidity	0% ~ 95% (non-condensing)
Housing Material	PC and ABS
PCB Coating	Water proof coating

POWER

Battery	Li/SOCI2 4000mAh x 2
GNSS (default report interval 30mins)	Approx. 12,000 times
Bluetooth Positioning (default report interval 5mins)	Approx. 30,000 times
Standby Current	60μA
Max. Current	350mA

FUNCTIONS

Adjustable Position Report Interval	Automatic Bluetooth and GNSS tracking switching GNSS report interval 5s*n, n=0~65535 Bluetooth report interval 5s*n, n=0~65535
Heartbeat Report Interval	30s x n (1 to 65535)
GNSS Position Report Interval	5s x n (0 to 65535)
FOTA over Bluetooth	Support
Movement Duration	Support
Fall Detection	Support
G-sensor	Support
Barometer	Support, 1m altitude accuracy
Battery Level Report	Support
Proximity Detection	Support
Switch	Button x 2
NFC Tag (optional)	1KB
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M
Bluetooth data compression	Support

ORDERING INFORMATION

Product Description	Part Number
Asset Management Tracker, NB-IoT<E-M, BLE5.0, 78x79x35mm, IP68, 8000mAh	100-ONBM4



BACK

LANSITEC®

Bluetooth Beacon

B002 Bluetooth Label

Introducing the Lansitec B002 Bluetooth Label, a remarkably thin (1.5–2.5 mm) BLE device built around the iBeacon protocol. Flexible yet durable, it can be attached to various surfaces—from medical equipment and shipping boxes to wallets and personal items—using double-sided adhesive. Whether you need to track assets within a hospital or manage inventory in a bustling warehouse, the B002 Bluetooth Label offers reliable, low-power beaconing that gateways or mobile devices can detect and decode in real time. With optional motion-based advertising and battery-level reporting, it helps you maintain pinpoint visibility over your most critical resources.

Ultra-Thin Form Factor

At just 1.5–2.5 mm thick, the flexible PVC construction suits tight spaces or curved surfaces, simplifying deployment.

Configurable Advertisement Interval

Adjust between 100 ms and 10 s to balance power consumption and real-time detection.

Long Battery Life

A built-in 450mAh Li-MnO₂ battery can last up to 52 months at a 5 s interval without an accelerometer.

Movement & Battery Reporting (Optional)

Enable motion-based broadcast or battery-level alerts for dynamic asset monitoring.

AoA Support (Optional)

Pair with AoA-capable gateways for high-precision positioning, enhancing location granularity.

iBeacon Protocol

Seamless integration with Bluetooth 5.0 receivers, ensuring broad compatibility across asset-tracking applications.

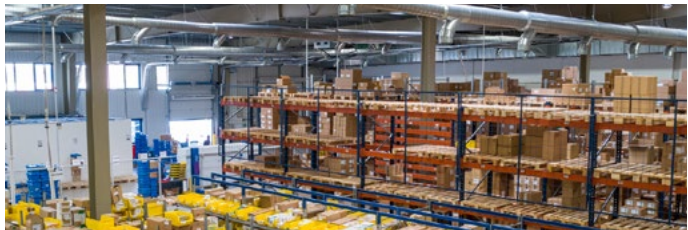


SCENARIO



HOSPITAL ASSET TRACKING

Affix labels to critical tools or devices, such as infusion pumps or portable imaging systems. Automatic location updates ensure rapid retrieval, reducing losses and improving patient care.



WAREHOUSE MANAGEMENT

Streamline inventory by labeling crates, pallets, or high-value items. Optional accelerometer-based advertising helps detect unauthorized movement or mishandling events.



RETAIL & EVENT OPERATIONS



SMART HOME & OFFICE

Deploy on merchandise or promotional materials in pop-up stores and exhibitions. Track foot traffic patterns, item interactions, and replenish stock quickly to meet demand.

Attach to personal belongings or shared office resources (e.g., laptops, conference room equipment). The BLE beacons allow easy device lookup, reducing time spent on searches and losses due to misplacement.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.0, iBeacon
RF Power	-20~+4dBm
Advertise Interval	100ms~10s
Transmission Distance	150m sight distance

MECHANICS

Material	PVC
Colour	Blue in default, Customizable
Dimension	90*60*1.5mm, Thickness: 1.5~2.5mm.
Operating Temperature	-35°C~+75°C
Storage Temperature	-45°C~+85°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	10g
Installation Method	Double-side adhesive paste

POWER

Battery	Li-MnO ₂ , non-replaceable
Battery Capacity	450mAh
Battery Life	104 months @ 0dBm, 5s advertisement interval (with accelerometer) 124 months @ 0dBm, 5s advertisement interval (without accelerometer)
Standby Current	≤5μA
Peak Current	8mA
Average Current	5μA @ 0dBm, 5s advertising interval, (with accelerometer) 4.2μA @ 0dBm, 5s advertising interval, (without accelerometer)

ORDERING INFORMATION

Product Description	Part Number
BLE Label, ibeacon, 500mAh	100-OB002

B003 Bluetooth Beacon

The Lansitec B003 Bluetooth Beacon is a compact triangular device that makes lost-and-found scenarios a breeze. Powered by a single CR2032 battery, it can last up to 765 days with typical usage (5 s advertisement interval). Its built-in buzzer sounds alerts when activated via a Bluetooth command—handy for locating misplaced belongings or issuing SOS signals. With iBeacon compatibility, 150 m line-of-sight coverage, and an optional AoA feature for precise positioning, the B003 Beacon is ideal for personal items, staff monitoring, and asset management across various industries.

Compact Triangular Design

Sleek, 37 mm-sided form factor (7.5 mm thick) that fits easily on keychains, lanyards, or inside bags.

Buzzer & SOS Button

Trigger audible alerts for lost-and-found or emergency signals when connected to a compatible gateway or mobile app.

Extended Battery Life

A single CR2032 battery (220 mAh) provides up to 765 days of operation at a 5 s advertising interval.

iBeacon & Optional AoA

Broadcast iBeacon packets for straightforward integration with most Bluetooth gateways; enable AoA for more precise location data.

Low Power Alarms & LED

Receive warnings when the battery is running low; LED and buzzer guide the user during pairing or reconfiguration.

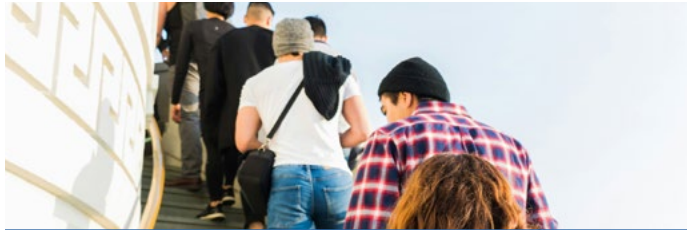


SCENARIO



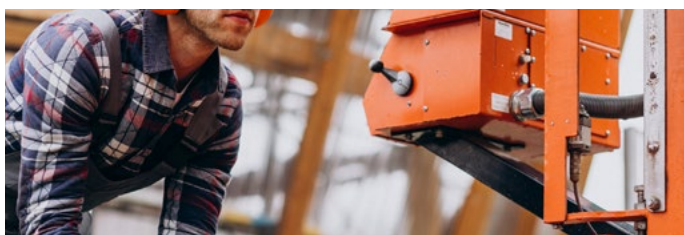
PERSONAL ITEM TRACKING

Attach the beacon to keys, wallets, or other daily essentials. If misplaced, activate the buzzer or use the real-time location data to find items quickly, minimizing downtime and frustration.



PERSONNEL TRACKING

Provide employees or visitors with the beacon in large facilities. Combine with BLE gateways to detect real-time whereabouts, ensuring security and prompt responses to emergencies or restricted-area violations.



SHARED ASSET MANAGEMENT

Track multi-user resources—like projectors, tools, or safety equipment—to see who has them, where they are in use, and receive alerts if they're taken beyond authorized boundaries.



TRAVEL & LUGGAGE

Slip a beacon into suitcases or backpacks before traveling. Whether at busy airports or hotel lobbies, the buzzer function offers an instant alert if your luggage moves unexpectedly, preventing mix-ups or theft.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.0, iBeacon
RF Power	-20~+5dBm
Advertise Interval	100ms~10s
Transmission Distance	150m sight distance

MECHANICS

Material	ABS
Colour	Black/White/Green/Pink
Dimension	Equilateral triangle, 37mm side length; thickness 7.5mm
Hole Size	2.8mm
Weight	6.8g
Operating Temperature	-20°C~+70°C
Storage Temperature	-25°C~+75°C
Operating Humidity	5% ~ 95% (non-condensing)
Installation Method	Double-Side Tape; Lanyard; Key Chain

FUNCTIONS

Power Button and SOS Button	Support
Buzzer	Support *It can be activated via a Bluetooth command, for lost and found
Low Power Alarm	Support
LED	Support
Accelerometer (optional)	Support
Barometer (optional)	Pressure Range: 300mBar ~1200mBar Pressure Temperature Sensitivity: < 0.5Pa/K Pressure Sensor Precision: ± 0.005 hPa (or ±5 cm)

POWER

Battery	CR2032
Battery Capacity	220mAh
Battery Life	48 months @ 0dBm, 5s advertisement interval (with accelerometer) 58 months @ 0dBm, 5s advertisement interval (without accelerometer)
Standby Current	≤5μA
Peak Current	8mA
Average Current	5μA @ 0dBm, 5s advertising interval, (with accelerometer) 4.2μA @ 0dBm, 5s advertising interval, (without accelerometer)

ORDERING INFORMATION

Product Description	Part Number
B003 Bluetooth tag, 37mm side length, 220mAh	100-02196

i3 Portable Bluetooth Tag

Unlock effortless asset and personnel tracking with the Lansitec i3 Portable Bluetooth Tag. Featuring a compact 38 × 25 × 5 mm design, this beacon advertises iBeacon packets continuously and can broadcast up to six distinct frames. Powered by a CR2032 coin cell, it delivers up to 765 days of battery life under typical conditions. Thanks to its built-in 3D accelerometer, the tag can dynamically report movement data—ideal for monitoring medical equipment, vehicles, or any items in motion. The optional AoA (Angle of Arrival) feature further refines location accuracy for environments requiring pinpoint tracking.

Ultra-Compact Build

Fits easily on medical devices, office equipment, or personal belongings without adding bulk.

Multi-Frame Advertising

Supports up to six simultaneous beacon frames for richer data broadcasts (e.g., iBeacon plus custom telemetry).

3D Accelerometer

Triggers dynamic movement-based advertising to capture usage patterns or detect unauthorized activity.

Flexible Triggers

Configure advertisement intervals (100 ms to 10 s) and power levels (-20 dBm to +5 dBm) to balance battery usage and detection range.

Extended Battery Life

With a 220mAh CR2032 battery, it can run up to 765 days on a 5 s interval at 0 dBm, minimizing maintenance.

Optional AoA Support

Paired with AoA-capable gateways, achieves more accurate location tracking in crowded or multi-floor indoor environments.



SCENARIO



HOSPITAL ASSET TRACKING

Affix the beacon to portable imaging devices, patient transport carts, or medication boxes for real-time location updates. Accelerometer data reveals usage frequency, while battery-saving intervals reduce overhead.



PERSONNEL TRACKING

Issue tags to staff in high-security environments (labs, server farms). The 3D accelerometer triggers location broadcasts only upon movement, prolonging battery life while retaining accurate logs of who goes where.



TOOL INVENTORY

Keep close tabs on power tools or specialized equipment in workshops. Movement-based broadcasts reveal usage rates and movement data, helping managers coordinate maintenance schedules.



SMART RETAIL & EVENTS

Equip conference badges or promotional items with multi-frame beaconing. Organizers track crowd flow and engagement in real time, enhancing visitor experiences and capturing actionable insights for marketing or security purposes.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.0, iBeacon
RF Power	-20~+5dBm
Advertise Interval	100ms~10s
Transmission Distance	150m sight distance

MECHANICS

Material	ABS
Colour	White
Dimension	38*25*5mm
Hole Size	3mm
Weight	6.2g
Operating Temperature	-20°C~+70°C
Storage Temperature	-25°C~+75°C
Operating Humidity	5% ~ 95% (non-condensing)
Installation Method	Double-side adhesive paste

POWER

Battery	CR2032
Battery Capacity	220mAh
Battery Life	48 months @ 0dBm, 5s advertisement interval (with accelerometer) 58 months @ 0dBm, 5s advertisement interval (without accelerometer)
Standby Current	≤5μA
Peak Current	8mA
Average Current	5μA @ 0dBm, 5s advertising interval, (with accelerometer) 4.2μA @ 0dBm, 5s advertising interval, (without accelerometer)

ORDERING INFORMATION

Product Description	Part Number
Bluetooth tag, 38x25x5mm, 220mAh	100-02198

i5 Wearable Bluetooth Beacon

The Lansitec i5 Wearable Bluetooth Beacon pairs a compact, IP65-rated beacon core with a comfortable silicone gel band—ensuring reliable, water-resistant performance in hospitals, care centers, event venues, and more. Powered by a single CR2032 battery, it continuously broadcasts iBeacon messages (with customizable intervals) for up to two years at 0 dBm. This durable bracelet is ideal for monitoring patients, visitors, or staff who need to be tracked in real time, helping improve safety protocols and operational efficiency. An optional AoA upgrade enables precision location services, further enhancing the beacon's value in security-sensitive or healthcare environments.

IP65 Water Resistance

Fully sealed beacon core withstands splashes, dust, and submersion, making it suitable for frequent sanitization or outdoor usage.

Comfortable Silicone Gel Band

Durable yet gentle on skin; easily adjustable for different wrist sizes in patient or visitor applications.

Extended Battery Life

A CR2032 (220mAh) cell provides up to 2 years of continuous broadcasting at 0 dBm/5 s intervals.
Multiple Power Settings – RF power adjustable from -40 to +4 dBm, plus advertisement intervals from 100 ms to 10 s to balance energy consumption and detection range.

Optional AoA Support

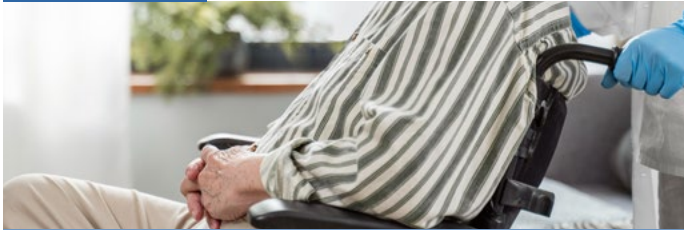
Combine with AoA-capable gateways to achieve sub-meter accuracy for high-priority tracking.

Lightweight & Low Profile

Weighs just 21 g in total (7.8 g main body + band), offering ease and comfort for daily wear.



SCENARIO



PATIENT SAFETY & TRACKING

Monitor patient movements in hospitals or care facilities to ensure timely treatment and prevent wandering. In emergencies, instantly identify the patient's location for faster response.



PERSONNEL SECURITY

Assign wearable beacons to staff working in sensitive environments (labs, server rooms), triggering alerts if they approach unauthorized zones or need immediate assistance.



RECREATION & SPORTS

Arm participants with waterproof, lightweight tags for events like marathons or group activities. Organizers can track progress, record times, and quickly handle on-site medical or security incidents.



WORKPLACE TIMEKEEPING

Use the i5 Beacon as an automated check-in/check-out device for factory workers or contractors operating in large facilities. The hands-free beacon logs location-based timestamps, reducing manual paperwork while improving attendance accuracy.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.0, iBeacon
RF Power	-40~+4dBm
Advertise Interval	100ms~10s
Transmission Distance	150m sight distance

MECHANICS

Material	Main: ABS, Band: silicon gel
Colour	Main: white, Band: black
Dimension	34.5*9.0mm
Weight	Main body: 7.8g; Total weight (with band): 21g
Operating Temperature	-20°C~+70°C
Storage Temperature	-25°C~+75°C
Operating Humidity	5% ~ 95% (non-condensing)
Ingress Protection	IP65

POWER

Battery	CR2032
Battery Capacity	220mAh
Battery Life	48 months @ 0dBm, 5s advertisement interval (with accelerometer) 58 months @ 0dBm, 5s advertisement interval (without accelerometer)
Standby Current	≤5μA
Peak Current	8mA
Average Current	5μA @ 0dBm, 5s advertising interval, (with accelerometer) 4.2μA @ 0dBm, 5s advertising interval, (without accelerometer)

ORDERING INFORMATION

Product Description	Part Number
BLE Beacon, BLE 5.0, 34.5x9mm, Silicon gel bracelet, IP65, 220mAh	100-000i5

B005 Bluetooth Beacon

Experience long-lasting, hassle-free Bluetooth tracking with the Lansitec B005 Bluetooth Beacon, a robust BLE device delivering up to five years of continuous operation at a 500 ms advertising interval. Equipped with two high-capacity CR2477 batteries (total 2000 mAh), it broadcasts iBeacon or AoA messages to compatible gateways within a 150 m line-of-sight range. The IP68-rated enclosure and optional temperature monitoring ensure reliable performance in challenging conditions—making this beacon perfect for healthcare facilities, fleet operations, and large-scale asset tracking.

Extended Battery Life

Two CR2477 coin cells (2000 mAh total) enable up to five years of operation at 0 dBm, 500 ms transmit intervals.

Configurable Broadcast

Advertisement intervals range from 100 ms to 10 s, with adjustable TX power from -20 dBm to +4 dBm.

IP68 Enclosure

Dustproof, waterproof design (82.1 × 63.2 × 21.3 mm) with optional integrated temperature sensor (±5 °C accuracy).

AoA (Optional)

Enhance location accuracy when paired with AoA-capable gateways, providing sub-meter asset or personnel tracking.

High Production Capacity

Scalable supply of over 300 k units per month for widespread deployments in hospitals, factories, or logistics centers.



SCENARIO



HOSPITAL ASSET TRACKING

Securely attach the beacon to essential medical gear (like ventilators, portable imaging devices) for multi-year tracking without frequent battery changes. Real-time location updates minimize the risk of lost or delayed equipment.



WAREHOUSE OPTIMIZATION

Place beacons on pallets or storage bins. The extended battery life allows them to remain in place for years, reducing maintenance overhead while providing continuous inventory visibility.



EXTREME-TEMPERATURE DEPLOYMENTS

Leverage the optional -40 °C to +125 °C battery configuration for cold storage facilities or hot industrial plants, preserving operational data in harsh conditions.



OUTDOOR EVENT MANAGEMENT

Deploy beacons at outdoor fairs or festivals under IP68 protection. AoA capabilities and optional buzzer features enable real-time geolocation of staff or temporary structures, optimizing crowd flow and safety.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.0, iBeacon, Bluetooth AoA
RF Power	-20~+4 dBm, configurable in 4 dBm steps
Sensitivity	-96dBm
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance
Supply Capacity	>300k/month
Frequency	2.4GHz

MECHANICS

Material	PC
Colour	White
Dimension	82.1 × 63.2 × 21.3mm (with the lug)
Weight	43g
Operating Temperature	-20°C~+70°C
Storage Temperature	-25°C~+75°C
Operating Humidity	5% ~ 95% (non-condensing)
Ingress Protection	IP68

FUNCTIONS

Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C Optional: -40°C~125°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Buzzer	Optional

POWER

Battery	CR2477 (1000mAh) x2
Battery Capacity	2000mAh
Battery Life	119 months @ 0dBm, 1s advertisement interval (with accelerometer) 124 months @ 0dBm, 1s advertisement interval (without accelerometer)

Average Current	5 μ A @ 0dBm, 5s advertising interval, (with accelerometer)
	4.2 μ A @ 0dBm, 5s advertising interval, (without accelerometer)

ORDERING INFORMATION

Product Description	Part Number
BLE Beacon, 82.1 × 63.2 × 21.3mm, IP68, 2000mAh	100-02395
Certification	CE, FCC

B006 Badge Bluetooth Beacon

Introducing the Lansitec B006 Badge Bluetooth Beacon—a versatile, badge-style transmitter designed for easy wear or attachment. Powered by either a 600 mAh rechargeable Li-ion battery or a 440 mAh non-rechargeable option, it offers up to one year of service at 0 dBm and a 1 s advertisement interval. Broadcasting iBeacon messages continuously, the B006 can be fine-tuned (100 ms to 5 s intervals) to balance coverage (up to 150 m) and battery longevity. Whether tracking hospital equipment or managing a mobile workforce, this compact beacon (95.4x61.4x7.3mm) offers flexible power choices, optional temperature sensing, and an AoA upgrade for precise location data.

Flexible Battery Options

Choose between a 600 mAh rechargeable battery or a 440 mAh non-rechargeable (2×CR2032) battery to suit specific operational needs.

Up to 1 Year Standby

Maintain reliable performance at 0 dBm with a 1 s broadcast interval, saving on maintenance checks.

Adjustable TX & Interval

Set transmit power from -20 dBm to +4 dBm and adjust advertisement intervals (100 ms to 5 s) for maximum efficiency or real-time detection.

Wide Coverage

Achieves a line-of-sight range of up to 150 m, ideal for industrial or campus-wide environments.

Optional AoA & Temperature Sensing

Unlock precise asset tracking or environment monitoring by pairing with AoA-capable gateways or adding the temperature sensor.

Robust Build

Lightweight ABS housing with optional buzzer integration for alerts or lost-and-found functionality.



SCENARIO



HOSPITAL ASSET TRACKING

Label medical devices, beds, or patient wristbands with a rechargeable or disposable beacon. Real-time location data minimizes the risk of equipment misplacement and ensures timely patient care.



WAREHOUSE AUTOMATION

Monitor pallets, carts, or staff ID badges in large distribution centers. The adjustable interval and power level let you balance real-time inventory checks with battery preservation.



FACILITY ACCESS CONTROL



EVENT CREDENTIALING

Integrate with ID management systems for employees or visitors. AoA support offers floor-level accuracy, while the buzzer feature enables audible prompts during restricted-area breaches.

Use the B006 as an event pass that logs entries, triggers location-based announcements, or assists in crowd flow analysis. The long standby time covers multi-day conferences without frequent battery swaps.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.0, iBeacon
RF Power	4dBm to -20dBm in a 4dBm step (Bluetooth 5.0)
Sensitivity	-97dBm
Advertise Interval	100ms ~ 5s adjustable
Coverage Range	150m sight distance
Supply Capacity	>300k/month

MECHANICS

Material	ABS
Colour	White
Dimension	95.4x61.4x7.3mm
Operating Temperature	-10°C~+65°C
Storage Temperature	-20°C~+80°C
Operating Humidity	5% ~ 95% (non-condensing)

FUNCTIONS

Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Buzzer	Optional

POWER

Battery Option 1	Li-ion rechargeable battery, 600mAh
Battery Option 2	440mAh (2 x CR2032) non-rechargeable battery
Battery Life	97 months @ 0dBm, 5s advertisement interval (with accelerometer) 116 months @ 0dBm, 5s advertisement interval (without accelerometer)
Average Current	5µA @ 0dBm, 5s advertising interval, (with accelerometer) 4.2µA @ 0dBm, 5s advertising interval, (without accelerometer)

ORDERING INFORMATION

Product Description	Part Number
BLE Beacon, BLE 5.0, 95.4x61.4x7.3mm, Li-ion 600mAh, rechargeable battery	100-03983
Certification	Exib II CT4

B010 Industrial Beacon

Meet the Lansitec B010 Industrial Beacon, an IP68-rated Bluetooth 5.0 device built for reliable tracking in harsh environments like factories, warehouses, and shipping yards. Powered by two CR2477 batteries, it can broadcast iBeacon messages for up to 9 years at 0 dBm and 1s interval. Its robust PC housing shields internal components from dust, moisture, and vibrations, while optional AoA support delivers precise positioning for high-value assets and personnel. With a maximum range of 100 m and user-configurable TX power and intervals, the B010 stands out as a durable, long-lasting beacon solution.

Long Battery Life

Achieves up to 9 years of continuous iBeacon broadcasts at 0 dBm and a one-second interval using two CR2477 batteries option.

IP68 Industrial Casing

Dustproof, waterproof PC enclosure (100×100×20 mm) withstands tough environments and temperature extremes.

Adjustable RF & Intervals

Fine-tune output power (-20 dBm to +4 dBm) and advertisement rate (100 ms to 5 s) for optimal coverage and battery efficiency.

Optional AoA Support

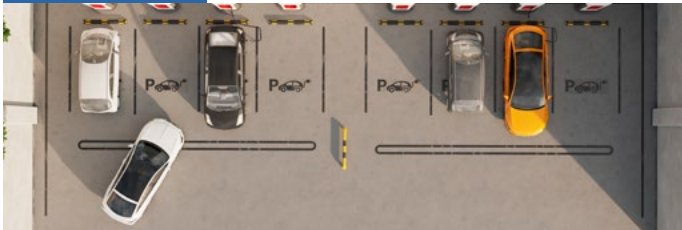
Improves real-time location tracking when paired with AoA-compatible gateways, making it ideal for large-scale production floors or busy distribution centers.

Optional AoA & Temperature Sensing

Unlock precise asset tracking or environment monitoring by pairing with AoA-capable gateways or adding the temperature sensor.



SCENARIO



VEHICLE TRACKING

Ideal for fleet yards, distribution hubs, or small vehicles in factories. Broadcast vehicle presence, enabling route optimization and reducing operational costs associated with idle time and unauthorized movement.



INDUSTRIAL WORKFLOW

Implement in factories to monitor material flow and coordinate forklift paths. The beacon's extended battery life and IP68 enclosure thrive amid dust, vibrations, and varying climates.



HEAVY-DUTY STORAGE

Label long-term storage containers outdoors or in partially covered areas. The CR2477 battery ensures year-round operation, even in freezing winters or scorching summers.



CONSTRUCTION & MINING

Track mobile assets or workers in rugged sites. AoA compatibility offers detailed location data, helping managers keep staff safe and respond promptly to equipment relocations or anomalies.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.0, iBeacon
Frequency	2.402GHz to 2.480GHz
TX Power	-20 to +4 dBm TX power, configurable in a 4 dBm step
Sensitivity	-96dBm
Range	Up to 100m
Advertising Interval	100ms ~ 5s, configurable in a 100ms step, 1s in default
UUID by Default	F2-A5-2D-43-E0-AB-48-9C-B6-4C-4A-83-00-14-67-20
Antenna	PCB Antenna

MECHANICS

Dimension	100*100*20mm
Weight	150g
Ingress Protection	IP68
Housing Material	PC
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-25°C ~ +75°C
Operating Humidity	5% ~ 95% (non-condensing)

POWER

Battery	2xCR2477, 2000mAh
Battery Life	124 months @ 0dBm and 1s advertisement interval

ORDERING INFORMATION

Product Description	Part Number
Industrial Beacon, BLE 5.0, 100*100*20mm, 2000mAh	100-OB010

B011 Helmet Beacon

The Lansitec B011 Helmet Beacon is purpose-built for industrial, healthcare, or security contexts where reliable, long-lasting Bluetooth tracking is crucial. Equipped with a 1,200 mAh rechargeable Li-ion battery, it can run for up to a year at 0 dBm and a 0.5 s broadcast interval. Its IP66-rated ABS/PC housing shields the beacon from dust and water, making it suitable for rugged environments. Supporting iBeacon and optional AoA protocols, the B011 ensures precise indoor/outdoor tracking—even at distances up to 150 m—while optional temperature monitoring adds another layer of situational awareness.



Extended Battery Life

Sustain up to a year of continuous advertising at moderate intervals; ideal for helmets, machinery, or roaming assets.

Robust Construction

IP66 enclosure withstands heavy use in warehouses, factories, and outdoor sites.

Adjustable RF & Intervals

Set RF power from -20 to +4 dBm and advertisement intervals from 100 ms to 10 s to optimize power usage and detection range.

AoA (Optional)

Achieve superior location accuracy with angle-of-arrival gateways, crucial for high-security or high-precision tracking.

Temperature Sensing (Optional)

Monitor ambient conditions ($\pm 5^{\circ}\text{C}$ accuracy) in demanding setups, from construction sites to medical wards.

Buzzer Support

Enable audible alerts for lost-and-found scenarios, emergency notifications, or status confirmations.

SCENARIO



VEHICLE TRACKING

Attach to hardhats used by drivers or forklift operators in large depots. The beacon's robust build and year-long battery ensure consistent updates without frequent battery changes.



INDUSTRIAL WORKFLOW

Place on helmets worn by workers in heavy manufacturing or construction sites. AoA compatibility provides pinpoint positioning for improved safety oversight and efficient team coordination.



OUTDOOR EQUIPMENT



MAINTENANCE SCHEDULING

Use the IP66-rated beacon on external power tools or rolling stock in challenging conditions. Extended coverage (up to 150 m) ensures location signals remain strong over extensive work areas.

Integrate temperature data and usage intervals to predict maintenance needs on equipment or protective gear. Automate restock alerts and safety checks based on reliable, real-time telemetry.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.1, iBeacon, Bluetooth AoA
RF Power	-20~+4 dBm, configurable in 4 dBm steps
Sensitivity	-96dBm
Advertise Interval	100ms ~ 10s adjustable
Coverage Range	150m sight distance
Supply Capacity	>300k/month
Frequency	2.4GHz

MECHANICS

Material	ABS and PC
Colour	White
Dimension	81.4*76*35mm
Weight	90g
Operating Temperature	-10°C~+65°C; optional: 1200mAh battery, -40°C~+125°C
Storage Temperature	-25°C ~ +75°C
Operating Humidity	5% ~ 95% (non-condensing)
Ingress Protection	IP66

FUNCTIONS

Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-15°C~65°C
Temperature Accuracy	Chamber temperature in the beacon, ±5°C
Temperature Resolution	0.25°C
Buzzer	Optional

POWER

Battery	1200mAh Li-ion rechargeable battery
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ORDERING INFORMATION

Product Description	Part Number
BLE Beacon, BLE 5.0, 81.4*76*35mm, IP66, 1200mAh rechargeable Li-ion battery	100-OB011
Certification	CE, FCC

B014 Flex Tag

Achieve ultimate installation flexibility with the Lansitec Flex Tag. Built with a soft, adhesive-friendly silicone gel base, this beacon effortlessly attaches to curved, uneven, or cylindrical surfaces—making it perfect for tracking tools, medical supplies, or equipment with non-flat exteriors. Measuring just 40 × 25 × 18.6 mm, it continuously broadcasts iBeacon packets and supports up to six unique advertising frames. Two CR1225 batteries power the device for up to 3 years in typical usage scenarios.

Attach Everywhere

This beacon effortlessly attaches to curved, uneven, or cylindrical surfaces

Multi-Frame Advertising

Supports up to six simultaneous beacon frames for richer data broadcasts (e.g., iBeacon plus custom telemetry).

Flexible Triggers

Configure advertisement intervals (100 ms to 10 s) and power levels (-20 dBm to +4 dBm) to balance battery usage and detection range.

Extended Battery Life

With two 50mAh CR1225 batteries, it can run up to 3 years on a 10s interval at 0 dBm, minimizing maintenance.



SCENARIO



EASY AND VERSATILE INSTALLATION

Designed with a soft silicone gel base, the Flex Tag conforms to a wide variety of surfaces—including curved, irregular, or cylindrical shapes—without the need for additional brackets or adhesives. Simply press it onto the target surface for a secure, long-lasting hold, making deployment quick and hassle-free in any environment.



TOOL INVENTORY

Keep close tabs on power tools or specialized equipment in workshops. Movement-based broadcasts reveal usage rates and movement data, helping managers coordinate maintenance schedules.



HOSPITAL ASSET TRACKING

Affix the beacon to portable imaging devices, patient transport carts, or medication boxes for real-time location updates. Accelerometer data reveals usage frequency, while battery-saving intervals reduce overhead.



PERSONNEL TRACKING

Issue tags to staff in high-security environments (labs, server farms). The 3D accelerometer triggers location broadcasts only upon movement, prolonging battery life while retaining accurate logs of who goes where.

SPECIFICATIONS

Bluetooth

Bluetooth Protocol	5.0, iBeacon
TX Power	-20 to +4 dBm TX power, configurable in 4 dB steps
Advertise Interval	100ms to 10s
Sensitivity	-96dBm
Transmission Distance	150m sight distance
Positioning Accuracy	3m
Antenna	PCB Antenna

Physical Parameters

Dimension	40*25*18.6mm
Operating temperature	-20°C~+60°C
Housing Material	Silicone gel
Weight	6.3g
Ingress Protection	IP65

Power

Standby current	16μA
Max. Current	8mA
Battery	CR1225 50mAh x 2, Non-replacable battery
Standby time	3 years (0dBm, 10s advertising interval)

Please refer to our battery calculator for details.

Function

Magnet Button	Support
Status LED	Support
FOTA over Bluetooth	Support
Battery level report	Support

Certification	CE, to be obtained
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ORDERING INFORMATION

Product Description	Part Number
BLE Beacon, Flex tag, iBeacon, silicon gel, 40x25x18.6mm, 100mAh	100-OB014

Lansitec Smart Wristband

The Lansitec Smart Wristband goes beyond basic tracking by incorporating motion-sensor-based positioning (1–3 m accuracy), health monitoring (skin temperature, heart rate, blood pressure, steps), and an SOS button for emergency assistance. Featuring wear detection, the device automatically enters a low-power mode when it's not on a user's wrist—extending its battery life (4–10 days under normal usage). A 160 mAh rechargeable battery provides more than one month of standby, while the magnetic charging port allows full recharging in just 1.5 hours. Its compact form factor, real-time alerts for low power/shutdown, and iBeacon broadcasting capability make the Wristband a versatile choice for patient care, workforce safety, or visitor oversight.

Indoor/Outdoor Tracking

Tracks location via BLE with 1–3 m accuracy and automatically reports data as configured.

Vital Sign Monitoring

Reads skin temperature, heart rate, blood pressure, and step count for continuous health insights.

Wear Detection & Power Saving

Switches to low-power mode when not worn, prolonging battery life (up to 4–10 days under normal use).

SOS Button

Triggers alarm messages, starts positioning, and reports health metrics immediately in emergencies.

Magnetic Charging

Recharges the 160 mAh battery in around 1.5 hours, providing more than one month standby time.

Low Power/Shutdown Alerts

Notifies the user of critical battery levels or device shutdown for uninterrupted tracking.



SCENARIO



PATIENT SAFETY & CARE

Track patient movement across wards or care facilities. Monitor vital signs in real time, and respond faster to wandering or emergency calls.



HEALTHCARE COORDINATION

Enhance operational efficiency with accurate, real-time information on patient positions—streamlining handovers, reducing delays, and minimizing miscommunication among caregivers.



VISITOR OVERSIGHT

Provide guests with temporary bracelets at large events, theme parks, or secure compounds. Track crowd flow, retrieve health metrics (if applicable), and quickly address lost or off-limits scenarios.



LONG-TERM PATIENT MONITORING

Deploy for patients needing extended observation—e.g., in rehab centers or senior homes. Blood pressure, temperature, and step counts empower staff to detect anomalies promptly and deliver proactive care.

SPECIFICATIONS

CONNECTIVITY

Bluetooth Protocol	5.0, iBeacon
Bluetooth Function	BLE (Bluetooth Low Energy)
OTA via Bluetooth	Support
Positioning Accuracy	1~3m

MECHANICS

Dimensions	43*23*13mm
Weight	25g
Operating Temperature	-10°C~+65°C
Storage Temperature	-20°C~+80°C
Operating Humidity	5% ~ 95% (non-condensing)
Waterproof Level	IP67
Wristband	TPU
Colour	Black by default

DISPLAY

Screen Resolution	64x32, White OLED
Screen Size	0.49 inch
LED	2 LED lights (red and blue)

POWER

Battery	160mAh, 3.8V
Battery Life	More than 1 month
Normal Usage	4~10 days (depends on positioning frequency)
Charging Method	Magnetic adsorption charging
Charging Time	1.5 hours

FUNCTIONS

LED	Physical Button	Skin Temperature	Blood Pressure	Heartbeat	Step Count
Support	Support	Support	Support	Support	Support
Vibration Motor	SOS Function	Wear Detection	RFID	Touch Button	WiFi
Support	Support	Support	Optional	Not Support	Not Support

ORDERING INFORMATION

Product Description	Part Number
Wristband, BLE, OLED 0.49inch, Step count, Heartrate, skin temperature, Blood Pressure, IP67, 160mAh	100-18363



BACK

LANSITEC®



LoRaWAN Sensor

Valve Positioning Sensor

Lansitec's valve position sensor uses LoRaWAN/Cat-1 technology and a built-in magnetic sensor to track the total number of valve rotations and rotation angle with an accuracy of up to 1°.

This compact device can measure rotation direction, total turns, and the angle within a single rotation, and report real-time data to a LoRaWAN gateway or carrier base station. It also supports FOTA firmware upgrades via Bluetooth. Designed for industrial and municipal environments, the device delivers reliable performance while significantly reducing maintenance requirements.

1° Rotation Accuracy

Precisely detect forward or reverse valve turns within a 360° range, enabling efficient and accurate monitoring.

Compact Design

Small footprint makes for easy installation where space is at a premium.

LoRaWAN / 4G Cat-1 Connectivity

LoRaWAN enables a data transmission range of over 1 km in urban environments, while 4G Cat-1 supports data reporting over cellular networks.

Long Battery Life

Dual 2800mAh batteries (5600mAh total) support around 10 years of typical usage.

FOTA Over Bluetooth

Update firmware without disassembling or uninstalling the sensor.

3D Accelerometer

G-sensor allows for additional motion-based detection and system calibration.

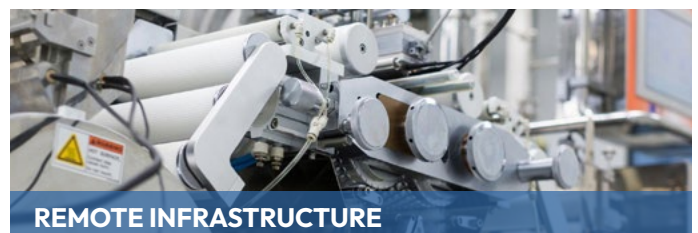


SCENARIO



MUNICIPAL WATER MANAGEMENT

Oversee distribution valves across urban networks. Track valve angles and usage to schedule preventive maintenance and reduce water loss or unauthorized alterations.



REMOTE INFRASTRUCTURE

Install on valves in distant or hard-to-reach locations such as hydroelectric dams or remote pumping stations; real-time angle reports allow quick operational decisions without physical inspections.



SMART IRRIGATION

Track rotation of irrigation valves on large farms or golf courses, ensuring timely watering schedules and detecting issues before crops or landscapes are impacted.

SPECIFICATIONS

MECHANICS

Dimension	78*79*35mm
Weight	133g
Ingress Protection	IP68
Housing Material	PC and ABS
PCB Coating	Water proof coating
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-10°C ~ +30°C
Operating Humidity	0% ~ 95% (non-condensing)
Network Mode	LoRaWAN/4G Cat-1

POWER

Battery	2800mAh*2
Standby Current	20μA
Standby Time	Approximately 10 years (LoRaWAN supports 5 valve status reports per day, 4G Cat-1 supports 3 valve status reports per day)

FUNCTIONS

Angle Accuracy	1°
Report Delay	5s
Max. Number of Turns	1000 turns
Degree Range	0°~360°
FOTA over Bluetooth	Support
3D Accelerometer	Support
Calibration	Support

CONNECTIVITY

Activation Mode	OTAA or ABP
LoRa Frequency	US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CN470, CN470-Ali

LoRa TX power	0 to 14 dBm
LoRa Sensitivity	-137 dBm @ SF12, BW 125 kHz
LoRa Communication Distance	>1 km in an urban area
Encryption	AES128

ORDERING INFORMATION

Product Description	Part Number
Rotary Valve Sensor, LoRaWAN, 5600mAh	100-000S1

Temperature & Humidity Sensor

The Lansitec Temperature & Humidity Sensor leverages LoRaWAN technology for long-range connectivity and is powered by a 19,000mAh lithium thionyl chloride battery for up to 5 years of operation. Its IP65-rated enclosure makes it ideal for outdoor deployments in harsh environments, and the device can be easily managed via LoRaWAN downlink commands. Its compact design, cost-effective operation, and auto-calibration features ensure consistent performance with minimal maintenance.

Wide Measurement Range

Temperature from -15°C to +65°C ($\pm 0.3^{\circ}\text{C}$), and humidity from 0% to 99% ($\pm 3\%$).

Long Battery Life

19,000mAh battery provides up to 5 years of service, reducing replacement costs and downtime.

Robust Enclosure

IP65 protection and ABS housing safeguard against dust, water, and extreme temperatures (-20°C to $+70^{\circ}\text{C}$).

Flexible Connectivity

LoRaWAN 1.0.2B protocol, supporting frequencies like EU868, US915, AS923, etc., up to 2km range.

Auto-Calibration & Low Maintenance

Built-in auto-calibration ensures reliable data without frequent manual intervention.

Easy Integration

Works with Lansitec's wireless data transfer unit or existing LoRaWAN networks for rapid deployment.



SCENARIO



COLD CHAIN MONITORING

Ensure consistent temperature and humidity levels for perishable goods throughout transport. Early detection of environmental deviations helps prevent spoilage, reduce losses, and maintain product quality.



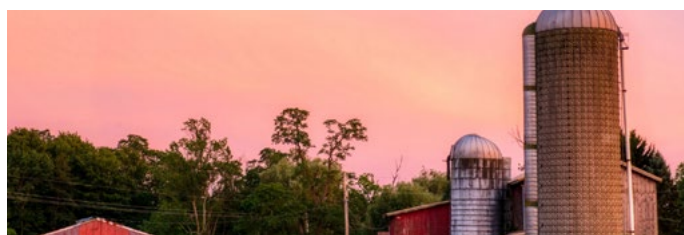
TRANSFER MANAGEMENT

Monitor cargo conditions in real time during shipping or routing, enabling timely adjustments. Any anomalies trigger alerts, minimizing costly delays or damage to products.



GREENHOUSE FARMING

Maintain ideal humidity and temperature for plants, improving yield and resource efficiency. Automatic monitoring helps farmers react quickly to changes in environmental conditions.



REMOTE AGRICULTURAL STORAGE

Deploy in granaries, barns, or crop storage facilities. Maintain optimal climate conditions to prevent mold, pests, or spoilage, preserving product value and reducing wastage.

SPECIFICATIONS

CONNECTIVITY

LoRaWAN Protocol	LoRaWAN 1.0.2B
LoRa Frequency	US915, AU915, EU868, EU433, AS923, RU864, KR920, IN865, CN470
LoRa Distance	>2km
LoRa Sensitivity	SF=7≤-126dBm, SF=10≤-136dBm, SF=12≤-142dBm
Transmit Power	Maximum 20dBm, adjustable
Network Structure	Star/Peer to peer

MECHANICS

Dimension	ABS, 109*86*55mm
Weight	225g
Operating Temperature	-20°C~70°C
Operating Humidity	5%~95%
Temperature Measurement Range	-15°C~65°C, ±0.3°C
RH Measurement Range	0%~99%, ±3%
IP Protection	IP65
Antenna	Internal/External
Calibration	Auto calibration

POWER

Battery	19000mAh lithium thionyl chloride
Battery Life	5 Years

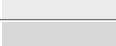
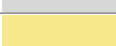
ORDERING INFORMATION

Product Description	Part Number
Temperature and Humidity Sensor, EU868, 19Ah	100-00139
Temperature and Humidity Sensor, AS923, 19Ah	100-00141
Temperature and Humidity Sensor, AU915, 19Ah	100-00193
Temperature and Humidity Sensor, US915, 19Ah	100-00194
Temperature and Humidity Sensor, RU864, 19Ah	100-00195

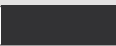
LoRaWAN Temperature & Humidity Sensor

Temperature and Humidity Sensor, IN865, 19Ah	100-00196
Temperature and Humidity Sensor, KR920, 19Ah	100-00203
Temperature and Humidity Sensor, CN470, 19Ah	100-00051
Certification	CE, FCC, RCM

Lanyard

Product Description	Part Number	
Lanyard, safety buckle, blue, 460x15x0.7mm	100-02360	
Lanyard, safety buckle, light blue, 460x15x0.7mm	100-02513	
Lanyard, safety buckle, black, 460x15x0.7mm	100-02472	
Lanyard, safety buckle, white, 460x15x0.7mm	100-02473	
Lanyard, safety buckle, grey, 460x15x0.7mm	100-02474	
Lanyard, safety buckle, yellow, 460x15x0.7mm	100-02500	
Lanyard, safety buckle, red, 460x15x0.7mm	100-02511	
Lanyard, safety buckle, pink, 460x15x0.7mm	100-02512	



Product Description	Part Number	
Lanyard, safety buckle, 150x20x0.7mm	100-02520	



Clip

Product Description	Part Number	
Badge Tracker Clip, grey, 85x22x7mm	100-02515	



USB Charge Station

Dimension	245*126*78mm
USB Ports	40/350W
Output Voltage	5V
Output Current	0.1A~2.4A
Power Mode	ACC 200V 50/60Hz
Weight	2kg
Function	Support short-circuit and over-current protection
Certification	CE



Product Description	Part Number
USB charger, 40 ports, 1A	100-02980