

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*33mm
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

Battery	Li/SOCI2 4000mAh x 2
GNSS (report interval > 10minutes)	Approx. 16,000 times
Bluetooth Positioning	Approx. 36,000 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	5s x n (1 to 65536)
Heartbeat Report Interval	30s x n (1 to 65536)
Switch	Magnetic Reed
Temperature Report	Optional, please advise Lansitec upon ordering
Temperature Sensor Range	-40°C~+85°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, 205x31x26, 2x4000mAh	100-02394
Container Tracker, IN865, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-02702
Container Tracker, EU868, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-02393
Container Tracker, US915, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-00160
Container Tracker, RU864, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-02705
Container Tracker, AU915, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-02706
Container Tracker, KR920, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-02707
Container Tracker, ID920, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-02708
Container Tracker, CN470, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-02709
Container Tracker, CN470-Ali, Bluetooth5.0, GNSS, 205x31x26, 2x4000mAh	100-02710