

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 (2x4000 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 (-45 °C to +85 °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, Eddystone, 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
FFD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TTD	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*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	130g
PCB Coating	Water proof coating

Power

Battery	Li/SOCI2 2x4000mAh
GNSS (report interval > 10minutes)	Approx. 11,000 times
Bluetooth Positioning	Approx. 24,000 times
Standby Current	25µA
Max. Current	200mA

Functions

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
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, 205x31x26, 2x4000mAh, IP68	100-00C11