

## 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.

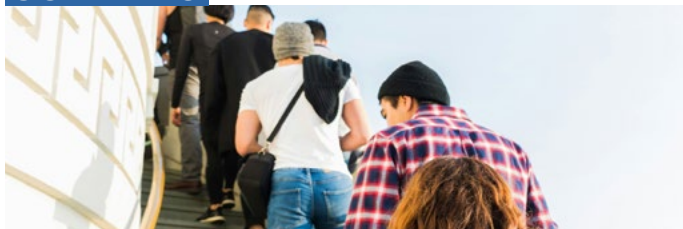
### FOTA Over Bluetooth

Update firmware wirelessly, reducing manual interventions.

### Scalable Integration

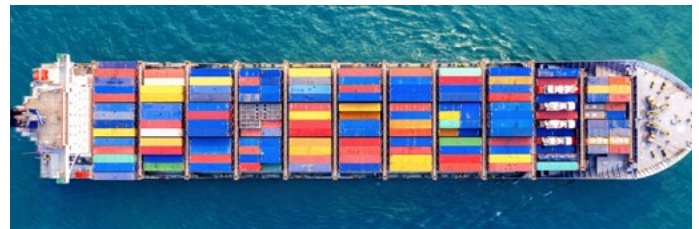
Supports up to eight UWB anchors and can coexist with multiple tracker types (badge, asset) in the same network.

## 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

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

### UWB

Regions	Europe	US	Japan	S.Korea	Singapore	China
<b>Frequency Band</b>	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
<b>Receiving Range</b>	Up to 23m					
<b>Max. Number of Anchors Supported</b>	8					

### Physical Parameters

<b>Dimension</b>	198x28x33mm
<b>Ingress Protection</b>	IP68
<b>Operating Temperature</b>	-45°C ~ +85°C
<b>Storage Temperature</b>	-60°C ~ +90°C
<b>Operating Humidity</b>	0% ~ 95% (non-condensing)
<b>Housing Material</b>	PC and ABS
<b>Weight</b>	133g

## Power

<b>Standby Current</b>	5µA
<b>Switch</b>	Support
<b>Status LED</b>	Support
<b>Buzzer</b>	Support
<b>Battery</b>	Li/SOCI2 4000mAh x 2
<b>Charging Method</b>	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
<b>Anchor Battery Life @ 76000mAh</b> 10s advertise interval	18 years	10 years	4.8 years
<b>Tracker Battery Life @ 600mAh</b> 60s report interval	37 days	32 days	25 days
<b>Container &amp; Asset Management Tracker Battery Life @ 8000mAh</b>	16 months	13 months	11 months

## Functions

<b>Adjustable Position Report Interval</b>	5s x n (1 to 65536)
<b>Heartbeat Report Interval</b>	30s x n (1 to 65536)
<b>FOTA over Bluetooth</b>	Support
<b>Multiple Bluetooth gateway LoRaWAN report synchronization</b>	Sync the clock and LoRaWAN report
<b>TDMA</b>	Support
<b>Bluetooth Data Compression</b>	Support
<b>Configurable Bluetooth data filter and payload report</b>	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, 28x33x198mm, IP68, 8,000mAh	100-000U2
<b>Certification</b>	CE, FCC