

## 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 IP66 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 & IP66

Handles temperatures from -45°C to +85°C and resists dust and water.

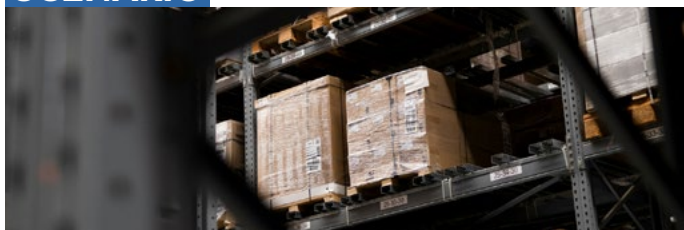
### Extended Battery Operation

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

<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>	78x79x35mm with the mounting lugs; 78x66x35mm without the mounting lugs
<b>Ingress Protection</b>	IP66
<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>	135g

### Power

<b>Standby Current</b>	5µA
<b>Switch</b>	Support

## LoRaWAN UWB Asset Management Tracker

<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

<b>Number of Trackers Supported</b>	<b>64 units</b>	<b>192 units</b>	<b>512 units</b>
<b>Anchor Battery Life @ 38000mAh</b>	18 years	10 years	4.8 years
<b>Tracker Battery Life @ 600mAh</b>	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

<b>Product Description</b>	<b>Part Number</b>
UWB Asset Management Tracker, LoRaWAN, BLE5.0, 78x66x35mm, IP66, 8000mAh	100-000U4
<b>Certification</b>	CE, FCC