

Exafore Horizon Positioning Tag

Applications

- Asset tracking
- Remote 3D tracking and guidance of personnel
- Tool tracking
- User identification
- Collision avoidance of industrial vehicles
- Proximity Detection
- Dynamic range measurement



General Description

Exafore L1 is a lightweight mobile locator equipped with Ultra-wideband (UWB) radio and 6-axis inertial sensor.

Benefits

- Accurate Round-Trip-Time (RTT) distance measurement allows 2D and 3D tracking of moving objects
- Tailored algorithms combining distance measurements and inertial sensor data offer decimetre level accuracy real-time
- Comes with IP67 rated PC/ABS casing and an optional lightweight holder making it very suitable for harsh and varying conditions in industrial facilities and warehouses
- Optimized UWB communication and sensor-based dynamics monitoring increase lifetime of the Li-Po battery up to several months
- Automatically connects to Exafore UWB Positioning System and starts distance measurements to all visible Base Stations
- Sensor data delivered to User API

Product Features

- UWB radio with high measurement accuracy
- 6.5 GHz operating frequency
- 6-axis inertial sensor for sensor aided positioning and optimized operation time
- Environmental sensors: temperature, pressure and humidity
- 50-meter measurement range
- IP67 certified
- 1 week of continuous 24/7 operation and up to 10 weeks with configurable power saving mode (1Hz positioning)
- USB 2.0 micro-B port protected with dust cap for battery charging and FW update
- LED charging indicator
- Battery charge time approximately 5 hours
- LWH: 65 x 26 x 14 mm
- Weight: 19 g
- Operating temperature: -20°C to +60°C
- Storage temperature: -40°C to +85°C
- Certified use of the radio spectrum: 2019/785/EU and ETSI EN 302 065-2 compliant
- EN 62368-1 and EN 62133 compliant
- RoHS compliant

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