



LoRa N'TRACK

Ref. IDF320005



The industrial LoRa tracker to track and geolocalise your assets at low cost

- 👁️ Compatibility with public LoRaWAN network or private LoRa network
- 👁️ **GPS receptor included**
- 👁️ **Intelligent transmission management thanks to motion detection**
- 👁️ Battery life cycle: up to **10 years**
- 👁️ Sturdy industrial casing – **IP68 waterproof**
- 👁️ Integrated **NFC** chip

SPÉCIFICATIONS TECHNIQUES

Voltage supply	3.6 VDC – 2 LS14500 lithium battery replaceable by the user
Frequency	868MHz
Operating mode	<ul style="list-style-type: none"> • «Periodic wake-up» mode: Periodic data transmission on LORA network on a customizable frequency • «Acquisition» mode: data transmission based on changes in magnetic sensors state Downlink: change in LoRa class (A, C)
Transmission power	From 4 to 14 dBm (adjustable value)
Transmission period	60 seconds to 24 hours (adjustable value)
Battery lifecycle	<ul style="list-style-type: none"> • 10 years: one transmission a day at +14dBm • 4,2 years: one transmission every 6 hours at +14dBm <i>NB: different transmission if motion detection</i>
Sensors	<ul style="list-style-type: none"> • <u>Measurement range:</u> <ul style="list-style-type: none"> - GPS: latitude, longitude, altitude, speed - MAG: 2cm - MOV: motion counter up to 32768 thresholds overrun (AccThresh). - GPS: <2.5m • <u>Resolution:</u> <ul style="list-style-type: none"> - MAG: 2 bytes. state change counter on 15MSB (non-signed). Current state in the LSB. - MOV: 3 bytes. threshold overrun counter on 15MSB (non-signed). Current state in the LSB. - GPS: 14 bytes. Latitude, longitude, altitude, speed. PICK TO LIGHT function (High luminosity LED)
Radio frame format	<ul style="list-style-type: none"> • 25 bytes frame format, with identification frame (5 bytes), magnetic sensor state (2 bytes), motion sensor state (3 bytes), GPS reception data (14 bytes)
Coverage area	GPS, GLONASS, BeiDou, SBAS (including WAAS, EGNOS, MSAS, GAGAN), QZSS, AGPS
Configuration	Interface/Protocol: NFC (type 2) - Device Manager Software
Operating temperature	-40°C to +85°C
Casing	<ul style="list-style-type: none"> • 119 x 30,5 x 51 mm • 2 fixation holes: øM4 • waterproofness IP 68 DELRIN (POM C) Compatible with agri-food products (90/128/EEC)
Norms	RADIO: EN 300 220-2 / EN 300 220-1 CEM: EN 301 489-3 / EN 301 489-1 Electrical security: EN 60950-1 Health: EN 62311