



## 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

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

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