

# Li-ion Tag for RTLS-TDoA

## Rechargeable mobile locator

### Features

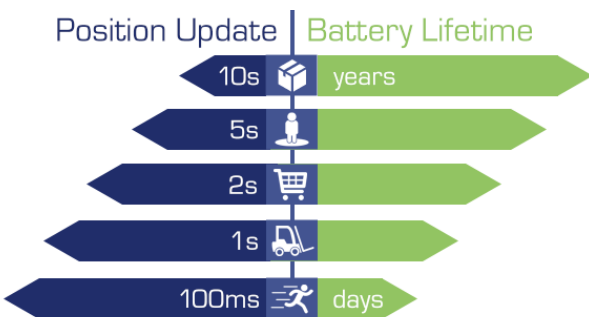
- Compliant with UWB PHY IEEE 802.15.4a
  - Decawave UWB Radio, 6 channels, 3-7GHz
  - Driven by Ultra Low Power ARM EFM32G M3
  - Battery included, Li-ion 600mA
  - Configuration via RTLS Manager
  - Firmware upgrade and Charging via USB
  - User LED and Charging LED indication
  - Unique 6 bytes ID
- Inertial Sensors
- Accelerometer (MMA8543)
  - Pressure/Altitude sensor (MPL3115A2) – optional
  - Magnetic field sensor (MAG3110) - optional



**Tag is an active mobile locator. Its position is reported within selected refresh rate. Tracked object need to be equipped with this device.**

Tag is powered from an integrated Li-ion battery and it is configurable through RTLS Manager software or via USB Terminal. Li-ion Tag is equipped with DecaWave radio module with an integrated ceramic antenna. It supports six channels and three communication speeds 110/850/6800 kbit/s. The Tag also features an accelerometer for movement detection in order to prolong battery lifetime. The Tag might be further extended with a magnetometer for orientation detection (roll, yaw, pitch).

- UWB
- Movement Detection
- White labelling possible
- Optional
  - Orientation Roll, Yaw, Pitch
  - Source code available
  - HW layout available



<b>Dimensions</b>	70x50x21 mm
<b>Weight</b>	25 g
<b>Refresh Rate</b>	10 ms – 60 s
<b>Battery Lifetime*</b>	10 s – 5 years 1 s – 1 year 500 ms – 248 days 100 ms – 53 days
<b>Nominal Battery</b>	600 mAh
<b>Charge Time via USB</b>	approx. 6h
<b>Charge Current</b>	100 mA
<b>Range</b>	15-50 m

\*dependent on RF Profile settings, can be significantly prolonged with the movement detection feature