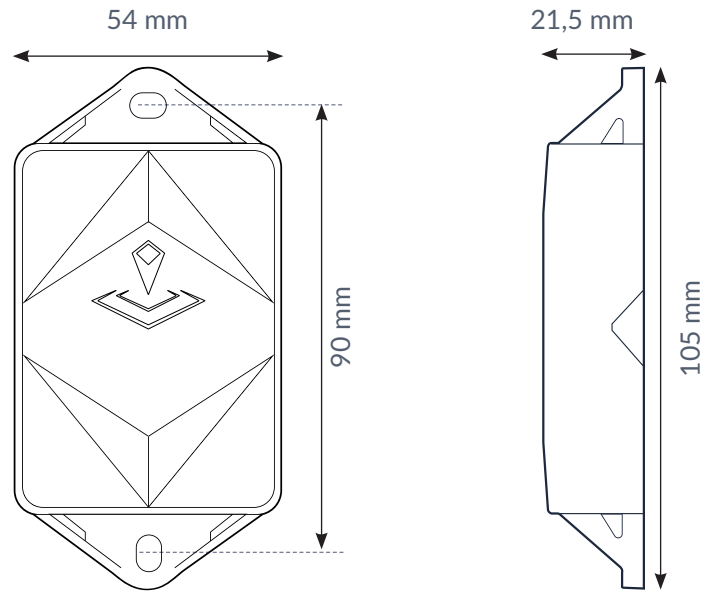


The small low-power tracker with long battery life.  
Indoor and outdoor localization, zone and high precision.  
Compatible with multiple external environmental sensors.

- GNSS
- Wi-Fi scanning
- Bluetooth geobeacon for zone precision
  
- NB-IoT
- Europe
- Data recovery (patented)
  
- Up to 8 years of battery life
- IP68
- Flame retardant



## Connectivity

### NB-IoT

- Energy efficient transceiver
- Internal omnidirectional antenna
- Bi-directional communication
- NB-IoT bands: Europe
- Data recovery
- OTA firmware upgrade (NB-IoT)

### Bluetooth Low Energy (BLE)

- BLE 2.4 GHz
- Bluetooth Low Energy 5.0

## Geolocalization

### GNSS

- Multi GNSS constellation chipset (GPS+GALILEO)
- Patch antenna for optimum performance

### Wi-Fi

Wi-Fi based geolocalization

### BLE

- Sensolus proximity beacon detection
- Detectable by zone and high precision anchors

## Sensing

### Internal

- Activity monitoring
- Orientation monitoring
- Virtual tamper detection

### Environmental BLE sensors

- Temperature, humidity, air quality
- Person presence, contact, magnet
- Other BLE sensors can be added

## Mounting

- Holes 6x8 mm. 90 mm distance between the centers of the mounting holes.

- Cable ties
- Double sided tape

## Mechanics & design

### Antennas

All antennas are internal

### Size

105x54x21,5 mm (L W H)

### Weight

95 gram

### Color

Translucent black

### Casing

- Polycarbonate (lexan 943A)
- Flame retardant
- UV-stabilized

### Water & dust resistance

IP68

### Operating temperature

-20 to 60°C

### Storage temperature

-40 to 60°C

## Battery

- 3 to 8 years battery life depending on operating mode
- Non replaceable battery pack 5200 mAh 3.0 V(Li-MnO<sub>2</sub>)

## Certifications

### Regulatory

CE

### Electrical safety

EN-60905-1

### Bluetooth 5.0

Declaration ID: D048003

## User interaction

### Device activation

Magnetic activation

### LED feedback

Green & red LED feedback on the device

### Synchronize remote settings

- Instant: Magnet activation
- Periodic: No user interaction needed

## Management services

### Diagnostics

- Battery lifetime prediction
- Detailed energy consumption
- Geolocation diagnostics
- Installation
- Communication quality

### Management

- OTA firmware updates over NB-IoT and BLE
- Remote configuration
- Tracker usage profiles
- External environmental sensors

## Application services

- Localization
- Journeys
- Activity
- Utilization
- Connectable with environmental sensors
- Tilt detection

## Firmware configuration

### Communication service

- Data recovery strategy
- Communication conditions

### General configuration

- Rule engine configuration
- Diagnostic levels
- Boot methods
- Accurate time synchronization

### Orientation service

Orientation detection parameters

### Activity service

Activity detection parameters

### Location service

- Motion based, context based, periodic or scheduled
- Configurable update rate and journey detection
- Priority sequence (GNSS, Wi-Fi scanning, Bluetooth geo-beacon)
- GNSS fix parameters
- Quoppa tested for high precision
- Indoor detection algo
- Wi-Fi scan strategy
- BLE scan strategy

### Environmental sensing

- Polling and aggregation strategy
- Alerts
- Edge processing parameters

### Tamper service

Virtual tamper algo configuration

## Security

### Encryption

- Device unique encryption keys
- End to end payload encryption Chacha 20
- AES encrypted firmware
- Firmware upgrade allows only signed firmware images