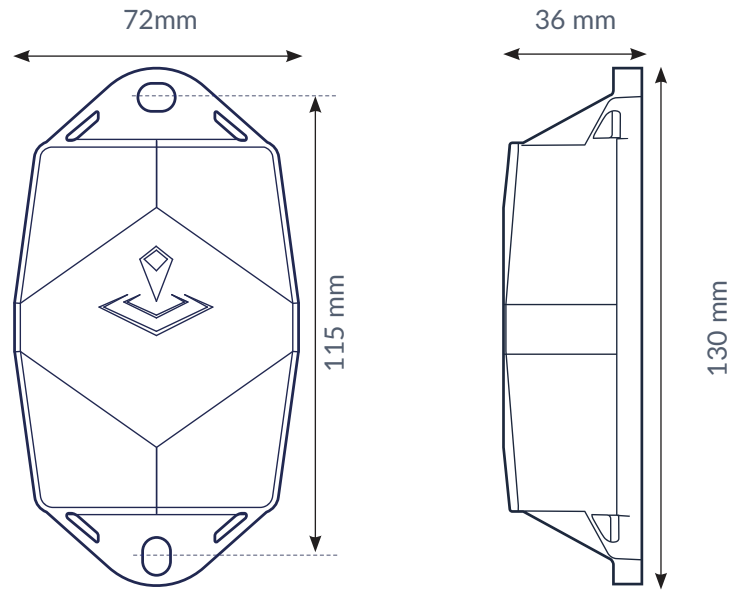


The rugged low-power tracker with longest battery life. Indoor and outdoor localization, zone and high precision with guaranteed data recovery (patented). Compatible with multiple external environmental sensors.

- GPS
- BLE
- Network triangulation
- Sigfox
- Multi-region
- Data recovery (patented)
- Up to 10 years of battery life
- IP68 & IP69K
- IK10
- Flame retardant



Connectivity

Sigfox

- Energy efficient transceiver
- Internal omnidirectional antenna
- Bi-directional communication
- RC1 region
- Data recovery (patented)

Bluetooth Low Energy (BLE)

- BLE 2.4 GHz
- Bluetooth Low Energy 5.0
- OTA firmware upgrade

Geolocalization

GNSS

- u-blox 8th generation GNSS receiver for GPS
- Large patch antenna for optimum performance

BLE

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

Sigfox Atlas

Network based geolocalization

Sensing

Internal

- Activity monitoring
- Orientation monitoring
- Virtual tamper detection

External BLE sensors

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

Mounting

- Holes (7x9mm) for screws or rivets
 - Cable ties
 - Double sided tape
 - Magnets (optional)
-

Mechanics & design

Antennas

All antennas are internal

Size

130x72x36 mm (L W H)

Weight

200 gram

Color

Translucent black

Casing

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

Water & dust resistance

IP68 & IP69K with automotive-grade venting membrane

Impact resistance

IK08 & IK10 (frontal impact)

Drop shock and vibration

EN 60068

Operating temperature

-20 to 60°C (optional to 80°C)

Storage temperature

-40 to 85°C

Battery

- Up to 10 years battery life depending on operating mode
 - User replaceable battery pack (Li-SoCl₂) 8400 mAh 3.6V
 - 2,7 gram Lithium
-

Certifications

Sigfox

- Sigfox RC1 verified

Regulatory

CE, FCC ID: 2AQYP-3ABGPSW

Electrical safety

EN-60905-1

Bluetooth 5.0

Declaration ID: D048003

User interaction

Device activation

Magnetic activation

Synchronize remote settings

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

LED feedback

Green & red LED feedback on the device

Management services

Diagnostics

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

Management

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

Application services

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

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 (GPS, BLE, network)
- GPS fix parameters
- Indoor detection algo
- BLE scan strategy

Environmental sensing

- Polling and aggregation strategy
- Alerts
- Edge processing parameters

Tamper service

- Virtual tamper algo configuration
-

Security

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