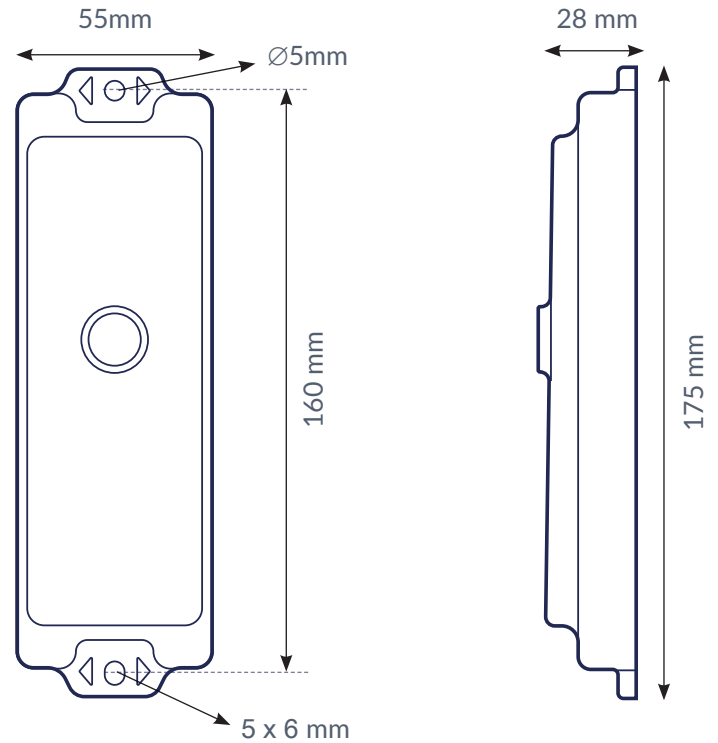


The medium-size long-life battery-powered full-fledged GPS, WIFI and BLE tracker with tamper alert. Ideally for worldwide asset tracking

- GPS
- Wi-Fi
- BLE
- Network triangulation

- Sigfox
- Multi-region
- In-flight detection
- Data recovery (patented)

- 3 to 8 years battery life
- IP69
- Tamper detection



Connectivity

Sigfox

- Energy efficient transceiver
- Internal omnidirectional antenna
- Bi-directional communication
- All regions: RC1/RC2/RC3/RC4/RC5/RC6
- Dynamic multi-region switching possible
- 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

Wi-Fi

Wi-Fi based geolocalization (optional)

Sigfox Atlas

Network based geolocalization

Sensing

Internal

- Activity monitoring
- Orientation monitoring
- In flight monitoring
- Virtual tamper detection

External BLE sensors

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

Mounting

Holes (top: \varnothing 5 mm, bottom 5*6 mm) for screws or rivets

Mechanics & design

Antennas

All antennas are internal

Size

175x55x28mm (L W H)

Weight

135 gram

Color

Black

Casing

Panel – PBT 30%GF, Cover – PP 30%GF, Elastomer - TPE

Water & dust resistance

IP69

Impact resistance

IK07

Operating temperature

-20 to 60°C

Storage temperature

-40 to 60°C

Battery

- 3 to 8 years battery life depending on operating mode
 - User replaceable batteries 5400 mAh 3.6V (Li-SoCl₂)
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Certifications

Sigfox

- Sigfox multi-region verified**
- All regions class 0 certified**

Regulatory

CE, FCC**

In flight

RTCA DO 160**

Electrical safety

EN-60905-1**

Bluetooth 5.0

Declaration ID**

** Certificates in progress

User interaction

Device activation

Activation with the tamper button

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 and remote)
 - Remote configuration
 - Tracker usage profiles
 - External environmental sensors
-

Application services

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

Firmware configuration

Communication service

- Region switching strategy
- Data recovery strategy
- Communication conditions
- Flight detection on/off

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

Environmental sensing

- Polling and aggregation strategy
- Alerts
- Edge processing parameters

Tamper service

- Physical tamper button at the back of the device
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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