TRACEUR COMPACT N

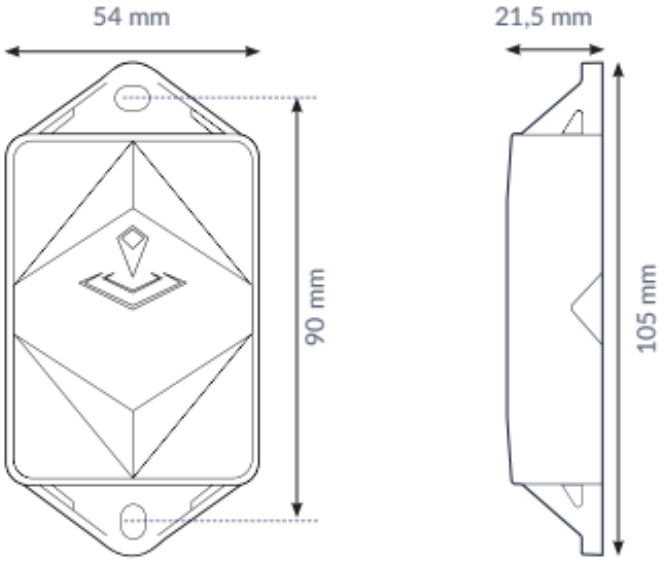
TRACK 1110 – GPS/BLE - NB-IoT

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

TRAKmy - 22 Rue Pradier - 30000 Nîmes – France
Siret : 85330986200011 - Naf : 6201Z - TVA : FR76853309862
Tel : +33 4 30 00 57 25 - Email : contact@trakmy.fr

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 pack5200 mAh 3.0 V($Li\text{-}MnO_2$)

Certifications

Regulatory
CE

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 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
- Quuppa 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