












Deploy this tracker connected to the vehicle power source, or only use the internal backup battery to avoid the wiring effort. It has NB-IoT and LTE-M connectivity and guaranteed data recovery. Provides outdoor and indoor localization. Supports external BLE sensors. Acts as smart BLE gateway to locate BLE-tagged assets transported by the vehicle.

130×72×36 mm
212g (7.6 oz)

-  GNSS
-  Wi-Fi scanning
-  Bluetooth geobeacon for zone precision
-  NB-IoT
-  LTE-M
-  Connectivity EXTENDED plan
-  Data recovery
-  Large internal backup battery
-  IP67
-  IK 09
-  Flame retardant

Connectivity

NB-IoT and LTE-M

- Energy efficient transceiver
- Internal omnidirectional antenna
- Bi-directional communication
- Data recovery
- OTA firmware upgrade (NB-IoT and LTE-M)

Bluetooth Low Energy (BLE)

Bluetooth Low Energy 5.0

Connectivity plan

TRACK 1215 comes with the Extended connectivity plan

Geolocalization

GNSS

Multi GNSS constellation chipset (GPS+GALILEO)

BLE Geobeacon

- Sensolus geobeacon detection

Wi-Fi scanning

- Wi-Fi based geolocalization

Sensing

Internal

- Activity monitoring
- Orientation monitoring
- Virtual tamper detection
- Temperature monitoring
 - range: -20°C till 60°C (-4°F to 140°F)
 - typical accuracy: +/- 0.25°C (+/- 0.45°F)
 - worst case accuracy: +/- 1°C (+/- 1.8°F)
- Configurable shock detection

Accessory BLE sensors

- Temperature, humidity
- Fill level, contact, magnet
- Other BLE sensors can be added

Activation and mounting

- Activation manual
- Holes 7x9mm ($\frac{9}{32} \times \frac{23}{64}$ in) for screws or rivets. 115 mm ($4\frac{17}{32}$ in) distance between the centers of the mounting holes.
- Instructions for mounting the device can be found [here](#).

Mechanics & Design

Antennas

All antennas are internal

Size

130x72x36 mm
($5\frac{1}{8} \times 2\frac{53}{64} \times 1\frac{27}{64}$ in)

Weight

218 gram (7.68 oz) without cable

Color

White and black

Casing

- PBT/PC 29 TM-Z2 FR UV LS
- Flame retardant
- UV-stabilized

Water & dust resistance

IP67

Impact resistance

IK09

Drop shock and vibration

EN 60068

Operating temperature

-20°C to 60°C
(-4°F to 140°F)*

Power supply

Voltage

Input voltage: 10 - 30 V DC with overvoltage protection

Cable terminations

Connectors to the power source can be soldered to the cable ends

Fuse recommendations

- > 500mA and < 1A fuse
- The TRACK 1215 contains a non-resettable 1A slow blow fuse (Bel fuse 0685T1000) at its external power input.

Typical power consumption

~3mA (idle)

Max typical power consumption

- 300mA (@10V)
- 70mA (@30V)

Back up battery

Standard 3 cell

- Battery life depending on operating mode.
- User replaceable battery pack (Li-SoCl₂) 12000 mAh
- 2.94 gram (0.1037oz) lithium

Certifications

Regulatory

- CE
- FCC
- IC

Environmental

Drop shock

Bluetooth 5.0

Declaration ID D068598

Electrical safety

EN 62368-1

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,LTE-M and BLE
- Remote configuration
- Tracker usage profiles
- External environmental sensors

Application services

- Localization
- Journeys
- Activity
- Utilization

- Connectable with environmental sensors
- Temperature detection
- Tilt detection
- Shock detection

Firmware configuration

Communication service

- Data recovery strategy
- Communication conditions

General configuration

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

Environmental sensing

- Polling and aggregation strategy
- Alerts
- Edge processing parameters

Tamper service

Virtual tamper algo configuration

Security

- Device unique encryption keys
- End to end payload encryption Chacha 20

Accessories

CAB 8600: 6 m power cable for TRACK 1215

Location service

- Motion based, context based, periodic or scheduled
- Configurable update rate and journey detection
- Priority sequence (GNSS, Wi-Fi scanning, Bluetooth geobeacon)
- GNSS fix parameters
- Indoor detection algo
- Wi-Fi scan strategy
- BLE scan strategy

Orientation service

Orientation detection parameters

Activity service

Activity detection parameters

Shock detection

Shock algo detection parameters

- AES encrypted firmware
- Firmware upgrade allows only signed firmware images