

# COMPACT 1115

GNSS / WI-FI / BLE — NB-IOT / LTE-M

REFERENCE

## 1115

The compact, low-power GPS tracker with long battery life. Ultra-slim format for narrow assets or tight spaces. Indoor and outdoor location, by zone and high precision. Compatible with a wide range of external Bluetooth environmental sensors.



**105 × 54 × 21,5**  
mm

Dimensions L × W × D

**95 g**

Weight

**IP68**

Ingress protection

**3–8 years**

Battery life

- GNSS GPS + GALILEO
- LTE-M
- Replaceable
- Wi-Fi Scanning
- Europe / North America
- Battery life 3–8 years
- BLE 5.0
- IP68
- NB-IoT
- Data recovery

## Connectivity

### NB-IoT + LTE-M

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

### BLE — BLUETOOTH LOW ENERGY

- Bluetooth Low Energy 5.0

### CONNECTIVITY PLAN

- Supplied with connectivity included — compatible with the TRAKmy Essential / Professional / Analytics plans

## Geolocation

### GNSS

- Multi-constellation chipset (GPS + GALILEO)

### WI-FI SCANNING

- Wi-Fi based geolocation
- Wi-Fi 2.4 GHz

### BLE

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

### BATTERY

**4,600 mAh** Li-MnO<sub>2</sub> 3,0 V · replaceable

- 3–8 years depending on operating mode

## Mechanics & Design

|                       |                                 |
|-----------------------|---------------------------------|
| Antennas              | All internal                    |
| Ingress protection    | IP68                            |
| Dimensions L × W × D  | 105 × 54 × 21,5 mm              |
| Weight                | 95 g                            |
| Colour                | White                           |
| Operating temperature | -20 °C → +60 °C                 |
| Housing               | Polycarbonate (Lexan 943A)      |
| Treatments            | Flame retardant · UV stabilised |
| SIM card              | No (plan included)              |

## Sensors

### INTERNAL

- Activity monitoring
- Orientation monitoring
- Virtual tamper detection
- Temperature monitoring : -20 °C → +60 °C — typical accuracy ±0,25 °C (±1 °C worst case)
- Configurable shock detection

### EXTERNAL BLE SENSORS

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

## Certifications

### REGULATORY

- In progress

### BLUETOOTH 5.0

- In progress

### ELECTRICAL SAFETY

- In progress

## User interaction

### ACTIVATION

- Magnetic activation

### LED FEEDBACK

- Green and red LED feedback on the device

### SYNCHRONISATION

- Instant: magnet activation
- Periodic: no user interaction needed

## Security

- Device-unique encryption keys
- End-to-end payload encryption ChaCha20
- AES-encrypted firmware
- Signed firmware images only

## Management services

### DIAGNOSTICS

- Battery lifetime prediction
- Detailed energy consumption
- Geolocation diagnostics
- Installation · communication quality

### MANAGEMENT

- OTA firmware updates (NB-IoT, LTE-M, BLE)
- Remote configuration
- Tracker usage profiles
- External environmental sensors

### APPLICATION SERVICES

- Localisation · journeys · activity · utilisation
- Temperature · tilt · shock detection

## Firmware configuration

### COMMUNICATION

- Data recovery strategy · communication conditions

### LOCATION

- Motion-based, context-based, periodic or scheduled
- Configurable update rate · journey detection
- Priority sequence: GNSS, Wi-Fi, BLE geobeacon
- Quuppa-tested for high precision
- Indoor detection algorithm · Wi-Fi & BLE scan strategy

### SENSORS & RULES

- Polling, aggregation & alerts (edge processing)
- Orientation · activity · tamper · shock
- Rule engine · diagnostics · time synchronisation

## Activation & mounting

- Magnetic activation
- Holes 6 × 8 mm — centres 90 mm