



# JM-LL01

LTE Cat M1 & NB2 Asset GNSS Tracker

The JM-LL01 is a Cat-M1/NB-IoT asset tracker with ultra-long standby time. Depending on reporting frequency, its low consumption internal battery can provide up to 3 years of working time on a single charge. The JM-LL01's strong magnetic mount allows for effortless installation onto almost any metal surface, and a light sensor will be triggered and an alert sent once detachment occurs, helping users to feel totally assured that their assets are under constant protection.



Vehicle Rental



Fleet Management



Logistics



#### GPS & BDS & LBS Positioning

A synergy of multiple positioning systems ensures that locations are accurately displayed on the cloud platform.



#### LTE Cat M1/NB2 & GSM

Communications over IoT-specific LTE networks with reliable 2G GSM fallback.



#### 10,000mAh Rechargeable Battery

High-capacity battery is ideal for long standby applications, and is easily recharged for re-deployment.



#### Tamper Alert

Receive a tamper alert when the light sensor detects device removal.



#### IP65 Dust and Water Resistance

Rugged design ensures continued optimal performance, even in the toughest conditions.



#### Bluetooth Configuration

Fast and simple device configuration via app for iOS.



#### Strong Magnetic Base

Fast and easy installation via strong magnetic mount or eyelets.



#### Multiple Working Modes

Configurable working modes according to your actual demands.

## Standard Configuration

### Positioning & Location

|                         |  |
|-------------------------|--|
| Technology              | GPS, BDS, LBS                                  |
| Accuracy                | < 2.5m CEP                                     |
| Tracking sensitivity    | -165dBm  |
| Acquisition sensitivity | -148dBm  |
| TTF (open sky)          | Avg. hot start < 1sec; Avg. cold start < 40sec |

### Cellular

|            |   |
|------------|---|
| Technology | LTE Cat M1 & NB2, GSM<br>LTE Cat M1 & NB2:  |
| Frequency  | B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/<br>B26/B28/B66<br>GSM: 850/900/1800/1900 MHz |

### Power

|               |   |
|---------------|---|
| Battery       | 10,000mAh/3.7V industrial-grade Li-Polymer<br>battery (rechargeable)          |
| Working modes | Mode 0: Standby mode<br>Mode 1: Intelligent mode<br>Mode 2: Power-saving mode |
| Battery life  | 6 days to 3 years   |

### Operating environment

|                       |                           |
|-----------------------|---------------------------|
| Operating temperature | -20°C to +70°C            |
| Operating humidity    | 5% to 95%, non-condensing |
| IP rating             | IP65                      |

### Interface

|                   |                                |
|-------------------|--------------------------------|
| LED indication    | Cellular (Red), Battery (Blue) |
| SIM               | Standard-SIM                   |
| Memory capacity   | 1000 GPS data entries          |
| Tamper proof      | Light sensor                   |
| USB               | Micro USB                      |
| GNSS antenna      | Internal                       |
| Bluetooth antenna | Internal                       |

### Feature

|                        |  |
|------------------------|--|
| Voice monitoring range | N/A  |
| Sensors                | 3-Axis accelerometer, Light sensor<br>Low battery alert, Tamper alert, Vibrating Alert,    |
| Scenarios              | Over-speed alert, Cover removal alert,<br>Installation alert, Geo-fence entry & exit alert |
| Mount method           | Magnet or straps   |
| Bluetooth              | BLE 4.2  |
| RFID                   | N/A  |
| Configuration support  | APP, Tracksolid Pro, PC Tools, SMS   |
| Certification          | CE, FCC, PTCRB, RoHS, AT&T, TELEC, Orange, WEEE  |

### Physical specification

|            |                       |
|------------|-----------------------|
| Dimensions | 109,0 x 61,0 x 30,5mm |
| Weight     | 297g                  |

## Standard Packing

|                       |   |
|-----------------------|---|
| LL01 unit             | 1 |
| Charging cable        | 1 |
| Magnetic base         | 1 |
| Double-sided adhesive | 1 |

## Optional Configuration\*

|             |
|-------------|
| Adapter     |
| Debug cable |

\*Optional Configuration required to be customized or purchased separately.