

G Series

Goods Monitor Tracker Specification



G series goods monitor tracker is an intelligent hardware device that integrates CAT.1/CAT.M1/NB-IoT, GNSS, Wi-Fi Bluetooth, high-precision temperature and humidity sensor and a variety of sensors. It contains several variants covering different regions and networks around the world.

The device can monitor the location information, temperature and humidity and other status of items in real time, and realize automatic alarm for abnormal location and status, such as over speeding, vibration, tampering, dwelling, delay and abnormal lights. At the same time, data are packaged, encrypted and uploaded to the cloud in real time, so asset transportation scheduling and analysis can be managed through the cloud platform visually, which improves transportation efficiency and reduces risks and costs.

The device is ultra-thin and compact to adhere or place inside the package, simple and convenient to install. It can monitor multiple assets in parallel in real time. Stable connection and flexible configuration are ideally for cost sensitive assets management applications.



Key Benefits

- ◆ Integrate GNSS, Wi-Fi, LBS Multi-positioning technology, can quickly and accurately locate the assets, and support Bluetooth positioning indoors.
- ◆ Worldwide LTE CAT.1/CAT.M/, NB-IoT and GSM/GPRS/EDGE coverage.
- ◆ Integrate multiple sensors to monitor temperature, humidity, light and vibration.
- ◆ At least 1 year battery life under 1 report per day condition, environment friendly and recyclable. 3M adhesive or place directly inside the package, easy to install.
- ◆ The visualized cloud platform supports the full-scene status monitoring of assets and goods. At the same time, it also supports FOTA.



CAT.1/ CAT.M/
GSM/ NB-IoT



Multi-constellation
GNSS



Wi-Fi 2.4G



Bluetooth 5.0



Temperature and
Humidity



Brightness change
alarm



Rechargeable
battery



Cloud-Platform
Service



Firmware Upgrade
OTA

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Variant for the Global

GT001-M-GL(Cat M1):

LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B14/ B18/B19/B20/B25/
B26*/B27/B28/B66/B71/B85
GSM: 850/900/1800/1900MHz

GT001-L-GL* (Cat 1):

LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/ B20/B25/
B26/B28
GSM: 850/900/1800/1900MHz

GT001-G-GL* (GSM only):

GSM: 850/900/1800/1900MHz

Variant for China/India

GT001-L-CN (Cat 1):

LTE FDD: B1/B3/B5/B8
LTE TDD: B34/B38/B39/B40/B41
GSM: 900/1800MHz

Variant for EMEA

GT001-L-EM (Cat 1):

LTE FDD: B1/B3/B5/B7/B8/B20/B28
GSM: 850/900/1800/1900MHz

Variant for Latin America

GT001-L-LA (Cat 1):

LTE FDD: B2/B3/B4/B5/B7/B8/B28/B66
GSM: 850/900/1800/1900MHz

Variant for North America

GT001-L-NA* (Cat 1):

LTE FDD: B2/B4/B5/B12/B13/B25/B26

GT001-M-NA* (Cat M1):

LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/
B26*/B27/B28/B66/B71/B85

Air Protocol

LTE (Cat 1):

LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL)
LTE TDD: Max 8.96Mbps (DL)/Max 3.1Mbps (UL)

LTE (Cat M1):

LTE FDD: Max 588Kbps (DL)/Max 1119Kbps (UL)

GSM:

GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)
EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL)

Command Set: Track protocol command

Transmit protocol: TCP, MQTT*

Working modes: Power saving mode for long standby time
Continuous mode for emergency tracking

Scheduled Timing Report:

Report position and status at preset time interval

Geo-fences*: Support up to 5 internal geo-fence regions

Low Power Alarm: Alarm when internal battery is low

Wake up Report: Report when the device wakes up

Motion Detection: Motion detection based on internal 3-axis accelerometer

Hardware Features

USB: × 1, Micro

(U)SIM Interface: Nano SIM card

Cellular Antenna: internal

GNSS Antenna: internal, GPS/GLONASS/BeiDou

LED: × 2, Power Light, Status Light

WLAN: 2.4G (GT001-G*)

Bluetooth: 5.0 (GT001-G*)

Motion Sensor:

Gravity Measurement Range: ±2g/±4g/±8g/±16g

ODR Bandwidths: 1Hz ~ 400Hz

Light Sensor:

Measuring Range: 1~ 1000 (adjustable levels)

Spectral Peak: 540 nm

Temperature and Humidity Sensor:

Humidity Measurement Accuracy: ±2% RH@+10°C ~ +70°C

Temperature Measurement Accuracy: ±0.3°C, -20°C ~ +70°C

Battery Capacity: 2500mAh (Li-ion Polymer Battery, USB 5.0 V charging)

GNSS Features

Horizontal Position Accuracy: Autonomous: <2.5m CEP

Velocity Accuracy: Without Aid: <0.1m/s

Acceleration Accuracy: Without Aid: <0.1m/s²

Reacquisition Time: <1s

TTFF @-130dBm with EASY™:

Cold Start: <15s; Warm Start: <5s; Hot Start: <1s

TTFF @-130dBm without EASY™:

Cold Start: <35s; Warm Start: <30s; Hot Start: <1s

Electrical Characteristics

Supply Voltage: 3.7V Rechargeable

Stand-by Current: ≤80uA

Battery Life: 1 Year @ 1 report per day

General Features

Operating Temperature: -20°C ~ +70°C

Dimensions: 121mm × 61mm × 8mm

Weight: Approx. 85g (GT001-G), 90g (GT001-L), 88g (GT001-M)

Firmware Upgrade: USB interface, OTA

Data Encryption: TEA, AES or RSA

Shell Material: ABS (Food-grade material, optional)

* Under development