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GL53MG

LTE Cat M1/NB2 waterproof standby asset GNSS tracker supporting BLE 5.2 with up to 3-year standby time



- **LTE Cat M1/NB2 with 2G Fallback**
- **Micro Size**
- **Covert Installation**

- **3 Years Standby Time**
- **BLE 5.2**
- **IP67 compliant**
- **Power Saving Mode**
- **Continuous Mode**
- **Automatic Mode Switching**
- **Dual Mode Anti-theft Alarm**
- **OTA Control**
- **Scheduled Timing Report**
- **Geo-fences**
- **Low Power Alarm**
- **Wakeup Report**
- **Motion Detection**
- **Up to 10,000 Buffer Messages**

The GL53MG is the upgraded LTE Cat M1/NB2 version of GL50MG. It integrates the latest low-power wide area network standards and covers a broader area, making it more flexible to deploy. Adding a programmable button makes it ideal for applications requiring rapid emergency alert or checking status of device. Its built-in BLE allows connectivity to diverse wireless accessories. Micro-sized waterproof design allows it to be used in harsh environments. The GL53MG is an ideal product for SVR application requiring LTE technology. In addition, it is also used for a wide range of applications including auto financing, asset monitoring, car rental and leasing and more.

Asset Monitoring



Stolen Vehicle Recovery



Automobile Finance



*Note:

1. The standby time is estimated under the condition of operating with LTE CAT M1/NB-IoT and the CSQ is greater than 15, working at a constant ambient temperature of 25°C, reporting once a day without any sensors, where GNSS signal is strong enough and under open sky.
2. The battery life estimation is based on LTE CAT M1/NB-IoT Connectivity and may be influenced by several factors such as network coverage, report sent interval, ambient temperature, sensors' setting, peripherals, installation location and orientation, etc. If you're interested in power consumption calculation of our device, please contact with our sales or FAE to get more information.

General

Dimensions	64.6 × 51.0 × 20.9mm 2.54" (L) × 2.0" (W) × 0.82" (H)
Weight	78g (2.75oz)
Internal Battery	Lithium manganese dioxide battery, 2400mAh
Standby Time	BLE Off Mode Standby current: <5μA 1 Report/Day: 3 years 4 Report/Day: 300 days 5 Min Reporting: 5 days
Operating Temperature	-20 °C ~ +60 °C
Waterproof	IP67 Compliant
BLE	Support BLE 5.2 protocol
Region	Worldwide

EGPRS

Frequency	850/900/1800/1900MHz
Data Transmission	EDGE 296 Kbps (DL) / 236.8 Kbps (UL) GPRS 107 Kbps(DL) / 85.6 Kbps (UL)

Air Interface Protocol

Command Set	@Track protocol command
Transmit Protocol	TCP, UDP, SMS
Working Modes	Power saving mode for long standby time Continuous mode for emergency tracking
Scheduled Timing Report	Report position and status at preset intervals
Geo-fences	Support up to 20 internal geo-fence regions
Low Power Alarm	Alarm when internal battery is low
Wakeup Report	Wake up at preset intervals
Motion Detection	Motion detection based on internal 3-axis accelerometer
Reporting Frequency Adjustment	Intelligent adjustment of reporting frequency

GNSS

GNSS Type	All-in-one Receiver
Sensitivity	Autonomous: -148dBm Hot Start: -163 dBm Tracking: -165 dBm
Position Accuracy (CEP)	Autonomous: < 2.0m
TTFF (Open Sky)	Cold start: 31s average Warm start: 28s average Hot start: 1s average

Interfaces

Function Button	Used for power on/off and working status checking
LTE Antenna	Internal only
GNSS Antenna	Internal only
BLE Antenna	Internal only
SIM Access	Internal only(3FF SIM)
LED Indicators	Status, GNSS