

GL30MG

LTE Cat M1/NB2 Micro Waterproof
Real-Time Asset Tracker

- Wi-Fi Scan
- LTE Cat M1 / NB2
- BLE 5.2



GL30MG is a micro real-time tracker with LTE Cat M1/NB2 and 2G fallback. It is designed for diverse applications requiring accurate location tracking, such as personal safety, animal management, asset monitoring, and package delivery.

- LTE CAT M1/NB2 Fallback 2G
- BLE 5.2
- Wi-Fi Scan (Location)
- Neighbor Cell Info Report (Location)
- Function Button
- Internal Buzzer
- Up to 10,000 Buffer Messages
- Motion Detection
- Low Power Alarm
- Battery Level Report
- Supports OTA Updat

Applications

Asset Monitoring



Personal Safety



Pet Tracking



Sports Tracking



General Specifications

Dimensions	60x31.7x19.66mm 2.36x1.25x0.77inch
Weight	37.6g(1.33oz)
Internal Battery	Li-Polymer 650mAh (Rechargeable Battery)
Standby Time	Continue Mode 5 Min Reporting: 5 days 10 Min Reporting: 8 days Power Saving Mode 1 Report per Hour: 16 days 1 Report per Day: 190 days **eMTC, UDP, Internal GNSS, WIFI & BLE off, GPS open sky, LTE Cat M1/NB2 CSQ>15, operation temperature 10 °C~25 °C
Charging Voltage	5V DC
Waterproof	IP67 compliant
Operating Temperature	-20 °C ~ +60 °C -20 °C ~ +60 °C for storage
Buffer Messages	Up to 10,000 buffer messages
Sensor	Built-in 3-axis Accelerometer
Region	North America
Certification	FCC, PTCRB, AT&T, T-Mobile, Verizon(Planning)

Interfaces

LTE Antenna	Internal only
GNSS Antenna	Internal only
BLE Antenna	Internal only
Wi-Fi Antenna	Internal only
LED Indicator	One RGB LED (CELL, Power, GNSS)
Function Button	One activation/alarm Key
I/O Interface	5pin magnetic suction interface 2pin for charging 3pin for I/O (can be used for Download and Debug)
Buzzer	Metal Patch Buzzer
SIM	eSIM chip (MFF2 ESIM)

LTE Specifications

Frequency	Cat M1: LTE FDD: B2/B4/B12/B13/B66 Cat NB2: LTE FDD: B2/B4/B12/B13/B66
Data Transmission	eMTC (DL) 588kbps eMTC (UL) 1119kbps NB2 (DL) 127kbps NB2 (UL) 158.5kbps NB1 (DL) 34kbps NB1 (UL) 66.6kbps

EGPRS Specifications

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

GNSS Specifications

GNSS type	All-in-One receiver
Constellation Support	GPS, Glonass, Galileo, Beidou
Sensitivity	Autonomous: -148 dBm Hot start: -163 dBm Tracking: -165 dBm
Position Accuracy (CEP)	Autonomous: < 2.0m
TTFF (Open Sky)	Cold start: 24s average Hot start: 1s average

Connectivity

Technology	BLE 5.2
Frequency	2.4GHz
Technology	Wi-Fi
Frequency	2.4GHz
Remark	Wi-Fi scanning for in-door positioning or triggering mode switch

Air Interface Protocol

Transmission Protocol	TCP, UDP, SMS
Low Power Alarm	Alarm when internal battery is low
Power On/Off Report	Report when the device is powered on and off
SOS Alarm	SOS alarm via pressing function key
Command Set	@Track protocol command
Working Modes	Power saving mode for long standby time Continuous mode for emergency tracking
Scheduled Timing Report	Report messages at preset time intervals
Geo-Fence Report	Support up to 20 internal geo-fence regions Automatically reports when entering / exiting Geo-Fence
Motion Detection	Motion alarm based on internal 3-axis accelerometer
OTA Support	Remote configure parameters to change position interval, measurement interval, active/ deactivate sensor, upgrade FW