GL53MG Plus SPECIFICATIONS

LTE Cat M1/NB2 waterproof asset GNSS tracker supporting BLE 5.2 with up to 4- year standby time

LTE Specifications

Operating Band	LTE Cat M1/NB2 Cat M1: LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B27/B28/B66/B85 Cat NB2: LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85
Data Transmission	eMTC (DL) 348 Kbps eMTC (UL) 1.08 Mbps NB2 (DL) 121 Kbps NB2 (UL) 150 Kbps NB1 (DL) 74.1 Kbps NB1 (UL) 101 Kbps

EGPRS Specifications

Frequency	850/900/1800/1900MHz
Data Transmission	EDGE296 Kbps(DL) / 236.8 Kbps(UL) GPRS107 Kbps(DL)/85.6 Kbps(UL)

General Specifications

Dimensions	64.6 × 51.0 × 28.3mm 2.54" (L) × 2.0" (W) × 1.07" (H)
Weight	93.5g(3.29oz)(Estimated)
Internal Battery	Lithium manganese dioxide battery, 4400mAh
Standby Time	BLE Off Mode Standby current: <5uA 1 Report/Day: 4 years 4 Reports/Day: 480 days 5 Min Reporting: 16 days
Operating Temperature	-20℃ ~ +60℃
Waterproof	IP67 Compliant
BLE	Support BLE 5.2 protocol
BufferMessages	Up to 10,000 buffer messages

GNSS Specifications

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

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

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