

GL521MG SPECIFICATIONS

LTE Cat M1/NB2 waterproof GNSS tracker supporting BLE 5.2 with up to 1 year standby time

LTE Specifications

Operating Band	Cat M1: LTE-FDD:B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/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) 588 Kbps eMTC (UL) 1119 Kbps NB2 (DL) 127 Kbps NB2 (UL) 158.5 Kbps NB1 (DL) 32 Kbps NB1 (UL) 70 Kbps

General Specifications

Dimensions	87 x 51 x30mm 3.43”(L) x 2.01”(W) x 1.18”(H) 87 x 51 x30.5mm 3.43”(L) x 2.01”(W) x 1.32”(H) (magnet-mounted version)
Weight	150g (5.29oz) 170g (6.0oz) (magnet-mounted version)
Backup Battery	Li-Polymer 3.7V/2400 mAH
Standby Time	Standby current: <10 μA 1 report per day : 1 year
Charging Method	5V/1A wireless charging ①
Waterproof	IP67
Operating Temperature	-20℃ ~ +60℃
Bluetooth	Support BLE 5.2 protocol
Internal Temperature Sensor	For temperature monitoring Accuracy: ±1℃
Internal Light Sensor	For tamper detection
Internal Motor	For vibration feedback after successful operation of function button
Magnetic Mounting Case (Optional)	For easy installation on metal surface

Interfaces

Function Button	Used for power on/off and working status checking
LTE Antenna	Internal only
GNSS Antenna	Internal only
BLE Antenna	Internal only
LED Indicators	GNSS

EGPRS Specifications

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

GNSS Specifications

GNSS type	u-box All-in-one GNSS receiver
Constellation Support	GPS, Glonass, Galileo, Beidou
Sensitivity	Cold start: -147dBm Hot start: -156 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m
TTFF (Open Sky)	Cold start: 27s average Hot start: 1s average

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 time intervals
Geo-fences	Support up to 20 internal geo-fence regions
Low Power Alarm	Alarm when internal battery is low
Wakeup Report	Report when the device wakes up
Motion Detection	Motion detection based on internal 3-axis accelerometer
Reporting Frequency Adjustment	Intelligent adjustment of reporting frequency

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