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GL521MG

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



- **Rapid & Covert Installation**
- **1 Year Standby Time**
- **BLE 5.2**

- **Supports Wireless Charging**
- **OTA Control**
- **Scheduled Timing Report**
- **Geo-fences**
- **IP67 Waterproof**
- **Vibration Feedback**
- **Low Power Alarm**
- **Wakeup Report**
- **Motion Detection**
- **Automatic Mode Switching**
- **Temperature Monitoring**
- **Tamper Detection**
- **Magnetic mounting (Optional)**
- **Use with Animal Collars**

The GL521MG is derived from our successful GL500MG by supporting NB2 and adding Qi wireless charging and BLE. Our customers love the battery-powered GL500MG but still wanted a rechargeable version for certain scenarios. We designed this version without impacting the waterproof and robust enclosure. Adding BLE allows connectivity to diverse wireless accessories. With internal temperature and light sensors, the product is ideal for a wide range of environmental monitoring applications such as cold chain logistics, warehouse management, cargo trucking, high-value static asset monitoring and more. The GL521MG supports several mounting alternatives which use unique clip on design to securely attach the device to any asset.

Asset Monitoring



Lot Management



Pharmaceutical Transportation



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Using unapproved chargers with Queclink products may cause harm to the product and may result in battery failure, even risk of severe heat, and burst. Queclink, its distributors, and affiliates shall not bear the burden of responsibility for any damages as described here above. By using a third-party charger, you assume all responsibility for any risk, harm, and or injury.

General

Dimensions	87 x 51 x 30mm
	3.43"(L) x 2.01"(W) x 1.18"(H)
	87 x 51 x 30.5mm
	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 μ A
	1 report per day : 1 year
Charging Method	5V/1A wireless charging*
Waterproof	IP67
Operating Temperature	-20 °C ~ +60 °C
Bluetooth	Support BLE 5.2 protocol
Internal Temperature Sensor	For temperature monitoring Accuracy: ± 1 °C
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
Region	Worldwide
Certificate	CE/FCC/Verizon

EGPRS

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

GNSS

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

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

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