



New Products Introduction GL502MG

Driving Smarter IoT

15th Sep. 2021

Contents



- **Overview**
- **Installation and Accessories**
- **Products Comparison**
- **Recommended Applications**

Overview

GL502MG

LTE CAT M1 / NB2 / 2G



IP68

1 Report / Day: Up to 10yrs

6 Reports / Day: Up to 6yrs

5 Min Reporting: 3 Months

Up to 10,000 Buffer Messages

57000mAh Backup Battery

Flagship LTE device with IP68 ruggedized GNSS tracker with up to 10yrs of standby time. **Ideal for asset tracking, dumpsters, portable toilets, trailer tracking, portable construction signs and container tracking.**

- **Replaceable Battery**
- **WiFi Positioning**
- Geofencing
- Ruggedized Case
- Power Saving Mode
- Low Power Alarm
- Magnet Mounting
- OTA Control
- Wakeup Report
- BLE 5.2
- Scheduled Timing Report
- Motion Detection

General Specification

GL502MG	
Cellular	MCU + BG95 M5; LTE CAT M1 / NB2 / 2G
GNSS	U-Blox Chipset
Casing	IP Rating: IP68 Complaint; Ruggedized Case
BLE	BLE 5.2, support BLE beacon feature and BLE accessories
Wi-Fi Positioning	Support
Motion Sensor	Built-in 3-axis accelerometer
Interface	SIM Card Holder: 3FF (Micro SIM) USB Type-C connector: used for FW upgrade and configuration Battery Switch x 1
LED Indicator	Cell, GNSS
Dimensions	250 × 58 × 61mm / 9.84"(L) × 2.28"(W) × 2.40"(H)
Weight	719g (25.36oz)
Backup Battery	Lithium thionyl chloride battery, 57000mAh (ER34615x3)
Standby Time (GNSS Location, BLE Off)	1 Report/Day: Up to 10 Years 6 Reports/Day : Up to 6 Years 5 Min Reporting: 3 Months
Operating Temperature	-20°C ~ +60°C
Time to market / Inventory	17 th Sep. / 85pcs (PN:S2-M006130 GL502MG-17K3)

Contents



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- ***Installation and Accessories***
- **Products Comparison**
- **Recommended Applications**

Quick Start

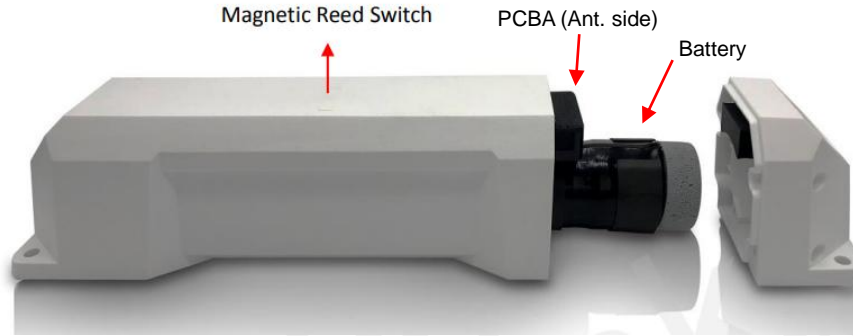
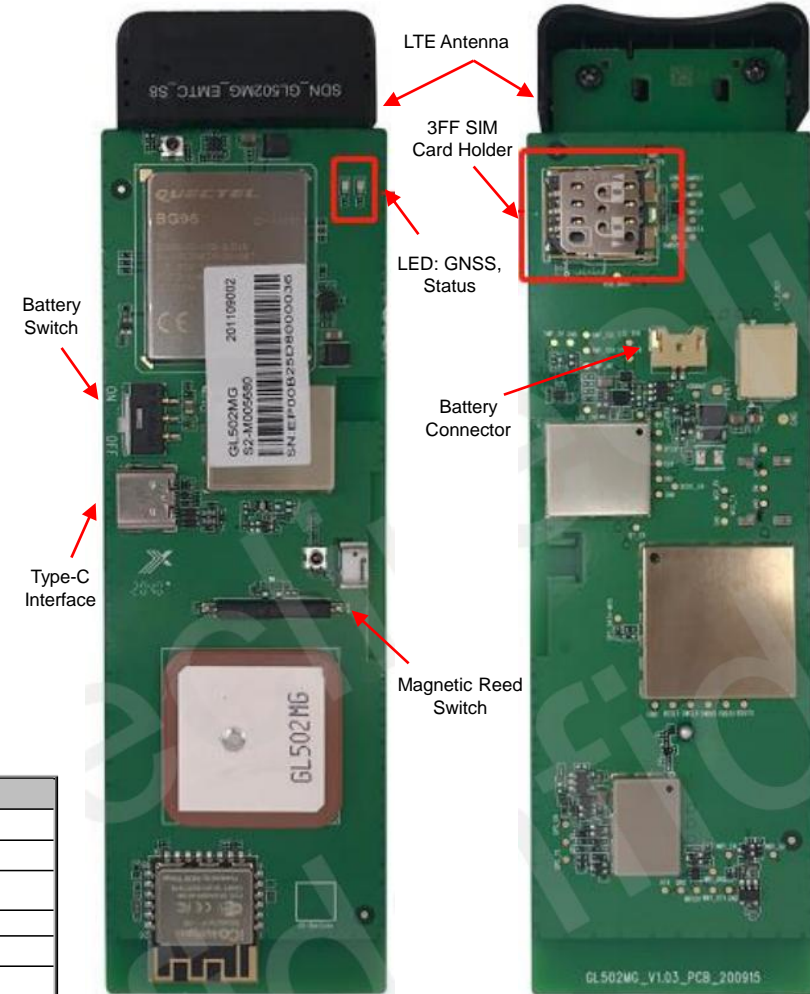


Table 4. Magnetic Reed Switch Description

Magnetic Reed Switch Function	To power on the device: Use a magnet (1.2 mT minimum) to approach magnetic reed switch. Then the switch will be triggered and the device will be powered on.
Note: 1, To power on the device, set the battery switch on the PCB to ON position first; 2, Once powered on, to cut off the power, set the battery switch on the PCB to OFF position.	

LED Description

LED	Event	State
CELL LED (Green)	Searching network	Fast flash
	The device has been registered on network	Slow flash
	SIM is locked by PIN	Solid on
	Modem off	Solid off
GPS LED (Blue)	GPS is in the process of fixing	Fast flash
	GPS is on and GPS gets fix	Slow flash
	GPS off	Solid off



Delivery List (Standard Version)

Industrial Packaging

GL502MG



Item Index	Description (Standard)
1	GL502MG
2	Label
3	Screws



Information of Standard Carton:

10pcs per carton

Weight: 7.7 KG

Dimensions: 37*17.5*27.5 cm

Accessories (Optional)



Magnetic Buckle Kit

Used to install GL502MG
* S2-M006602
GL502MG_Magnet Kit



Steel Cable & Plates

Used to provide extra protection
from falling in case the magnetic
buckle loosens
* S2-M006601 GL502MG_Sling Kit



GL502MG Data Cable

Type-C_Data_Cable, used for
FW upgrade and configuration



GL502MG Replacement Battery

The device can be reused by
replacing the battery

BLE Accessories



WKF300

BLE Key Fob



WBC300

BLE I/O Expander



WTH300

BLE Temperature and
Humidity Sensor

Contents



- **Overview**
- **Installation and Accessories**
- **Products Comparison**
- **Recommended Applications**

Internal Comparison



	GL53MG (QLM100)	GL520MG (BG95 M5)	GL502MG (BG95 M5)
Dimensions	64.6 × 51 × 20.9mm	87 × 51 × 30mm	250 × 58 × 61mm
Weight	75g	140g	719g
Non-rechargeable Battery	2400mAh	1400mAh(CR123A) x 3	57000mAh (Replaceable)
Standby Time	1 Report/Day: Up to 3 years 4 Reports/Day: Up to 1 year 5 Min Reporting: 6 days	1 Report/Day: Up to 5 years 4 Reports/Day: 5 Min Reporting:	1 Report/Day: Up to 10 Years 6 Reports/Day : Up to 6 Years 5 Min Reporting: 3 Months
Waterproof	IP67 Complaint	IP67 Complaint	IP68 Complaint
BLE	BLE 5.1	BLE5.2(Optional)	BLE 5.2
Wi-Fi Location	NA	NA	Support
Temp. Sensor	NA	Support	NA
Light Sensor	NA	Support	NA
Motion Sensor	Support	Support	Support
Magnetic Mounting	NA	Optional	Optional

Contents



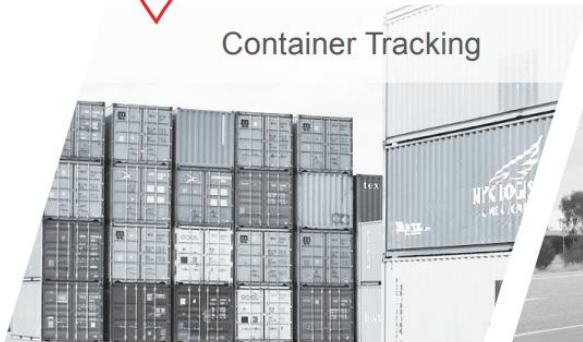
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Recommended Applications

GL502MG special appearance design, ruggedized IP68 casing, ultra long standby characteristics, ideal for Container Tracking, Trailer Tracking and Asset Monitoring.



Container Tracking



Trailer Tracking



Asset Monitoring



Idea for Container Tracking



Long-distance transportation



Intelligent management



Refrigerated containers

What can GL502MG provide:

- ✓ Specially appearance designed for containers
- ✓ Ultra long battery life
- ✓ BLE accessories support
- ✓ Large-capacity buffer storage



Extended application

Installation Location



Conventional containers

How your business can benefit from the solution:

- ✓ Easy to install
- ✓ Low maintenance cost
- ✓ Rich application scenarios
- ✓ Efficient container management

Idea for Trailer Tracking



Container Trailer



RV Trailer



What can GL502MG provide:

- ✓ IP68 case
- ✓ Optional Magnet Mounting
- ✓ Replaceable Battery
- ✓ Power Saving Mode

How your business can benefit from the solution:

- ✓ Flexible installation
- ✓ Easy to maintain
- ✓ Multiple working modes to extend the use time



Tank Trailer

Idea for Asset Monitoring



Portable construction signs

What can GL502MG provide:

- ✓ IP68, Ruggedized Case
- ✓ WiFi Positioning
- ✓ Ultra-long Battery Life
- ✓ Geo-fence & Motion Detection

How your business can benefit from the solution:

- ✓ Available in harsh environments, such as high-pressure water washing
- ✓ Better location coverage
- ✓ Prevent the loss of assets
- ✓ Real-time status monitoring



Dumpsters



Portable toilets



Thank You

 www.queclink.com