

# GL601MG

**LTE Ruggedized Waterproof Solar Powered Asset Tracker**



- LTE CAT M1/ NB2 and 2G
- Solar Charging
- Up to 10 years
- Ruggedized Case
- IP67 Waterproof
- BLE 5.0
- Wi-Fi Scanning
- Geo-fences
- Tamper Detection
- Motion Detection
- OTA Control

**Solar Charging**

**Up to 10 years**

**BLE 5.0**

The GL601MG is a rugged, self-sustaining LTE Cat M1 tracker, ideal for the efficient management of containers, trailers, and rail wagons. With its advanced solar harvesting technology, it can achieve zero maintenance throughout a lifecycle of up to 10 years. The equipped rechargeable large battery supports multimodal working modes based on transportation needs, ensuring real-time tracking during movement or low sending frequency when stationary. Additionally, it features a light sensor for tamper alerts, a temperature sensor for ambient condition monitoring, and offers extended functionalities with BLE and Wi-Fi connectivity.

Container Tracking



Trailer Tracking



Asset Monitoring





<b>Dimensions</b>	212(L) × 86(W) × 30(H) mm 8.35(L) × 3.39(W) × 1.18(H) inch
<b>Weight</b>	572g (20.2oz)
<b>Battery</b>	6 × ICR18500 lithium batteries, 3.7V, 12000mAh
<b>Standby Time</b>	Continuous Mode: 1 report/minute(2 Working hours per day): 80 days Sleeping Mode: 1 report/hour: 5 months 1 report/day: 5 years 1 report/day(need to be solar charged regularly): 10 years
<b>Waterproof</b>	IP67
<b>Operating Temperature</b>	-20 °C~+70 °C (-4 °F~+158 °F)
<b>Mounting</b>	Screw / Magnet Mounting Additional secure steel cable
<b>Region</b>	Global
<b>Certificate</b>	FCC (Planning) PTCRB (Planning)

## Cellular

<b>LTE</b>	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
<b>EGPRS</b>	850/900/1800/1900 MHz

## GNSS

<b>GNSS Type</b>	All-in-one multi-constellation GNSS Receiver
<b>Constellation Support</b>	GPS, BEIDOU, GLONASS, GALILEO, AGPS
<b>Position Accuracy (m@CEP50)</b>	Autonomous: <2.5m

## Connectivity

<b>BLE</b>	2.4GHz
	BLE 5.0, worked as a BLE gateway to connect accessories like beacon, temperature sensor, door sensor, etc.
<b>Wi-Fi</b>	2.4GHz
	Wi-Fi scanning for in-door positioning or triggering mode switch

## Interfaces

<b>Charging Port</b>	4-pin magnetic connector for charging and configure / FW upgrade
<b>Cellular Antenna</b>	Internal only
<b>GNSS Antenna</b>	Internal only
<b>BLE Antenna</b>	Internal only
<b>Wi-Fi Antenna</b>	Internal only
<b>LED Indicators</b>	GNSS, CEL, PWR

## Air Interface Protocol

<b>Transmit Protocol</b>	TCP, UDP, SMS
<b>Scheduled Timing Report</b>	Report messages at preset time intervals
<b>Geo-Fence Report</b>	Automatically reports when entering / exiting Geo-Fence
<b>Low Power Alarm</b>	Alarm when internal battery is low
<b>Battery Health</b>	Report battery condition (%) / status
<b>Temperature Monitoring</b>	Report environment temperature at preset time intervals
<b>Tamper Detection</b>	Alarm when device is removed
<b>OTA Control</b>	Remote configure parameters to change position interval, measurement interval, active/ deactivate sensor, upgrade FW

\*Note:  
1. The standby time is estimated under the condition of operating with LTE CAT M1/NB-IOT and the CSQ is greater than 15, working at a constant ambient temperature of 25°C, where GNSS signal is strong enough and under open sky.  
2. The battery life estimation is based on LTE CAT M1/NB-IOT Connectivity and may be influenced by several factors such as network coverage, ambient temperature, sensors' setting, peripherals, installation location and orientation, etc. If you're interested in power consumption calculation of our device, please contact with our sales or FAE to get more information.