

GL551MG

Waterproof LTE Cat-M1 Tracker with Up to 10-Year Battery Life

- 10 years battery life
- AA user-replaceable batteries
- IP67 Waterproof



- LTE Cat.M1, Cat.NB1, Cat.NB2
- BLE 5.4
- Scheduled Report
- OTA Control
- Wi-Fi positioning

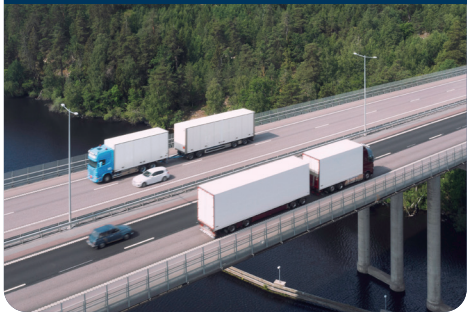
The GL551MG-7A00 is a rugged, waterproof GNSS tracker designed for diverse asset-tracking applications that require reliable and actionable location visibility.
It combines dual-band GNSS with Cell-ID positioning and Wi-Fi fallback, ensuring reliable location coverage across diverse environments.
Powered by three user-replaceable AA batteries, the GL551MG features a standardized battery design that simplifies field replacement, making it ideal for long-term deployments with minimal maintenance.

Applications

Container Tracking



Trailer Tracking



Asset Tracking



General Specifications

Dimensions	117.65(L) x 75 (W) x 30.15(H) mm 4.63"(L) × 2.95 "(W) × 1.19"(H)
Battery	Cylindrical Primary Lithium, 3500mAh 3 x AA
Standby Time	WIFI/BLE/Sensor Off Mode Standby current: <10uA 1 Report/Day: 10 years 1 Reports/Hour: 180 days
Waterproof	IP67 compliant
Operating Temperature	-20°C ~ +60°C -30°C ~ +60°C for storage
Buffer Messages	Up to 10000 buffer messages
BLE	Support BLE 5.4 protocol
Region	NA
Certification	FCC, IC, PTCRB, US operator certification *planning

LTE Specifications

Operating Band	LTE-M(Cat-M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/ B20/B25/B26/B28/B66 NB-IoT(Cat-NB1/NB2): B1/B2/B3/B4/B5/B8/B12/B13/B17/B19/ B20/B25/B26/B28/B66
Data Transmission	eMTC (DL) 375kbps /(UL) 300kbps NB-IoT: (DL) 60 kbps/(UL) 30kbps

GNSS Specifications

GNSS type	All-in-One receiver
Constellation Support	GPS, Beidou, Galileo, GLONASS
Sensitivity	Cold start: -148 dBm Hot start: -159 dBm Tracking: -165 dBm
Position Accuracy (CEP)	Autonomous:<1.0m
TTFF (Open Sky)	Cold start: 28s average Hot start: 1s average

Interfaces

Cellular Antenna	Internal only
GNSS Antenna	Internal only
BLE Antenna	Internal only
LED Indicators	CELL, GNSS
Micro USB Interface	Used for configuration and debugging (built-in)

Connectivity

Model	BLE
Type	2.4GHz
Remark	BLE 5.4, worked as a BLE gateway to connect accessories like beacon, temperature sensor, door sensor, etc.
Model	Wi-Fi
Type	2.4GHz
Remark	Wi-Fi scanning for in-door positioning or triggering mode switch

Air Interface Protocol

Transmission Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position and status based on preset time intervals
Geo-Fence	Geo-fence alarm, Support up to 5 internal geo-fence regions
Low Power Alarm	Alarm when internal battery is low
Power On Report	Report when the device is powered on
SOS Alarm	Alarm message report triggered by panic button in emergency situation
Motion Detection	Motion alarm based on internal 3-axis accelerometer