



## GAT-Pro (GL500) LTE Series















LTE CAT-M1 (eMTC)/ LTE CAT-M2 (NB-IoT) waterproof GNSS trackers with up to 7 years standby time

   140g 160g (magnetic case mounting version)	   87mm(L)×51mm(W)×30mm(H) 87mm(L)×51mm(W)×33.5mm(H) (magnetic case mounting version)
   -25°C ~ +60°C	   3 CR123A lithium batteries, 1400 mAh

### Standby Time:

1 Report/ Day (GNSS on)		5 Years
1 Report/ Day (Cell ID Only)		7 Years



-  Rapid & Cover L Installation
-  7 Years Standby Time
-  OTA Control
-  Scheduled Timing Report
-  Geo-fences
-  Waterproof
-  Vibration Feedback
-  Low Power Alarm
-  Wakeup Report
-  Motion Detection
-  Automatic Mode Switching
-  Temperature Monitoring
-  Tamper Detection
-  Magnetic mounting (Optional)

GL500 series (LTE) includes three waterproof GNSS trackers that feature an up to 7 years standby time powered by internal batteries. The series is ideal for a range of tracking applications that require real-time monitoring on temperature and light. GL500 series (LTE) supports LTE CAT-M1 (eMTC)/ LTE CAT-M2 (NB-IoT) network on multiple band for operation in America, Europe, and Oceania with a fallback to GPRS.



### GL500 Series Models (LTE)

	Region	Network/Operating Band	GNSS Type	Position Accuracy (CEP)	Certificate
GL500MA	North America	LTE eMTC/NB-IoT LTE B2/B4/B5/B12/B13	u-blox All-in-One GNSS receiver	Autonomous: < 2.5m	FCC/PTCRB AT&T/Verizon
GL500ME	Europe	LTE eMTC/NB-IoT/EGPRS LTE B3/B8/B20 EGPRS 850/900/1800/1900 MHz	u-blox All-in-One GNSS receiver	Autonomous: < 2.5m	
GL500MB	Oceania and Brazil	LTE eMTC/NB-IoT/EGPRS LTE B3/B28 EGPRS 850/900/1800/1900 MHz	u-blox All-in-One GNSS receiver	Autonomous: < 2.5m	



## Appearance



## Specification:

### LTE Specifications

Item	GL500MA	GL500ME	GL500MB
Operating Band	B2/B4/B5/B12/B13	B3/B8/B20	B3/B28
Data Transmission		eMTC (DL) 375 Kbps eMTC (UL) 375 Kbps NB1(DL) 32 Kbps NB1 (UL) 70 Kbps	

### GNSS Specifications

<b>GNSS Type</b>	u-blox All-in-One GNSS receiver
<b>Sensitivity</b>	Autonomous: -147 dBm Hot Start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
<b>Position Accuracy (CEP)</b>	Autonomous: < 2.5m
<b>TTF (Open Sky)</b>	Cold start: 27s average Warm start: 27s average Hot start: 1s average

### Interfaces

<b>Function Button</b>	Used for power on/off and switch of device working mode
<b>LTE Antenna</b>	Internal only
<b>GNSS Antenna</b>	Internal only
<b>LED Indicators</b>	GNSS, PWR



## General Specifications

<b>Dimensions</b>	87mm(L)*51mm(W)*30mm(H) 87mm(L)*51mm(W)*33.5mm(H) (magnet-mounted version)
<b>Weight</b>	140g 160g (magnet-mounted version)
<b>Backup Battery</b>	3 CR123A lithium batteries, 1400 mAh
<b>Standby Time</b>	Standby current: < 8 uA 1 report per day (GNSS on): 5 years 1 report per day (cell ID only): 7 years
<b>Waterproof</b>	IP67 compliant
<b>Operating Temperature</b>	-25°C ~ +60°C
<b>Internal Temperature Sensor</b>	For temperature monitoring Accuracy: ±0.5°C
<b>Internal Light Sensor</b>	For tamper detection
<b>Internal Motor</b>	For vibration feedback after successful operation of function button
<b>Magnetic Mounting Case (Optional)</b>	For easy installation on metal surface

## Air Interface Protocol

<b>Command Set</b>	@Track protocol command
<b>Transmit Protocol</b>	TCP, UDP, SMS
<b>Working Modes</b>	Power saving mode for long standby time Continuous mode for emergency tracking
<b>Scheduled Timing Report</b>	Report position and status at preset time intervals
<b>Geo-fences</b>	Support up to 5 internal geo-fence regions
<b>Low Power Alarm</b>	Alarm when internal battery is low
<b>Wakeup Report</b>	Report when the device wakes up
<b>Motion Detection</b>	Motion detection based on internal 3-axis accelerometer
<b>Reporting Frequency Adjustment</b>	Intelligent adjustment of reporting frequency