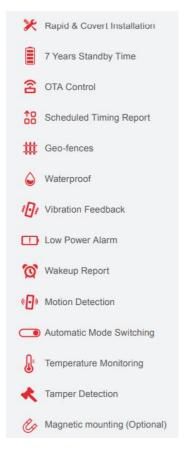
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GAT-Pro (GL500) LTE Series

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





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)

GESOO SCIII	3 Models (ETE	,			
	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	

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Appearance STATUS LED / GPS LED Light Sensor Power Button Optional Magnet Holder

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 (UL) 375 Kbps (DL) 32 Kbps (UL) 70 Kbps		

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

Used for power on/off and switch of device working mode
Internal only
Internal only
GNSS, PWR

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General Specifications

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

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 5 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