








# GL300

## Advanced Asset Tracker

-  **Water Resistant**
-  **Full Power Management**
-  **Over 200 Days Standby Time with External Battery**
-  **Vibration-Feedback Key, Easy to Operate**
-  **Built in Temperature Sensor**

GL300 is a powerful GPS Tracker designed for asset, vehicle, and pet tracking. With superior receive sensitivity, fast TTFF (Time to First Fix) and Quad band GSM frequencies 850/900/1800/1900, its location can be continuously monitored or periodically reported to a backend server or other device. Based on the embedded @Track protocol, the GL300 can communicate with the backend server through the GPRS/GSM network (or SMS) to report emergency alerts, Geo-Fence boundary crossings, low battery and scheduled GPS positions along with several other advanced reporting features. System integrators can easily setup their custom tracking platforms to communicate with the GL300 based on the @Track protocol.



### Advantages

- Water resistant
- Quad band GSM/GPRS frequencies 850/900/1800/1900MHz
- Built in u-blox GPS chipset with -162dBm tracking sensitivity, -147dBm autonomous sensitivity and AGPS supported for fast TTFF, high accuracy
- Built in GSM/GPS antennas
- Embedded full-featured @Track protocol
- Vibration-feedback key, easy to operate
- Built in temperature sensor
- Built in 3-axis accelerometer for power saving and motion detection
- Low power consumption, over 200 days standby time with external battery
- Full power management, support external DC power or battery

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### GSM Specifications

Frequency	Quad band: 850/900/1800/1900MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900MHz) -Class 1 (1W @ 1800/1900MHz)
GPRS	GPRS multi-slot class 12 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	33.0dBm±2dBm
Dynamic Input Range	-15~-108dBm
Receiving Sensitivity	Class II RBER2%(-107dBm)
Stability Of Frequency	<2.5ppm
Max Frequency Error	±0.1ppm

### GPS Specifications

GPS Chipset	u-blox All-In-One GPS receiver sensitive Fast and accurate sensitivity
Sensitivity	Autonomous: -148dBm Hot start: -157dBm Tracking: -162dBm
Position Accuracy	Autonomous: <2.5m SBAS: 2.0m
TTF (Open Sky)	Cold start: 27s average Warm start: <27s Hot start: <1s Aided start: <3s

### General Specifications

Dimension	68.5mm*38.5mm*23.5mm
Weight	60g
Battery	Li-Polymer 1300mAh, 3.7V
Standby Time	Without reporting: 400 Hours 5 minutes reporting: 140 Hours 10 minutes reporting: 180 Hours
Water Resistance	IPX5 compliant
Charge Voltage	5V DC
External Battery Voltage	3.5V to 4.5V DC
Operation Temperature	-20°C~+55°C

### Interfaces

Digital Inputs	Two digital inputs One positive trigger for ignition detection One negative trigger input for normal use
Power Key	Power on and power off, can be disabled by the air interface protocol
Function Key (Vibration Feedback)	SOS alarm or quick Geo-Fence setting
GSM/GPS Antennas	Internal only
Indicator LED	GSM, GPS and battery status
Mini USB Interface	For external power and configuration

### Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position follow the pre-set time interval, distance, mileage or intelligent report
Geo-Fence	Support 5 Geo-Fence regions
Power On/Off Report	Report when the device is powered on and off
Low Power Alarm	Alarm when internal battery is low
SOS/Emergency Alarm	SOS alarm when function key is pressed
Temperature Alarm	Alarm according to the pre-set temperature range
Special Alarm	Special alarm based on digital input
Movement Detection	Movement alarm and scheduled report parameter change



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