

# GL100

## GPS Locator With Compact Size

- Water Resistance
- Super Sensitivity and High Accuracy
- Quad Band GSM/GPRS
- Low Power Consumption
- Embedded Full-Featured @Track Protocol
- RoHS Compliant



GL100 is a powerful GPS Tracker designed for vehicle, pet and asset tracking. With superior receive sensitivity, fast TTF (Time to First Fix) and Quad-band GSM frequencies 850/900/1800/1900 its location can be monitored or periodically reported to a backend server or other device. Based on the embedded @Track protocol, the GL100 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 GL100 based on the @Track protocol.

### Advantages

- Water Resistance.
- Built in SIRF Star III chipset with -158dBm tracking sensitivity and -142 dBm autonomous sensitivity. Fast TTF and high accuracy.
- Low power consumption, Long standby time.
- Quad band GSM/GPRS frequencies 850/900/1800/1900
- Embedded full-featured @Track protocol
- Certificated with PTCRB FCC CE IC



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### GSM Specifications

<b>Frequency</b>	Quad-Band: 850/900/1800/1900MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900MHz) -Class 1 (1W @ 1800/1900MHz)
<b>GPRS</b>	GPRS multi-slot class 10 GPRS mobile station class B
<b>RMS Phase Error</b>	5 deg
<b>Max Out RF Power</b>	33.0dBm±2dBm
<b>Dynamic Input Range</b>	-15 ~ -102 dBm
<b>Receiving Sensitivity</b>	Class II RBER 2% (-102dBm)
<b>Stability Of Frequency</b>	Greater than 2.5ppm
<b>Max Frequency Error</b>	±0.1ppm

### GPS Specifications

<b>GPS Chipset</b>	SIRF Star III GPS Receiver Sensitive, Fast and Accurate
<b>Sensitivity</b>	Autonomous: -142 dBm Hot start : -155 dBm Tracking: -156 dBm
<b>Channels</b>	20 channels all-in-view tracking
<b>TTFF (Open Sky)</b>	Cold start 44 s average Warm start <38s Hot start <2 s

### User Interfaces

<b>Mini USB Connector</b>	Include charge and UART
<b>Power Button</b>	For power on and power off. Can be disabled by the air interface protocol.
<b>Function Button</b>	For SOS alarm or quick setting of Geo-Fence.

### General Specifications

<b>Dimension:</b>	66mm* 36mm * 20mm
<b>Weight</b>	60 g
<b>Backup Battery</b>	Li-Polymer 1300 mAh , 3.7V
<b>Standby Time</b>	Without reporting :180 to 220 Hours 5 minutes reporting : 70 to 90 Hours 10 minutes reporting : 100 to 120 Hours
<b>Operation Temperature</b>	-20℃ ~+55℃ for working -30℃ ~+70℃ for Storage
<b>Water Resistance</b>	Follow IPX6 Standard
<b>Certification</b>	PTCRB FCC CE IC

### Air Interface Protocol

<b>Transmit Protocol</b>	TCP,UDP,SMS
<b>Scheduled Timing Report</b>	Report Position follow a pre-set fix interval and report interval
<b>Geo-Fence</b>	5 Geo-Fence regions can be defined. One of them can be quick set by function key
<b>Low Power Alarm</b>	Alarm when backup battery is low
<b>Power On Report</b>	Report when the device is powered on
<b>Power Down Alarm</b>	Report when the device is turned off
<b>SOS/Emergency Alarm</b>	SOS alarm when SOS key is pressed

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