





GL200

Multi-Functional Mini Assets Tracker



-  **Water Resistant**
-  **Full Power Management**
-  **Over 200 Days Standby Time with External Battery**
-  **I/O Interface to Connect Directly to Vehicles**

GL200 is a powerful GPS tracker designed for vehicle, pet and asset tracking. With superior receiver sensitivity, fast TTFF (Time to First Fix) and Quad band GSM frequencies 850/900/1800/1900MHz, its location can be continuously monitored or periodically reported to a backend server or other device. Based on the embedded @Track protocol, the GL200 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 GL200 based on the @Track protocol.

Advantages



- Water resistant
- Quad band GSM/GPRS frequencies 850/900/1800/1900MHz
- Embedded full-featured @Track protocol
- Built in uBlox GPS chipset with -162dBm tracking sensitivity, -148dBm autonomous sensitivity for fast TTFF and high accuracy
- Built in GSM/GPS antennas
- MMCX type RF connector for external GPS antenna
- Low power consumption, over 200 days standby time with external battery
- Built in 3-axis accelerometer for conserving power and motion detection
- Full power management: can be connected to external DC power or battery
- CE/FCC/PTCRB/Anatel certified

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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	uBlox All-In-One GPS receiver sensitive Fast and accurate sensitivity
Sensitivity	Autonomous: -148dBm Hot start: -160dBm Tracking: -162dBm
Position Accuracy	Autonomous: <2.5m SBAS: 2.0m
TTF (Open Sky)	Cold start: 30s average Warm start: <30s Hot star: <1s

Interfaces

Digital Inputs	Two digital inputs One positive trigger for ignition detection One negative trigger input for normal use
Digital Output	One digital output, open drain, 150mA drive current max
Power Button	For power on and power off, can be disabled by the air interface protocol
Function Button	For SOS alarm or quick setting of Geo-Fence
Mini USB Interface	For external power and configuration
MMCX RF Connector	For external GPS antenna
Indicator LED	GSM, GPS and battery status

General Specifications

Dimension	67.5mm*40mm*21mm
Weight	60g
Battery	Li-Polymer 1300mAh
Standby Time	Without reporting: 400 Hours 5 minutes reporting: 130 Hours 10 minutes reporting: 150 Hours
Water Resistance	Follow the IPX5 standard
Charge Voltage	5V DC
External Battery Voltage	3.5V to 4.5V DC
Operating Temperature	-20°C~+55°C

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position follow the pre-set fix interval and report interval
Geo-Fence	5 Geo-Fence regions can be defined
Low Power Alarm	Alarm when internal battery is low
Power On Report	Report when the device is powered on
Power Off Report	Report when the device is powered off
Non-Movement Detection	Movement alarm based on built in 3-axis accelerometer
SOS/Emergency Alarm	SOS alarm when function key is pressed

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