Queclink
WIRELESS SOLUTIONS

GL100M

Compact Size
GPS Locator

- Built in 3D motion sensor
- Water Resistant
- Super Sensitivity and High Accuracy
- Quad Band GSM/GPRS
- Low Power Consumption
- Embedded Full-Featured @Track Protocol
- RoHS Compliant

GL100M is a powerful GPS locator designed for vehicle, pet and asset tracking applications. With superior receive sensitivity, fast TTFF (Time to First Fix) and Quad-band GSM frequencies 850/900/1800/1900, its location can be monitored in real time or periodically tracked by a backend server or other specified terminals. Based on the integrated @Track protocol, the GL100M can communicate with a backend server through the GPRS/GSM network (or SMS) to transfer reports of emergency, geo-fence boundary crossings, low battery or scheduled GPS position along with many other useful functions. System integrators can easily setup their tracking systems based on the full-featured @Track protocol.

Advantages

- Water Resistant
- Built in uBlox GPS chipset with -162dBm tracking sensitivity, –148 dBm autonomous sensitivity. Fast TTFF and high accuracy
- Low power consumption, Long standby time
- Built-in 3D motion sensor for power saving and motion detection
- Firmware upgrade over the air

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Compact Size
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66 mm
36 mm
20 mm

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 ~ -102 dBm
Receiving Sensitivity	Class Ⅱ RBER2%(-102dBm)
Stability Of Frequency	Greater than 2.5 ppm
Max Frequency Error	±0.1ppm

GPS Specifications

GPS Chipset	uBlox All-In-One GPS Receiver Sensitive, Fast and Accurate
Sensitivity	Cold start: -148dBm Reacquisition: -160dBm Tracking: -162dBm
Position Accuracy	Autonomous: <2.5 m SBAS : 2.0 m
TTFF (Open Sky)	Cold start: 30s Warm start: <30s Hot start: <1s

Interfaces

Power Button	Power on or off device
Mini USB Connector	For external power and configuration
Function Button	For SOS alarm or quick setting of Geo-Fence

General Specifications

Dimension	66mm * 36mm * 20mm
Weight	60 g
Battery	Li-ion 1300 mAh , 3.7V
Standby Time	Without reporting: 300 to 400 Hours 5 minute reporting: 120 to 170 Hours 10 minute reporting: 170 to 220 Hours
Operation Temperature	-30℃ ~+55℃
Water Resistance	Follow IPX6 Standard
Charge Voltage	5V DC

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 almost exhausted
Power On Report	Report when the device is powered on
Power Down Report	Report when the device is powered off
No Movement Detection	Movement alarm based on built in 3D sensor

Queclink Wireless Solutions

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