

GV100

Automatic Vehicle Location Solution

- Wide Operating Voltage
From 8 to 32V DC
- Super Sensitivity and High Accuracy
- Quad Band GSM/GPRS
- Low Power Consumption
- Embedded Full-Featured @Track Protocol
- RoHS Compliant
- Multiple Input/output Interfaces



The GV100 is a powerful GPS Locator designed for vehicle tracking applications. With superior receiving sensitivity, fast TTFF (Time to First Fix) and Quad-Band GSM frequencies 850/900/1800/1900, it's location can be monitored in real time or periodically tracked by a backend server or other specified terminals. The GV100 has Multiple input/output interfaces which can be used for monitoring or controlling external devices. Based on the integrated @Track protocol, the GV100 can communicate with a backend server through the GPRS/GSM network to transfer reports of Emergency, Geo-fence boundary crossings, Lower Battery or scheduled GPS position along with many other useful functions. Users can also use GV100 to monitor the status of a vehicle and control the vehicle with its onboard relay output. System Integrators can easily setup their tracking systems based on the full-featured @Track protocol.

Advantages

- Wide operating voltage : 8 to 32V DC
- Built in MTK GPS chipset with -165dBm tracking sensitivity, -147 dBm autonomous sensitivity for fast TTFF and high accuracy.
- Low power consumption, Long standby time with internal battery.
- Quad band GSM/GPRS frequencies 850/900/1800/1900
- Embedded full-featured @Track protocol
- Multiple input/output interfaces for monitoring and controlling.
- Built-in 3D motion sensor for power saving and motion detection.
- Certificated with CE FCC



GV100

Automatic Vehicle Location Solution

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	MTK All-In-One GPS Receiver Sensitive, Fast and Accurate
Sensitivity	Autonomous : -148dBm Hot start : -160dBm Tracking: -165dBm
Position Accuracy	Without Aid: 3.0 m 2D-RMS DGPS : 2.5 m
TTFF (Open Sky)	Cold start 35s average Warm start <35s Hot start <1.2 s

Interfaces

Digital Inputs	5 Digital Inputs. Three positive trigger and two negative trigger.
Analog Input	1 10bits Analog to Digital Converter.
Digital Outputs	4 Digital Outputs. Negative trigger, Max output current 300mA
Relay Output	1 Built-In Relay Output. Max output current 2A.
Audio Connector	2.5mm Earphone Jack for speaker and microphone
Power Connector	4 Pin Molex Type Connector
GSM Antenna	SMA Type Connector
GPS Antenna	SMA Type Connector
Indicator LED	GSM, GPS and Power
Configuration Serial Port	DB9 Connector



General Specifications

Dimension	120mm* 54mm * 25mm
Weight	150 g
Backup Battery	Li-Polymer 1400 mAh, 3.7 V
Standby Time	Without reporting: 120 to 150 Hours 5 minutes reporting: 50 to 60 Hours 10 minutes reporting: 70 to 80 Hours
Operation Voltage	8 – 32 V DC
Operation Temperature	-30°C ~+80°C (Without Battery) -40°C ~+85°C for Storage
Power Management	Fully Power Path. Internal battery will not be used when external power is connected

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report Position follow the pre-set fix interval and report interval
Geo-Fence	Geo-Fence alarm and parking alarm
Low Power Alarm	Alarm when backup battery is running out
Power On Report	Report when the device is powered on
Tow Alarm	With built-in motion sensor
Antenna Disconnect Alarm	Alarm when the GPS antenna is disconnected
Special Alarm	Special alarm based on the digital/analog inputs.
Remote Control	Control the digital outputs through air interface protocol

Queclink Wireless Solutions

Address: Room 501, Building 9, No.99, Tianzhou Road, Shanghai, China
Web: <http://www.queclink.com/>
Email : sales@queclink.com