

GV200G

Automatic Vehicle Tracking Device with GPS/GLONASS Technology

- ▶ *GLONASS Support*
- ▶ *Multiple Digital and Analogue I/Os*
- ▶ *RoHS Compliant*
- ▶ *Build in Internal GSM and GPS Antenna*
- ▶ *Low Power Consumption*
- ▶ *Quad Band GSM/GPRS*
- ▶ *Super Sensitivity and High Accuracy*
- ▶ *Wide Operating Voltage From 8 to 32V DC*



The GV200G is a powerful GPS/GLONASS 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, its location can be monitored in real time or periodically tracked by a backend server or other specified terminals. GV200G has Multiple input/output interfaces which can be used for monitoring or controlling external devices. Based on the integrated @Track protocol, GV200G can communicate with a backend server through the GPRS/GSM network 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

- Wide operating voltage : 8 to 32V DC
- Built in GPS/GLONASS chipset with -159dBm tracking sensitivity, -145dBm autonomous sensitivity for fast TTFF and high accuracy
- Low power consumption, long standby time with internal battery
- Quad band GSM/GPRS frequencies 850/900/1800/1900MHz
- Embedded full-featured @Track protocol
- Multiple input/output interfaces for monitoring and control
- Built in 3D motion sensor for power saving and motion detection
- Three analog inputs for external sensor
- Built in or optional external GSM antenna
- Built in or optional external GPS antenna



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

GPS Specifications

GPS Chipset	All-In-One GPS/GLONASS Receiver Sensitive, Fast and Accurate
Sensitivity	Autonomous: -145dBm Tracking: -159dBm
Position Accuracy	2.5m CEP
TTF (Open Sky)	Cold start 35s average Warm start < 35s Hot start < 1.2s

Interfaces

Digital Inputs	4 Digital Inputs. Two positive trigger and two negative trigger
Analog Input	3 Analog Inputs (0 to 2.8V)
Digital Outputs	4 Digital Outputs. Negative trigger, Max output current 200mA
Two-Way Audio	Speaker and Microphone On 24 PIN Molex Type connector
GSM/GPS Antenna	FAKRA Type connector for external antennas
Indicator LED	GSM, GPS and Power
Serial Port	Two RS232 serial ports on 24 PINS Molex Type connector. One for configuration another for external devices (GARMIN protocol support)

General Specifications

Dimension	105mm * 78mm * 24 mm
Weight	140 g
Backup Battery	Li-ion 1000mAh, 3.7V
Standby Time	Without reporting: 90 to 110 Hours 5 minute reporting: 40 to 50 Hours 10 minute reporting: 50 to 60 Hours
Operation Voltage	8 to 32V DC
Operation Temperature	-30℃~+80℃ (Without Battery) -40℃~+85℃ for Storage (Without Battery)
Power Management	Full power path management; Internal battery is no used when external power is available

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Position reports at pre-set time and distance intervals
Geo-Fence	Geo-Fence alarm and parking alarm
Low Power Alarm	Alarm when internal battery is low
Power On Report	Report when the device is powered on
Tow Alarm	With built in 3D 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

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