








GV200G

Full Featured Vehicle Tracker GPS/GLONASS Technology



-  **Wide Operating Voltage Range 8 to 32V DC**
-  **Multiple Analogue and Digital Inputs/Outputs**
-  **GLONASS Support**
-  **FAKRA Antenna Connectors**
-  **GARMIN FMI/Multiple Sensors/Voice Support**

The GV200G is a full featured GPS/GLONASS tracker designed for a wide variety of vehicle tracking applications. The GV200G has multiple input/output interfaces that can be used for monitoring or controlling external devices. It is supported by a wide variety of accessories. Its built in GPS receiver has superior sensitivity and fast time to first fix. Its quad band GPRS/GSM subsystem supports 850/900/1800/1900 MHz allowing the GV200G's location to be monitored in real time or periodically tracked by a backend server and mobile devices. Its built in 3-axis accelerometer allows towing detection. System integration is straightforward as complete documentation is provided for the full featured @Track protocol. The @Track protocol supports a wide variety of reports including; emergency, geo-fence boundary crossings, low battery or scheduled GPS position and many other useful functions.

Advantages

- Wide operating voltage range 8 to 32V DC
- Internal GPS/GLONASS chipset
- Low power consumption, long standby time with internal battery
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded full-featured @Track protocol
- Multiple input/output interfaces for monitoring and control
- Internal 3-axis accelerometer for power saving and motion detection
- Three analog inputs for external sensor
- Internal or optional external GSM antenna
- Internal or optional external GPS antenna
- CE/PCT RU certified



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GSM Specifications

Frequency	Quad band : 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ -Class 4 (2W @ 850/900 MHz) -Class 1 (1W @ 1800/1900 MHz)
GPRS	GPRS multi-slot class 12 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	33.0 dBm ±2 dBm
Dynamic Input Range	-15 ~ -108 dBm
Receiver Sensitivity	Class II RBER 2% (-107 dBm)
Stability Of Frequency	< 2.5 ppm
Max Frequency Error	±0.1 ppm

GPS Specifications

GPS Chipset	GPS/GLONASS receiver
Sensitivity	Autonomous : -144 dBm Tracking : -161 dBm
Position Accuracy	2m CEP
TTF (Open Sky)	Cold start : 35s average Warm start : < 35s Hot start : < 1s

Interfaces

Digital Inputs	4 digital inputs Two positive trigger and two negative trigger
Analog Inputs	3 analog inputs (0 to 2.8V)
Digital Outputs	4 digital outputs Negative trigger, max current drain 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 pin molex type connector. One for configuration the other for external devices (GARMIN protocol support)



General Specifications

Dimensions	105mm * 78mm * 24mm
Weight	140g
Backup Battery	Li-ion 1000mAh, 3.7V
Standby Time	Without reporting : 220 Hours 5 minutes reporting : 80 Hours 10 minutes reporting : 95 Hours
Operating Voltage	8 to 32V DC
Operating Temperature	-30°C ~ +80°C (without battery) -40°C ~ +85°C for storage(without battery)
Power Management	Full power path management. Backup battery is not 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 backup battery is low
Power On Report	Report when the device is powered on
Tow Alarm	From internal 3-axis accelerometer
Antenna Disconnect Alarm	Alarm when the GPS antenna is disconnected
Special Alarm	Special alarm based on the digital/analog inputs
Remote Control	OTA control of outputs



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