



GV200G

Advanced and Flexible Vehicle Tracker GPS/GLONASS Technology



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

 **GLONASS Support**

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 850/900/1800/1900MHz, 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, the 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.

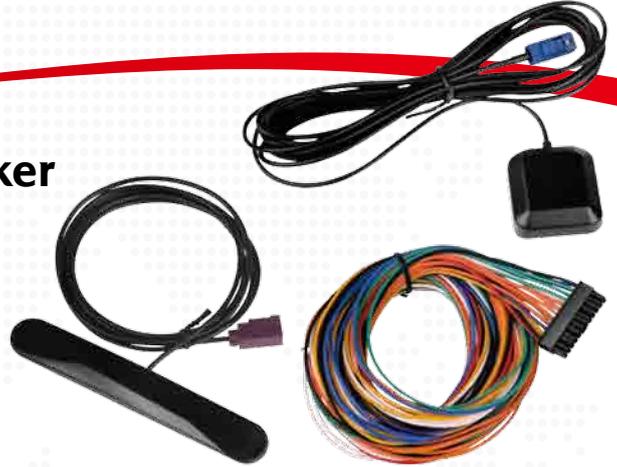
Advantages

- Wide operating voltage range 8 to 32V DC
- Built in GPS/GLONASS chipset with -161dBm tracking sensitivity, -144dBm 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 and optional external GSM antenna
- Built in and optional external GPS antenna
- CE/PCT RU 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~-102dBm |
| Receiving Sensitivity | Class II RBER2%(-102dBm) |
| Stability Of Frequency | <2.5ppm |
| Max Frequency Error | ±0.1ppm |

General Specifications

| | |
|-----------------------|-------------------------------------------------------------------------------------------------|
| Dimension | 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 |
| Operation Voltage | 8 to 32V DC |
| Operation Temperature | -30°C~+80°C(Without battery) -40°C~+85°C for storage(Without battery) |
| Power Management | Full power path management. Internal battery is no used when external power is available |

GPS Specifications

| | |
|-------------------|----------------------------------------------------------------|
| GPS Chipset | All-In-One GPS/GLONASS receiver sensitive Fast and Accurate |
| Sensitivity | Autonomous: -144dBm Tracking: -161dBm |
| Position Accuracy | 2m CEP |
| TTFF (Open Sky) | Cold start: 35s average Warm start <35s Hot start <1s |

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 |

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 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) |

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