



GV200

Full Featured Vehicle Tracker



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

The GV200 is a full featured GPS tracker designed for a wide variety of vehicle tracking applications. It has multiple I/O 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 GV200'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, ge-fence boundary crossings, low battery and scheduled GPS position.

Advantages

- Wide operating voltage range 8V to 32V DC
- Internal u-blox 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 I/O interfaces for monitoring and control
- Internal 3-axis accelerometer for power conservation and motion detection
- Three analog inputs for external sensor
- Internal and optional external GSM antenna
- Internal and optional external GPS antenna
- CE/E-Mark 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	GSM850/GSM900: 33.0±2 dBm DCS/PCS: 30.0±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	u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -148 dBm Hot start: -160 dBm Tracking: -162 dBm
Position Accuracy	Autonomous: < 2.5m SBAS: 2m
TTF (Open Sky)	Cold start: 30s average Warm start: < 30s Hot start: < 1.2s

Interfaces

Digital Inputs	Four digital inputs. Two positive trigger inputs and two negative trigger inputs
Analog Inputs	Three analog inputs (0 to 2.8V)
Digital Outputs	Four digital outputs. Negative trigger, 200 mA max current drain.
Two-way Audio	Speaker and microphone on 24 pin molex type connector
GSM/GPS Antenna	FAKRA type connector for optional 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 1000 mAh
Standby Time	Without reporting: 220 hours 5 minute reporting: 100 hours 10 minute reporting: 150 hours
Operating Voltage	8V 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	Report position at preset time and distance intervals
Geo-fence	Geo-fence alarm and parking alarm, support up to 5 internal geo-fence regions
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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