



GV300

Advanced Vehicle Tracking Device

- 📶 **Wide Operating Voltage Range 8V to 32V DC**
- 📶 **Multiple I/Os Including 1 Smart Input**
- 📶 **GARMIN FMI/Multiple Sensors/Voice Support**



The GV300 is a compact 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. 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 GV300'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 motion detection and extends battery life through sophisticated power management algorithms. 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, driving behavior, 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 supporting driving behavior monitoring, power saving and motion detection
- Internal GSM antenna
- Internal and external GPS antenna
- CE/FCC/Anatel/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 10 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

Interfaces

Digital Inputs	Three digital inputs One positive trigger for ignition detection Two negative trigger inputs for normal use
Configurable Inputs	One special input can be configured to negative trigger digital input or analog input (0-16V)
Analog Inputs	One analog input (0.3V-16V)
Digital Outputs	Two digital outputs, open drain, 150 mA max current drain
Latched Digital Outputs	One digital output with internal latch circuit, open drain, 150 mA max current drain
Two-way Audio	Two differential outputs/one single end input
GSM Antenna	Internal only
GPS Antenna	Internal and optional external GPS antenna
Indicator LED	GSM, GPS and power
Mini USB port	Mini USB port for upgrading and debugging
Serial Port	One RS232 serial port on 16 pin molex type connector, for external devices (GARMIN protocol support)

GPS Specifications

GPS Chipset	56-channel u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m SBAS: < 2.0m
TTF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

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 20 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 external GPS antenna is disconnected
Driving Behavior Monitoring	Aggressive driving behavior detection, e.g. harsh braking and acceleration
Crash Detection	Accident data collection for reconstruction and analysis
Special Alarm	Special alarm based on the digital/analog inputs
Remote Control	OTA control of outputs

General Specifications

Dimensions	80mm*49mm*26mm
Weight	71g
Backup Battery	Li-Polymer 250 mAh
Standby Time	Without reporting: 90 hours 5 minutes reporting: 48 hours 10 minutes reporting: 50 hours
Operating Voltage	8V to 32V DC
Operating Temperature	-30°C ~ +80°C -40°C ~ +80°C for storage

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