

GV300

Powerful and Versatile Vehicle Tracking Device

- ▶ Wide Operating Voltage
From 8 to 32V DC
- ▶ Super Sensitivity
and High Accuracy
- ▶ Quad Band GSM/GPRS
- ▶ Low Power Consumption
- ▶ Build In GSM/GPS Antenna
- ▶ RoHS Compliant
- ▶ Multiple Inputs/Outputs



GV300 is a powerful GPS tracker 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. The GV300 has multiple input/output interfaces that can be used for monitoring or controlling external devices. Based on the integrated @Track protocol, the GV300 can communicate with a backend server through the GPRS/GSM network to transfer reports of emergency, geo-fence boundary crossings, low battery, GSM Cell ID, or scheduled GPS position as well as 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 ublox chipset with -162dBm tracking sensitivity, -148 dBm 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
- Built in GSM antenna
- Built in or external GPS antenna



GV300

Powerful and Versatile Vehicle Tracking Device

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

GPS Specifications

GPS Chipset	uBlox All-In-One GPS Receiver Sensitive Fast and Accurate
Sensitivity	Autonomous: -148dBm Hot start : -160dBm Tracking: -162dBm
Position Accuracy	Autonomous: < 2.5m SBAS: 2.0m
TTF (Open Sky)	Cold start: 30s Warm start < 30s Hot start < 1.2s

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 (0.3-16V)
Digital Outputs	Two digital outputs, open drain, 150mA drive current max
Latched Digital Outputs	One digital output with internal latch circuit, open drain, 150mA drive current max.
Two-way Audio	Two differential outputs/One single end input
GSM Antenna	Internal only
GPS Antenna	Built in or optional external GPS antenna
Indicator LED	GSM,GPS and Power
Mini usb port	Mini usb port for upgrading and debugging



General Specifications

Dimension	80mm * 49mm * 26mm
Weight	71 g
Backup Battery	Li-Polymer 250mAh
Standby Time	Without reporting: 72Hours 5 minutes reporting: 33 Hours 10 minutes reporting: 45 Hours
Operation Voltage	8 to 32V DC
Operation Temperature	-30℃ ~ +80℃ (Without Battery) -40℃ ~ +85℃ for Storage(Without Battery)

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report Position follow the pre-set fix interval and report intervals
Geo-Fence	Geo-Fence alarm and parking alarm
Low Power Alarm	Alarm when backup battery is almost exhausted
Power On Report	Report when the device is powered on
Tow Alarm	With built in 3D motion sensor
Antenna Disconnect Alarm	Alarm when the external GPS antenna is disconnected
Special Alarm	Special alarm based on the digital/analog inputs
Remote Control	Control the digital outputs through air interface protocol

Queclink Wireless Solutions

Address: Room 501, Building 9, No.99, Tianzhou Road, Shanghai, China
Web: <http://www.queclink.com>
Email : sales@queclink.com