



- ✓ **Versatile and Scalable**
- ✓ **3G CDMA Communications**
- ✓ **Operates on 12 and 24 volt systems**
- ✓ **Battery backup for uninterrupted operation**
- ✓ **Built-in Accelerometer for driver behavior audit**

The GV300VC is a compact GPS tracker designed for light, medium, and heavy-duty trucks. Operating on the nimbleGPS tracking platform, it delivers a feature-rich package at a low price. You will be able to identify pinpoint location in real-time, turn by turn breadcrumb trails, excessive idling, overspeed, stop/starts with duration, miles traveled by state, and runtime (hours). Multiple I/O interfaces can be used for optional monitoring or controlling external devices like PTOs. The integrated cellular and GPS antennas ensure an easy and covert installation.



## Advantages

- Dual-band CDMA2000 1XRTT frequencies for wider coverage, better reception
- Wide operating voltage range of 8V to 32V DC
- FCC/Verizon certification ensures a quality product
- Simple 3-wire electrical hookup
- Optional monitoring of PTO operation
- Optional external GPS antenna
- Tracker Systems' 24/7/365 Customer Service
- Limited Lifetime Warranty



# GV300VC

Vehicle Tracking Device



## Product Specifications

### General Specifications

Dimensions	80mm x 49mm x 26mm 3.15in x 1.92in x 1.02in
Weight	71g / 2.50oz
Backup Battery	Li-Polymer 250 mAh
Operating Voltage	8V to 32V DC
Operating Temperature	-22°F ~ 176°F -40°F ~ 185°F for storage

### GPS Specifications

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

### Interfaces

Digital Inputs	Three digital inputs One positive trigger for ignition detection Two negative trigger input for normal use
Configurable Inputs	One special input can be configured for negative trigger digital input or analog input (0-16V)
Analog Input	One analog input (0-16V)
Digital Outputs	Two digital outputs: open drain, 150 mA max drive current
Latched Digital Outputs	One digital output w/ internal latch circuit, open drain, 150 mA max current drain
CDMA Antenna	Internal Only
GPS Antenna	Internal and opt external GPS antenna
Indicator LED	CEL, GPS, and power
Mini USB Port	Mini USB port for upgrading & debugging
Serial Port	One RS232 serial port on 16 PIN molex type connector for external devices (Garmin FMI protocol support)

### CDMA Specifications

Frequency	Dual band: BC0/BC1 Compliant to CDMA2000 1xRTT
Max Data Rate	CDMA2000 1xRTT: 153.6 Kbps
Max Out RF Power	23 ~ 25 dBm
Min Out RF Power	<-50dBm
Dynamic Input Range	-25 ~ -110 dBm
Receiving Sensitivity	BC0: -110 dBm BC1: -107 dBm
Max Frequency Error	800 MHz band: +/-300 Hz 1900 Mhz band: +/-150 Hz

### Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position and status at preset 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
Driving Behavior Monitoring	Aggressive driving behavior detection, e.g. harsh braking and rapid acceleration
Crash Detection	Accident data collection for reconstruction and analysis
Antenna Disconnect Alarm	Alarm when the external GPS antenna is disconnected
Special Alarm	Special alarm based on the digital inputs
Remote Control	OTA control of digital outputs

Specifications and features are subject to change without notice. All efforts have been made to accurately define the functionality of this device. We are not responsible for errors or omissions.

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