



# GV300VC

## CDMA2000 1xRTT Vehicle Tracking Device



- 📶 **Driving Behavior Monitoring and Incident Notification**
- 📶 **Dual Band CDMA2000 1xRTT Frequencies 800/1900 MHz (BC0/BC1)**
- 📶 **Wide Operating Voltage Range 8V to 32V DC**
- 📶 **Multiple I/Os Including 1 Smart Input**
- 📶 **GARMIN FMI/Multiple Sensors Support**

The GV300VC 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 dual band CDMA2000 1xRTT allows the GV300VC'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
- Dual band CDMA2000 1xRTT frequencies 800/1900 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 CDMA antenna
- Internal and external GPS antenna
- FCC/Verizon certified

# GV300VC

## CDMA2000 1xRTT Vehicle Tracking Device



### 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	< -50 dBm
Dynamic Input Range	-25 ~ -110 dBm
Receiving Sensitivity	BC0: -110 dBm BC1: -107 dBm
Max Frequency Error	800 MHz band: $\pm 300$ Hz 1900 MHz band: $\pm 150$ Hz

### General Specifications

Dimension	80mm*49mm*26mm
Weight	71g
Backup Battery	Li-Polymer 250 mAh
Operating Voltage	8V to 32V DC
Operating Temperature	-30°C ~ +80°C -40°C ~ +80°C for storage

### 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
Driving Behavior Monitoring	Aggressive driving behavior detection, e.g. harsh braking and 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/analog inputs
Remote Control	OTA control of outputs

### 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 (0-16V)
Digital Outputs	Two digital outputs, open drain, 150 mA max drive current
Latched Digital Outputs	One digital output with internal latch circuit, open drain, 150 mA max current drain
CDMA Antenna	Internal only
GPS Antenna	Internal and optional external GPS antenna
Indicator LED	CEL, 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)

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