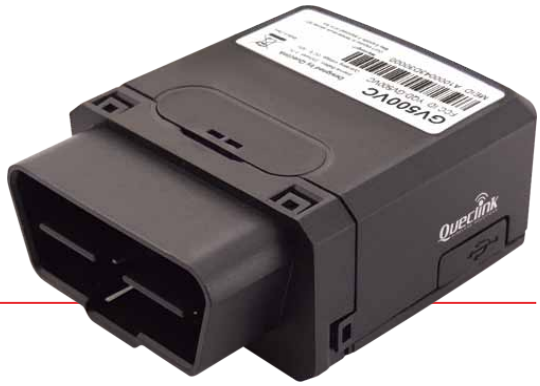
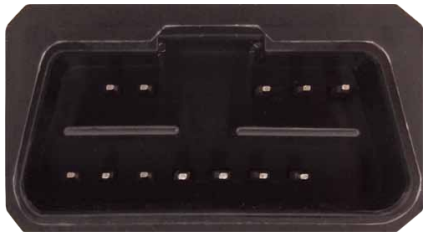
GV500VC

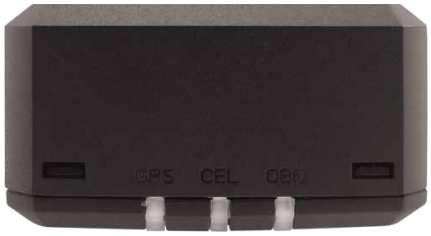
CDMA2000 1xRTT OBD Vehicle Tracking Device



- **Compact Design, Plug and Play**
- **Real Time Vehicle Status Monitoring From OBD Port**
- **Wide Operating Voltage Range 8V to 32V DC**
- **Perfect for Insurance and Car Leasing Applications**

The GV500VC is a vehicle tracking device that plugs into a vehicle's OBDII port. Its compact design allows easy installation. Its internal OBD reader can obtain information from the vehicle's on-board computer and relay it over CDMA2000 1xRTT networks. Its built-in GPS receiver has superior sensitivity and fast time to first fix. Its dual band CDMA2000 1xRTT allows the GV500VC'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. 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, low battery and scheduled GPS position.





Advantages

- OBDII connectivity, easy to install
- Dual band CDMA2000 1xRTT frequencies 800/1900 MHz
- Wide operating voltage range 8V to 32V DC
- Internal u-blox chipset
- Embedded full featured @Track protocol
- Internal 3-axis accelerometer for power saving and motion detection
- Internal CDMA2000 antenna
- Two internal GPS antennas, automatically use the one with better signal
- FCC/Verizon certified

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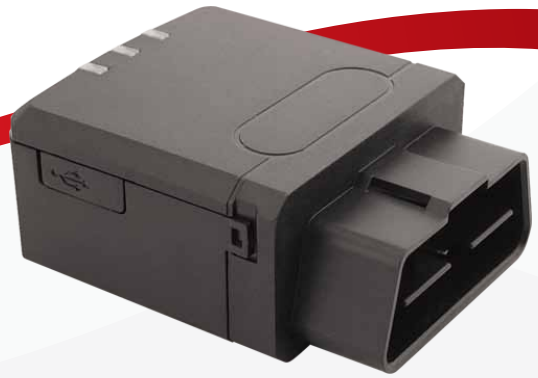

CDMA Specifications

Frequency	Dual band: BC0/BC1 Compliant to CDMA2000 1xRTT
Maximum 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: ±300 Hz 1900 MHz band: ±150 Hz

General Specifications

Dimensions	48mm*25mm*48mm
Weight	About 52g
Backup Battery	Li-Polymer 250 mAh
Operating Voltage	8V to 32V DC
Operating Temperature	-30°C ~ +80°C (without battery) -40°C ~ +85°C for storage (without battery)

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
TTFF (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 and status at preset intervals
OBDII Disconnection Alarm	Alarm report of OBDII connection and disconnection status
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	Alarm trigger based on built-in 3-axis accelerometer

Interfaces

OBDII Port	Allow information to be read from OBDII port and provide device power. Support legislated OBDII protocols: J1850 PWM, J1850 VPW, ISO 9141-2, ISO 14230, ISO 15765-4, J1939
CDMA Antenna	Internal only
GPS Antenna	Internal only
Indicator LED	CEL, GPS and OBD
Mini USB Port	Mini USB port for upgrading and debugging

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