



# GV500

## 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 GV500 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 GPRS networks. 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 GV500'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, geofence boundary crossings, low battery and scheduled GPS position.



### Advantages

- OBDII connectivity, easy to install
- Quad band GSM/GPRS frequencies 850/900/1800/1900 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 GSM antenna
- Two internal GPS antennas, automatically use the one with better signal
- CE/FCC/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 12 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

### General Specifications

Dimension	48mm*25mm*48mm
Weight	About 48g
Backup Battery	Li-Polymer 130 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
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 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 5 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
GSM 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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