GV500

OBD Vehicle Tracking Device

- **Compact Design, Plug In Installation**
- **Real Time Vehicle Status Monitoring from OBD Port**
- **Wide Operating Voltage Range 8 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. It's 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 and extended backup 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, driver behavior, low battery or scheduled GPS position and many other useful functions.

Advantages

- OBDII connectivity, easy to install
- Quad band GSM / GPRS frequencies 850/900/1800/1900 MHz
- Wide operating voltage range 8 to 32V DC
- Internal u-blox GPS chipset
- Low power consumption, long standby time with internal battery
- Embedded full-featured @Track protocol
- Internal 3-axis accelerometer for power saving and motion detection
- Internal GSM antenna
- Internal GPS antenna

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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	33.0 dBm ±2 dBm
Dynamic Input Range	-15 ~ -108 dBm
Receiving 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 42g
Backup Battery	Li-Polymer 250 mAh
Standby Time	Without reporting : 56 Hours 5 minutes reporting : 27 Hours 10 minutes reporting : 36 Hours
Operating Voltage	8 to 32V DC
Operating Temperature	-30°C ~ +80°C (without battery) -40°C ~ +85°C for storage (without battery)

GPS Specifications

GPS Chipset	u-blox All-In-One GPS receiver
Sensitivity	Autonomous : -147 dBm Hot start : -156 dBm Tracking : -162 dBm
Position Accuracy	Autonomous : < 3.0m SBAS : 2.0m
TTFF (Open sky, plug into OBDII port, AGPS)	Cold start : 25s average Warm start : < 25s Hot start : < 1s

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position and status at pre-set intervals
OBDII Disconnection Alarm	Alarm report of OBDII connection and disconnection status
Geo-fence	Geo-fence alarm and parking alarm
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	Allows information to be read from OBDII port, also provides device power. Protocols support: J1850 PWM, J1850 VPW, ISO 9141-2, ISO 14230, ISO 15765, J1939, CAN_USER1, CAN_USER2, VW TP2.0
GSM Antenna	Internal only
GPS Antenna	Internal only
Indicator LED	CEL, GPS and OBD
Mini USB Port	Mini USB port for upgrade and debug

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