



GV55

Mini Vehicle Tracking Device With Internal Battery



- 📶 **Driving Behavior Monitoring and Incident Notification**
- 📶 **Designed for Insurance and Car Leasing Applications**
- 📶 **Small Size Allowing Easier Installation**

The GV55 is a mini 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 quad band GPRS/GSM subsystem supports 850/900/1800/1900 MHz allowing the GV55'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

- Extremely compact enclosure 63mm*50mm*21.8mm
- Internal 3-axis accelerometer supporting driving behavior monitoring, power saving and motion detection
- Internal u-blox chipset
- Low power consumption, long standby time with internal battery
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded full featured @Track protocol
- Multiple I/O interfaces for monitoring and control
- Internal GSM antenna
- Internal GPS antenna
- 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 10 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

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|-----------------------|--|
| Dimensions | 63mm*50mm*21.8mm |
| Weight | 50g |
| Backup Battery | Li-Polymer 250 mAh |
| Standby Time | Without reporting: 59 hours 5 minutes reporting: 35 hours 10 minutes reporting: 45 hours |
| Operating Voltage | 8V to 32V DC |
| Operating Temperature | -30°C ~ +80°C -40°C ~ +80°C for storage |

GPS Specifications

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|-------------------------|--|
| 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 |
| TTFB (Open Sky) | Cold start: 27s average Warm start: 27s average Hot start: 1s average |

Air Interface Protocol

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|-----------------------------|---|
| Transmit Protocol | TCP, UDP, SMS |
| Power Supply Monitoring | Alarm status reporting of the external power and backup battery of the device |
| Scheduled Report | Report position at a preset time interval, distance, mileage or combination of these values |
| Geo-fence | Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions |
| Tow Alarm | Alarm report for movement when ignition is off |
| Speed Alarm | Flexible speed monitoring for unusual speed alarm |
| Driving Behavior Monitoring | Aggressive driving behavior detection, e.g. harsh braking and acceleration |
| Crash Detection | Accident data collection for reconstruction and analysis |
| Special Alarm | Special alarm based on the digital inputs |
| Remote Control | OTA control of device outputs |

Interfaces

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|-------------------------|--|
| Digital Inputs | Two digital inputs One positive trigger for ignition detection One negative trigger input for normal use |
| Digital Outputs | One digital output, open drain, 150 mA max current drain |
| Latched Digital Outputs | One digital output with internal latch circuit, open drain, 150 mA max current drain |
| GSM Antenna | Internal only |
| GPS Antenna | Internal only |
| Indicator LED | GSM, GPS and power |
| Mini USB Port | Mini USB port for upgrading and debugging |

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