



GV55 Lite

Micro Vehicle Tracking Device

- 📶 **Small Size Allowing Covert Installation**
- 📶 **Support Basic Tracking Functions**
- 📶 **Cost Effective Solution for Basic Tracking**



The GV55 Lite is a micro 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 Lite's location to be monitored in real time or periodically tracked by a backend server and mobile devices. 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, external power supply monitoring and scheduled GPS position.



Advantages

- Micro-sized device allowing easier and more covert installation
- Internal u-blox chipset
- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Embedded full featured @Track protocol
- Multiple I/O interfaces for monitoring and control
- Internal 3-axis accelerometer supporting motion detection
- Internal GSM antenna
- Internal GPS antenna
- CE 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

Interfaces

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 drive current
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

GPS Specifications

GPS Chipset	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

Transmit Protocol	TCP, UDP, SMS
Scheduled Timing Report	Report position and status at preset intervals
Geo-fence	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Power On Report	Report when the device is powered on
Special Alarm	Special alarm based on the digital inputs
Remote Control	OTA control of digital outputs
Motion Detection	Motion alarm based on internal 3-axis accelerometer

General Specifications

Dimensions	63mm*50mm*13.2mm
Weight	44g
Operating Voltage	8V to 32V DC
Operating Temperature	-30°C ~ +80°C -40°C ~ +80°C for storage

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