



# GV75

## Waterproof Advanced Vehicle Tracking Device

- 📶 **Waterproof IP67 Compliant**
- 📶 **Wide Operating Voltage Range 8V to 32V DC**
- 📶 **GARMIN FMI/Multiple Sensors Support**



The GV75 is a compact waterproof 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 GV75'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

- Wide operating voltage range 8V to 32V DC
- 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
- Internal 3-axis accelerometer supporting driving behavior monitoring, power saving and 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

### General Specifications

Dimensions	102mm*46mm*20.5mm
Weight	About 100g
Backup Battery	Li-Polymer 1100 mAh
Standby Time	Without reporting: 280 hours 5 minutes reporting: 128 hours 10 minutes reporting: 175 hours
Operating Voltage	8V to 32V DC
Waterproof	IP67 compliant
Operating Temperature	-30°C ~ +80°C -40°C ~ +80°C for storage

### 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 at preset time and distance intervals
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	From internal 3-axis accelerometer
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 outputs

### Interfaces

Digital Input	Two digital inputs One positive trigger for ignition detection One negative trigger input for normal use
Digital Output	One digital output, open drain, 150 mA max current drain
Latched Digital Output	One digital output with internal latch circuit, open drain, 150 mA max current drain
GSM Antenna	Internal only
GPS Antenna	Internal only
Indicator LED	CEL, GPS and power
Serial Port	One RS232 serial port on 8 wire cable, for external devices (GARMIN protocol support)

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