

## Specification:

### GSM Specifications

<b>Frequency</b>	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)
<b>GPRS</b>	GPRS multi-slot class 12 (10 by default) GPRS mobile station class B

### GNSS Specifications

<b>GNSS Type</b>	GNSS Type
<b>Sensitivity</b>	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
<b>Position Accuracy (CEP)</b>	Autonomous: < 2.5m
<b>TTFB (Open Sky)</b>	Cold start: 27s average Warm start: 27s average Hot start: 1s average

### Interfaces

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

### General Specifications

<b>Item</b>	<b>Model</b>	GV75	GV75W
	<b>Dimensions</b>	46mm(L) × 20.5mm(W) × 102mm(H)	
	<b>Weight</b>	100g	122g

<b>Backup Battery</b>	Li-Polymer 1100 mAh	
<b>Operating Voltage</b>	8V to 32V DC	
<b>Operating Temperature</b>	-30°C ~ +80°C	-30°C ~ +70°C
<b>Waterproof</b>	IP67 Compliant	
<b>Standby Time</b>	Without reporting: 280 hours 5 minutes' reporting: 128 hours 10 minutes' reporting: 175 hours	Without reporting: 140 hours 5 minutes' reporting: 70 hours 10 minutes' reporting: 80 hours

## Air Interface Protocol

<b>Transmit Protocol</b>	TCP, UDP, SMS
<b>Scheduled Report</b>	Report position and status based on preset time intervals, distance, mileage or a combination of these settings
<b>Geo-fences</b>	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
<b>Low Power Alarm</b>	Alarm when backup battery is low
<b>Power On Report</b>	Report when the device is powered on
<b>Tow Alarm</b>	Alarm for tow event in ignition-off state
<b>Driving Behavior Monitoring</b>	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
<b>Crash Detection</b>	Accident data collection for reconstruction and analysis
<b>Special Alarm</b>	Special alarm based on digital inputs
<b>Remote Control</b>	OTA control of outputs

## UMTS/ HSPA Specifications (GV75W)

<b>Frequency</b>	UMTS: 850/1900/2100 MHz UMTS: Class 3 (24+1/-3 dBm)
<b>Transmission Data</b>	HSDPA R5: Max 3.6Mbps (DL) WCDMA R99: Max 384Kbps (DL)/Max 384Kbps (UL)
<b>HSDPA and WCDMA Features</b>	HSDPA data rate corresponds with 3GPP R5. 3.6Mbps on downlink WCDMA data rate corresponds with 3GPP R99/R4. 384Kbps on downlink and 384Kbps on uplink Support both 16-QAM and QPSK modulation