

# GV65 Series SPECIFICATIONS

Compact multi-interface GNSS trackers for a wide range of vehicle tracking applications

## 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 GPRS class 12 by default
RMS Phase Error	5 deg
Max out RF Power	GSM850/GSM900: 33.0±2 dBm DCS1800/PCS1900: 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

## GNSS Specifications

GNSS Type	u-blox All-in-One GNSS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Tracking & navigation: -162 dBm Reacquisition: -160 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m
TTFF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

## Interfaces

Digital Inputs	1 positive trigger input for ignition detection 2 negative trigger inputs for normal use
Digital Output	1 digital output, open drain, 150 mA max drive current
Latched Digital Output	1 digital output with internal latch circuit, open drain, 150 mA max drive current
Analog Input	1 analogue input with selectable input voltage range (0V-12V or 0V-30V)
1-wire Interface	Support 1-wire temperature sensor and iButton driver ID
GSM Antenna	Internal only
GNSS Antenna	Internal antenna and optional external antenna
LED Indicators	CEL, GNSS, PWR
Mini USB Interface	Used for upgrading and debugging

## General Specifications

Dimensions	73mm(L) × 54mm(W) × 22.7mm(H)
Weight	56g (GV65) 62g (GV65 Plus)
Backup Battery	Li-Polymer, 250 mAh (GV65 Plus)
Operating Voltage	8V to 32V DC
Operating Temperature	-30°C ~ +80°C -40°C ~ +80°C for storage

## Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status based on preset time intervals, distance, mileage or a combination of these settings
Geo-fences	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Power On Report	Report when the device is powered on
Power Off Report	Report when the device is powered off
Motion Detection	Motion alarm based on internal 3-axis accelerometer
Special Alarm	Special alarm based on digital inputs
Power Supply Monitoring	Report/alarm of external power and backup battery status
Tow Alarm	Alarm for tow event in ignition-off state
Speed Alarm	Unusual speed alarm via flexible monitoring of speed
Remote Control	OTA control of digital outputs
Fuel Level Sensing	Configurable support for fuel level sensing using the vehicle's built-in fuel sensor or gauge
Temperature Detection	Alarm for temperature detection
Driving Behavior Monitoring	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
Crash Detection	Accident data collection for reconstruction and analysis



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