



**LTE** Cat M1/NB2 with 2G Fallback

Covert Installation

OTA Control

Scheduled Report

Geo-fences

Crash Detection

Driving Behavior Monitoring

Tow Alarm

Power on Report

AES-256 Encryption

Up to 10,000 Buffer Messages



## GV53MG

**LTE Cat M1/NB2 compact GNSS tracker for wide ranging light duty applications**

| 95g (3.35oz)

| 87×55×12.5mm  
3.43"(L) × 2.17"(W) × 0.49"(H)

| -30°C ~ +80°C

| Operating Voltage: 8V to 32V DC  
Li-Polymer, 190 mAh

The GV53MG is the upgraded LTE Cat M1/NB2 version of GV50MG. It integrates the latest low-power wide area network standards and covers a broader area, making it more flexible to deploy. It is a compact, ultra-thin product allowing covert and easy installation. The product offers basic digital I/Os that can be used for ignition detection and vehicle control. An extra configurable I/O enables flexible applications. The GV53MG supports AES-256 encryption to secure business-critical data, guard against unauthorized access and ensure data integrity. The product is designed for various use cases such as auto financing, buy here pay here (BHPH), car rental and leasing, basic fleet management and stolen vehicle recovery.



**GV53MG**

| Region    | Network/Operating Band  | GNSS Type                       | Position Accuracy (CEP) | Certificate |
|-----------|---|---------------------------------|-------------------------|-------------|
| Worldwide | LTE Cat M1/NB2<br>Cat M1:<br>LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/<br>B18/B19/B20/B25/B27/B28/B66/B85<br>Cat NB2:<br>LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/<br>B18/B19/B20/B25/B28/B66/B71/B85<br>EGPRS: 850/900/1800/1900 MHz | u-blox All-in-One GNSS receiver | Autonomous:<br>< 2.5m   | TBD         |

**Appearance****Interfaces**

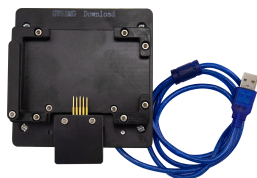
|                           |   |
|---------------------------|---|
| Digital Input             | 1 positive trigger input for ignition detection   |
| Digital Output            | 1 digital output, open drain, 150 mA max drive current  |
| Configurable Input/Output | 1 special I/O can be configured as a negative trigger digital input or an open drain output with 150 mA max drive current |
| Serial Port               | 1 TTL UART port for upgrading and debugging   |
| Cellular Antenna          | Internal only   |
| GNSS Antenna              | Internal only   |
| LED Indicators            | CEL, GNSS   |

Debug Cable



GV53MG Upgrade Kit

It is used for configuration, serial port upgrade and debugging.  
Parts list:  
Power\_Supply\_12V\_US\_DCJACK;  
GV50LTA USB to TTL configuration cable



GV53MG Upgrade Tool

It is used for USB upgrade and debugging.