GV57MG PLUS

LTE Cat M1/NB2 waterproof compact GNSS tracker supporting BLE 5.1

LTE Specifications

Operating Band	LTE Cat M1/NB2 Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B27/B28/B66/B85 Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85
Data Transmission	eMTC (DL) 348 Kbps eMTC (UL) 1.08 Mbps NB2 (DL) 121 Kbps NB2 (UL) 150 Kbps NB1 (DL) 74.1 Kbps NB1 (UL) 101 Kbps

GSM Specifications

Frequency	850/900/1800/1900 MHz
Data Transmission	GPRS multi-slot class 33 (33 by default) EDGE multi-slot class 33 (33 by default)

GNSS Specifications

GNSS Type	All-in-One Receiver
Sensitivity	Autonomous: -148 dBm Hot Start: -163 dBm Tracking: -165 dBm
Position Accuracy (CEP)	Autonomous: < 2m
TTFF (Open Sky)	Cold Start: 31 seconds average Warm Start: 28 seconds average Hot Start: 1 second average

Interfaces

Digital Input	1 x positive trigger input for ignition detection
Configurable Input	1 x configurable input for analog input (0V ~ 16V) or negative input
Cellular Antenna	Internal only
GNSS Antenna	Internal only
BLE Antenna	Internal only
LED Indicators	CEL, GNSS
Micro USB Interface	Used for upgrading and debugging

General Specifications

Dimensions	84 x 50 x 26.6mm 3.31"(L) × 1.97"(W) × 1.05"(H)
Weight	132g
Backup Battery	Li-Polymer, 2600 mAh
Standby Time	Without reporting: 300 hours 10 minutes' reporting: 210 hours 5 minutes' reporting: 180 hours
Operating Voltage	8V ~ 32V DC
Operating Temperature	-30℃ ~ +80℃ -40℃ ~ +80℃ for storage
Waterproof	IP67 compliant
BLE 5.1	Support BLE 5.1 protocol
Zero Power Consumption	Vehicle battery drain prevention when ignition is off Typical current <0.25mA@12V

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Power Supply Monitoring	Alarm status reporting of the external power
Scheduled Report	Report position and status based on preset time intervals, distance, mileage or a combination of these settings
Remote Control	OTA control of digital output
Geo-fences	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Speed Alarm	Flexible speed monitoring for unusual speed alarm
Tow Alarm	Alarm for tow event in ignition-off state
SOS Alarm	Alarm message report triggered by panic button in emergency situation
Driving Behavior Monitoring	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
Configuration Tamper Protection	Critical configuration such as server information are encrypted to avoid unauthorized change
Virtual Ignition Detection	Based on voltage and accelerometer