GV50CEU

LTE Cat 1/2G compact GNSS tracker for a wide range of vehicle tracking applications

- LTE Cat 1 with 2G Fallback
- 9 ~ 90V DC
- Compact Size
- Jamming Detection
- Scheduled Report
- Geo-fences
- Motion Detection
- Driving Behavior Monitoring
- Crash Detection & Accident Reconstruction
- Tow Alarm
- OTA Control
- BLE 5.2

LTE Cat 1 | Compact Size | BLE 5.2

The GV50CEU is a cost-effective entry-level LTE Cat1 fallback 2G GNSS tracker. Its extremely compact design facilitates easy and covert installation. Its compact size and powerful features make it an ideal choice for a wide range of transportation monitoring applications such as automobile finance, stolen vehicle recovery, car leasing, and logistics.

Automobile Finance

Stolen Vehicle Recovery

Car Leasing

Queclink

Dimensions	76(L) * 39(W) * 16(H)mm
Weight	71.5g
Backup Battery	Li-Polymer, 200mAh
Operating Voltage	9 ~ 90V DC
Operating Temperature	-30℃ ~ +70℃ -40℃ ~ +80℃ for storage
Buffer Messages	UP to 10,000 buffer messages
Certification	CE/E-Mark
Region	Europe

LTE

Operating Band	LTE FDD: B1/B3/B7/B8/B20/B28
Data Transmission	LTE-FDD: Max 10Mbps (DL)/Max 5Mbps (UL)

GSM

Frequency	900/1800MHz
Data Transmission	EDGE: (DL)236.8Kbps/(UL)236.8Kbps GPRS: (DL)85.6Kbps/(UL)85.6Kbps

GNSS

GNSS type	All-in-one receiver
Constellation Support	GPS, Beidou, Galileo, GLONASS
Sensitivity	Cold start: -148 dBm Hot start: -163 dBm Tracking: -165 dBm
Position Accuracy (CEP)	Autonomous: <2.0m
TTFF (Open Sky)	Cold start: 24 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
Latched Digital Output	1 x digital output with one internal latch circuit, open drain, 150 mA max drive current
Cellular Antenna	Internal only
GNSS Antenna	Internal only
BLE Antenna	Internal only
LED Indicators	CEL,GNSS
Micro USB Interface	Used for configuration, upgrade and debugging

Air Interface Protocol

Transmission 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
Speed Alarm	Flexible speed monitoring for unusual speed alarm
Low Power Alarm	Alarm when backup battery is low
Power On Report	Report when the device is powered on
Tow Alarm	Alarm for tow event in ignition-off state
Driving Behavior Monitoring	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
Crash Detection	Accident data collection for reconstruction and analysis
Remote Control	OTA control of digital outputs
SOS Alarm	Alarm message report triggered by panic button in emergency situation
Virtual Ignition Detection	Based on voltage and accelerometer
Jamming Detection	Alarm based on jamming detection