

GV37CEU

LTE Cat 1 Bis fallback 2G waterproof GNSS tracker for a wide range of vehicle tracking applications

Conf. **70B0**

- **LTE Cat 1**
- **IP67 Waterproof**
- **BLE 5.4**



The GV37CEU is an ultra-low cost LTE Cat 1 Bis Fallback 2G GNSS waterproof 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.

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

Applications

Fleet Monitoring



Automobile Finance



Stolen Vehicle Recovery



General Specifications

Dimensions	81(L) x42(W) x19(H)mm
Weight	TBD
Backup Battery	Li-Polymer, 200mAh
External Battery Voltage	3.7 - 4.2V DC
Operating Voltage	9 ~ 90V DC
Waterproof	IP67 compliant
Operating Temperature	-30 °C ~ +70 °C -40 °C ~ +80 °C for storage
Buffer Messages	Up to 10000 buffer messages
BLE	Support BLE 5.4 protocol
Region	EMEA
Certification	CE(Planing)

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

GSM Specifications

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

LTE Specifications

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

GNSS Specifications

GNSS Type	All-in-one receiver
Constellation Support	GPS, Beidou, Galileo, GLONASS
Sensitivity	Cold start: -149 dBm Hot start: -157 dBm Tracking: -165 dBm
Position Accuracy (CEP)	Autonomous: <2.0m
TTFF (Open Sky)	Cold start: 28s average Hot start: 1s average

Connectivity

Model	BLE
Type	2.4GHz
Remark	BLE 5.4, worked as a BLE gateway to connect accessories like beacon, temperature sensor, door sensor, etc.

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
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
SOS Alarm	Alarm message report triggered by panic button in emergency situation
Tow Alarm	Alarm for tow event in ignition-off state
Jamming Detection	Alarm based on jamming detection
Virtual Ignition Detection	Based on voltage and accelerometer
Driving Behavior Monitoring	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
Crash Detection	Accident data collection for reconstruction and analysis
Special Alarm	Special alarm based on digital/analog inputs
Motion Detection	Motion alarm based on internal 3-axis accelerometer
Remote Control	OTA control of digital outputs