

# GV30CEU

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

- **Small Size**
- **BLE 5.4**
- **Wide Voltage**




The GV30CEU is an ultra-low cost LTE Cat 1 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.

- LTE CAT1 Fallback 2G
- IP54 Waterproof
- 9 ~ 90V
- BLE 5.4
- Covert Installation
- Jamming Detection
- Scheduled Report
- Geo-fences
- Motion Detection
- Driving Behavior Monitoring
- Crash Detection & Accident Reconstruction
- Tow Alarm
- OTA Control

## Applications

### Fleet Management



### Automobile Finance



### Stolen Vehicle Recovery



## General Specifications

| | |
|---|---|
| **Dimensions** | 76(L) x39(W) x16(H)mm |
| **Weight** | 41.5g |
| **Backup Battery** | Li-Polymer, 200mAh |
| **External Battery Voltage** | 3.7 - 4.2V DC |
| **Operating Voltage** | 9 ~ 90V |
| **Operating Temperature** | -30 °C ~ +70 °C<br>-40 °C ~ +80 °C for storage |
| **Buffer Messages** | Up to 10000 buffer message |
| **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 |

## 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. |

## LTE Specifications

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

## GSM Specifications

| | |
|---|---|
| **Frequency** | EGPRS: 900/1800 MHz |
| **Data Transmission** | EDGE: (DL)236.8Kbps/(UL)236.8Kbps<br>GPRS: (DL)85.6Kbps/(UL)85.6Kbps |

## GNSS Specifications

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

## 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 |