

# 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

<b>Dimensions</b>	76(L) x39(W) x16(H)mm
<b>Weight</b>	41.5g
<b>Backup Battery</b>	Li-Polymer, 200mAh
<b>External Battery Voltage</b>	3.7 - 4.2V DC
<b>Operating Voltage</b>	9 ~ 90V
<b>Operating Temperature</b>	-30 °C ~ +70 °C -40 °C ~ +80 °C for storage
<b>Buffer Messages</b>	Up to 10000 buffer message
<b>BLE</b>	Support BLE 5.4 protocol
<b>Region</b>	EMEA
<b>Certification</b>	CE(Planing)

## Interfaces

<b>Digital Input</b>	1 x positive trigger input for ignition detection
<b>Configurable Input</b>	1 x configurable input for analog input (0V ~ 16V) or negative input
<b>Latched Digital Output</b>	1 x digital output with one internal latch circuit, open drain, 150 mA max drive current
<b>Cellular Antenna</b>	Internal only
<b>GNSS Antenna</b>	Internal only
<b>BLE Antenna</b>	Internal only
<b>LED Indicators</b>	CEL, GNSS
<b>Micro USB Interface</b>	Used for configuration, upgrade and debugging

## Connectivity

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

## LTE Specifications

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

## GSM Specifications

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

## GNSS Specifications

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

## Air Interface Protocol

<b>Transmit Protocol</b>	TCP, UDP, SMS
<b>Scheduled Report</b>	Report position and status based on preset time intervals, distance, mileage, or a combination of these settings
<b>Geo-Fences</b>	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
<b>Speed Alarm</b>	Flexible speed monitoring for unusual speed alarm
<b>Low Power Alarm</b>	Alarm when backup battery is low
<b>Power On Report</b>	Report when the device is powered on
<b>SOS Alarm</b>	Alarm message report triggered by panic button in emergency situation
<b>Tow Alarm</b>	Alarm for tow event in ignition-off state
<b>Jamming Detection</b>	Alarm based on jamming detection
<b>Virtual Ignition Detection</b>	Based on voltage and accelerometer
<b>Driving Behavior Monitoring</b>	Aggressive driving behavior detection, including harsh braking, acceleration, etc.
<b>Crash Detection</b>	Accident data collection for reconstruction and analysis
<b>Special Alarm</b>	Special alarm based on digital/analog inputs
<b>Motion Detection</b>	Motion alarm based on internal 3-axis accelerometer
<b>Remote Control</b>	OTA control of digital outputs