

# GV75CG

LTE Cat 1/2G rechargeable waterproof tracking device supporting BLE 5.2

- LTE Cat 1
- IP67
- BLE 5.2



- Multiple I/O Interfaces
- RS232 Port
- DC 9-90V
- Zero Power Consumption
- Up to 10,000 Buffer Messages
- Crash Detection
- Driving Behavior Monitoring
- Jamming Detection

The GV75CG is the LTE Cat 1 & 2G version of the GV75W motorcycle tracker. Its reliability gives peace of mind to motorcycle owners worldwide. With Queclink's zero power consumption technology, bikes can be left unattended for long periods without draining the battery. Its waterproof and dustproof design suits not only motorcycles but also quad bikes, watercraft, and heavy machinery. The wide 9-90V input range supports various electric vehicles, including e-bikes, scooters, and golf carts.

## Applications

### Motorcycle Monitoring



### Watersports Tracking



### Asset Tracking



## General Specifications

|                               |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| <b>Dimensions</b>             | 95(L) × 52(W) × 18.3(H) mm                                                |
| <b>Weight</b>                 | 141.5 g (4.99 oz)                                                         |
| <b>Backup Battery</b>         | Li-Polymer, 3.7V, 1100 mAh                                                |
| <b>Operating Voltage</b>      | 9 ~ 90V DC                                                                |
| <b>Operating Temperature</b>  | -30°C ~ +70°C<br>-40°C ~ +80°C for storage                                |
| <b>Zero Power Consumption</b> | Vehicle battery drain prevention when ignition is off. Typical <0.7mA@12V |
| <b>Buffer Messages</b>        | UP to 10,000 buffer messages                                              |
| <b>Waterproof</b>             | IP67                                                                      |
| <b>Region</b>                 | Global                                                                    |
| <b>Certification</b>          | CE, Anatel, FCC                                                           |

## LTE Specifications

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| <b>Operating Band</b>    | LTE Cat 1<br>LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 |
| <b>Data Transmission</b> | LTE-FDD: Max 150Mbps(DL)/Max 50Mbps(UL)            |

## GSM Specifications

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| <b>Frequency</b>         | 850/900/1800/1900MHz                                                 |
| <b>Data Transmission</b> | EDGE: (DL)236.8Kbps/(UL)236.8Kbps<br>GPRS: (DL)85.6Kbps/(UL)85.6Kbps |

## Air Interface Protocol

|                                    |                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Transmission 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>Special Alarm</b>               | Special alarm based on digital/analog inputs                                                                    |
| <b>Low Power Alarm</b>             | Alarm when backup battery is low                                                                                |
| <b>Power On Report</b>             | Report when the device is powered on                                                                            |
| <b>Tow Alarm</b>                   | Alarm for tow event in ignition-off state                                                                       |
| <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>Remote Control</b>              | OTA control of digital outputs                                                                                  |
| <b>Jamming Detection</b>           | Alert based on interference detection                                                                           |
| <b>MQTT</b>                        | Report data to the MQTT server                                                                                  |
| <b>TLS</b>                         | TLS Data Encryption, supported TLS1.2                                                                           |

## GNSS Specifications

|                                |                                                                   |
|--------------------------------|-------------------------------------------------------------------|
| <b>GNSS Type</b>               | u-blox All-in-One GNSS receiver                                   |
| <b>Sensitivity</b>             | Cold start: -148 dBm<br>Hot start: -160 dBm<br>Tracking: -167 dBm |
| <b>Position Accuracy (CEP)</b> | Autonomous: <2.0m                                                 |
| <b>TTFF (Open Sky)</b>         | Cold start: 24 seconds average<br>Hot start: 1 second average     |

## Interfaces

|                                                  |                                                                                            |
|--------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Digital Input</b>                             | 1 x positive trigger input for ignition detection                                          |
| <b>Digital Output</b>                            | 1 x digital output, open drain, 150 mA max drive current drain                             |
| <b>Configurable Digital Output/Digital Input</b> | 1 x configurable digital output/digital input                                              |
| <b>Latched Digital Output</b>                    | 1 x digital output with internal latch circuit, open drain, 150 mA max drive current drain |
| <b>Serial Port</b>                               | 1 x RS232 serial port used for external devices                                            |
| <b>Cellular Antenna</b>                          | Internal only                                                                              |
| <b>GNSS Antenna</b>                              | Internal only                                                                              |
| <b>BLE Antenna</b>                               | Internal only                                                                              |
| <b>LED Indicators</b>                            | CEL, GNSS, PWR                                                                             |
| <b>Micro USB Interface</b>                       | Internal only / Used for configuration, upgrade and debug                                  |