



# VL101G

## GNSS Vehicle Terminal

The VL101G is a 4G vehicle tracker with GNSS positioning technology and dual-frequency GPS, ideal for a wide range of deployments where real-time location and accurate positioning are key. LTE communication with GSM (2G) fallback ensures a solid connection in almost all cases, and the inertial navigation system (INS) provides accurate information about your car's movements even in areas with weak GPS signals. Moreover, driving behavior analysis, ignition detection and remote engine cut-off will make the VL101G a valuable part of your fleet management strategy.



Vehicle Rental



Fleet Management



Usage-Based Insurance

Jimi IoT Co., Ltd.

Official site: [www.jimi-iot.com](http://www.jimi-iot.com) Email: [info@jimi-iot.com](mailto:info@jimi-iot.com)



### GPS & GLONASS & Galileo Positioning

A synergy of multiple positioning systems ensures that locations are accurately displayed on the cloud platform.



### Dual-Frequency GPS

More stable connection, more accurate position, and higher resistance to interference.



### INS-aided GPS Tracking

Ensure constant tracking in the area with poor GPS signal or even without it.



### IP66 Dust & Water Resistance

The waterproof housing makes it easy to deploy on roof panels, providing better signal acquisition and continued optimal performance regardless of weather conditions.



### Driving Behavior Analysis (Basic)

Receive alerts when any of 4 kinds of dangerous driving behavior is detected.



### Remote Cut-Off (Fuel/Power)

Immobilize a vehicle by cutting off its power source/fuel supply via an installed relay.



### Accurate Positioning

Get accurate information about your car's movements even in areas with weak GPS signals.



### TTL Interface

Able to connect with different accessories for feature expansions.

## Standard Configuration

### Positioning & Location

<b>Technology</b>	GPS, GLONASS, Galileo, NAVIC, INS
<b>Accuracy</b>	L1, L5
<b>INS accuracy</b>	< 1m CEP
<b>Tracking sensitivity</b>	-165dBm
<b>Acquisition sensitivity</b>	-148dBm
<b>TTF (open sky)</b>	Avg. hot start ≤ 1sec; Avg. cold start ≤ 24sec

### Cellular

<b>Technology</b>	LTE Cat 1, GSM VL101G (E): LTE-FDD: B1/B3/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41
<b>Frequency</b>	GSM: 850/900/1800/1900 MHz VL101G (L): LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 GSM: 850/900/1800/1900 MHz

### Power

<b>Battery</b>	450mAh/3.7V industrial-grade Li-Polymer battery
<b>Input voltage</b>	9-30VDC
<b>Power consumption</b>	Standby: 5mA Working: 50mA

### Operating environment

<b>Operating temperature</b>	-30°C to +80°C
<b>Operating humidity</b>	5% to 95%, non-condensing
<b>IP rating</b>	IP66

### Interface

<b>LED indication</b>	GNSS (Blue), Cellular (Green), Power (Red)
<b>SIM</b>	Micro-SIM
<b>Digital I/Os</b>	1*ACC, 1*Relay
<b>Analog I/Os</b>	N/A
<b>Voltage detection</b>	0-30V (±0.3V)
<b>Memory capacity</b>	1000 GPS data entries
<b>USB</b>	N/A
<b>GNSS antenna</b>	Internal
<b>Bluetooth antenna</b>	Internal
<b>Serial ports</b>	1*TTL

### Feature

<b>Voice monitoring range</b>	N/A
<b>Sensors</b>	Accelerometer and gyroscope
<b>Scenarios</b>	Vehicle movement alert, Speeding alert, Geo-fence entry/exit, Vehicle battery detection
<b>Driving behavior</b>	Harsh acceleration, Harsh braking,
<b>analysis (DBA)</b>	Harsh cornering, Sudden lane change
<b>Bluetooth</b>	N/A
<b>Configuration support</b>	SMS, Tracksolid Pro, PC Tools
<b>Certification</b>	CE, FCC, RoHS

### Physical specification

<b>Dimensions</b>	70.0 x 80.0 x 25.0mm
<b>Weight</b>	115.5g

## Optional Configuration\*

**2-Pin connector** Buzzer

### Relay

\*Optional Configuration required to be customized or purchased separately.