



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.



GPS/BDS/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

Waterproof case makes it easy to deploy on roof panels, providing better signal acquisition and continued optimal performance no matter the weather.



Driving Behavior Analysis

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.

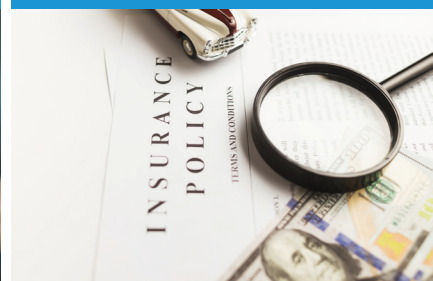
Fleet Management



Vehicle Rental



Usage-based Insurance



GNSS

Positioning system	GPS/BDS/GLONASS/Galileo + INS (inertial navigation system)
Frequency	L1+L5
Positioning accuracy	< 1,5m CEP
Tracking sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTF (open sky)	Avg. hot start ≤ 1sec Avg. cold start ≤ 24sec

Cellular

Communication network	LTE Cat 1/GSM
Frequency	VL101G (E) LTE-FDD: B1/B3/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41 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

Battery	450mAh/3.7V industrial-grade Li-Polymer battery
Input voltage	3-36VDC

Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
SIM	Micro-SIM
Data storage	128+128Mb
Digital inputs	Support
Digital outputs	Support

Physical specification

Dimensions	70.0 x 80.0 x 25.0mm
Weight	113g

Operating environment

Operating temperature	-20°C to +70°C
Operating humidity	5%~95%, non-condensing
IP rating	IP66

Feature

Sensors	Accelerometer and gyroscope
Scenarios	Vehicle movement alert, Speeding alert, Geo-fence entry/exit, Vehicle battery detection
Driving behavior analysis	Harsh acceleration, Harsh braking, Harsh cornering, Sudden lane change