



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, 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.



Accurate Positioning

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



Remote Cut-Off (Fuel/Power)

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



TTL Interface

Able to connect with different accessories for feature expansions.

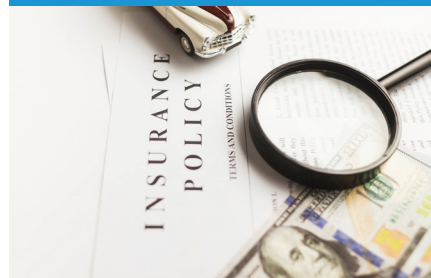
Fleet Management



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	

Third-Party Integration

API middleware	flespi	
Fleet management and tracking platforms	Wialon, Navixy, RedGps, GpsGate, Position Logic, FullTime, LightMetrics, etc.	