



# VL111

## LTE Vehicle Terminal

The VL111 is a compact 4G LTE tracking terminal with a built-in GNSS module that supports GPS and BeiDou to determine the location of the vehicle in real time and a built-in relay that allows the manager or operator to remotely cut off the fuel or power supply to the vehicle when an exception occurs. The VL111 also offers features such as historical trip playback and automatic power disconnection in the event of a low external battery.



Motorcycle Tracking



Fleet Management



Vehicle Dealers



### LTE & GSM Network

Communication via 4G LTE networks with 2G GSM fallback.



### GPS & BDS & GLONASS & LBS Positioning

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



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

Immobilize a vehicle by cutting off its power source/fuel supply via the PCB relay.



### Vehicle Battery Protection

Disconnect from the vehicle's power supply and operate on its internal battery when the device detects the vehicle battery drops to a critical level.



### External Buzzer Support

Warn the driver once the tracker detects speeding or other reckless driving or give out audible warning to indicate a vehicle's whereabouts.



### IP66 Water & Dust Resistance

Rugged design ensures continued optimal performance, even in the toughest conditions.

## Standard Configuration

### Positioning & Location

<b>Technology</b>	GPS, GLONASS, BDS, AGPS, LBS
<b>Accuracy</b>	< 2,5m CEP
<b>Tracking sensitivity</b>	-165dBm
<b>Acquisition sensitivity</b>	-148dBm
<b>TTF (open sky)</b>	Avg. hot start <= 2sec; Avg. cold start <= 38sec

### Cellular

<b>Technology</b>	LTE Cat 1, 2G (GSM) VL111S_LA: LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 GSM: B2/B3/B5/B8
<b>Frequency</b>	VL111S_EM: LTE-FDD: B1/B3/B7/B8/B20/B28 LTE-TDD: B34/B38/B39/B40/B41 GSM: B2/B3/B5/B8

### Power

<b>Battery</b>	270mAh/3.7V industrial-grade Li-Polymer battery
<b>Input voltage</b>	DC 9-90V
<b>Power consumption</b>	Standby: < 5mA Working: < 50mA

### Operating environment

<b>Operating temperature</b>	-20 C to +70 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>	Nano-SIM
<b>Digital I/Os</b>	ACC, Buzzer (Optional)
<b>Analog I/Os</b>	N/A
<b>Voltage detection</b>	0-90V
<b>Memory capacity</b>	3000 GPS data entries
<b>USB</b>	Type-C
<b>No. of onboard relays</b>	1
<b>GNSS antenna</b>	Internal
<b>Bluetooth antenna</b>	Internal
<b>Serial ports</b>	N/A

### Feature

<b>Voice monitoring range</b>	N/A
<b>Sensors</b>	Accelerometer Vibrating alert, Speed alert, Tamper alert, Geo-fence entry/exit alert, Vehicle battery protection, Remote immobilization, Power disconnection alert, Low internal battery alert
<b>Scenarios</b>	
<b>Driving behavior analysis (DBA)</b>	Harsh acceleration, Harsh braking, Harsh cornering, Collision
<b>Bluetooth</b>	BLE 5,0
<b>Configuration support</b>	PC Tools, SMS, Tracksolid Pro
<b>Certification</b>	CE, FCC

### Physical specification

<b>Dimensions</b>	92.0 x 28.0 x 14.0mm
<b>Weight</b>	42.9g

## Optional Configuration\*

<b>SM connector</b>	Buzzer
<b>SIM IC</b>	2,5 x 2,7mm onboard

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