



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

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

Cellular

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

Power

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

Operating environment

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

Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
SIM	Nano-SIM
Digital I/Os	ACC, Buzzer (Optional)
Analog I/Os	N/A
Voltage detection	0-90V
Memory capacity	3000 GPS data entries
USB	Type-C
No. of onboard relays	1
GNSS antenna	Internal
Bluetooth antenna	Internal
Serial ports	N/A

Feature

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

Physical specification

Dimensions	92.0 x 28.0 x 14.0mm
Weight	42.9g

Optional Configuration*

SM connector	Buzzer
SIM IC	2,5 x 2,7mm onboard

*Optional Configuration required to be customized or purchased separately.