Jimi IoT

VL808
LTE Vehicle GNSS Terminal

The VL808 is a versatile hardwired tracker with comprehensive tracking capabilities. It features 4G LTE connectivity for fast data transfer and multi-GNSS positioning for precise location tracking. The VL808 goes beyond just cellular connectivity with a 1-Wire interface for various sensor connections, a TTL interface for flexible communication, multiple digital I/Os, and an ADC port for feature expansion. To ensure reliable connectivity even in remote areas, the VL808 supports fallback to GSM (2G) networks. Its IP67-rated housing and wide 9-90V input voltage range make it ideal for use in a variety of environments and in virtually any vehicle, from motorcycles and passenger cars to commercial truck fleets.

Fleet Management

Auto Insurance

Motorcycle Tracking

LTE & GSM Network
Enable data transmission within the coverage of 4G and 2G networks.

1-Wire Peripheral Support
Equip with a 1-Wire interface to allow the connection of compatible temperature sensor and iButton reader for driver identification.

Multiple I/Os for Function Expansion
Equip with 3 digital outputs and 4 digital inputs (where one output multiplexes with TTL-RX) as well as 2 analog I/Os (where they multiplex with the digital I/Os) for flexible function expansion, such as ACC detection, door status detection, SOS alert, and buzzer.

Remote Cut-Off (Fuel/Power)
Immobilize a vehicle by cutting off its power source/fuel supply via an external relay.

Bluetooth Accessory Support
Enable the device to communicate with various Bluetooth accessories such as iBeacon

Vehicle Battery Protection
Auto-disconnect from the vehicle's battery when the device detects that the voltage of the vehicle battery drops to a preset critical level.

IP67 Water & Dust Resistance
Rugged design ensures continued optimal performance, even in the toughest conditions.

Standard Configuration

Positioning & Location

Technology	GPS, BDS, GLONASS
Accuracy	< 2.5m CEP
Tracking sensitivity	−165dBm
Acquisition sensitivity	−148dBm
TTFF (open sky)	Avg. hot start ≤2sec；Avg. cold start ≤38sec

Cellular

Technology	LTE Cat 1, 2G (GSM)
Frequency	VL808S_EM01
	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 LiPo battery
Input voltage	9–90VDC
Power consumption	Standby: < 10mA

Operating environment

Operating temperature	−20℃ to +85℃
Operating humidity	5% to 95%, non-condensing
IP rating	IP67

Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
SIM	Nano-SIM
Digital I/Os	3*Outputs, 4*Inputs (one multiplexes with TTL-RX)
Analog I/Os	2 (AIN1/AIN2: 0–36V) (0–5V: ±0.1V; 5–36V: ±0.2V) (multiplex with digital I/Os)
Voltage detection	0–90V (±0.3V)
Memory capacity	3000+ data entries
USB	Type-C
GNSS antenna	Internal
Bluetooth antenna	Internal
Serial ports	1*TTL

Feature

Sensors	Accelerometer
Scenarios	Vehicle movement alert, SOS alert, Overspeed alert, Geofence entry/exit alerts, Vehicle battery protection, Door status detection
Driving behavior analysis (DBA)	Harsh acceleration, Harsh braking, Harsh cornering, Collision
Bluetooth	BLE 5.0
Configuration support	PC Tools, SMS, Tracksolid Pro, Jimi IoT Lab
Certification	CE, E-mark

Physical specification

Dimensions	109.8 × 43.5 × 24.0mm
Weight	76g

Optional Configuration*

Relay	
SOS button	
Buzzer	
1-Wire peripheral	Temperature sensor, iButton reader (iButton included)

*Optional Configuration required to be customized or purchased separately.