



JM-VL02

LTE Cat M1 & NB2 Fleet Tracker



The JM-VL02 is designed to handle industrial and commercial fleet applications ranging from rental agencies and public transportation to construction equipment and beyond. With ACC detection, SOS button, remote fuel/power cutoff and various other I/Os for peripherals, this powerful device can be customized to streamline your operations and boost efficiency. Built with a cutting-edge communications module leveraging the Cat-M1/NB-IoT networks with GSM fallback, the JM-VL02 will be helping to maximize your fleet operations for years to come.



Fleet Management



Construction Machinery



Public Transport



LTE Cat M1/NB2 & GSM

Communications over IoT-specific LTE networks, with reliable 2G GSM fallback.



Remote Cut-Off (Fuel/Power)

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



Ignition Detection

Constantly detect the ACC/ignition status of the vehicle.



Panic Button

Contact dispatch or emergency support with a discreet, in-cabin SOS button.



Door Status Detection

Useful insight into the status of a fleet vehicle; be alerted if a door is unexpectedly opened.



Fuel/Temperature Sensor (Optional)

Optional peripherals to monitor fuel level or temperature add visibility to your operations and help save money.



RFID Reader (Optional)

Identify drivers when they start vehicles, and collect and upload the drivers' identification.



Multiple Alerts

Instant alerts for atypical events such as impounding, geo-fence entry/exit, abnormal vibration, speeding, etc.

Standard Configuration

Positioning & Location

Technology	GPS, BDS, LBS, GLONASS
Accuracy	< 2.5m CEP
Tracking sensitivity	-165dBm
Acquisition sensitivity	-148dBm
TTF (open sky)	Avg. hot start < 1sec; Avg. cold start < 32sec

Cellular

Technology	LTE Cat M1 & NB2, GSM JM-VL02A: LTE: B1/B2/B3/B4/B5/B12/B13/B28/B66 GSM: 850/900/1800/1900 MHz
Frequency	JM-VL02E: LTE: B1/B3/B5/B8/B18/B19/B20/B26 GSM: 850/900/1800/1900 MHz

Power

Battery	300mAh/3.7V industrial-grade Li-Polymer battery
Input voltage	9-36VDC
Power consumption	Standby: 5mA Working: 58mA

Operating environment

Operating temperature	-20°C to +70°C
Operating humidity	5% to 95%, non-condensing
IP rating	IP65

Interface

LED indication	GNSS (Blue), Cellular (Green), Power (Red)
SIM	Standard-SIM
Digital I/Os	1*ACC, 1*SOS, 1*Relay, 1*Reserved output, 1*Reserved input
Analog I/Os	1: 0-30VDC (±0.3V)
Voltage detection	N/A
Memory capacity	1000 GPS data entries
USB	N/A
GNSS antenna	Internal
Bluetooth antenna	N/A
Serial ports	TTL

Feature

Sensors	Accelerometer Vehicle movement alert, Over-speed alert,
Scenarios	Geo-fence, Vehicle battery detection, Power supply disconnection
Driving behavior analysis (DBA)	Harsh acceleration, Harsh braking, Harsh cornering, Collision
Bluetooth	N/A
Configuration support	PC Tools, SMS, GPRS
Certification	CE, FCC, PTCRB, AT&T, T-Mobile, Verizon

Physical specification

Dimensions	105 x 57.0 x 22mm
Weight	103g

Optional Configuration*

RS232 sensor	Capacitive fuel level sensor, Ultrasonic fuel level sensor, Temperature sensor
1-Wire	Instead of TTL

*Optional Configuration required to be customized or purchased separately.