

VAIDR 4G DATA SHEET



Vaidr 4G

EASY INSTALLATION WATERPROOF TRACKER CAT1/4G/GNSS/BLE/BT

Model: FMC880-QJAB0 Part Number: 52-1167

KEY FEATURES

- **4G Cat 1**

Reliable 4G (LTE Cat 1) connectivity.

- Improved GNSS Tracking Accuracy

Standalone L1 and L5 dual-band GNSS receiver ensures better track quality and quick time to first fix.

- **Bluetooth Connectivity**

For external devices and low energy sensors.

- **Crash Detection**

Crash detection functionality working according to accelerometer data.

- **Clamp Connectors**

Allows installing tracker in a few minutes

The Vaidr 4G device is EASY to use and FAST to install.

It is a waterproof device with 4G LTE Cat 1 and Bluetooth connectivity.

An extremely fast and easy installation allows connecting the device in just a few minutes! No specific knowledge or engineers are required for installation. This vehicle GPS tracker has a higher IP65 rating and a slim design which is essential for under-bonnet installation.

Thanks to that, the Vaidr tracker perfectly suits for light vehicle tracking in applications like courier delivery service, car rental & leasing, insurance telematics and many other industries, where simple integration is a must. It is a perfect solution for real time monitoring, specially for beginners and those, who are looking for new opportunities to expand their businesses.

The Vaird device has a built-in accelerometer, which provides accurate crash trace data. This tracker also supports various Bluetooth Low Energy sensors, beacons, firmware and configuration update via Bluetooth. All of that increases the number of possible user scenarios in any market. It is quick to install, easy to use and ready to start tracking in minutes!



Dimensions



Specification

FleetMotus Vaidr Tracking Device		Part Number: 52-1167
Product	Model	FMC-880-QJAB0
	Technology	LTE CAT M1GSM/GPRS/GNSS/BLUETOOTH
GNSS	GNSS	L1: GPS, GLONASS, GALILEO, BEIDOU, SBAS*, QZSS*
		L5: GPS, GLONASS, GALILEO
	Receive type	L1: 75 channel
		L5: 60 channel
	Tracking sensitivity	-165 dBm
	Position accuracy	< 1.8 m CEP
	Velocity accuracy	< 0.1 m/s (within +/- 15% error)
	Hot start	< 1 s
	Warm start	< 24 s
	Cold start	< 35 s
Cellular	2G bands	GSM: B2/B3/B5/B8
	4G bands	LTE-TDD (CAT NB2):
		B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85
	Data transfer	LTE TDD: Max 127Kbps (DL)/Max 158.5Kbps (UL)
		GSM: Max 107Kbps (DL)/Max 85.6Kbps (UL)
	Transmit power	Class 4 for GSM850/900: 33±2dBm
		Class 1 for GSM1800/1900: 30±2dBm
		Class 3 for LTE-TDD: 20±2dBm
		Bluetooth: 4.57±2dBm
		Bluetooth LE: 4.83±2dBm
	Data support	SMS (text, pdu), Network protocols (TCP, UDP, TLS, EGTS, MQTT)

*Optional modes available with custom firmware applications, for more information contact your representative

Specification continued

Power	Input voltage range	10 - 32 V DC with overvoltage protection
	Internal back-up battery	170 mAh Li-Ion battery 3.7 V
	Internal fuse	3 A, 125 V
Bluetooth Technology	Specification	4.0 + LE
	Supported peripherals	Temperature and humidity sensor, OBDII dongle, Inateck Barcode Scanner,
		Universal BLLE sensors support
Physical Specification	Dimensions	92.5 x 57.6 x 14 mm (L x W x H)
	Weight	63 g
Operating environment	Operating temperature	-40 °C to +85 °C
	(without battery)	
	Storage temperature	-40 °C to +85 °C
	(without battery)	
	Operating temperature	0 °C to +40 °C
	(with battery)	
	Storage temperature	-20 °C to +45 °C
	(with battery)	
	Operating humidity	5% to 95% non-condensing
	Ingress protection rating	IP65
	Battery charge temperature	0 °C to +45°C
	Battery discharge temperature	-20 °C to +60°C
	Battery storage temperature	-20 °C to +45°C for 1 month, -20 °C to +35°C for 6 months
Interface	Connection	U type cable
	GNSS antenna	Internal high gain
	Cellular antenna	Internal high gain
	USB	2.0 USB Micro B
	LED indication	2 status LED lights
	SIM	Micro-Sim
	Memory	128 MB internal flash memory
Features	Sensors	Accelerometer
	Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel
		Counter, Excessive Idling detection, Unplug detection, Towing detection,
		Crash detection, Auto Geofence, Manual Geofence, Trip
	Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
	Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth)
	SMS	Configuration, Events, Debug
	GPRS commands	Configuration, Debug
	Time synchronization	GNSS, NITZ, NTP
	Ignition detection	Accelerometer, External Power Voltage
	Certification & Approvals**	CE-RED, E-mark, RCM, REACH, RoHS

**In progress