



FMM800

4G LTE Cat 1 battery-mounted GPS tracker with enhanced GNSS accuracy and IP69K resistance



4G CAT M1

Reliable 4G (LTE Cat M1) connection with fallback 2G (GSM) network

OBDII PORT CONNECTION

Allows installing tracker in a few seconds

BLUETOOTH® 4.0

Bluetooth® for external devices and Low Energy sensors

CRASH DETECTION

Crash detection functionality working according accelerometer data



Light vehicles



Driver log-book



Insurance telematics



Courier delivery services



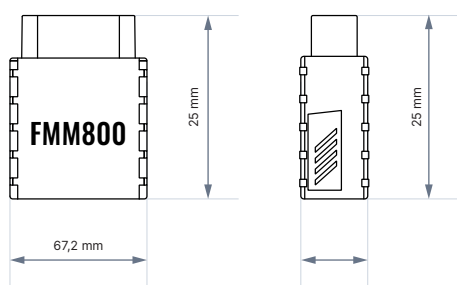
Rental and leasing

FMx8 series devices are EASY to use and FAST to install. The number “8” brings everything together in one place and stands out with its simplicity of basic tracking.

Teltonika FMM800 tracker is a small OBDII Plug and Play device with 4G LTE Cat M1 and Bluetooth® connectivity. An extremely fast and easy installation allows connecting device in a few seconds! No tools or engineers are required for installation.

Thanks to that, FMM800 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.

FMM800 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 increase the number of possible use scenarios in any market. It is quick to install, easy to use and ready to start tracking in minutes!



Module

Name	FMM800-Q3IB0: Quectel BG95-M3 with Teltonika TM2500
Technology	LTE CAT M1/NB-IoT/GSM/GPRS/GNSS/BLUETOOTH® LE

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBm
Position Accuracy	< 2.5 CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

2G bands	FMM800-Q3IB0: GSM: B2/B3/B5/B8
4G bands	FMM800-Q3IB0: LTE-FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 FMM800-Q3IB0: LTE-FDD (CAT NB2): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85
Data transfer	LTE: LTE FDD (CAT-M1): Max. 588Kbps (DL)/Max.1119Kbps (UL) LTE: LTE FDD (CAT-NB2): Max. 127Kbps (DL)/Max.158.5Kbps (UL) GSM: GPRS: Max. 107Kbps (DL)/Max. 85.6Kbps (UL)
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP, TLS, MQTT)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	170 mAh Li-Ion battery 3.7 V (0.63 Wh)
Internal fuse	3 A, 125 V
BLUETOOTH® technology	
Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, Inateck Barcode Scanner, Universal Bluetooth® LE sensors support

Physical specification

Dimensions	67,2 × 49,6 × 25 mm (L x W x H)
Weight	63 g

Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
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	OBDII socket
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM
Memory	128MB 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® wireless technology)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Accelerometer, External Power Voltage

Certification & Approvals

Regulatory	FMM800-Q3IB0: CE / RED, UKCA, E-Mark, RCM, Anatel, RoHS, REACH, Declaration of IMEI assignment
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