



FMM80A

Plug and play tracker designed for north america



4G CAT M1

Reliable 4G (LTE CAT M1) connection

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



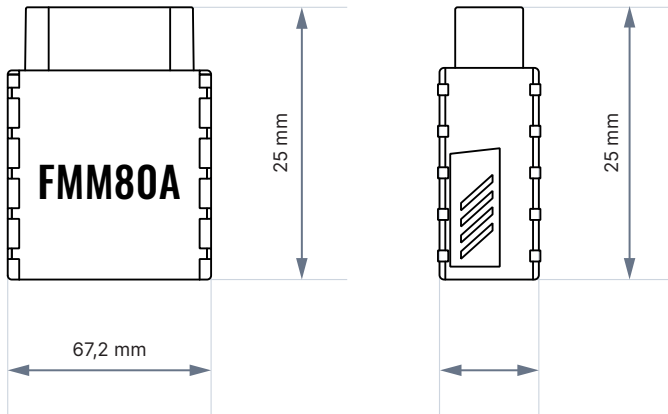
Courier delivery services

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 FMM80A 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, FMM80A 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.

FMM80A 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!



Product

Model name FMM80A-Q2IB0

Module

Name Quectel BG95-M1 with Teltonika TM2500

Technology LTE CAT M1/GNSS/BLUETOOTH® LE

GNSS

GNSS L1: GPS, GLONASS, GALILEO, BEIDOU, SBAS*, QZSS*, DGPS*, AGPS

Receiver 33 channel

Tracking sensitivity -165 dBm

Position Accuracy < 2.5 m CEP

Velocity Accuracy < 0.1 m/s (within +/- 15% error)

Hot start < 1 s

Warm start < 25 s

Cold start < 35 s

*Optional modes available with custom firmware applications, for more information contact your sales manager.

Cellular

4G bands LTE FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85

Data transfer LTE FDD (CAT M1): Max. 588 Kbps (DL) / Max. 1119 Kbps (UL)

Transmit Power Class 5 for LTE-FDD 21±2.7dBm
Bluetooth: 4.57±2dBm
Bluetooth LE: -4.83±2dBm

Data support SMS (TEXT, PDU), Network protocols (TCP,UDP,TLS,EGTS,MQTT)

Power

Input voltage range 10 - 30 V DC with overvoltage protection

Internal Back-up battery 115 mAh Li-Ion, 3.7 V battery (0.43 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

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

Operating environment

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|---|---|
| Operating temperature (without battery) | -40 °C to +85 °C |
| Storage temperature (without battery) | -40 °C to +85 °C |
| Operating temperature (with battery) | 0 °C to +40 °C |
| Storage temperature (with battery) | -20 °C to +60 °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

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|----------------|-----------------------------|
| Connection | OBDII socket |
| GNSS antenna | Internal High Gain |
| GSM antenna | Internal High Gain |
| USB | 2.0 USB Micro B |
| LED indication | 2 status LED lights |
| SIM | Micro-SIM |
| Memory | 128MB internal flash memory |

Features

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|---------|---------------|
| Sensors | Accelerometer |
|---------|---------------|

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|-----------------------------------|---|
| 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, 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

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| Regulatory | AT&T, IC, FCC, PTCRB |
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