

FMC234

4G LTE CAT 1, WATER-RESISTANT
TRACKER WITH HIGH-CAPACITY BATTERY

Product page



HIGH-CAPACITY BATTERY

Prolonged autonomous usage

IP67 CASING

Reliable protection against water and dust

4G CAT 1

4G LTE CAT 1 connectivity

IMPULSE INPUTS

Preventing unauthorized vehicle use



INSURANCE
TELEMATICS



STOLEN VEHICLE
RECOVERY



TRAILER
TRACKING



CONSTRUCTION
VEHICLE MONITORING

FMC234 with 1000 mAh high-capacity battery, ensures prolonged autonomous usage, when external power is lost or disconnected. It comes equipped with internal GNSS, LTE antennas, configurable digital, analog, negative and impulse inputs, three DOUT outputs, Bluetooth® connectivity, and backup battery. Device also includes integrated possibility to enable Impulse Input for precise fuel flow meter data reading. It is well-suited for applications such as insurance telematics, trailer tracking, stolen vehicle recovery, and construction vehicle monitoring.

Additionally, FMC234 tracker has IP67 certified casing with a click-type two-phase closing mechanism, enhancing its usability in challenging environmental conditions.



Module

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|------------|---|
| Name | FMC234- MBIB0: MeiG SLM320-E with Teltonika TM2500 FMC234- MCIB0: MeiG SLM320-LA with Teltonika TM2500 |
| Technology | LTE(Cat1)/2G(GSM/GPRS)/GNSS/BLUETOOTH® LE |

GNSS

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|----------------------|---|
| GNSS | GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS |
| Receiver | Tracking: 33 |
| 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

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|----------------|--|
| Technology | LTE Cat 1, GSM |
| 2G bands | FMC234-MBIB0: GSM: B2/B3/B5/B8 FMC234-MCIB0: GSM: B2/B3/B5/B8 |
| 4G bands | FMC234-MBIB0: LTE FDD: B1/B3/B7/B8/B20/B28 LTE-TDD:B38/B40/B41 FMC234-MCIB0: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD:B40 |
| Data transfer | LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8Mbps (DL)/Max 2Mbps (UL) GSM: GPRS: Max 85.6Kbps (DL)/Max 85.6Kbps (UL) |
| Transmit power | Class 4 for GSM850/900: 23±2dBm Class 1 for GSM1800/1900: 20±2dBm Class 3 for LTE-TDD: 23±2.7dBm Class 3 for LTE-FDD: 23±2.7dBm |
| Data support | SMS (text/data) |

Power

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|--------------------------|---|
| Input voltage range | 10 - 30 V DC with overvoltage protection |
| Internal Back-up battery | 1000 mAh Li-Po rechargeable 3.7 V battery (3.7 Wh) |
| Internal fuse | 3 A, 125 V |
| Power consumption | At 12V < 3 mA (Ultra Deep Sleep) At 12V < 5 mA (Deep Sleep) At 12V < 16 mA (Online Deep Sleep) At 12V < 18 mA (GPS Sleep) At 12V < 33 mA (nominal with no load) At 12V < 2A Max. (with full Load / Peak) |

Bluetooth® technology

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| Specification | 4.0 + LE sensors |
| Supported peripherals | Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth® LE sensors support support |

Physical specification

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|------------|---|
| Dimensions | 70,5 x 67,0 x 25,6 mm (L x W x H) 85,0 x 67,0 x 25,6 mm (L x W x H) (length with connector socket) |
| Weight | 91,8 g |

Operating environment

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|---|---|
| Operating temperature (without battery) | -20 °C to +85°C |
| Storage temperature (without battery) | -20 °C to +85 °C |
| Operating temperature (with battery) | -20 °C to +60 °C |
| Storage temperature (with battery) | -20 °C to+60 °C |
| Operating humidity | 5% to 95% non-condensing |
| Ingress Protection Rating | IP67 |
| 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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|--------------------|--------------------------------------|
| Digital Inputs | 3 |
| Negative Inputs | 1 (Digital Input 2) |
| Impulse Inputs | 2 (Digital Input 1, Digital Input 2) |
| Digital Outputs | 3 |
| Analog Inputs | 2 |
| CAN Adapter Inputs | 1 |
| 1-Wire | 1 |
| GNSS antenna | Internal High Gain |
| Cellular antenna | Internal High Gain |
| USB | 2.0 Micro-USB |
| LED indication | 2 status LED lights |
| SIM | Micro-SIM or eSIM |
| Memory | 128MB internal flash memory |

Features

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|-----------------------------------|--|
| Sensors | Accelerometer |
| Scenarios | Green Driving, Over Speeding detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip, Jamming |
| 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), FMBT mobile application (Configuration) |
| SMS | Configuration, Events, DOUT control, Debug |
| GPRS commands | Configuration, DOUT control, Debug |
| Time Synchronization | GNSS, NITZ, NTP |
| Fuel monitoring | LLS (Analog), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle |
| Ignition detection | Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle) |

Certification & Approvals

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| Regulatory | CE RED, E-Mark |
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