

FMB150

GNSS/GSM TRACKER WITH INTEGRATED CAN ADAPTER AND INTERNAL GNSS/GSM ANTENNAS AND INTERNAL BATTERY

Product page



2G NETWORK

Quad band cellular connectivity with global coverage

CAN DATA FOR EV VEHICLES

CAN module allows data reading from electric vehicles (EV)

INTEGRATED CAN DATA PROCESSOR

Allows to monitor real fuel consumption and level, full mileage, engine temperature and more

NEGATIVE INPUT

Allows easier installation of accessories



ELECTRIC VEHICLES



LIGHT VEHICLES



TRUCKS



BUSES

FMB150 is an ADVANCED GSM/GNSS/BLUETOOTH®LE tracker with integrated CAN data processor. It is compact 2 in 1 solution: GPS tracker and CAN adapter inside! Device allows to read CAN data from a wide range of various vehicles, including light & electric vehicles, trucks and buses. With the current software version FMB150 can be used in advanced applications as logistics, delivery services, utility transport, car sharing and more. For now, one SW option is available to fulfil your business demands:

A default FMB150 software version with LV-CAN parameters, including fuel level, consumption, odometer, CAN speed, pedal position.

Supported vehicle types: light vehicles, electric vehicles, trucks and buses.



Module

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|------------|-----------------------------|
| Name | Teltonika TM2500 |
| Technology | 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 | < 0.1m/s (within +/- 15% error) |
| Hot start | < 1 s |
| Warm start | < 25 s |
| Cold start | < 35 s |

Cellular

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|---------------|--|
| Technology | GSM |
| 2G bands | Quad-band 850 / 900 / 1800 / 1900 MHz |
| Data transfer | GPRS Multi-Slot Class 12 (up to 240 kbps), GPRS Mobile Station Class B |
| Data support | SMS (text/data) |

Power

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|---------------------|--|
| Input voltage range | 10 - 30 V DC with overvoltage protection |
| Back-up battery | 170 mAh Li-Ion battery 3.7 V (0.63 Wh) |
| Power consumption | At 12V < 6mA (Ultra Deep Sleep) At 12V < 8mA (Deep Sleep) At 12V < 11mA (Online Deep Sleep) At 12V < 20mA (GPS Sleep) At 12V < 35 mA (Nominal with no load) At 12V < 1.5 A Max. (with full Load / Peak) |

BLUETOOTH® technology

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

Physical specification

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| Dimensions | 65 x 56.6 x 20.6 mm (L x W x H) |
| Weight | 55 g |

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 | 2 |
| Analog Inputs | 2 |
| CAN interfaces | 2 |
| 1-Wire | 1 (1-Wire data) |
| GNSS antenna | Internal High Gain |
| GSM antenna | Internal High Gain |
| USB | 2.0 Micro-USB |
| LED indication | 3 status LED lights |
| SIM | Micro-SIM or eSIM |
| Memory | 128MB internal flash memory |

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 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 |

Features

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| CAN Data | Fuel Level (Dashboard), Total fuel consumption, Vehicle speed (wheel), Vehicle driven distance, Engine speed (RPM), Accelerator pedal position |
| Sensors | Accelerometer |
| Scenarios | Green Driving, Over Speeding detection, Jamming 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 |
| Sleep modes | GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep |
| Configuration and firmware update | FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth), FMBT mobile application (Configuration) |
| SMS | Configuration, Events, DOUT control, Debug |
| GPRS commands | Configuration, DOUT control, Debug |
| Time Synchronization | GPS, NITZ, NTP |
| Ignition detection | Digital Input 1, Accelerometer, External Power Voltage, Engine RPM |

Certification & Approvals *

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| Regulatory | CE-RED, E-mark, Reach, RoHS, Anatel |
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* in progress