

FMB240

WATERPROOF GPRS/GNSS TRACKER WITH
CAN DATA READING FEATURE

Product page



IP67 CASING

Reliable tracking in harsh conditions

2G NETWORK

Quad band cellular connectivity with global coverage

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



AGRICULTURE



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PUBLIC SERVICES



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FMB240 is a WATERPROOF GSM/GNSS/Bluetooth 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 agriculture, construction and mining machinery, trucks, buses and any other special transport. Depending on exact software version FMB240 can be used in advanced applications as heavy logistics, delivery services, utility transport. 2 options available to fulfill any business demands - LV-CAN200 option and ALL-CAN300 option. Because of IP67 casing, device is totally protected from dust and remains safe during the short periods of immersion in water up to 1m depth. As a result, FMB240 ensure reliable tracking even in harsh conditions.



Module	
Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/BLUETOOTH

GNSS	
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	
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	
Input voltage range	10 - 30V 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	
Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, Headset, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support

Physical specification	
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)

Interface

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 + eSIM
Memory	128MB internal flash memory

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	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

Features

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 *

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