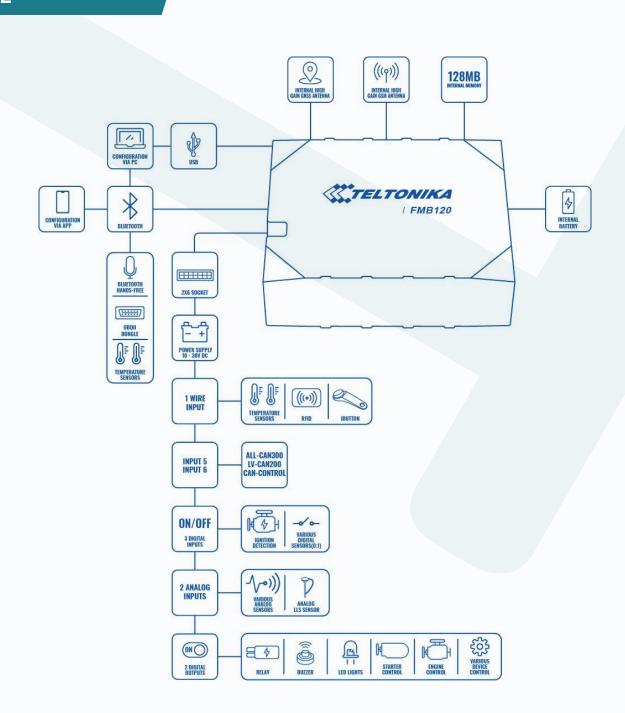


FMB120 small and professional tracker with internal high gain GSM and GNSS antennas, which is able to collect device coordinates and other useful data and transfer them via GSM network to server. This device is perfectly suitable for applications where location acquirement of remote objects is needed: fleet management, car rental companies, taxi companies, public transport, logistics companies, personal cars and so on. FMB120 can perform tasks on remote objects, such as monitoring engine status, controlling truck's door etc.



SCHEME









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Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/BLUETOOTH
GNSS	
GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBM
Accuracy	< 3 m
Hot start	<1s
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 - 30 V DC with overvoltage protection
Back-up battery	170 mAh Li-Ion battery 3.7 V (0.63 Wh)
Power consumption	At 12V < 6 mA (Ultra Deep Sleep) At 12V < 8 mA (Deep Sleep) At 12V < 11 mA (Online Sleep) At 12V < 20 mA (GPS Sleep) At 12V < 35 mA (nominal)

Bluetooth

Specification	4.0 + LE		
Supported peripherals	Temperature and Humidity sen support	nsor, Headset, OBDII dongle, Inateck Barcode Scanner, Universal BLE ser	nsors

Physical specification

Dimensions	65 x 56.6 x 18.9 mm (L x W x H)	
Weight	55 g	

DATASHEET



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Digital Inputs	3
Digital Outputs	2
Analog Inputs	2
CAN Adapter inputs	1
-1Wire	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 + 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	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

Sensors	Accelerometer	
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Contro Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detectio 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	
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

Regulatory CE/RED, E-Mark, EAC, RoHS, REACH