

FMB122

DUAL-SIM TRACKER WITH EXTERNAL GNSS ANTENNA

Teltonika FMB122 is SPECIAL tracker with external GNSS, internal GSM antennas, Bluetooth connectivity and backup battery. FMB122 is designed for light vehicles tracking but is also suitable for advanced applications like logistics, delivery services, utility transport and more. It is excellent for refrigerated transport, because it has extended input/ output set and 1-wire interface for temperature monitoring. With Teltonika CAN adapters, FMB122 can be even used in agriculture or construction & mining.



Bluetooth for external devices and Low Energy sensors



Digital Input/Output for remote monitoring and control



Allows device to work without external power source



Dual SIM - significantly reduce roaming costs



1-Wire® interface to monitor temperature data and RFID/iButton tags



External GNSS antenna extends mounting options



USE CASES



LIGHT VEHICLES



HEAVY DUTY TRANSPORT



TRAILER TRACKING



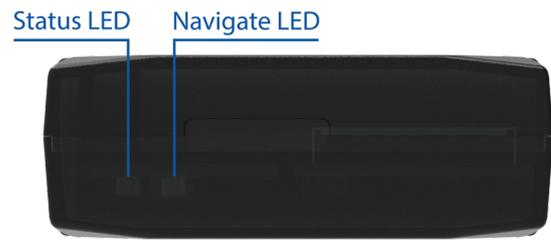
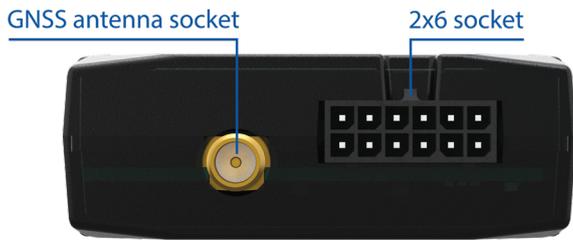
REFRIGERATED TRANSPORT



INTERNATIONAL LOGISTICS



CAR SHARING



Module

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
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 - 30 V DC with overvoltage protection
Internal 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 < 19mA	GPS Sleep
At 12V < 34 mA	Nominal (with no load)

Bluetooth

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

Physical specification

Dimensions	65 x 56.6 x 20.8 mm (L x W x H)
Weight	51 g

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

Interface

Digital Inputs	3
Digital Outputs	2
Analog Inputs	2
CAN Adapter Inputs	1
1-Wire	1
GNSS antenna	External (MMCX connector) High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Dual SIM
Memory	128MB internal flash memory

Features

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	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

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