

SENSORES E INSTRUMENTACION
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FMB204

WATERPROOF TRACKER WITH HIGH CAPACITY INTERNAL LI-ION BATTERY

FMB204 is a SPECIAL waterproof (IP67) tracker with GNSS, GSM and Bluetooth connectivity. Designed to work longer without external power supply - internal Li-ion battery enables device to operate up to 6 days in power saving mode. FMB204 is perfectly suitable for motorbike, scooter and water transport tracking, it can also be used in agricultural machinery and trailer monitoring, security or emergency service fleet management. Device supports various Bluetooth Low Energy sensors, beacons, hands-free headset, firmware and configuration update via Bluetooth.



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



Allows device to work without external power source



Bluetooth for external devices and Low Energy sensors



Digital Input/Output for remote monitoring and control



External voltage range



Classifies the degree of protection against solid objects and water

USE CASES



MOTORBIKES AND
 SCOOTERS



TRAILERS
 TRACKING



PUBLIC SAFETY
 SERVICES



WATER
 TRANSPORT



DELIVERY
 TRANSPORT



AGRICULTURE
 TRANSPORT



Module

Name	Teltonika TM2500
Technology	GSM/GPRS/GPS/BLUETOOTH

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBm
Accuracy	< 3 m
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	6 - 30 V DC with overvoltage protection
Internal Back-up battery	1800 mAh Li-Ion battery (6.66 Wh)

Bluetooth

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

Physical specification

Dimensions	72.5 x 73 x 27.3 mm (L x W x H)
Weight	205 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	IP67
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +70 °C
Battery storage temperature	-10 °C to +45°C

Interface

Digital Inputs	3
Digital Outputs	2
Analog Inputs	1
1WIRE DATA	1
1WIRE POWER	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal GSM High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	SIM
Memory	128MB internal flash memory

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, DOUT Control Via Call, GNSS Fuel Counter, Immobilizer, Excessive Idling detection, 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), OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)

Certification & Approvals

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