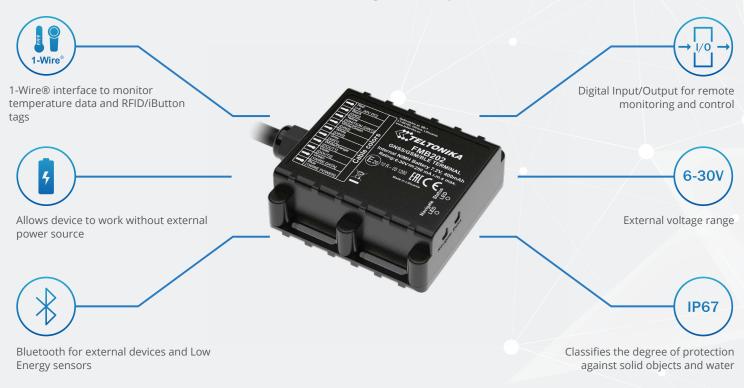


# **FMB202**

### WATERPROOF TRACKER WITH HIGH CAPACITY INTERNAL NIMH BATTERY

FMB202 is a SPECIAL waterproof (IP67) tracker with GNSS, GSM and Bluetooth connectivity. Designed to work longer without external power supply - internal NiMH battery enables device to operate up to 2 days in power saving mode. FMB202 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.



## **USE CASES**





**TRACKING** 





WATER TRANSPORT

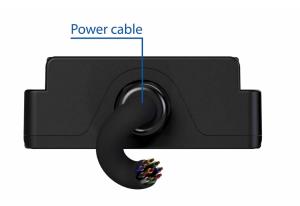


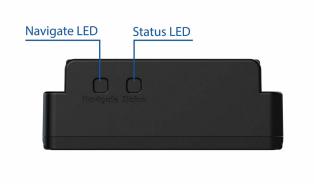
DELIVERY TRANSPORT



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	400 mAh Ni-MH battery (2.88 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 storage temperature	-20 °C to +45°C

#### Interface

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	

