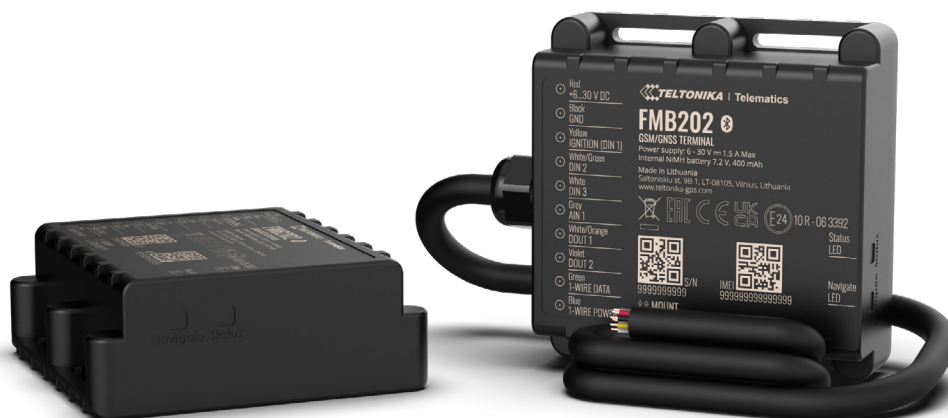# FMB202

Water-resistant tracker with high capacity internal NIMH battery

PERFECT FOR TWO-WHEELERS

Power supply from 6V makes this device ideal for all kinds of vehicles, including two-wheelers

PROTECTION AGAINST DUST AND WATER

Robust IP67-rated casing provides trusted protection

PROLONGED AUTONOMOUS DEVICE USAGE

400 mAh Ni-MH internal backup battery for prolonged autonomous usage

EXTENDED PRODUCT USAGE SCENARIOS

Bluetooth LE-based wireless connection of external devices

Motorbikes and scooters

Trailers tracking

Public safety services
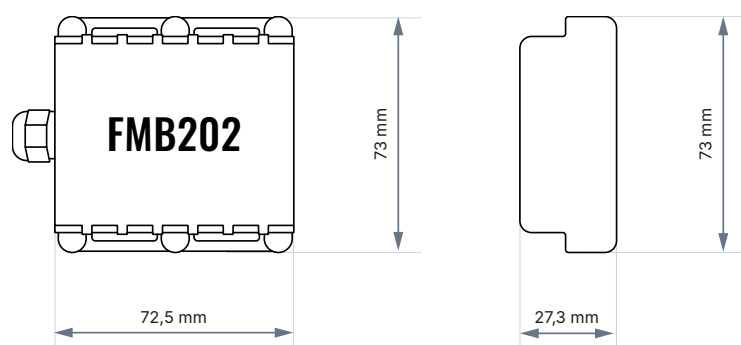
Water transport

Delivery transport

Agriculture transport

FMB202 is a SPECIAL water-resistant (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®.

Module

Name	Teltonika TM2500
Technology	GSM/GPRS/GPS/BLUETOOTH® LE

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	6 - 30 V DC with overvoltage protection
Internal Back-up battery	400 mAh Ni-MH battery (2.88 Wh)

BLUETOOTH® technology

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, Headset, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth® LE s ensors support

Physical specification

Dimensions	72.5 × 73 × 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

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	Micro-SIM or eSIM
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® wireless technology), 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, Pulse 5a