

# FMB209

## WATERPROOF TRACKER FOR INDIAN MARKET

FMB209 is a leading-edge AIS 140 certified waterproof tracker with GNSS connectivity and GAGAN support requirements dedicated to the Indian market. Teltonika Telematics has designed this SPECIAL tracker to comply with local regulations and deliver unquestionable value for the local GPS telematics service providers by adding a variety of high-end features.

Made in EU and certified by Automotive Research Association of India (ARAI), FMB209 model has an internal battery, accelerometer and gyroscope, embedded SIM-card, two servers functionality, tamper-proof with IP67 rating robust casing and compatible with a comprehensive time-saving FOTA WEB solution to fulfil a need for swift remote firmware updates, configuration changes and debug procedures.



### BLUETOOTH

Bluetooth for external devices and Low Energy sensors



### SOLUTIONS

FOTA WEB, Configurator & Third server support



### DRIVING BEHAVIOUR

Driving behaviour monitoring by GNSS or accelerometer data



### FUEL CONSUMPTION

Real time fuel consumption monitoring



### TAXI TRANSPORT

### PUBLIC TRANSPORTATION

### HEAVY DUTY TRANSPORT



# USE CASES



PUBLIC  
TRANSPORTATION



TAXI  
TRANSPORT



PUBLIC SAFETY  
SERVICES



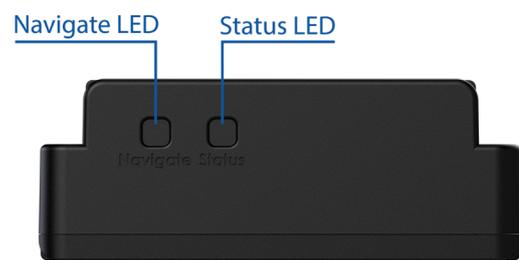
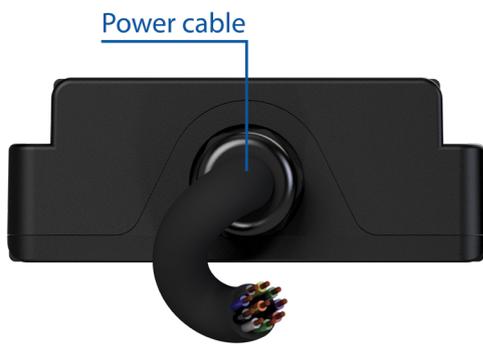
CAR  
RENTAL



HEAVY DUTY  
TRANSPORT



EDUCATIONAL  
INSTITUTIONS



## Module

Name	Teltonika TM2500
Technology	GSM/GPRS/BLUETOOTH

## GNSS

Module	Airoha AG3335MN
GNSS	GPS, NavIC(IRNSS), GLONASS, GALILEO, BEIDOU, QZSS
Receiver	L1 and L5 dual-band GNSS receiver*
Tracking sensitivity	-162 dBm
Accuracy	< 3 m
Hot start	< 1.5 s
Warm start	< 25 s
Cold start	< 32 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	800 mAh Li-Ion battery (2.96 Wh)

\*Only supports IRNSS in L5-band

### 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 +60 °C
Battery storage temperature	-20 °C to +45 °C

### Interface

Digital Inputs	2
Digital Outputs	2
Analog/Digital Inputs	2
RS232	1
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	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), FMBT mobile application (Configuration)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP

