

FMB208

WATERPROOF TRACKER FOR INDIAN MARKET

FMB208 is a waterproof tracker with gyroscope and IRNSS support for Indian compliance market. Teltonika designed a SPECIAL tracker to fulfil the requirements of AIS140 regulation and deliver additional value for GPS telematics solution providers by high-end features. FMB208 is ARAI certified AIS140 tracker with IRNSS and GPS, meeting requirements of GAGAN support, 2 servers functionality, internal battery, accelerometer and gyroscope, Embedded SIM, tamper-proof (IP67 rating) and powerful WEB FOTA to fulfil firmware updates requirement.



RS232 interface for external data reading



Digital Input/Output for remote monitoring and control



External voltage range



Bluetooth for external devices and Low Energy sensors



Certified AIS40 with IRNSS



Allows device to work without external power source



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	Quectel L89
GNSS	GNSS, GPS, IRNSS, GLONASS, GALILEO, BEIDOU, QZSS
Receiver	Tracking: 33
Tracking sensitivity	-162 dBm
Position accuracy	< 2.5 CEP
Velocity accuracy	< 0.1m/s (within +/- 15% error)
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)

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
Fuel monitoring	LLS (Analog), Digital LLS (RS232), OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)
RS232 Modes	Log Mode, NMEA, LLS, LCD, RFID HID/MF7, Garmin FMI, TCP ASCII/Binary

