FMB964

SMART TRACKER WITH HIGH CAPACITY BATTERY

Teltonika FMB964 is SPECIAL and smart tracker with Bluetooth connectivity, internal high gain GNSS and GSM antennas and integrated high capacity backup battery. Device is designed to work longer without power supply. FMB964 with Li-ion battery can work up to 10 days in power saving mode. FMB964 is perfectly suitable for insurance telematics, delivery, trailers tracking, security & emergency services applications. Supported wide range of power supply (6-30V) makes FMB964 suitable for motorbikes, light vehicles, trucks, buses.

Bluetooth for external devices and Low Energy sensors

Allows device to work without external power source

Crash detection functionality working according accelerometer data

OBDII Dongle
Allows reading CAN bus data from vehicle ECU

USE CASES

FLEET MANAGEMENT

TRAILER TRACKING

INSURANCE TELEMATICS (UBI)

CONNECTED CAR

PREDICTIVE MAINTENANCE

RENTAL AND LEASING

Power cable

Navigation LED   Status LED

Module

Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/BLUETOOTH

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
Back-up battery	1800 mAh Li Po rechargeable 3.7 V battery

Bluetooth

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

Physical specification

Dimensions	79 x 43 x 27.5 mm (L x W x H)
Weight	98 g

Interface

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

Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +70 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP54
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +35 °C for 1 month -20 °C to +30 °C for 6 months

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via Call, 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	GPS, 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, RoHS, E-Mark, EAC, REACH, RoHS