

# 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



Crash detection functionality working according accelerometer data



Allows device to work without external power source



Allows reading CAN bus data from vehicle ECU



## USE CASES



FLEET MANAGEMENT



TRAILER TRACKING



INSURANCE TELEMATICS (UBI)



CONNECTED CAR



PREDICTIVE MAINTENANCE



RENTAL AND LEASING



**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<br>-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 |
|------------|--|

