## Module

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|---|---|
| Name | Teltonika TM2500 |
| Technology | GSM/GPRS/GNSS/BLUETOOTH® LE |

## GNSS

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|---|---|
| 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

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|---|---|
| Input voltage range | 10 - 30 V DC with overvoltage protection |
| Back-up battery | 1200 mAh Li-Ion battery |

## BLUETOOTH® technology

| | |
|---|---|
| Specification | 4.0 + LE |
| Supported peripherals | EYE beacon and sensor, Headset, OBDII dongle, Inateck Barcode Scanner, Unversal Bluetooth® LE beacons and sensors support |

## Physical specification

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|---|---|
| Dimensions | 79 x 43 x 22 mm (L x W x H)<br>89 x 43 x 22 mm (L x W x H) (length with connector socket) |
| Weight | 74 g |

## Interface

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|---|---|
| Digital Inputs | 1 |
| Digital Outputs | 2 |
| GNSS antenna | Internal High Gain |
| Cellular antenna | Internal High Gain |
| USB | 2.0 Micro-USB |
| LED indication | 2 status LED lights |
| SIM | Nano-SIM |
| Memory | 128MB internal flash memory |

## Operating environment

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|---|---|
| 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 +35 °C for 1 month<br>-20 °C to +30 °C for 6 months |

## Features

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|---|---|
| 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® wireless technology), FMBT mobile application (Configuration) |
| SMS | Configuration, Events, DOUT control, Debug |
| GPRS commands | Configuration, DOUT control, Debug |
| Time Synchronization | GPS, NITZ, NTP |
| Fuel monitoring | OBDII dongle |

| Ignition detection | Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle) |
|---|---|
| Power off sleep mode | Allows to power off module to reduce power consumption to less than 1mA in a sleep mode |

### Certification & Approvals

| Regulatory | CE/RED, E-Mark, EAC, RoHS, REACH |
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