

Teltonika FMB640 is GNSS, GSM terminal for PROFESSIONAL applications. FMB640 is designed for complex solutions, where one device can do multiple tasks. FMB640 features like FMS CAN data (J1939), fuel CAN data (J1708), tachograph live data (K-line), remote tachograph file download, various third party RS232 or RS485 devices support and Dual-SIM will maximize your fleet efficiency. Terminal is suitable for applications like international logistics, refrigerated transport, agriculture, construction & mining, security & emergency services and even more.



Dual SIM - significantly reduce roaming costs



Allows device to work without external power source



CAN data reading from vehicles and specialized transport



Tachograph files and data remote download



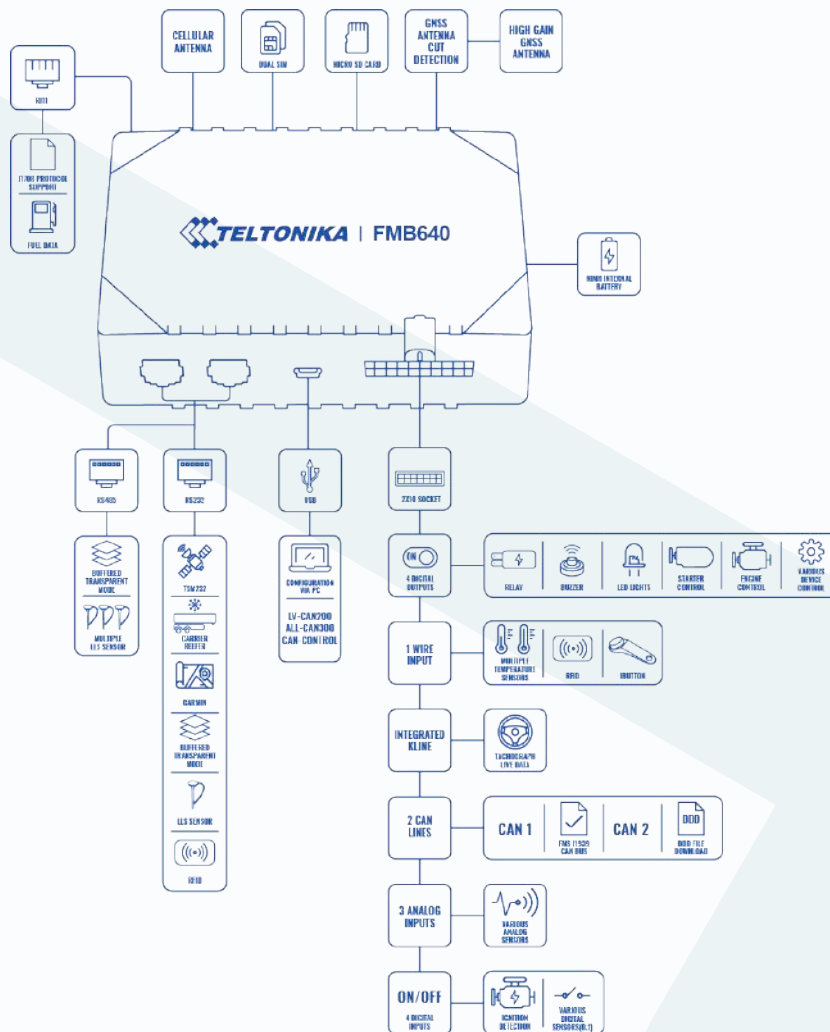
Accurate fuel level and temperature monitoring via LLS sensors



RS232/RS485 serial communication interfaces



SCHEME





Module

| | |
|------------|------------------|
| Name | Teltonika TM2500 |
| Technology | GSM/GPRS/GNSS |

GNSS

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|----------------------|---|
| GNSS | GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS |
| Receiver | 33/99 acquisition channels |
| Tracking sensitivity | -165 dBm |
| Accuracy | < 3 m |
| Hot start | < 1 s |
| Warm start | < 25 s |
| Cold start | < 35 s |

Cellular

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|---------------|--|
| Technology | GSM/GPRS |
| 2G | Quad-band 850/900/1800/1900 MHz |
| GPRS | GPRS Mobile Station Class B |
| Data transfer | GPRS Multi-Slot Class 12(up to 240 kbps) |
| Data support | SMS (text/data) |

Power

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|--------------------------|--|
| Input voltage range | 10 - 30 V DC with overvoltage protection |
| Internal Back-up battery | 550 mAh Ni-Mh, 8.4 V battery |

Physical specification

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|------------|------------------------------------|
| Dimensions | 104.1 x 76.8 x 31.5 mm (L x W x H) |
| Weight | 197 g |

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 | IP41 |
| Battery storage temperature | -20 °C to +45°C |

Interface

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|-----------------|--|
| Digital Inputs | 4 |
| Digital Outputs | 4 |
| Analog Inputs | 4 |
| 1-Wire | 1 |
| RS232 | 2 |
| RS485 | 1 |
| CAN J1939 | 2 |
| J1708 | 1 |
| K-line | 1 |
| GNSS antenna | External High Gain |
| GSM antenna | External High Gain |
| USB | 2.0 Mini-USB |
| LED indication | 2 status LED lights |
| SIM | x2 SIM Card (Dual-SIM) |
| Memory | 2 MB internal flash memory and external Micro SD card up to 32GB |

Features

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|-----------------------------------|---|
| Sensors | Accelerometer |
| Scenarios | Green/Eco Driving, Over Speeding detection, Jamming detection, Excessive Idling detection, Towing detection, Crash detection, Immobilizer, iButton Read Notification, Auto Geofencing, Manual Geofencing, Trip detection, Odometer, Fuel counter, GNSS Unplug Detection, DDD download and Tacho online data, Offline tracking, Voice call |
| Supported peripherals | RFID RS232, RFID 1-Wire, iButton 1-Wire, Temperature 1-Wire, Continental tire pressure measurement sensor |
| Sleep modes | GPS Sleep, Online Deep Sleep, Deep Sleep |
| Configuration and firmware update | FOTA Web, FOTA, Teltonika Configurator |
| SMS | Configuration, Events, DOUT control, Debug |
| GPRS commands | Configuration, DOUT control, Debug |
| Time Synchronization | GNSS, NITZ, NTP |
| Fuel monitoring | LLS (Analog), Digital LLS (RS232, RS485), LV-CAN200, ALL-CAN300, CAN-CONTROL, CAN FMS (J1939, J1708), Ultrasonic level sensor |
| Ignition detection | Digital Input, Accelerometer, External Power Voltage |
| RS232 Modes | Log Mode, NMEA, LLS, LCD, RFID HID/MF7, Garmin FMI, TCP ASCII/Binary, TCP ASCII/Binary (Buffered), Rec to LCD, Atol Tachograph, UL2-202 Fuel Sensor, TSM232 Sattelite backup, Carrier Freezer |
| RS485 Modes | Silent, Log Mode, NMEA, LLS, TCP ASCII/Binary, TCP ASCII/Binary (Buffered) |

Certification & Approvals

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