

# FMB640 firmware errata

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## Introduction

We are always improving our devices performance, stability and reliability. That's why Teltonika is one of the leading GNSS trackers manufacturers in the world.

This document describes **FMB640** devices firmware improvements, changes, new features implementations as well as current firmware release version.

## Firmware versioning

- Structure

FM.VER. [XX] . [YY] . [ZZ]

- Syntax description
  - XX - client number. Value range: 00 - Teltonika, 02..99 - Specific clients
  - YY - branch number, shows major changes in firmware, i.e. new module support added or new major feature added.
  - ZZ - minor changes like small fixes, improvements and new minor features addition.

## Firmware versions

<b>FIRMWARE VERSION</b>	<b>RELEASE DATE</b>	<b>CHANGES</b>
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<b>01.02.27.rev.06</b> (Latest firmware release version for FMX640)	2023.07.18	<ul style="list-style-type: none"> <li>• <b>NEW</b> Added Accelerometer calibration improvements.</li> <li>• <b>NEW</b> Added LVCAN DTC Functionality.</li> <li>• <b>NEW</b> Added FMS AdBlue level IO.</li> <li>• <b>NEW</b> Added additional sensors 5 6 for euroscan thermograph</li> <li>• <b>NEW</b> Added new VDO counter elements</li> <li>• Tachograph Autobaudrate improvements</li> <li>• DDD download improvements</li> <li>• Faster sim in SLOT2 detection at startup.</li> <li>• SIM communication improvements</li> <li>• DDD Front panel communication stability improvements</li> <li>• Immobilizer improvements</li> <li>• 1-wire communication improvements</li> <li>• Data sending improvements</li> <li>• Thermograph solution improvements</li> <li>• Device communication improvements with tachograph</li> </ul>
<b>01.02.22.rev.04</b>	2022.09.02	<ul style="list-style-type: none"> <li>• Improvements for manufacturing process. (No any functionality improvements made)</li> </ul>

**01.02.22.Rev.02**  
(Latest firmware  
release version for  
FMX640)

2022.08.22

- **NEW** added Euroscan Thermograph X1 and X2 support
- **NEW** added: Tachograph driver name configuration.
- **NEW** added: Iridium Edge
- **NEW** added: LVCAN adapter over RS232 functionality
- **NEW** added: support for codec15
- **NEW** added: eSIM functionality implementation
- **NEW** added: Additional tacho parameters.
- **NEW** added: Tachograph Efas 4.8 DDD files support.
- **NEW** Added: 1-Wire sensor IDs setting from configurator.
- **NEW** added: EGTS protocol implementation
- **NEW** added: EFAS 4.11 support.
- **NEW** added: Time jump filter
- LVCAN logging.
- Tacho Mileage Jump filter port.
- Manual CAN filter improvements
- Periodic AVL packet send (when connecting to DDD server) improvements
- Jamming detection for FMC64 devices improvements
- Changed Tacho keep alive update state timeout
- RS232/485 external device data sending improvements
- Tachograph DDD files download improvements
- Changed OneWire devices search algorithm.
- Changed max. FOTA Web connection period = 12h
- Changed max. towing angle value
- Record saving stability
- Tacho KLine (D8) improvements
- Sleep modes improvements
- Impulse counter functionality improvements.
- Blacklisted operator improvements and changes
- Battery detection on startup improvements
- Tachograph EFAS Auto detection improvements
- Stability improvements
- Advanced eco-driving improvements
- FMS data reading improvements
- Tachograph data sending improvements
- LVCAN functionality improvements
- Record sending logic improvements

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**01.00.13**

2021.05.18

- Drivers Schedule Support for Web Tacho
  - EFAS 4 Tachograph support
  - Record sending improvements
  - Eco Driving Improvements
  - Crash Trace improvements
  - Tachograph/CAN data reading improvements
  - Front Panel Live data reading improvements
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**01.00.05**  
(Current firmware  
release version for  
FMX640)

2020.10.26

- Tachograph FrontPanel improvements
- Additional tachograph parameters added
- AutoCAN reading improvements
- Sleep modes improvements
- Battery charging/discharging improved
- Tracking On demand added
- LVCAN DTC codes reading improvements
- 1Wire TSH202 multiple sensors support added
- Periodical TSM232 SBD records saving improvements
- TCP buffering to SD card added
- GPRS Remote log improvements

**Note:** Newly  
produced devices  
come equipped  
with this version  
from the factory,  
we strongly advise  
to not downgrade  
devices to any of  
the previous  
versions!

\* For more  
information please  
contact your  
Teltonika sales  
manager.

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**00.03.79**

2020.08.10

- Tachograph driver data handling improvements
  - Tacho download improvements
  - Record send stability improved
  - AutoCAN, ManualCAN improvements
  - Tachograph data reading improvements
  - TSM232 stability improvements.
  - Added TSM232 check feature in Configurator  
Status>Maintenance Tab.
  - Added Geofence Over speeding DOUT control in every  
geozone.
  - Added Dout Control to every geozone.
  - TPMS functionality improvements
  - Added Custom scenario event onExit feature.
  - Added DOUT control in progress event reset.
  - Added FMS Tell status IOs
  - Garmin improvements
  - LVCAN, ALLCAN, CAN-CONTROL reading improvements
  - DSleep logic improvements
  - COM modes stability improvements
  - TCP, UDP packets handling improve
  - Internal improvements for manufacture
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<b>00.03.65</b>	2020.01.24	<ul style="list-style-type: none"> <li>• UDP data sending improvements</li> <li>• Battery charge mode parameter added</li> <li>• GPS FIX time after sleep improved</li> <li>• Wake up from sleep modes improved</li> <li>• FrontPanel DDD files sending stability improvements</li> <li>• K-Line midnight record saving logic changed</li> <li>• ManualCAN improvements</li> <li>• Tachograph data reading improvements</li> <li>• FMC640, FMM640 support added</li> <li>• Movement source parameter added</li> <li>• IO elements data sending mode added</li> <li>• GALILEO and BEIDOU selection for GNSS mode added</li> <li>• Device and FOTAWEB communication stability improvements</li> <li>• Carrier freezer new parameters added</li> <li>• LVCAN, ALLCAN communication improved</li> <li>• CAN-CONTROL with DTC reading added</li> <li>• LLS fuel sensor reading stability improved</li> <li>• Immobilizer improvements</li> <li>• iButton read notification improvements</li> <li>• Accelerometer autocalibration logic improved</li> <li>• Continental TPMS improvements</li> <li>• New type of zone for Manual geofence added</li> </ul>
<b>00.03.50</b>	2019.06.19	<ul style="list-style-type: none"> <li>• DTCO VDO 4.0 tachograph support added</li> <li>• Tachograph data sending improvements</li> <li>• Records saving to SD card improvements</li> <li>• Ping mode improvements</li> <li>• GPS sleep mode improvements</li> <li>• DOUT control improvements</li> <li>• Configuration stability improvements</li> </ul>
<b>00.03.45</b>	2019.04.25	<ul style="list-style-type: none"> <li>• Carrier freezer support added</li> <li>• Tachograph data sending improvements</li> <li>• LVCAN setting program nr. via configurator added</li> <li>• Odometer value improvements</li> <li>• Accelerometer improvements added</li> <li>• Additional FMS parameters added</li> <li>• CAN CONTROL functionality added</li> <li>• FOTA Web functionality improvements</li> <li>• DOUT control improvements</li> <li>• SMS/GPRS commands improvements</li> <li>• iButton functionality improvements</li> <li>• FrontPanel DDD files reading support added</li> <li>• GPRS stability improvements</li> <li>• NTP improvements</li> <li>• Deep sleep consumption improvements</li> <li>• Alternative DDD card download added</li> </ul>

<b>00.03.21</b>	2019.01.24	<ul style="list-style-type: none"> <li>• K-Line improvements</li> <li>• Sleep mode improvements</li> <li>• Data sending improvements</li> <li>• Custom Scenarios functionality added</li> <li>• Additional MCAN parameters added</li> <li>• Static Navigation deactivation source added</li> <li>• New function for iButton notifications scenario added</li> <li>• K-Line record merged with periodic record</li> <li>• Configurator changes. FMS I/O parameter "Distance" moved to Tachograph Data tab</li> <li>• Tachograph communication improvements</li> </ul>
<b>00.03.14</b>	2019.01.04	<ul style="list-style-type: none"> <li>• FMS IO AdBlue parameter added</li> <li>• LVCAN stability improvements</li> <li>• Manual CAN2 list implemented</li> <li>• GPRS Limits added</li> <li>• DOUT control via call functionality added</li> <li>• Autogeofence deactivate by Engine RPM added</li> <li>• Tacho download improvements</li> </ul>
<b>00.03.08</b>	2018.12.06	<ul style="list-style-type: none"> <li>• FOTA Web stability improvements</li> <li>• Data sending improvements</li> <li>• Tacho download improvements</li> <li>• Dual server functionality improvements</li> <li>• IO elements configuration improvements</li> </ul>
<b>00.03.04</b>	2018.11.27	<ul style="list-style-type: none"> <li>• MobilEye support added</li> <li>• 100 geozones support added</li> <li>• MCAN2 support added</li> <li>• DOUT control improvements</li> <li>• Battery charge improvements</li> <li>• Records saving and sending improvements</li> <li>• SMS commands improvements</li> <li>• Immobilizer scenario improvements</li> <li>• Crach detection improvements</li> <li>• Status window implemented</li> <li>• Tachocheck SMS command improvements</li> <li>• Dual server functionality improvements</li> <li>• Overspeeding scenario improvements</li> <li>• Device stability improvements</li> <li>• Tacho download improvements</li> </ul>
<b>00.01.05</b>	2018.08.06	<ul style="list-style-type: none"> <li>• CAN adapter (LV-CAN200/ALL-CAN300) improvements</li> <li>• ADC (Analog to Digital Converter) accuracy improvement</li> <li>• J1708 CAN Fuel Level/Consumption parameters added</li> <li>• Quectell Hardware support added</li> <li>• Zbit flash added</li> <li>• USB connection improvements</li> <li>• "On Delta Change" operand (event generating) added.</li> <li>• Codec 12 parsing improvements</li> </ul>
<b>00.00.13</b>	2018.05.10	<ul style="list-style-type: none"> <li>• SMS sending for panic records added to code.</li> <li>• SMS events improvements.</li> <li>• Tachograph auto connect improved.</li> <li>• Fota Web support added</li> <li>• Deep Sleep Improvements</li> <li>• USB improvements</li> </ul>