

# 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

FIRMWARE VERSION	RELEASE DATE	CHANGES
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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>

<b>01.02.22.Rev.02</b> (Latest firmware release version for FMX640)	2022.08.22	<ul style="list-style-type: none"> <li>• <b>NEW</b> added Euroscan Thermograph X1 and X2 support</li> <li>• <b>NEW</b> added: Tachograph driver name configuration.</li> <li>• <b>NEW</b> added: Iridium Edge</li> <li>• <b>NEW</b> added: LVCAN adapter over RS232 functionality</li> <li>• <b>NEW</b> added: support for codec15</li> <li>• <b>NEW</b> added: eSIM functionality implementation</li> <li>• <b>NEW</b> added: Additional tacho parameters.</li> <li>• <b>NEW</b> added: Tachograph Efas 4.8 DDD files support.</li> <li>• <b>NEW</b> Added: 1-Wire sensor IDs setting from configurator.</li> <li>• <b>NEW</b> added: EGTS protocol implementation</li> <li>• <b>NEW</b> added: EFAS 4.11 support.</li> <li>• <b>NEW</b> added: Time jump filter</li> <li>• LVCAN logging.</li> <li>• Tacho Mileage Jump filter port.</li> <li>• Manual CAN filter improvements</li> <li>• Periodic AVL packet send (when connecting to DDD server) improvements</li> <li>• Jamming detection for FMC64 devices improvements</li> <li>• Changed Tacho keep alive update state timeout</li> <li>• RS232/485 external device data sending improvements</li> <li>• Tachograph DDD files download improvements</li> <li>• Changed OneWire devices search algorithm.</li> <li>• Changed max. FOTA Web connection period = 12h</li> <li>• Changed max. towing angle value</li> <li>• Record saving stability</li> <li>• Tacho KLine (D8) improvements</li> <li>• Sleep modes improvements</li> <li>• Impulse counter functionality improvements.</li> <li>• Blacklisted operator improvements and changes</li> <li>• Battery detection on startup improvements</li> <li>• Tachograph EFAS Auto detection improvements</li> <li>• Stability improvements</li> <li>• Advanced eco-driving improvements</li> <li>• FMS data reading improvements</li> <li>• Tachograph data sending improvements</li> <li>• LVCAN functionality improvements</li> <li>• Record sending logic improvements</li> </ul>
<b>01.00.13</b>	2021.05.18	<ul style="list-style-type: none"> <li>• Drivers Schedule Support for Web Tacho</li> <li>• EFAS 4 Tachograph support</li> <li>• Record sending improvements</li> <li>• Eco Driving Improvements</li> <li>• Crash Trace improvements</li> <li>• Tachograph/CAN data reading improvements</li> <li>• Front Panel Live data reading improvements</li> </ul>

**01.00.05**  
(Current firmware  
release version for  
FMX640)

**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.

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

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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>• Quectel 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>