

# Template:FMC640 & FMM640 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 **FMC640 & FMM640** 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: 00,01 - 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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**01.02.27.rev.06**  
(Latest firmware  
release version for  
FMX640)

2023.07.18

- **NEW** Added Accelerometer calibration improvements.
- **NEW** Added LVCAN DTC Functionality.
- **NEW** Added FMS AdBlue level IO.
- **NEW** Added additional sensors 5 6 for euroscan thermograph
- **NEW** Added new VDO counter elements
- Tachograph Autobaudrate improvements
- DDD download improvements
- Faster sim in SLOT2 detection at startup.
- BLE communication improvements
- SIM communication improvements
- DDD Front panel communication stability improvements
- Immobilizer improvements
- 1-wire communication improvements
- Data sending improvements
- Thermograph solution improvements
- Device communication improvements with tachograph

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**01.02.22.rev.04**

2022.09.02

- Improvements for manufacturing process. (No any functionality improvements made)
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**01.02.22.Rev.02**

2022.08.22

- **NEW** added Euroscan Thermograph X1 and X2 support
- **NEW** added: Iridium Edge
- **NEW** added: LVCAN adapter over RS232 functionality
- **NEW** added: support for codec15
- **NEW** added: eSIM functionality implementation
- **NEW** added: BLE name configuration feature.
- **NEW** added: Additional tacho parameters.
- **NEW** added: beacon timeout parameter.
- **NEW** added: Beacon on change functionality.
- **NEW** added: Tachograph Efas 4.8 DDD files support.
- **NEW** Added: 1-Wire sensor IDs setting from configurator.
- **NEW** added: BLE broadcasting name with 4 last IMEIsymbols.
- **NEW** added: EGTS protocol implementation
- **NEW** added: EFAS 4.11 support.
- **NEW** added: Time jump filter
- **NEW** added:Tachograph driver name configuration.
- **NEW** added: BLE devices discovery functionality
- LVCAN logging.
- Tacho Mileage Jump filter port.
- Tachograph DDD files download improvements
- 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
- Changed 1-wire 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
- BLE sensors timeout 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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<b>01.00.05</b>	2020.10.26	<ul style="list-style-type: none"> <li>• BLE functionality improvements</li> <li>• BLE stability improved</li> <li>• BLE firmware update via FOTAWEB added</li> <li>• TZ-BT sensor parser improvements</li> <li>• AutoCAN reading improvements</li> <li>• Tachograph FrontPanel improvements</li> <li>• Additional tachograph parameters added</li> <li>• Sleep modes improvements</li> <li>• Battery charging/discharging improved</li> <li>• Tracking On demand added</li> <li>• LVCAN DTC codes reading improvements</li> <li>• 1Wire TSH202 multiple sensors support added</li> <li>• Periodical TSM232 SBD records saving improvements</li> <li>• TCP buffering to SD card added</li> <li>• GPRS Remote log improvements</li> <li>•</li> <li>• TPMS functionality improvements</li> <li>• Tachograph driver data handling improvements</li> <li>• Tacho download improvements</li> <li>• Record send stability improved</li> <li>• AutoCAN, ManualCAN improvements</li> <li>• Tachograph data reading improvements</li> <li>• TSM232 stability improvements.</li> <li>• Added DOUT Control to every geozone</li> </ul>
<b>00.03.74.T112</b>	2020.06.08	<ul style="list-style-type: none"> <li>• BLE beacons and BLE sensors support added</li> <li>• Data sending stability improvements</li> <li>• TSM232 check feature added</li> <li>• ManualCAN configuration improvements</li> <li>• GNSS stability improvements</li> <li>• Manual geofence configuration improvements</li> <li>• Fixed Trip odometer precision when counting mode is "Between records"</li> <li>• FMM640 NB-IoT network stability improved</li> <li>• I/O element reading stability improvements</li> <li>• Tachograph data reading improvements</li> <li>• Minor CAN-Adapter data reading improvements</li> </ul>
<b>00.03.68</b>	2020.02.17	<ul style="list-style-type: none"> <li>• Custom scenario event onExit feature</li> <li>• DOUT control in progress event reset</li> <li>• Tacho repeat request feature</li> <li>• FMS Tell Tale IO elements added</li> <li>• CAN data reading from train at 25kbits</li> <li>• Minor fixes</li> </ul>