

# FMM130 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 **FMCXXX, FMUXXX, FMMXXX platform** devices firmware improvements, changes, new features implementations as well as current firmware release version.

FIRMWARE VERSION	SUPPORTED HARDWARE
03.25.XX	FMC1YX, FMU1YX, FMM1YX
03.27.XX	FMB0YX, FMB9X0, FMB96X, FMB1YX, FMU1YX, FMM1YX, FMC1YX, FMM001, FMC001, FM30XY, FMB2YX, FMT100
03.29.XX	FMB010, FMB020, FMT100, FMB900, FMB910, FMB920, FMC920, FMM920, FMB110, FMB120, FMB122, FMB125, FMB130, FMC125, FMC130, FMC13A, FMM125, FMM130, FMM13A, FMB202, FMB204, FMB225, FMB230, FMC225, FMC230, FMM230, FMB001, FMB003, FMC001, FMC003, FMC00A, FMM001, FMM003, FMM00A, FMB140, FMB240

## Evaluation firmware branches

Newly introduced Teltonika Telematics products start their lifecycle and mass production running evaluation branch firmware versions, which may be based on older BASE firmware version or separate firmware branch, therefore may have different features. Such products do not immediately receive identical improvements as products in BASE firmware until their support is added. Currently such products are:

FIRMWARE VERSION	HARDWARE
03.29.00.Rev.457	FMC880, FMM880, FMC800, FMM800, FMM80A

<b>03.28.07.Rev.159</b>	FMB150, FMC150, FMM150
<b>03.27.10.Rev.482</b>	FMB930
<b>03.27.10.Rev.487</b>	FMB965
<b>03.28.04.Rev.273</b>	FMP100

## Firmware versioning

- Structure

FMB(T) . VER. [XX] . [YY] . [ZZ] . Rev. [##] \_[ID###]

- Syntax description
  - XX – major FW version.
  - YY – branch number, shows major changes in firmware, i.e. new module support added or new major feature added.
  - ZZ – major changes like bigger fixes, improvements and new features addition.
  - ## – minor changes like small fixes and improvements.
  - ID[###] – Spec ID KEY – Specific clients FW changes.

## Firmware versions

FIRMWARE VERSION	RELEASE DATE	CHANGES
<b>03.29.00.Rev.18</b> (recommended for FMT100, FMB900, FMB910, FMB920, FMC920, FMM920, FMB110, FMB120, FMB122, FMB130, FMC130 (SLM320- LA, SLM320-E2, EC21-EC, EC21-AU), FMC13A, FMM130 (BG95-M3, BG96), FMM13A, FMB202, FMB204, FMB206, FMB230, FMC230, FMM230, FMB140, FMB240, FMB125, FMC125 (SLM320- LA, SLM320-E2, EC21-EC), FMM125 (BG95-M3), FMB225, FMC225)	2024.05.13	<ul style="list-style-type: none"> <li>• Improved reconnection to new operator time if GPRS was unavailable with initial operator</li> <li>• Fixed pro-longed reconnection to new operator due to record tasks interrupting operator search</li> <li>• Fixed network session closing when current operator is added to blacklist</li> <li>• Improved module initialization time for devices with Quectel</li> <li>• Fixed Digital Output state restore after firmware update</li> <li>• RS232 interface stability improvements</li> <li>• GNSS status element state improvements</li> <li>• Time synchronization improvements</li> <li>• Manufacture testing improvements</li> </ul>

**03.29.00.Rev.14**  
(recommended for  
FMM130 with BG95-  
M3, FMM230,  
FMC125 with MeiG  
SLM320, FMC225,  
FMC13A)

2023.12.13

- **NEW!** [TELTONIKA EYE Beacon and EYE Sensor easy configuration](#) functionalities added
  - **NEW!** [TELTONIKA EYE Beacon Lost & Found and Proximity Event](#) functionalities added
  - **NEW!** [SECO](#) functionality added
  - **NEW!** [Back-Up Tracker](#) functionality added
  - **NEW!** [GNSS jamming](#) functionality added
  - **NEW!** [Low Power Mode](#) functionality added
  - **NEW!** MQTT support for [AWS IoT Shadow/Custom](#) and [Azure IoT](#) added
  - **NEW!** [RS485 Buffered](#) functionality added
  - **NEW!** [RS232 Delimiter mode](#) functionality added
  - **NEW!** [1-Wire interface control in sleep modes](#) functionality added
  - **NEW!** [BT/BLE interface control in sleep modes](#) functionality added
  - **NEW!** [NBL-2 Bluetooth RFID reader](#) support added
  - **NEW!** SMS/GPRS command "[lvcanhorn](#)" support added
  - **NEW!** Added support for [FMC13A](#) and [FMM13A](#)
  - **NEW!** Added support for [FMC00A](#) and [FMM00A](#)
  - **NEW!** Added support for [FMC920](#) and [FMM920](#)
  - **NEW!** Added support for [FMC003](#) and [FMM003](#)
  - **NEW!** Added support for small OBD devices [FMB003](#) and [FMB020](#)
  - **NEW!** Added support for FMC1XY/FMC2XY devices with MeiG modems
  - **NEW!** SMS/GPRS command "[setigndigout](#)" added
  - **NEW!** Jamming feature support added for FMC1XY/FMC2XY devices with MeiG modems
  - **NEW!** Support of new electric vehicle [OEM parameters](#) for FMX00X devices
  - **NEW!** [CAN service and LPG I/O elements](#) added
  - **NEW!** New I/O elements for each CAN adapter state flag added
  - **NEW!** New I/O Digital Input 2 for FMX920, FMB910 and FMB900 devices
  - **CHANGED!** Reworked recalibration logic
  - **CHANGED!** [Default parameter values](#)
  - **CHANGED!** [SMS Event](#) logic reworked
  - **CHANGED!** [LLS address](#) count expanded to 16
  - **CHANGED!** Black list functionality reworked
  - **CHANGED!** SMS/GPRS command "[cpureset](#)" protection functionality
  - **CHANGED!** [Pulse Counter](#) reworked
  - 1-Wire Temperature sensor stability improvements
  - Operator search procedure functionality improvements
  - Record saving and sending improvements
  - DOUT state saving improvements
  - GPRS Session and PDP Context Activation logic improvements
  - Trip state saving improvements
  - CAN data reading improvements
  - BLE data reading stability improvements
  - TimeSync, SMS handling and connection stability improvements for FMC1XY/FMC2XY devices with MeiG modems
  - AutoAPN multiple block file improvement for larger database capacity
  - Manufacture testing improvements
  - Improved system stability and fixed general bugs
-

<b>03.27.13.Rev.03</b> (recommended for FMT100, FMB1XY, FMB0XY, FMB2XY, FMB9XY, FMM130, FMC001)	2022.08.01	<ul style="list-style-type: none"> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.12.Rev.00</b> (recommended for FMM130 with BG95)	2022.02.17	<ul style="list-style-type: none"> <li>• Added FMM230, FMC230, FMC225, FMB230, FMB225, FMB240 support</li> <li>• Fixed manual frequency bands configuration for FMMx30 devices</li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.10.Rev.02</b>	2021.11.11	<ul style="list-style-type: none"> <li>• New Accelerometers support added</li> <li>• Static navigation improvements</li> <li>• GNSS performance improvements</li> <li>• BG95-M3 modem support</li> <li>• AutoAPN improvements</li> <li>• Limit max FOTA connection period to 12 hours</li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.07.Rev.252</b> (recommended for FMC130 with SLM320)	2021.10.15	<ul style="list-style-type: none"> <li>• <b>SLM320 modem support</b></li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.07.Rev.00</b> (recommended FMU130, FMU125 FMC130, FMC125, FMM125)	2021.08.02	<ul style="list-style-type: none"> <li>• <b>New Flash memory component support added</b></li> <li>• <a href="#">Inverted DOUT</a> functionality added</li> <li>• <a href="#">Universal Beacons</a> functionality added</li> <li>• Beacons list expanded to support 50 beacon ID's</li> <li>• <a href="#">BLE AES128</a> encryption added</li> <li>• Enabled SBAS support</li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.04.Rev.01</b>	2021.03.16	<ul style="list-style-type: none"> <li>• Quectel modem reset procedure improvements</li> <li>• Optimization of faster network selection</li> <li>• Optimization of internal flash usage</li> <li>• Fix of GNSS version initialization</li> <li>• Added <a href="#">Beacon On Change</a> functionality</li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.03.Rev.02</b>	2021.01.28	<ul style="list-style-type: none"> <li>• Fix odometer calculation when source selected LVCAN or GNSS</li> <li>• DNS fixes and improvements</li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.03.Rev.00</b>	2020.12.16	<ul style="list-style-type: none"> <li>• Improved high priority records sending</li> <li>• Quectel modem configuration rework</li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.02.Rev.03</b>	2020.10.28	<ul style="list-style-type: none"> <li>• Command "setdigout" fixes when GNSS is not available</li> <li>• Periodic BLE scan improvements when using eventual beacon records</li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.27.02.Rev.01</b>	2020.10.25	<ul style="list-style-type: none"> <li>• Disable NTP TSYNC in Deep-sleep mode</li> <li>• TLS fixes and improvements</li> </ul>

<b>03.27.02.Rev.00</b>	2020.09.14	<ul style="list-style-type: none"> <li>• Added LV-CAN200+DTC functionality</li> <li>• <a href="#">BLE beacons</a> and <a href="#">BLE sensors</a> support for FMU1YX, FMM1YX, FMC1YX, FMM001, FMC001</li> <li>• BLE whitelist (scan stability improvements)</li> <li>• Added time synchronization improvement</li> <li>• <a href="#">iButton list</a> extended to 4000 iButtons.</li> <li>• Implemented <a href="#">Magnetic card reader</a> functionality for FMU126</li> <li>• Implemented <a href="#">Towing detection</a> DOUT control</li> <li>• <a href="#">EGTS</a> protocol support added</li> <li>• Added configurable <a href="#">ACK type (TCP/AVL)</a> source feature</li> <li>• Added <a href="#">BLE Efento sensor</a> support</li> <li>• <a href="#">Codec12/13 packet merge</a> functionality added</li> <li>• Added <a href="#">encrypted record</a> support (TLS)</li> <li>• Added <a href="#">Ban list control</a> functionality</li> <li>• <a href="#">Advanced eco driving</a> for all hardware</li> <li>• Battery protection improvements</li> <li>• <a href="#">Auto APN</a> support for FMU1YX, FMM1YX, FMC1YX, FMM001, FMC001</li> <li>• CAN Adapter improvements</li> <li>• Added <a href="#">FOTA WEB connection period randomizer</a></li> <li>• Added <a href="#">Ignition On Counter</a> functionality</li> <li>• Added new <a href="#">UMTS/LTE Cell ID 636</a></li> <li>• Improved system stability and fixed general bugs</li> </ul>
<b>03.25.10.Rev.175</b>	2019.12.23	<ul style="list-style-type: none"> <li>• Stability improvements</li> <li>• Added Geo bands selection</li> <li>• Improved network scan sequence and AT commands</li> <li>• Added preferred operator connection</li> <li>• Added network settings configuration capability for FMM1YX devices</li> <li>• Improved dual sim switching</li> <li>• Added FMM1YX support</li> <li>• Added FMC1YX support</li> <li>• Added FMU1YX support</li> <li>• Initial release</li> </ul>