

# FMC920 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 **FMC920**, **FMM920** devices firmware improvements, changes, new features implementations as well as current firmware release version.

<b>FIRMWARE VERSION</b>	<b>SUPPORTED HARDWARE</b>
<b>03.28.XX</b>	FMC920, FMM920
<b>03.29.XX</b>	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:

<b>FIRMWARE VERSION</b>	<b>HARDWARE</b>
<b>03.29.00.Rev.458</b>	FMC880, FMM880, FMC800, FMM800, FMM80A

<b>03.29.00.Rev.157</b>	FMB150, FMC150, FMM150, FMC250, FMM250
<b>03.27.10.Rev.482</b>	FMB930
<b>03.29.00.Rev.931</b>	FMB965
<b>03.29.00.Rev.554</b>	FMP100, FMB020
<b>03.29.00.Rev.601</b>	FMC234
<b>03.29.00.Rev.263</b>	FMB209

## 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

<b>FIRMWARE VERSION</b>	<b>RELEASE DATE</b>	<b>CHANGES</b>
<b>03.29.00.Rev.21</b> (recommended for FMB122, FMB125, FMM125, FMC125 (SLM320-LA, SLM320-E2, EC21-EC), FMC225, FMC920, FMM920)	2024.08.07	<ul style="list-style-type: none"> <li>• Optimized the startup process of the network modules to improve pass-rate during manufacturing testing.</li> <li>• Dual SIM switching enhancements to improve pass-rate during manufacturing testing.</li> <li>• Return real SIM slot for factory testing commands.</li> </ul>
<b>03.29.00.Rev.19</b> (recommended for FMC920)	2024.06.05	<ul style="list-style-type: none"> <li>• Fixed FOTA task execution while working in 2G Network mode for devices with Quectel EG915U modules.</li> </ul>

**03.29.00.Rev.18**  
(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

- Improved reconnection to new operator time if GPRS was unavailable with initial operator
  - Fixed pro-longed reconnection to new operator due to record tasks interrupting operator search
  - Fixed network session closing when current operator is added to blacklist
  - Improved module initialization time for devices with Quectel modems
  - Fixed Digital Output state restore after firmware update
  - RS232 interface stability improvements
  - GNSS status element state improvements
  - Time synchronization improvements
  - Manufacture testing improvements
-

**03.29.00.Rev.13**

(recommended for  
FMC130 with  
SLM320-LA,  
SLM320-E1,  
SLM320-E2,  
FMC230 with  
SLM320-LA,  
SLM320-E2,  
FMC920)

2023.11.24

- **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>03.28.02.Rev.197</b> (recommended for FMC920, FMM920)	2023.05.12	<ul style="list-style-type: none"><li>• AutoAPN logic improvements</li><li>• Records sending improvements for eSIM hardware versions</li><li>• Optimized network communication to ensure stable connection</li><li>• Improved system stability and fixed general bugs</li><li>• Manufacture testing improvements</li></ul>
<b>03.28.02.Rev.195</b> (recommended for FMC920)	2022.11.28	<ul style="list-style-type: none"><li>• Jamming detection support added for new Quectel EG915U FW (EU and LA versions)</li><li>• Additional security to ensure communication with Quectel module added</li></ul>
<b>03.28.02.Rev.87</b> (recommended for FMC920)	2022.07.28	<ul style="list-style-type: none"><li>• Fix for SIM pin enter</li></ul>
<b>03.28.02.Rev.85</b> (recommended for FMC920, FMM920)	2022.07.13	<ul style="list-style-type: none"><li>• Initial release</li></ul>