

M241/M251

Release Notes



Firmware Version:
Release Date:

V4.0.6.38
18.06.2018

This document contains important information about firmware delivery of M241/M251. Read the complete document before you use the product or products described herein.



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1. Product Overview

Current document describes the major improvements and firmware versions released for M241/M251 products.

2. Release History

The table below list all major releases for M241/M251 products.

Firmware version	Description
V4.0.5.11	Official firmware version for all M241/M251 controllers released in SoMachine V4.2
V4.0.4.12	Official firmware version for M251 controller (EtherNet/IP Scanner) released in SoMachine V4.1 SP2
V4.0.3.15	Official firmware version for others M241/M251 controllers released in SoMachine V4.1 SP2
V4.0.2.42	Official firmware version for all M241/M251 controllers released in SoMachine V4.1 SP1
V4.0.2.11	Official firmware version for all M241/M251 controllers released in SoMachine V4.1

3. Firmware evolution, v4.0.6.38

3.1. New features in version v4.0.6.38

This is a maintenance version and does not have new features.

3.2. Mitigated Anomalies in version V4.0.6.38

This firmware version is compatible with M241 and M251 controllers.

Anomaly	Corrective Description
FTP download is unsuccessful if the file size is greater than 256 kB	FTP download is functioning as defined
ERR LED Flashing – PLC does not boot	Improved timing settings for DDR

4. Legacy firmware evolution

4.1. Version V4.0.5.11

4.1.1. Mitigated Anomalies in version V4.0.5.11

This firmware version is compatible with all M241 and M251 controllers. The mitigated anomalies are listed in the table below.

Anomaly	Corrective Description
Nodename lost	
Error on ChangeIPAddress FB on TM251 Eth port2	
LXM28 cannot be enabled if TMC4AQ2 is used	TMC4AQ2 correction
IoDrvModbusSerial returns incorrect values	
SetRTCDrift adjustment too small	
LTON timer resets to 0 after 2^{32} μ s	
FTP communication not possible with active firewall	

4.2. Version V4.0.4.14

4.2.1. New features in version v4.0.4.14

New feature
Add EtherNet/IP Scanner on M251

4.2.2. Mitigated Anomalies in version V4.0.4.14

This firmware version is compatible with all M241 and M251 controllers. The mitigated anomalies are listed in the table below.

Anomaly	Corrective Description
M251 goes into exception stop due to IOscanner	
Datalogging in SD card not working on SoM V4.1 SP1 and SP2	
M241 TCP client closes connection when receiving WIN:0	
Download stops when recipes save automatically	
An application transferred from M258 can't download into M251	
Exception when Modbus TCP health bits are linked to variables	

4.3. Version V4.0.3.20

4.3.1. Mitigated Anomalies in version V4.0.3.20

This firmware version is compatible with all M241 and M251 controllers. The mitigated anomalies are listed in the table below.

Anomaly	Corrective Description
M251 goes into exception stop due to IOscanner	
Dataloging in SD card not working on SoM V4.1 SP1 and SP2	
M241 TCP client closes connection when receiving WIN:0	
Download stops when recipes save automatically	
An application transferred from M258 can't download into M251	
Exception when Modbus TCP health bits are linked to variables	

4.4. Version V4.0.2.52

4.4.1. Mitigated Anomalies in version V4.0.2.52

This firmware version is compatible with all M241 and M251 controllers. The mitigated anomalies are listed in the table below.

Anomaly	Corrective Description
After several downloads, values may be reset of the persistent variable in the %MW<1000 "retain variables" range.	
Under specific conditions, the M241 may lose the firmware after a power cycle	

4.5. Version V4.0.2.46

4.5.1. Mitigated Anomalies in version V4.0.2.46

This firmware version is compatible with all M241 and M251 controllers. The mitigated anomalies are listed in the table below.

Anomaly	Corrective Description
In DHCP mode the @ IP is inversed	
Actual persistent values not part of M241 clone	
USB connection weakness	

4.6. Version V4.0.2.12

4.6.1. Mitigated Anomalies in version V4.0.2.12

This firmware version is compatible with all M241 and M251 controllers. The mitigated anomalies are listed in the table below.

Anomaly	Corrective Description
IO bus Expander (Reference TM3XTRA)	
SysSocket or CAA_NetBaseServices libraries	