

Important information

These release notes contain important information about version 1.2.0 of the Tektronix MP5103 firmware.

Introduction

This document provides supplemental information regarding the behavior of the MP5103 firmware. This information is grouped into the following categories:

[Revision history](#)

Lists the date of the firmware release, the version of firmware, and the document version.

[Firmware version compatibility](#)

A cross-reference for compatible mainframe and module firmware versions.

[New features / enhancements](#)

Summary of each significant new feature and enhancement.

[Problem fixes](#)

Summary of each significant firmware bug fix.

[Installation instructions](#)

Detailed instructions describing how to install the firmware.

Revision history

This document is periodically updated and distributed with releases and service packs to provide the most up-to-date information. This revision history is included in the following table.

Date	Firmware version	Document number
7/10/2026	V1.2.0	077193103
4/21/2026	V1.1.0	077193102
1/21/2026	V1.0.3	077193101
10/15/2025	V1.0.1	077193100

Firmware version compatibility

MP5103	1.0.1	1.0.3	1.1.0	1.2.0
MPSU50-2ST	1.0.1 or older	1.0.1 or older	1.1.0 or older	1.2.0 or older
MSMU60-2	1.0.0	1.0.2 or older	1.1.0 or older	1.2.0 or older



VERSION 1.2.0

New features / enhancements

Issue number	TREB-12418, TREB-12325
Model affected	MP5103
Enhancement	Mainframe and module firmware update is now available through the web page interface. See the <i>MP5103 Mainframe Reference Manual</i> for details.
Issue number	TREB-14851
Model affected	MP5103
Enhancement	A mainframe and module firmware version compatibility table has been added to the release notes.
Issue number	TREB-14981, TREB-14862, TREB-13845, TREB-11212
Model affected	MP5103
Enhancement	Errors or messages with a severity of 20 or lower will not automatically display on the user interface. Displayed messages will automatically close after two minutes.

Problem fixes

Issue number	TREB-12104
Model affected	MP5103
Symptom	Service requests are not generated when using HiSLIP and the MAV bit as a stimulus.
Resolution	This issue has been resolved.
Issue number	TREB-14131
Model affected	MP5103
Symptom	The mainframe is incorrectly placed in local mode after login.
Resolution	This issue has been resolved.
Issue number	TREB-14267, TREB-14146, TREB-14124
Model affected	MP5103
Symptom	Disabling HiSLIP, telnet, and HTTPS while a connection is active does not correctly terminate the active connection.
Resolution	This issue has been resolved.
Issue number	TREB-15056
Model affected	MP5103
Symptom	The MAC address may temporarily change after rebooting the mainframe.
Resolution	This issue has been resolved.

Issue number	TREB-14777
Model affected	MP5103
Symptom	Setting the <code>slot.autorestart</code> attribute to <code>localnode.ENABLE</code> on a module causes the mainframe to start modules when inserted even when <code>slot.autostart</code> is set to <code>localnode.DISABLE</code> .
Resolution	This issue has been resolved.
Issue number	TREB-14420, TREB-12875
Model affected	MP5103
Symptom	A fatal error may be generated on the mainframe in some cases when a module is stopped.
Resolution	This issue has been resolved.
Issue number	TREB-14394
Model affected	MP5103
Symptom	Instead of dismissing the screen saver, touching the front-panel display while the screen saver is active incorrectly registers the touch as a screen item selection.
Resolution	This issue has been resolved.
Issue number	TREB-14379, TREB-14378, TREB-14377, TREB-14373, TREB-14372, TREB-14371, TREB-14370
Model affected	MP5103
Symptom	The web page interface does not operate correctly when using MacOS Safari browsers. Some fields may be incorrectly-linked between channels and also have incorrect labels.
Resolution	This issue has been resolved.

VERSION 1.1.0

New features / enhancements

Issue number	TREB-10380
Model affected	MP5103
Enhancement	Modules can be started or stopped from the front panel interface and web page. See the <i>MP5103 Modular Precision Test System User Manual</i> and <i>MP5103 Mainframe Reference Manual</i> for details.
Issue number	TREB-11761
Model affected	MP5103
Enhancement	The mainframe TSP-Link node number can be set and the TSP-Link network can be initialized from the front panel interface and web page. See the <i>MP5103 Modular Precision Test System User Manual</i> and <i>MP5000 Series Programmer Manual</i> for details.

Issue number	TREB-13247, TREB-13355, TREB-13356
Model affected	MP5103
Enhancement	Two new command queries were added to allow the user to determine whether a password is set (login?) and whether the user is allowed to control the instrument through a command interface (remote?). See the <i>MP5000 Series Programmer Manual</i> for details.

Problem fixes

Issue number	TREB-11685
Model affected	MP5103
Symptom	Sending <code>tsplink.initialize()</code> over a TSP-Link network more than seven times can cause overlapped operation errors on subordinate nodes that may affect the master node.
Resolution	This issue has been resolved.
Issue number	TREB-14122
Model affected	MP5103
Symptom	When a user connects to the instrument over an ethernet connection and the DNS cannot issue a hostname, a hostname error is displayed.
Resolution	These issues have been resolved.
Issue number	TREB-12251, TREB-12657, TREB-12940, TREB-13188, TREB-14129
Model affected	MP5103
Symptom	Multiple issues affecting the stability and reliability of HiSLIP connections.
Resolution	These issues have been resolved.
Issue number	TREB-12726, TREB-12727
Model affected	MP5103
Symptom	When upgrading the mainframe firmware using TSP Toolkit over a HiSLIP connection, firmware corruption and connection errors can occur.
Resolution	These issues have been resolved.
Issue number	TREB-12915, TREB-14071, TREB-14328
Model affected	MP5103
Symptom	Running some trigger models more than 8000 times may cause the mainframe or a module to become unresponsive, requiring a reboot.
Resolution	These issues have been resolved.
Issue number	TREB-13950
Model affected	MP5103
Symptom	When DHCP is enabled, the LAN LED does not flash when the web interface LXI identification switch is turned on.
Resolution	This issue has been resolved.

VERSION 1.0.3

Problem fixes

Issue number	TREB-13153
Model affected	MP5103
Symptom	The mainframe may report a hardware failure of the line frequency detector when used in environments with power mains electrical noise.
Resolution	The error now reported is that the mainframe is unable to detect the line frequency. The <code>localnode.linefreq</code> attribute is now writeable and can be used to set the line frequency. Automatic frequency detection is disabled when the line frequency is selected manually. Frequency detection can also be disabled by setting the new <code>localnode.autolinefreq</code> attribute to <code>localnode.DISABLE</code>. Both attributes are saved in nonvolatile storage. For example, to disable automatic line frequency detection and set the line frequency to 50 Hz, send <pre>localnode.autolinefreq = localnode.DISABLE localnode.linefreq = 50</pre>

VERSION 1.0.1

New features / enhancements

Issue number	TREB-9095
Model affected	MP5103
Enhancement	The front panel display turns off after 10 minutes of inactivity to prevent screen burn-in. Touch the display or turn the navigation wheel to return the display to normal brightness.
Issue number	TREB-12075
Model affected	MP5103
Enhancement	The front panel display now supports using the hyphen character when setting the Hostname.

Problem fixes

Issue number	TREB-8104
Model affected	MP5103
Symptom	The timeout attribute is not being set correctly for USBTMC.
Resolution	This issue has been corrected.

Issue number	TREB-11423
Model affected	MP5103
Symptom	The HiSLIP communication protocol performs slower than raw sockets for high transaction counts.
Resolution	This issue has been corrected.
Issue number	TREB-11633
Model affected	MP5103
Symptom	The mainframe fails to connect to TSP Toolkit through a HiSLIP connection.
Resolution	This issue has been corrected.
Issue number	TREB-11950
Model affected	MP5103
Symptom	The mainframe becomes unresponsive when a node in a TSP-Link network is disconnected. Error message Node <code>n</code> inaccessible is displayed and communication stops.
Resolution	This issue has been corrected.
Issue number	TREB-11987
Model affected	MP5103
Symptom	The TSP-Link network may fail to initialize when <code>tsplink.reset()</code> is sent.
Resolution	This issue has been corrected.
Issue number	TREB-12273
Model affected	MP5103
Symptom	Sending the <code>tsplink.reset()</code> command may cause the mainframe to become unresponsive. The issue is more likely to occur with modules installed in all slots.
Resolution	This issue has been corrected.
Issue number	TREB-12296
Model affected	MP5103
Symptom	The mainframe may stop functioning after receiving invalid TSP command attributes for <code>digio.trigger[N].state</code> or <code>tsplink.trigger[N].state</code> .
Resolution	This issue has been corrected.
Issue number	TREB-12641
Model affected	MP5103
Symptom	The mainframe may crash during boot due to an occasional race condition.
Resolution	This issue has been corrected.
Issue number	TREB-12681
Model affected	MP5103
Symptom	If <code>tsplink.reset()</code> encounters multiple errors when sent, subsequent calls will not log any additional errors.
Resolution	This issue has been corrected.

Known problems

Issue number	TREB-11944
Model affected	MP5103
Symptom	Modules may fail to initialize during mainframe boot. Status LEDs may flash amber.
Workaround	Reboot the mainframe.

Installation instructions (front panel)

Use a USB flash drive to update the firmware from the front panel for the mainframe and modules. The latest firmware is available from tek.com.

Make sure that the firmware is loaded onto your USB flash drive, then insert it into the USB port on the front of the mainframe.

The update process is the same for the mainframe as it is for the modules. The following example demonstrates the firmware update for the mainframe.

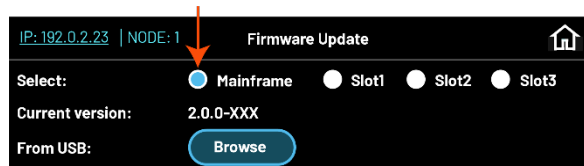
CAUTION

Do not remove the USB drive, turn off the instrument power, or otherwise interrupt the firmware update process. Your instrument may become unresponsive and require factory service.

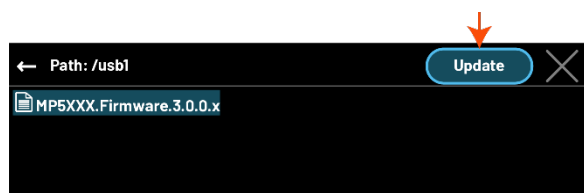
The following procedure updates a mainframe with firmware V1.0.1 or newer installed. If you need to update from an older version, replace the first two steps in the following procedure by selecting **General info** from the home screen and then selecting the firmware download icon.

To update the mainframe firmware (V1.0.1 and newer):

1. Select **Settings** from the mainframe home screen.
2. Select **Firmware Update**.
3. Select **Mainframe**.



4. Select **Browse** to locate the new firmware file on your USB flash drive, then select it.
5. Select **Update**. The firmware may take several minutes to load. Your instrument returns to the Home screen after the update.



6. To confirm that the update was successful, select the information icon from the Home screen, then scroll to the Mainframe section to verify the firmware version.

Mainframe	Manufacturer	TEKTRONIX
	Model Number	MP5XXX
	Serial Number	MP-XXX-000
	Firmware Version	MP5XXX.Firmware.3.0.0

Installation instructions (remote)

To update the firmware using TSP Toolkit or another method, see the *MP5103 Mainframe Reference Manual*, available from tek.com.