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# Silicon Sculptor v5.22.7 Windows Release Notes

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Silicon Sculptor Windows (SculptW) v5.22.7 is a new general release of the Silicon Sculptor software, supporting Silicon Sculptor 3 programmers.

## Contents

- [New Device Support](#)
- [Software Enhancements](#)
- [New Socket Module Support](#)
- [Should I Upgrade?](#)
- [Supported Platforms](#)
- [Minimum System Requirements](#)
- [New Features and Enhancements](#)
- [Resolved Issues](#)
- [Known Issues and Workarounds](#)
- [Download Software](#)

## New Device Support

- M2S005/S-VF400
- M2S010/T/S/TS-VF400
- M2S025/T/S/TS-VF400
- M2S050/T/S/TS-VF400
- M2GL005/S-VF400
- M2GL010/T/S/TS-VF400
- M2GL025/T/S/TS-VF400
- M2S090/T/S/TS-FG484
- M2GL090/T/S/TS-FG484
- M2S090/T/S/TS-FG676
- M2S090/T/S/TS-FCS325
- RT3PE600L-LG484
- RT3PE600L-CQ256

## Software Enhancements

- Add SPI programming support for security components of M2S and M2GL devices.
- SPI and JTAG programming on M2S and M2GL devices.
  - programming is supported using a STAPL file
  - SPI programming is supported using a DAT file
- Improve 42MX programming to identify partially programmed devices.
- Address 42MX ambiguity antifuse condition which enhances programming yield.
- Modify verification procedure not to allow any weak bits to pass while programming APA devices with BIT file.

## Bug Fixes

- Fix an issue with Sculptor STAPL player executing optional procedures when disabled.
- Fix an issue with the summary report displaying action performed.
- Fix an issue displaying procedure names during programming 40MX devices.

## New Socket Module Support

- SM2S-400VF-MSSOC
- SM2S-676FG-MSSOC
- SM2S-325FCSR-MSSOC

This release features everything in prior general and special releases, as well as new content. For a complete list of device support in SculptW v5.22.7, refer to the [Current Device Link](#). Product-specific Silicon Sculptor adapter modules are available. For a complete list, refer to the [Silicon Sculptor Adapter Modules](#) page.

## Should I Upgrade?

**All customers should upgrade to this release immediately.**

In general, Microsemi® always recommends upgrading to the latest general release version of the Silicon Sculptor software. Upgrading to a special release should only be done if notified by email.

### **Equivalent multi-site programmer software from BPM Microsystems**

Silicon Sculptor v5.22.7 is equivalent in functionality to BPWin v5.43.0 Beta of October 17th or later. The first regularly scheduled BPWin release to support all of the features (device support, enhancements, and bug fixes) of this Silicon Sculptor v5.22.7 release is/will be BPWin v5.43.0.

## Supported Platforms

- Windows 7 Professional
- Windows Vista® Business
- Windows XP® with SP3 (cumulative)

Silicon Sculptor I and Silicon Sculptor 6X can no longer be used with this version of the software. These obsolete programmers are no longer supported.

### Notes:

- The SculptW software may operate on other Windows 7 editions. However, Microsemi only guarantees operation on the Professional edition, which is used during software testing.
- The SculptW software may operate on other Vista editions. However, Microsemi only guarantees operation on the Business edition, which is used during software testing.
- Silicon Sculptor II is not supported in Windows Vista and Windows 7 platforms (both 32 bit and 64 bit)
- Administration rights to the local workstation are required both for installation and for at least one launch of SculptW after installation

## Minimum System Requirements

- Pentium III or higher processor
- 1 GMB of available memory
- USB 2.0 port
- 50 MB of available hard disk space
- SVGA 256-color and 800x600 or higher resolution
- For Windows operating systems, you must have Admin rights to the local workstation for installation purposes.

## New Features and Enhancements

- **SAR 56154:** Add SPI programming support for security components of M2S and M2GL devices.
- **SAR 44253:** Improve 42MX programming to identify partially programmed devices.
- **SAR 54097:** Address 42MX ambiguity antifuse condition which enhances programming yield.
- **SAR 53266:** Modify verification procedure not to allow any weak bits to pass while programming APA devices with BIT file.

## Resolved Issues

- **SAR 56097:** Fix an issue with Sculptor STAPL player executing optional procedures when disabled.
- **SAR 55938:** Fix an issue with the summary report displaying action performed.
- **SAR 42913:** Fix an issue displaying procedure names during programming 40MX devices.

## Known Issues and Workarounds

- **SAR 37022:** Progress bar stops moving for RTAXS/AX. No action is required. Programming continues and returns a message when complete.
- **SAR 35484:** If AX/RTAX device fails first operation with prebroadcast, it is not clear that the system is expecting another device to be inserted.  
Workaround: Cancel programming or insert another device.
- **SAR 9255:** For the following devices, STAPL files generated from Libero® Integrated Design Environment (IDE) v8.4 will generate a failure.
  - AFS600
  - AFS1500
  - M7AFS600
  - M1AFS600
  - M1AFS1500
  - P1AFS600
  - P1AFS1500

**WORKAROUND:** Use a STAPL file generated with Libero IDE v8.4 SP2 or a later version to program the FPGA. If you still need to use a STAPL file from Libero IDE v8.4 to program your FPGA using Silicon Sculptor, contact [soc\\_tech@microsemi.com](mailto:soc_tech@microsemi.com) for more information.

## Download Software

- [Silicon Sculptor v5.22.7](#) (27.6 MB)



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