



MICROCHIP

V1.0 MSS Configurator (Pre production) Release Notes

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1. Introduction

To provide a seamless experience for both embedded software developers targeting the MSS and the hardware engineers developing a hardware/software solution using the MSS and the FPGA array fabric, the MSS configurator application provides a common tool to configure the PolarFire™ SoC MSS platform that can be used by both the software engineer and/or the FPGA hardware engineer.

The MSS configurator application can be installed as a stand-alone application or as part of the Libero SoC design tool suite, and provides the following features:

- Configuration of the MSS clocks
- Configuration of the MSS interfaces to the FPGA fabric
- Selection and assignment of the MSS peripherals to the MSS dedicated I/Os and/or the FPGA fabric dedicated peripheral interfaces
- Configuration of the MSS Bank voltages and I/O standards and attributes
- Configuration of the MSS DDR memories (DDR3/L, DDR4, LPDDR3, and LPDDR4)
- Configuration of the MSS debug features

For details about the high-level MSS architecture and its features, refer to the [PolarFire™ SoC product overview](#).

For details about this tool, refer to the [PolarFire SOC Standalone MSS Configuration User Guide](#).

Download MSS Configurator v1.0 software.

The following are available for download:

- [Stand-alone MSS configurator installer \(Linux\)](#)
- [Stand-alone MSS configurator installer \(Windows\)](#)

Note: Windows installations require administrative privileges.

2. System Requirements

PolarFire SoC MSS Configurator has the following system requirements.

2.1 Supported 64-bit Operating Systems

- Windows 7 or Windows 10 OS
- RHEL 6.6-6.11 and RHEL 7.2-7.6
- CentOS 6.6-6.11 and CentOS 7.2-7.6
- Ubuntu 18.04
- OpenSUSE Leap 42.3 (SLES 12.3 equivalent)

2.2 Random-Access Memory (RAM) Requirements

Minimum of 4 GB RAM

3. References

- Configuration of the MSS clocks.
 - Refer to the UG0913: PolarFire SoC FPGA Clocking Resources User Guide for detailed information about the MSS clocking features.
- Configuration of the MSS interfaces to the FPGA fabric.
 - Refer to the UG0880: PolarFire SoC FPGA Microprocessor Subsystem (MSS) User Guide for detailed information about the MSS Fabric Interface Controller (FIC) features.
- Selection and assignment of the MSS peripherals to the MSS dedicated I/Os and/or the FPGA fabric dedicated peripheral interfaces.
 - Refer to the UG0886: PolarFire SoC FPGA Peripherals User Guide for detailed information about the MSS Peripherals features.
- Configuration of the MSS Bank voltages and I/O standards and attributes.
 - Refer to the UG0916: PolarFire SoC FPGA IO User Guide for detailed information about the MSS Banks and I/Os features.
- Configuration of the MSS DDR memories (DDR3/L, DDR4, LPDDR3, and LPDDR4).
 - Refer to the UG0906: PolarFire SoC FPGA DDR Memory Controller User Guide for detailed information about the MSS DDR4, DDR3, LPDDR3, and LPDDR4 features.
- Configuration of the MSS debug features.
 - Refer to the UG0888: PolarFire SoC FPGA Trace and Debug User Guide for detailed information about the MSS debug features.

4. Microchip FPGA Technical Support

Microchip FPGA Products Group backs its products with various support services, including Customer Service, Customer Technical Support Center, a website, and worldwide sales offices. This section provides information about contacting Microchip FPGA Products Group and using these support services.

4.1 Customer Service

Contact Customer Service for non-technical product support, such as product pricing, product upgrades, update information, order status, and authorization.

- From North America, call **800.262.1060**
- From the rest of the world, call **650.318.4460**
- Fax, from anywhere in the world, **650.318.8044**

4.2 Customer Technical Support

Microchip FPGA Products Group staffs its Customer Technical Support Center with highly skilled engineers who can help answer your hardware, software, and design questions about Microchip FPGA Products. The Customer Technical Support Center spends a great deal of time creating application notes, answers to common design cycle questions, documentation of known issues, and various FAQs. So, before you contact us, please visit our online resources. It is very likely we have already answered your questions.

You can communicate your technical questions through our Web portal and receive answers back by email, fax, or phone. Also, if you have design problems, you can upload your design files to receive assistance. We constantly monitor the cases created from the web portal throughout the day. When sending your request to us, please be sure to include your full name, company name, and your contact information for efficient processing of your request.

Technical support can be reached at soc.microsemi.com/Portal/Default.aspx.

For technical support on RH and RT FPGAs that are regulated by International Traffic in Arms Regulations (ITAR), log in at soc.microsemi.com/Portal/Default.aspx, go to the **My Cases** tab, and select **Yes** in the ITAR drop-down list when creating a new case. For a complete list of ITAR-regulated Microchip FPGAs, visit the ITAR web page.

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4.3 Website

You can browse a variety of technical and non-technical information on the Microchip FPGA Products Group [home page](#), at www.microsemi.com/soc.

4.4 Outside the U.S.

Customers needing assistance outside the US time zones can either contact technical support at (<https://soc.microsemi.com/Portal/Default.aspx>) or contact a local sales office.

Visit [About Us](#) for [sales office listings](#) and [corporate contacts](#).

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- Distributor or Representative
- Local Sales Office
- Embedded Solutions Engineer (ESE)
- Technical Support

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- Microchip is willing to work with any customer who is concerned about the integrity of its code.
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