Libero® SoC v11.8 SP4

Release Notes

Introduction

The Libero® system on chip (SoC) v11.8 SP4 is a service pack release for the Libero SoC v11.8 to support the development of safety-critical applications for the IGLOO®2 and SmartFusion®2 families.

Before starting new designs with PolarFire® SoC, PolarFire, IGLOO2, SmartFusion2, and RTG4™ family devices, download and install the latest version of the Libero SoC Design Suite.

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1. Libero SoC Software Release Notes

This document contains important information about the Libero system on chip (SoC) v11.8 SP4 service pack release.

1.1 Customer Notification (CN) and Customer Advisory Notification (CAN) Support

Libero SoC v11.8 SP4 includes changes that address certain important issues.

For more information about these issues, refer to microsemi.com/company/quality/product-notifications/cn/asic-soc-fpga.

1.1.1 Timing Paths May be Missing from Static Timing Analysis (STA) for SmartFusion2 and IGLOO2 Families

Ongoing software quality testing on Libero SoC has found minor Static Timing Analysis (STA) coverage issues, preventing complete analysis of the path through combinational cells for specific scenarios for the SmartFusion2 and IGLOO2 product families. Libero SoC v11.8 SP4 addresses these issues, allowing SmartTime to produce a complete static timing analysis for the SmartFusion2 and IGLOO2 families.

For more information, refer to CN20022.

2.   Known Issues and Limitations

Note: Unless stated otherwise, known issues from Libero SoC v11.8, v11.8 SP1, v11.8 SP2, and v11.8 SP3 also apply to Libero SoC v11.8 SP4. Review the Libero SoC v11.8 Release Notes, Libero SoC v11.8 SP1 Release Notes, Libero SoC v11.8 SP2 Release Notes, and v11.8 SP3 Release Notes for Known Issues in Libero SoC v11.8, v11.8 SP1, v11.8 SP2, and v11.8 SP3.

3. System Requirements

For information about operating system support and minimum system requirements, see the System Requirements web page.

For Linux OS setup instructions, see How to Set Up Linux Environment for Libero User Guide.

3.1 Operating System Support

Supported

- Windows 7, Windows 8.1, and Windows 10
- RHEL 5 (see note), RHEL 6, RHEL 7, CentOS 5 (see note), CentOS 6, and CentOS 7
- SuSE 11 SP4 (Libero only. FlashPro Express, SmartDebug, and Job Manager are not supported.)

Note: RHEL 5 and CentOS 5 do not support programming using FlashPro5.

Not Supported

- 32-bit operating systems
- Windows XP
- Support for the following operating systems will cease with the next major Libero SoC release:
  - RedHat Enterprise Linux 5.x through 6.5
  - CentOS 5.x through 6.5

4.   Download Libero SoC Software

Click the following links to download Libero SoC v11.8 SP4 on Windows and Linux operating systems. Installation requires administrator privileges to the system.

- Windows
- Linux
- MegaVault

Note: There are no new cores for the Libero SoC v11.8 SP4 release, and all Libero SoC v11.8 SP1 cores are compatible with v11.8 SP4. Use the v11.8 SP1 MegaVault link above for this release.

Libero SoC v11.8 SP4 is a full release and can be installed on its own.

After successful installation, clicking **Help-> About Libero** will show Version: 11.8.4.8.

4.1   Downloading SoftConsole 3.4/4.0/5.1

Libero SoC v11.8 SP4 is compatible with SoftConsole v3.4 SP1, SoftConsole v4.0, and SoftConsole v5.x.

- SoftConsole Download

5. Revision History

Revision	Date	Description
A	04/2021	Initial Revision

6. 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.

6.1 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**

6.2 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/DPortal.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.

You can track technical cases online by going to My Cases.

6.3 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.

6.4 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.

The Microchip Website

Microchip provides online support via our website at www.microchip.com/. This website is used to make files and information easily available to customers. Some of the content available includes:

- **Product Support** – Data sheets and errata, application notes and sample programs, design resources, user's guides and hardware support documents, latest software releases and archived software
- **General Technical Support** – Frequently Asked Questions (FAQs), technical support requests, online discussion groups, Microchip design partner program member listing
- **Business of Microchip** – Product selector and ordering guides, latest Microchip press releases, listing of seminars and events, listings of Microchip sales offices, distributors and factory representatives

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

Customers should contact their distributor, representative or ESE for support. Local sales offices are also available to help customers. A listing of sales offices and locations is included in this document.

Technical support is available through the website at: www.microchip.com/support

Product Identification System

To order or obtain information, e.g., on pricing or delivery, refer to the factory or the listed sales office.

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- Microchip products meet the specifications contained in their particular Microchip Data Sheet.
- Microchip believes that its family of products is secure when used in the intended manner and under normal conditions.
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- Microchip is willing to work with any customer who is concerned about the integrity of its code.
- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of its code. Code protection does not mean that we are guaranteeing the product is "unbreakable." Code protection is constantly evolving. We at Microchip are committed to continuously improving the code protection features of our products. Attempts to break Microchip's code protection feature may be a violation of the Digital Millennium Copyright Act. If such acts allow unauthorized access to your software or other copyrighted work, you may have a right to sue for relief under that Act.

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