



Intel[®] SoC FPGA Embedded Development Suite (SoC EDS) Professional Version 19.3 Release Notes

Updated for Intel[®] Quartus[®] Prime Design Suite: **19.3**



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Intel® SoC FPGA Embedded Development Suite (SoC EDS) Professional Version 19.3 Release Notes

This document provides up-to-date information about the SoC EDS Professional Edition version 19.3 release for the of the Intel® SoC FPGA Embedded Development Suite (SoC EDS) software.

The SoC EDS Professional Edition targets the Intel Arria® 10, Intel Stratix® 10, and Intel Agilex™ devices and must be used only with FPGA projects created in Intel Quartus® Prime Pro Edition.

For more information, refer to the *Intel SoC FPGA Embedded Development Suite User Guide*.

For earlier versions of these release notes, refer to the *Intel SoC FPGA Embedded Development Suite Archives* section.

Related Information

- [Intel SoC FPGA Embedded Development Suite Archives](#) on page 4
Provides a list of user guides for previous versions of the SoC FPGA EDS IP core.
- [Intel SoC FPGA Embedded Development Suite User Guide](#)

What's New

- Intel Agilex support:
 - Added the Intel Agilex Golden Hardware Reference Designs for SoC FPGA Development Kits (GHRD).
 - U-Boot, UEFI, and Arm* Trusted Firmware (ATF) are no longer part of Intel SoC FPGA EDS, but are available on [GitHub](#).

For information about how to build the bootloaders, refer to [RocketBoards.org](#).

Tool Versions

Table 1. Pro Edition Tool Version Updates

Tools	Version
Arm Development Studio 5* (DS-5*) Intel SoC FPGA Edition	5.29.2
Mentor Graphics* Baremetal GCC Compiler	6.2.0 (Sourcery CodeBench Lite 2019.05-16) which includes GCC version 8.3.1 20190416
Linux* Compiler	4.8.3 (Linaro* GCC 7.2-2017.11)
Arm Compiler 5	5.06
Arm Compiler 6	6.10.1

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*Other names and brands may be claimed as the property of others.



Resolved Issues

- arm-altera-eabi-gdb removed to eliminate security vulnerabilities
- cygwin_setup folder included on Windows* to facilitate your manual Cygwin installation

Known Issues

Table 2. Arm DS-5 Intel SoC FPGA Edition version 5.29.2 does not support Intel Agilex

Description:	Arm DS-5 Intel SoC FPGA Edition version 5.29.3 currently does not support Intel Agilex.
Workaround:	After installing Arm DS-5 Intel SoC FPGA Edition version 5.29.2, you must manually modify the Arm DS-5 Intel SoC FPGA Edition files. Go to the ARMD55AgilexSupport web page on Rocketboards.org to obtain these files along with instructions on how to add them to Arm DS-5 Intel SoC FPGA Edition.

Intel SoC FPGA Embedded Development Suite Archives

Intel Quartus Prime Version	Release Notes (PDF)
19.1	Intel SoC FPGA Embedded Development Suite Release Notes (19.1) These release notes cover Intel Quartus Prime versions 18.1 through 19.1.
18.1	Intel SoC FPGA Embedded Development Suite Release Notes (18.1) These release notes cover Intel Quartus Prime versions 18.0 through 18.1.
18.0	Intel SoC FPGA Embedded Development Suite Release Notes (18.0) These release notes cover Intel Quartus Prime versions 17.0 through 18.0.

Revision History for Intel SoC FPGA Embedded Development Suite (SoC EDS) Release Notes

Document Version	Changes
2019.09.30	Added new features and bug fixes for the Intel Quartus Prime 19.3 software release of the SoC EDS Professional Edition release.
2019.04.10	<ul style="list-style-type: none"> • Added information about installing Cygwin for Microsoft* Windows users. • Created the "Intel SoC FPGA Embedded Development Suite Archives" section to contain all of the previous versions of these release notes. • Removed the Intel Quartus Prime 18.0 version from these release notes and added them to the "Intel SoC FPGA Embedded Development Suite Archives" section.
2018.09.24	<ul style="list-style-type: none"> • Updated the Arm Development Studio 5 (DS-5) Intel SoC FPGA Edition version. • Added "Enhancements" and "Issues Resolved" for these areas in : <ul style="list-style-type: none"> – Golden Hardware Reference Designs for SoC FPGA Development Kits (GHRD) – Arm DS-5 Intel SoC FPGA Edition – Bootloader Generator and Bootloader
2018.05.07	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 18.0 release of the SoC FPGA EDS software - Standard and Pro editions.
<i>continued...</i>	



Document Version	Changes
2017.12.05	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 17.1 release of the SoC FPGA EDS software - Standard and Pro editions.
2017.05.08	Release Notes divided into a Pro and Standard section.
2016.11.07	Added clarity to the early IO release feature.
2016.05.09	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 16.0 release updates
2016.01.22	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 15.1.1 release updates
2015.11.02	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 15.1 release updates
2015.06.05	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 15.0.1 release updates
2015.05.01	Added new features, bug fixes, enhancements, and known issues during the Intel Quartus Prime 15.0 release updates