



Release Notes for ADuCM302x Device Family Pack 2.0.0

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1 Introduction

This document describes the changes for the ADuCM302x 2.0.0 Device Family Pack (DFP). This DFP is supported in both Keil uVision and CrossCore Embedded Studio.

2 Required Software

2.1 Keil uVision

To use this DFP with Keil uVision , you must first obtain and install:

- Keil uVision MDK v5.23 or later with ARM Compiler version 1.1.0 or later.
- Segger J-Link LITE v5.10p or later.

Install the Keil software first, then install the Segger J-Link LITE software.

2.2 CrossCore Embedded Studio

To use this DFP with CrossCore Embedded Studio (CCES), you must first obtain and install:

- CrossCore Embedded Studio 2.6.0 or later.

3 Release Testing

3.1 Keil uVision

The BSP has been tested with

EZ-KIT	Emulator
ADuCM3029 EZ-KIT version 1.2 BOM Rev 1.6	J-Link Lite

3.2 CrossCore Embedded Studio

The DFP has been tested with

EZ-KIT	Emulator
ADuCM3029 EZ-KIT version 1.2 BOM Rev 1.6	ICE-1000
	ICE-2000

4 License Checking

Use of the DFP software is subject to the Software License Agreement presented during installation.

5 Differences between version 2.0.0 and prior versions

Although the underlying driver model is largely the same, version 2.0.0 introduces a smaller and faster driver model that targets IoT-based applications when compared to the 1.0.x version of the drivers. The version 1.x.x drivers are general purpose drivers which allow users to leverage every aspect of the ADuCM302x's hardware whereas the 2.0.x version of the drivers are designed to leverage the features of the hardware most commonly used in IoT-based applications.

The version 2.0.0 APIs are, therefore, different from the 1.0.0 APIs. If you were previously using the 1.0.x drivers please reference the following documents to help you decide whether or not to port to the 2.0.x drivers. All of the documents are in the "Documents" directory of the installation

- ADuCM302x_DFP_Device_Drivers_UsersGuide.pdf
Outlines the device driver model
- ADuCM302x_Ver1.X.X_Ver2_X.X_Software_Differences.pdf
Detailed summary of the differences between 2.0.x and 1.0.x.
This document also includes information on porting between the two versions.

6 Release Content

This release contains the following sets of components:

- Source files for the ADuCM302x device family drivers. These components are authored by Analog Devices, for use on the ADuCM302x processor.
- Toolchain support. These components are authored by Analog Devices, and are installed into the toolchain to configure it to recognize the ADuCM302x processor family.
- Additional utilities. These components are authored by Analog Devices, and assist in the generation of applications for the ADuCM302x processor family.
- Documentation.

6.1 Source files for device family drivers

ADuCM302x.h	Device descriptions and macro files
System	Source and include files
Startup	Source and include files

Various peripheral device driver sources and include files in “Source” and “Include” directories.

6.2 Location

The DFP will be installed into the CMSIS pack directory for the targeted development environment:

Keil	<keil_root>\ARM\PACK\AnalogDevices\ADuCM302x_DFP\2.0.0
CCES	<cces_root>\ARM\PACK\AnalogDevices\ADuCM302x_DFP\2.0.0

with

Symbol	Meaning	Example Value
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Symbol	Meaning	Example Value
<keil_root>	Keil installation path	C:\Keil_v5
<cces_root>	CCES installation path	C:\Analog Devices\CrossCore Embedded Studio 2.6.0

6.3 Device Driver Thread Safety

All Device Drivers are **not** thread-safe. They are re-entrant but not thread-safe. If an RTOS is present, then drivers will use the RTOS semaphores for implementing the blocking calls.

6.4 Contacting Technical Support

You can reach Analog Devices software and tools technical support in the following ways:

- Post your questions in the [software and development tools support community](#) at [EngineerZone[®]](#).
- E-mail your questions about processors and processor applications to processor.support@analog.com.
- For Greater China, Processors and DSP applications and processor questions can be sent to: processor.china@analog.com.
- Submit your questions to technical support directly via <http://www.analog.com/support>.
- Contact your [Analog Devices sales office](#) or authorized distributor.

6.5 Examples

The DFP does not include any examples.

6.6 Known Issues

For the latest anomalies please consult our [Software and Tools Anomalies Search](#) page.