

ADuCM302x Device Family Pack Getting Started Guide for Keil

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Welcome to release 3.1.0 of the Analog Devices, Inc. (ADI) ADuCM302x Device Family Pack (DFP).

The Keil uVision MDK product is required to use this release. This DFP is validated with Keil uVision V5.23. Please purchase and install the Keil uVision MDK product before attempting to install this DFP.

This release also includes example application(s) that work with the ADuCM3029 development board, “ADuCM3029 EZ-KIT”.

Please review both the *ADuCM302x_DFP_3.1.0_Release_Notes.pdf* (located in the same place as this *Getting Started Guide*) and the *ADuCM302x_DFP_Users_Guide_Keil.pdf* for the most recent release status, software and hardware requirements and device driver configuration details.

The ADuCM302x DFP is developed and tested using Keil uVision V5.23. Please visit <http://www.keil.com> for more details.

1 ADuCM302x DFP Directory Structure

Keil toolchain support files are placed with the Keil installation folder (e.g. **C:\Keil_v5\ARM\Pack\AnalogDevices\ADuCM302x_DFP**). This also includes files for flash loading, debugging, etc.

The ADuCM302x DFP (startup code, device drivers, libraries, examples, tools, documentation, etc.) are placed at **Keil_v5\ARM\Pack\AnalogDevices\ADuCM302x_DFP*x.y.z***.

The following list details the content of each DFP directory. <ADuCM302x_root> refers to the directory **C:\Keil_v5\ARM\Pack\AnalogDevices\ADuCM302x_DFP\3.1.0** which contains the content of the ADuCM302x CMSIS-Pack distribution.

1.1 <ADuCM302x_root>/Documents

This directory contains complete HTML documentation for all the ADuCM302x Device Drivers and API, as well as the device driver *Release Notes*, *Getting Started Guide* and *Software User's Guide*.

1.2 <ADuCM302x_root>/Flash

This directory contains the flash programmer algorithm.

1.3 <ADuCM302x_root>/Include

This directory contains the ADuCM302x Device Driver include files and default driver configuration files.

1.4 <ADuCM302x_root>/License

This directory contains the software license agreement.

1.5 <ADuCM302x_root>/Source

This directory contains the ADuCM302x CMSIS startup and system source files, as well as the ADuCM302x device driver source files.

1.6 <ADuCM302x_root>/SVD

This directory contains the ADuCM302x CMSIS System View Description (SVD) file.

1.7 <ADuCM302x_root>/tools

This directory contains the ADuCM302x tool extensions, such as the pin multiplexing configuration utility and a utility which provides the optimum values that need to be programmed into the UART controller register for a given baud rate.

2 Documentation

The following documentation is provided for this release in the main product documentation directory:

- ADuCM302x_DFP_3.1.0_Release_Notes.pdf
- ADuCM302x_DFP_Device_Drivers_UsersGuide.pdf
- ADuCM302x_DFP_Getting_Started_Guide_Keil.pdf (this document)
- ADuCM302x_DFP_Users_Guide_Keil.pdf

The *ADuCM302x Device Drivers API Reference Manual* is published in hyperlinked HTML format under the `html` directory.

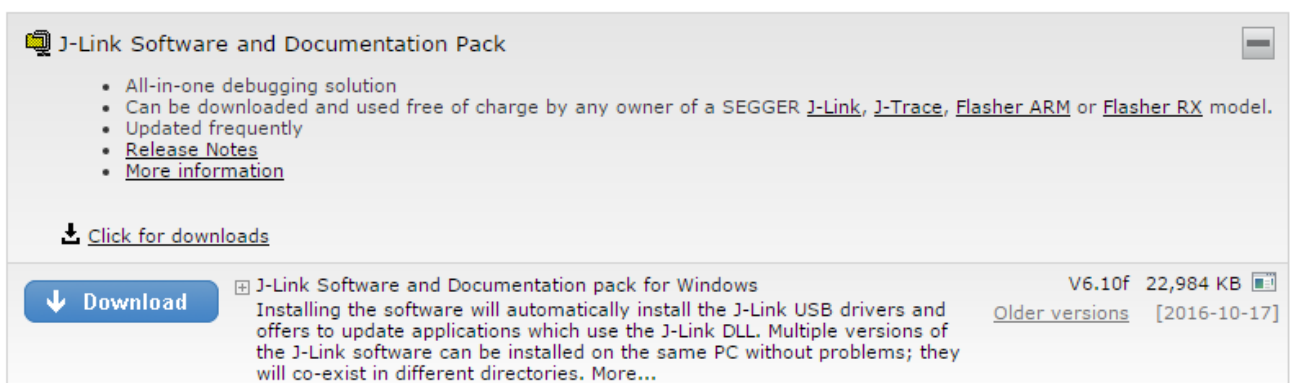
Launch the "**<ADuCM302x_root>**\Documents\html\index.html" file to browse the API documentation interactively.

The *ADuCM302x Device Drivers API Reference Manual* contains complete driver documentation, including API descriptions, data types, structures, parameters, return values, etc.

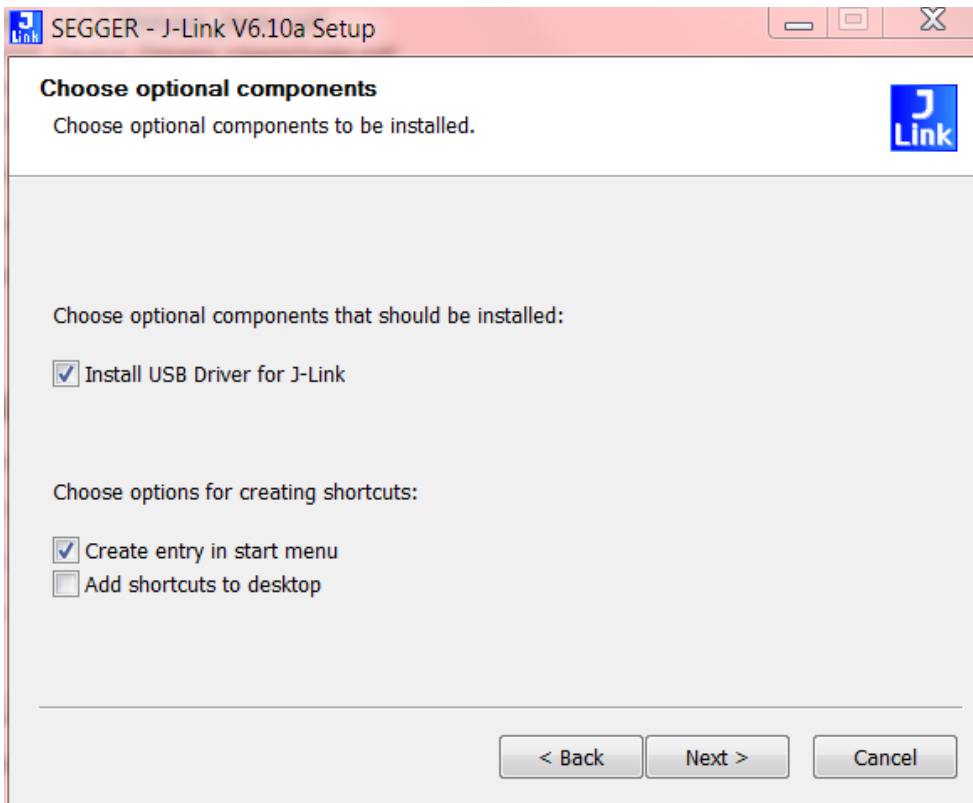
2.1 USB serial driver Installation

ADuCM3029 EZ-Kit Rev 1.x boards use the SEGGER J-Link LITE emulator. The J-Link software package can be downloaded from <http://www.segger.com/jlink-software.html>.

Please download the J-Link software and documentation pack for Windows, as shown in the screen below



The installation will ask you to choose optional components to install. Please ensure to select "Install USB Driver for J-Link", as shown in the screen below.



2.2 Setup a Terminal Emulator program on PC

Setup a Terminal Emulator program, such as HyperTerminal or TeraTerm to interact with the target over UART. To setup a Terminal Emulator session, configure the session on the PC as follows.

Select the appropriate communications channel COMx. You may use the Device Manager to locate the "USB Serial Port (COMx)" device under the Device Manager "Com_Ports" section, where "x" corresponds to the target communications serial Port.

Then set the following attributes:

Communications Settings:

- Baud rate :9600
- Data :8 bit
- Parity :none
- Stop :1 bit
- Flow control :none

3 Technical or Customer Support

Submit your questions online at:

<http://www.analog.com/support>

E-mail your Processors and DSP applications and processor questions to:

processor.support@analog.com OR

processor.china@analog.com (Greater China support)

For Keil toolchain support please visit

<http://www.keil.com>