Release Notes for ADICUP3029 Board Support Package 1.1.0

Contents

1 Introduction

EVAL-ADICUP3029 1.1.0 Board Support Package (BSP) contains software examples using EVAL-ADICUP3029 hardware. This BSP contains various on-chip peripheral examples, Bluetooth Low Energy examples, Wi-Fi examples, and various sensor examples.This BSP is supported in CrossCore Embedded Studio 2.6.0.

2 Required Software

2.1 CrossCore Embedded Studio

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

- CrossCore Embedded Studio 2.6.0
- ADuCM302x Device Family Pack 2.0.0
- ADI-SensorSoftware 1.1.0
- ADI-BleSoftware 1.0.0
- ADI-WiFi Software 1.0.0

3 Release Testing

3.1 CrossCore Embedded Studio

The BSP has been tested with

Board	Emulator
EVAL-ADICUP3029	CMSIS-DAP

4 License Checking

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

5 Release Content

This release contains the following examples

- On-chip peripheral examples present on the EVAL-ADICUP3029 board.
- Bluetooth Low-Energy examples based on Findme Target, Proximity Reporter and Data Exchange profiles. These examples are authored by Analog Devices and demonstrate the use of Bluetooth Low-Energy.
- Sensor Software examples using Accelerometer (ADXL362), Temperature (ADT7420), Carbon Monoxide (CN0357), and Visual Light (CN0397) sensors.
- MQTT example using ADXL362. This example is based on Eclipse Paho MQTT example which is distributed under the EDL license.

5.1 Location

The EVAL-ADICUP3029 BSP will be installed into the CMSIS pack directory for the targeted development environment:

CCES	`<cces_root>\ARM\PACK\AnalogDevices\EVAL-ADICUP3029_BSP\1.1.0`

5.2 Directory Information

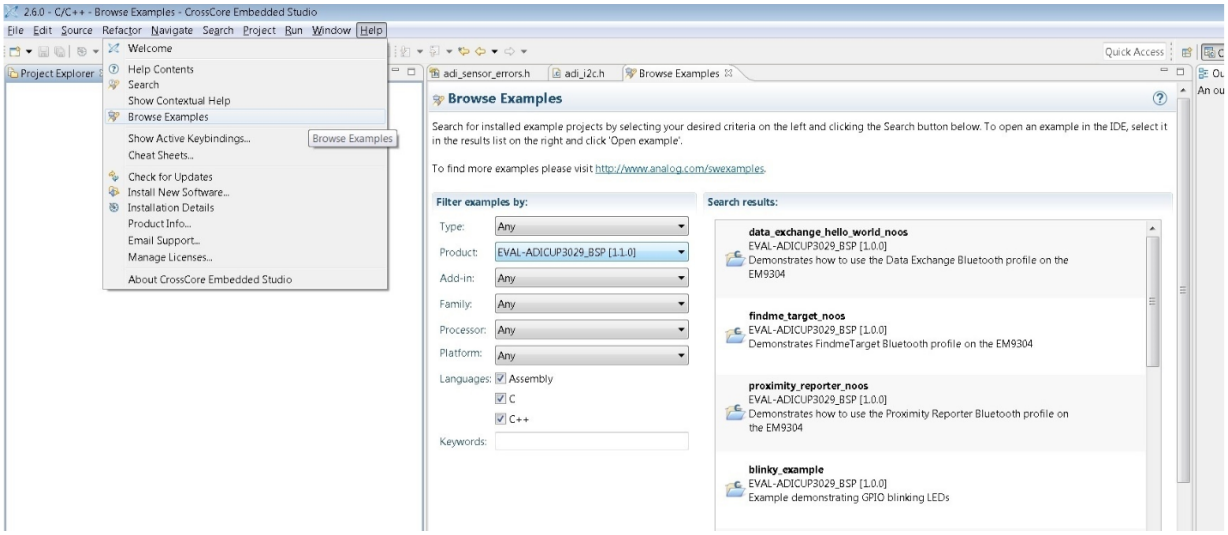
Directory	Description
Boards/EVAL-ADICUP3029/Examples/communication/ble	Bluetooth Examples
Boards/EVAL-ADICUP3029/Examples/communication/wifi	Wi-Fi Examples
Boards/EVAL-ADICUP3029/Examples/drivers	On-chip peripheral Examples
Boards/EVAL-ADICUP3029/Examples/sensor	Sensor Examples
Documents/	Documentation

Directory	Description
Tools/ble/programmer	Bluetooth Low-Energy OTP Tool (binary and source)
License	License agreement

5.3 Running Examples on ADICUP3029 Board

Examples from the ADICUP3029 Board Support Package 1.1.0 can be run by following below steps

- Click on Help Browse Examples
- Select Product EVAL-ADICUP3029_BSP [1.1.0]
- Double click on any example
- Build and run the example



- **Findme_target_noos example project loaded into CCES 2.6.0**

5.4 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 New Functionality

- New Wi-Fi example.
- Bluetooth Low-Energy source files and components are moved out of these package and into a standalone package (ADI-BleSoftware).
- Printing macros modified in examples. UART redirection done with "Examples Support" component of ADuCM302x DFP.
- MAC address modification support added Bluetooth Low-Energy OTP Tool.

7 Known Issues

For the latest anomalies please consult our Software and Tools Anomalies Search page.

- Examples may not load correctly using CCES File Import (ADIUP3029-74)
  -Workaround: Instead of using import use Help Browse Examples to open an example project.