

QSG144: CP2615-EK2 Quick-Start Guide

The Silicon Labs CP2615 Digital Audio Bridge Evaluation Kit is designed to enable rapid development of mobile audio accessories and USB digital audio products using the CP2615 Digital Audio Bridge.

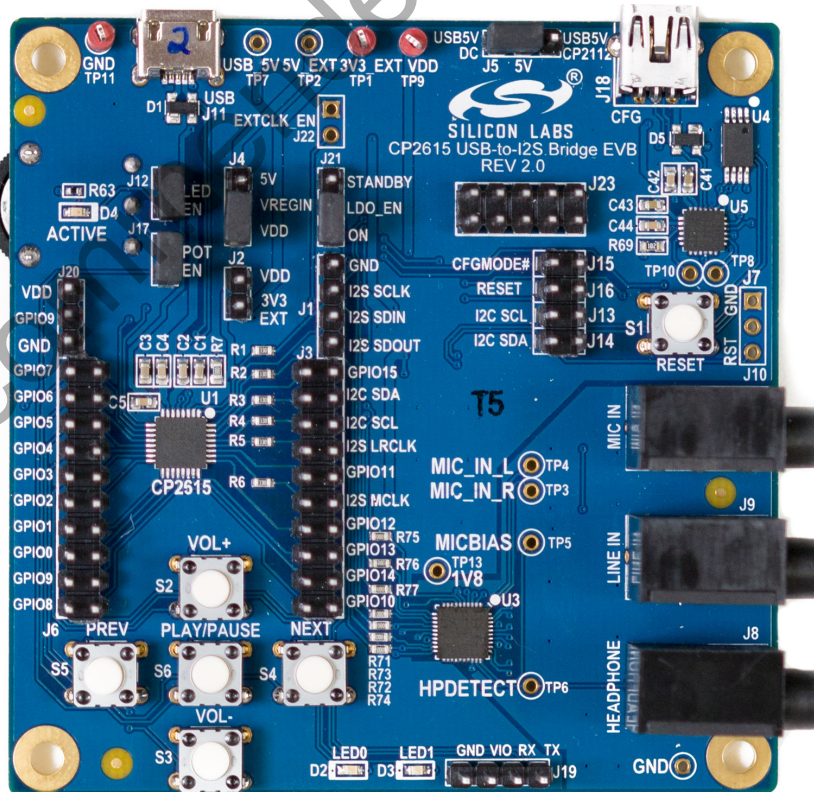
The CP2615 provides built-in support for USB digital audio streaming and HID user-interface functions for transport control buttons. It also provides an I/O protocol to allow host applications access to GPIO, ADC, and serial interfaces. The CP2615 is designed to operate with any USB host that supports USB Audio class 1.0. No firmware development is required to use the CP2615, and it has many custom options that can be configured using a GUI configuration tool.

The CP2615-EK2 kit includes the following:

- CP2615 Audio Bridge evaluation board
- 1 x mini USB cable
- 1 x Micro USB OTG adapter
- 1 x micro USB cable
- 1 x USB Type-C to USB-A adapter
- Quick-Start Card

KEY FEATURES

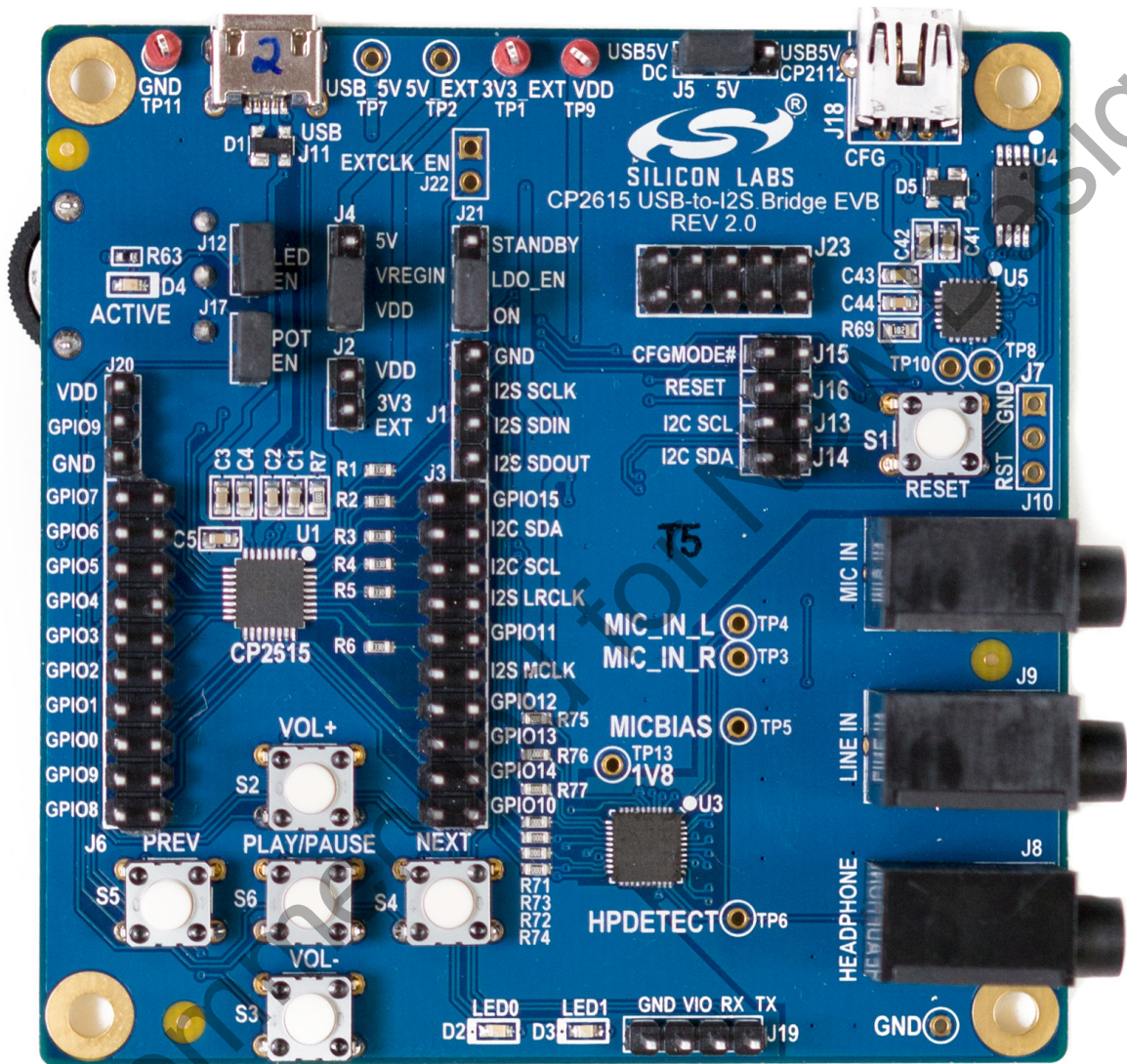
- USB Audio class 1.0
- Supports USB HID Consumer Controls for Volume and Mute Synchronization
- Includes USB-UART bridge function
- Supports 48 kHz, 16-bit/ 24-bit stereo digital audio
- Integrated USB transceiver; no external resistors required
- Integrated clock; no external crystal required
- On-chip voltage regulator: 3.45 V output
- Self-powered or Bus-powered
- No firmware development



1. Getting Started

1. Set Up Your Kit

Connect the USB micro cable to [J11] of the CP2615-EK2 board. Depending on the type of receptacle on your phone, attach either the micro OTG adapter or the USB Type-C adapter to the other end of the USB cable. Then, connect the other end of the adapter to your Android phone.



Micro OTG Adapter Cable

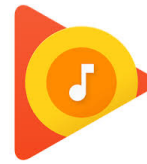
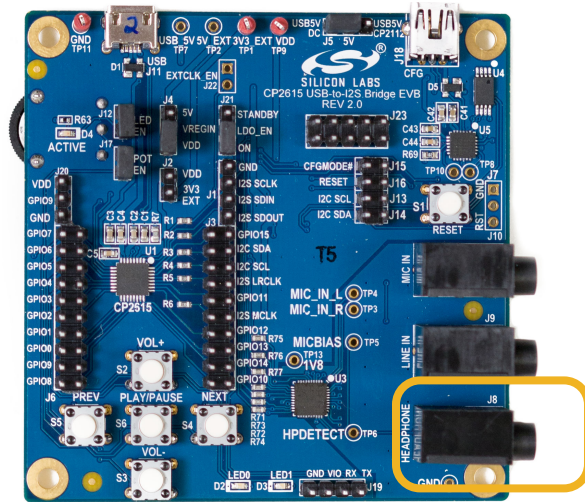


USB Type-C Adapter Cable

The Micro USB OTG adapter is for phones that use a micro connector. The USB Type-C adapter is for phones that use a USB Type-C connector.

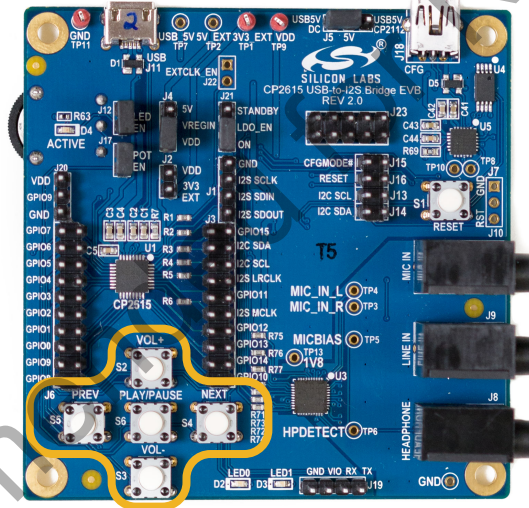
2. Listen to Audio

Connect headphones (J8) to the CP2615 board and use your favorite Android audio application to play music.



3. Control the Audio

Use the buttons to control volume, play and pause the music, and skip ahead or skip back.

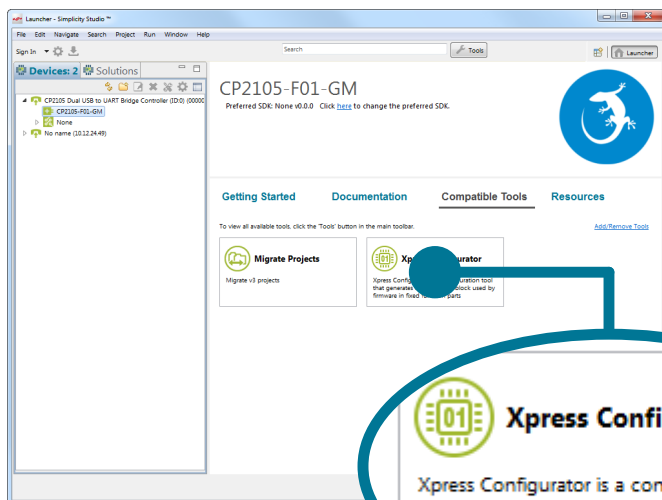


Not Recommended New Designs

2. Resources

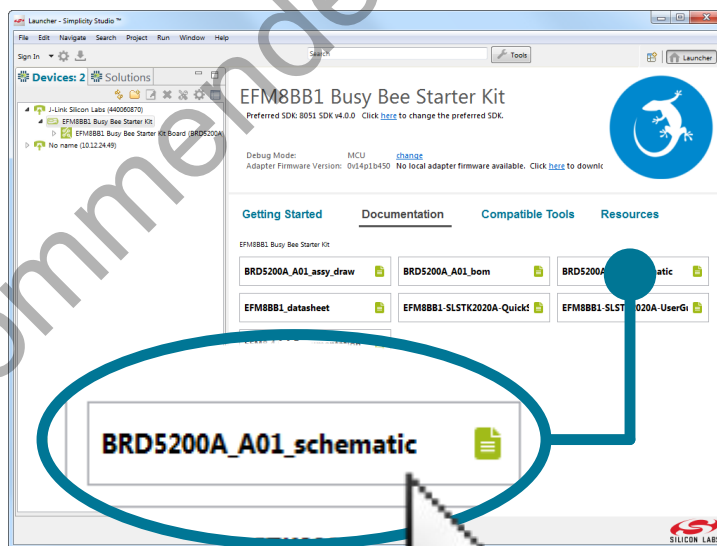
Xpress Configurator

The CP2615 device can be configured by using the [Xpress Configurator] tool within Simplicity Studio.



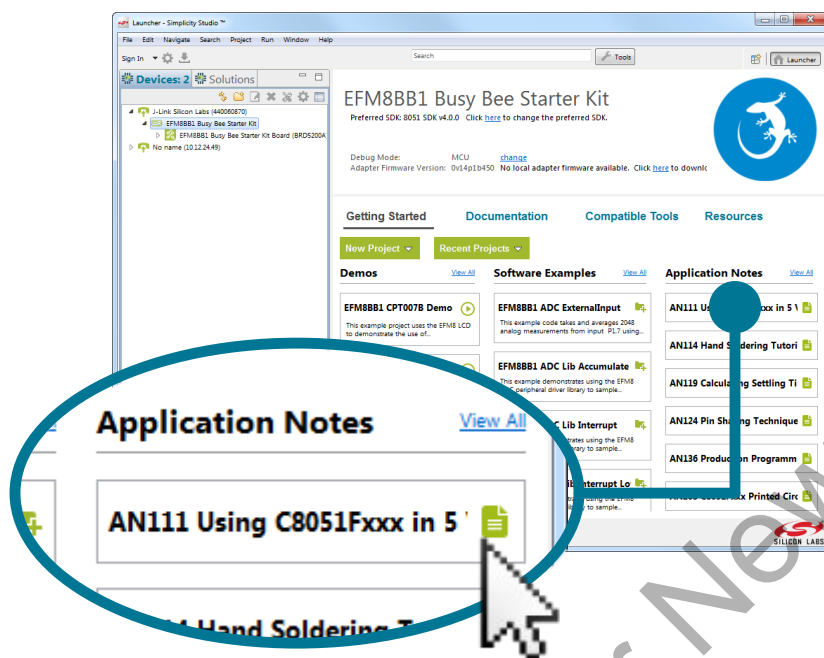
Kit Documentation and User's Guide

Kit documentation like the schematic and detailed board user guide can be found using the [Documentation] area of the Simplicity Studio launcher.



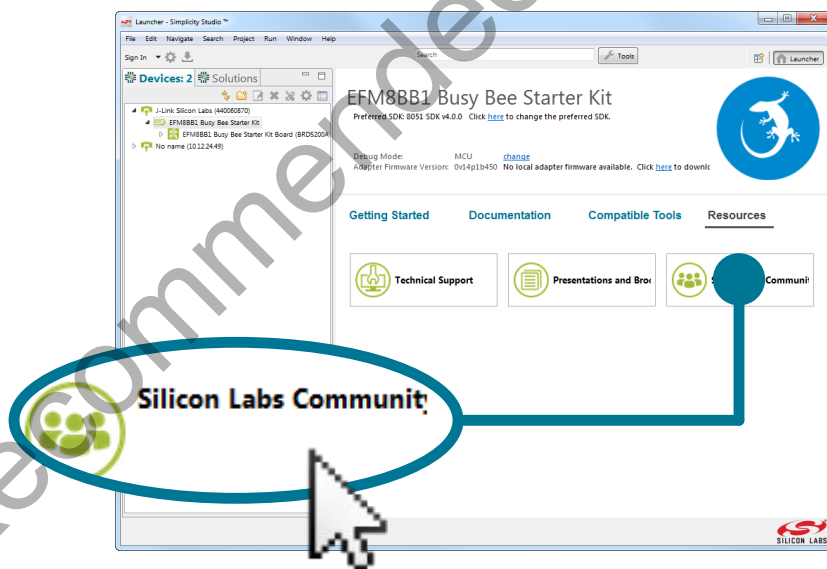
Application Notes

Application Notes on peripherals and other various topics can be accessed using the [Getting Started]>[Software Examples] area of the launcher.



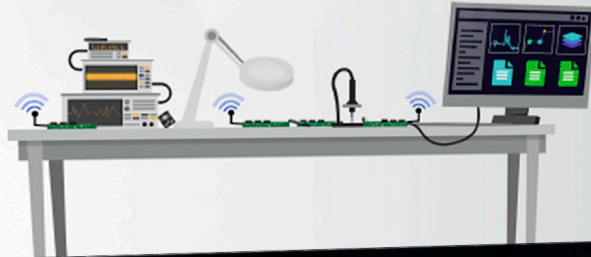
Community and Support

Have a question? Visit the community by clicking the [Resources]>[Silicon Labs Community] area of the launcher.



Silicon Labs

Simplicity Studio™4



Simplicity Studio

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