

CC85XXDK Quick Start Guide

1. Kit Contents



The following items are included in the CC85XXDK:

- 2 x Purepath Wireless AudioEB
- 1 x CC Debugger
- 2 x CC85xxEM
- 2 x CC85xx+CC2590EM
- 2 x 2.4 GHz Antennas
- Cables
- Documentation

If anything is missing in the CC85xxDK please contact your local TI sales representative.

2. Purpose of this Quick Start Guide

This quick start guide will provide step-by-step instructions showing how to set up an audio link between two wireless units provided in the development kit. The procedure is the same regardless of which evaluation module is being used, i.e. either the C85xxEM or the CC85xx-CC2590EM.

The EMs are pre-programmed with firmware to stream audio from the (Master) line-in input of one AudioEB to the (Slave) line-out and headphone output on the other AudioEB. Please follow step 2 to 9. For the latest firmware revision see step 10.

For more details on CC85xx, see the product folder of the CC8520 [1].

3. Plug Master EM into PPW Audio EB



Connect the CC85xxEM or the CC85xx-CC2590EM marked MASTER (label attached on the backside of the board). These boards are pre-programmed with master firmware. Attach the antenna to the SMA connector.

4. Plug Slave EM into PPW Audio EB



Connect the CC85xxEM or the CC85xx-CC2590EM marked SLAVE (label attached on the backside of the board.) These boards are pre-programmed with slave firmware. Attach the antenna to the SMA connector.

5. Connect Audio Cables to the Master



Connect an audio source (CD-player, MP3-player or similar) to the line-in input of the AudioEB with CC85xxEM or CC85xx-CC2590 with the "MASTER" label plugged in.

The CC85xx-CC2590EM and CC85xxEM with the "MASTER" label are pre-programmed with firmware which sets up the onboard TLV320AIC3101 codec [2] to use analog input on the PPW AudioEB.

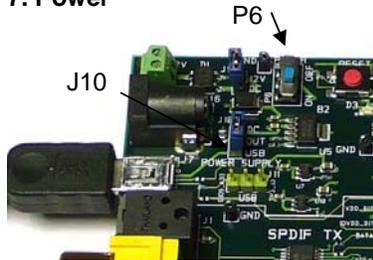
6. Connect Audio Cables to the Slave



Connect an amplifier to line out or connect a headphone to the mini jack of the AudioEB with the CC85xxEM or the CC85xx-CC2590 with the "SLAVE" label plugged in.

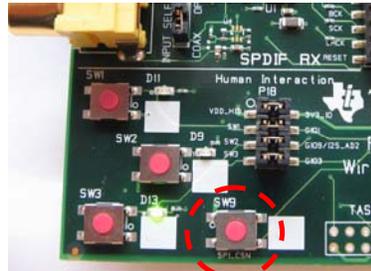
The CC85xx-CC2590EM and CC85xxEM with the "SLAVE" label are pre-programmed with firmware which sets up the onboard TLV320AIC3101 codec [2] to use line out and headphone output of the PPW AudioEB.

7. Power



To power the PPW AudioEBs; connect a USB cable to each of the PPW AudioEBs and make sure J10 is in the position "OUT-USB" (Pos 1-2). Finally, switch P6 to "ON". The LED D3 should now be lit.

8. Pairing



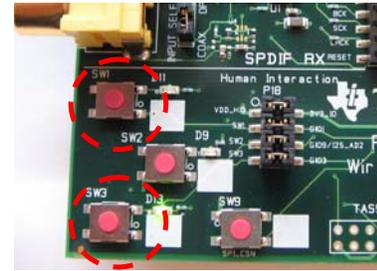
When powered for the first time, LED D9 will blink to indicate that the devices are not connected.

To pair the Slave with the Master; click first on SW9 on Master and then click on SW9 on the Slave within a few seconds after you clicked on the Masters SW9. When the devices are paired and the link is established, LED D9 will be constantly lit.

Note that the pairing operation is only needed the first time. Next time they will pair automatically when powered.

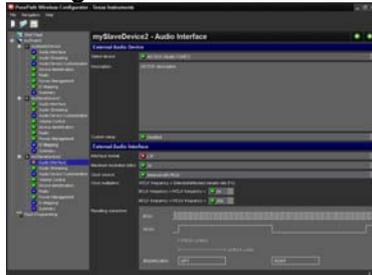
You can now turn on your audio source and start testing!

9. Volume control



The output volume can be adjusted on the Slave by pressing SW 1 to increase the volume and SW3 to decrease the volume.

10. PurePath Wireless Configurator



The next step is to download the PurePath Wireless Configurator (PPWC). PPWC makes it possible to explore all the configuration options of the CC85xx family. After creating device configurations for Master and Slave network roles, PPWC can program the CC85xx devices directly through the CCDebugger (included in the kit).

For more details; download the PPW Configurator and the PPW Configurator Quick Start Guide. Links to download the PPW Configurator can be found in the CC8520 product folder [1]

A. More information

On Texas Instruments' Low-Power RF web site you will find all our latest products, application and design notes, FAQ section, news and events updates, and much more. Just go to www.ti.com/lprf

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We hope you will enjoy working with the CC8520 and associated Low-Power RF products from Texas Instruments.

B. References

[1] CC8520 product web page
<http://www.ti.com/CC8520>

[2] TLV320AIC3101 product web page
<http://focus.ti.com/docs/prod/folders/print/tlv320aic3101.html>

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