## CC256x Audio Sink Quick Start User Guide

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## Introduction

This page will help you quickly get started on CC256x Audio Sink demo and make this a smooth out-of-the-box experience to evaluate the audio features of the CC256x Bluetooth device using the Advanced Audio Distribution Profile.

 loading the Service Pack.

Note:
FCC/IC Regulatory Compliance FCC Part 15 Class A Compliant IC ICES-003 Class A Compliant


## Kit Contents

- 1x Audio kit with jumpers populated
- Quick Start Guide
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This audio sink board has an integrated PCB antenna.

Note: For downloading the sample demo to the EVM, you require MSP430 USB Debugging Interface (http://www.ti.com/tool/msp-fet430uif). This needs to be purchased separately.

## Out of the box demo

Please refer to Audio Sink User Guide Out of the box demo

## Software Update

The A3DP software can be downloaded from here (http://www.ti.com/tool/tibluetoothstack-sdk)
 the CC256XB patch is loaded and the CC256XB module can be used without issues.

## Programming

There are basically two ways to program the board. You can flash the board with the binary or compile and download the source code to the board.

## Binary

The binary can be in various format. For IAR binaries, it is in .d43 file format.

1. After getting the binary, use the FET programmer (http://focus.ti.com/docs/toolsw/folders/print/msp-fet430uif.html) to program the board using the 14-pin JTAG interface. There should be only one way to plug it in.

## Source

The project file contains the source code. For now, only IAR is supported. Simply compile and download the code to the board after opening the project file.

## Terms and Conditions

## EVALUATION BOARD/KIT/MODULE (EVM) ADDITIONAL TERMS

Texas Instruments (TI) provides the enclosed Evaluation Board/Kit/Module (EVM) under the following conditions:



 ABOVE, NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.
 temperatures and voltages. For additional information on TI's environmental and/or safety programs, please visit www.ti.com/esh or contact TI.

 product design, software performance, or infringement of patents or services described herein.

## REGULATORY COMPLIANCE INFORMATION

 Canada (IC) rules.





## General Statement for EVMs including a radio






## For EVMs annotated as FCC - FEDERAL COMMUNICATIONS COMMISSION Part 15 Compliant

## Caution


 authority to operate the equipment.

## FCC Interference Statement for Class A EVM devices



 which case the user will be required to correct the interference at his own expense.

## FCC Interference Statement for Class B EVM devices




 measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.


## For EVMs annotated as IC - INDUSTRY CANADA Compliant

This Class A or B digital apparatus complies with Canadian ICES-oo3.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Concerning EVMs including radio transmitters

 must accept any interference, including interference that may cause undesired operation of the device.

## Concerning EVMs including detachable antennas


 communication.


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Cet appareil numérique de la classe A ou B est conforme à la norme NMB-oo3 du Canada.

Les changements ou les modifications pas expressément approuvés par la partie responsable de la conformité ont pu vider l'autorité de l'utilisateur pour actionner l'équipement.

## Concernant les EVMs avec appareils radio

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## Concernant les EVMs avec antennes détachables


 rayonnée équivalente（p．i．r．e．）ne dépasse pas l＇intensité nécessaire à l＇établissement d＇une communication satisfaisante．

 l＇émetteur．

## ［Important Notice for Users of EVMs for RF Products in Japan］

This development kit is NOT certified as Confirming to Technical Regulations of Radio Law of Japan
If you use this product in Japan，you are required by Radio Law of Japan to follow the instructions below with respect to this product：
 section 1.1 of Article 6 of the Ministry＇s Rule for Enforcement of Radio Law of Japan，
2．Use this product only after you obtained the license of Test Radio Station as provided in Radio Law of Japan with respect to this product，or



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## EVALUATION BOARD/KIT/MODULE (EVM)WARNINGS, RESTRICTIONS AND DISCLAIMERS

For Feasibility Evaluation Only, in Laboratory/Development Environments. Unless otherwise indicated, this EVM is not a finished electrical equipment and not intended for consumer use. It is intended solely for use for preliminary feasibility evaluation in laboratory/development environments by technically qualified electronics experts who are familiar with the dangers and application risks associated with handling electrical mechanical components, systems and subsystems. It should not be used as all or part of a finished end product.

Your Sole Responsibility and Risk. You acknowledge, represent and agree that:

1. You have unique knowledge concerning Federal, State and local regulatory requirements (including but not limited to Food and Drug Administration regulations, if applicable) which relate to your products and which relate to your use (and/or that of your employees, affiliates, contractors or designees) of the EVM for evaluation, testing and other purposes.
2. You have full and exclusive responsibility to assure the safety and compliance of your products with all such laws and other applicable regulatory requirements, and also to assure the safety of any activities to be conducted by you and/or your employees, affiliates, contractors or designees, using the EVM. Further, you are responsible to assure that any interfaces (electronic and/or mechanical) between the EVM and any human body are designed with suitable isolation and means to safely limit accessible leakage currents to minimize the risk of electrical shock hazard.

 reasonable safeguards to ensure that your use of the EVM will not result in any property damage, injury or death, even if the EVM should fail to perform as described or expected.
3. You will take care of proper disposal and recycling of the EVM's electronic components and packing materials.

Certain Instructions. It is important to operate this EVM within TI's recommended specifications and environmental considerations per the user guidelines. Exceeding the specified EVM ratings (including but not limited to input and output voltage, current, power, and environmental ranges) may cause property damage, personal injury or death. If there are questions concerning these ratings please contact a TI field representative prior to connecting interface electronics including input power and intended loads. Any loads applied outside of the specified output range may result in unintended and/or inaccurate operation and/or possible permanent damage to the EVM and/or interface electronics. Please consult the EVM User's Guide prior to connecting any load to the EVM output. If there is uncertainty as to the load specification, please contact a TI field representative. During normal operation, some circuit components may have case temperatures greater than $60^{\circ} \mathrm{C}$ as long as the input and output are maintained at a normal ambient operating temperature. These components include but are not limited to linear regulators, switching transistors, pass transistors, and current sense resistors which can be identified using the EVM schematic located in the EVM User's Guide. When placing measurement probes near these devices during normal operation, please be aware that these devices may be very warm to the touch. As with all electronic evaluation tools, only qualified personnel knowledgeable in electronic measurement and diagnostics normally found in development environments should use these EVMs.

Agreement to Defend, Indemnify and Hold Harmless. You agree to defend, indemnify and hold TI, its licensors and their representatives harmless from and against any and all claims, damages, losses, expenses, costs and liabilities (collectively, "Claims") arising out of or in connection with any use of the EVM that is not in accordance with the terms of the agreement. This obligation shall apply whether Claims arise under law of tort or contract or any other legal theory, and even if the EVM fails to perform as described or expected.

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| :--- | :--- |
| Clocks \& Timers <br> Data Converters | Interface <br> Logic |

Processors

- ARM Processors
- Digital Signal Processors (DSP)
- Microcontrollers (MCU)
- OMAP Applications Processors

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