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Worldwide (In English)

CC256x Bluetooth® / Dual-Mode Evaluation Module

(ACTIVE) CC256XQFNEM

Description & Features

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Description

TI's reference design for CC256x Bluetooth solution is used on this evaluation module board. The CC256x Bluetooth solution can support Bluetooth classic & Bluetooth low energy or ANT.

To aid in the implementation of this reference design, there are schematic, layout, BOM and gerber files available on the [CC256x Main Wiki page](#).

The CC256x QFN EM board is intended for evaluation purpose and works with Texas Instruments hardware development kits such as [MSP-EXP430F5529](#), [MSP-EXP430F5438](#), [DK-TM4C123G](#), and [DK-TM4C129X](#).

The TI CC256x Bluetooth device is a complete BR/EDR/LE HCI solution that reduces design effort and enables fast time to market for applications like cable replacement, wireless sensors, mobile device accessories, industrial control, health and fitness devices, and simple audio solutions. Based on TI's seventh-generation core, the device brings a product-proven solution that supports 4.1 dual mode (BR/EDR/LE) protocols.



Features

- Bluetooth Specification v4.1
- Dual Mode - Bluetooth & Bluetooth low energy or ANT
- TI Bluetooth Stack with many profiles
- Other profiles available on request i.e. Audio Profiles
- FCC, IC, CE certified
- High sensitivity (-93 dBm typ.)
- UART Interface
- 4 Layer PCB design
- ROM spin to enable offload host and saves current with assisted audio
- SBC encode/decode on chip
- Support for 2 wire UART (TX, RX), SW flow control (H5 protocol), and 4 wire UART (H4 protocol)
- Up to 10 Bluetooth low energy connections

What's Included

- 1 CC256x EM board with TI CC256x device with QFN package
- 1 Jumper for MSP-EXP430F5438 board
- 4 Jumpers for MSP-EXP430F5529 board
- Experimenter boards sold separately

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Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status
CC256XQFNEM: CC256x Bluetooth® / Dual-Mode Evaluation Module	\$59.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE

Contact a Distributor

Technical Documents


Application Notes (1)

Title	Abstract	Type	Size (KB)	Date	Views
 CC256XQFN PCB Guidelines	Read Abstract	PDF	1802	03 Jan 2013	1,318

White Papers (2)

Title	Abstract	Type	Size (KB)	Date	Views
 Wireless Connectivity For The Internet of Things, One Size Does Not Fit All		PDF	393	27 Jun 2014	10,030
 Three Flavors of Bluetooth®: Which One to Choose?		PDF	322	25 Mar 2014	3,269

More Literature (1)

Title	Abstract	Type	Size (KB)	Date	Views
 SimpleLink Bluetooth CC256x Solutions (Rev. A)		PDF	607	05 Sep 2014	2,193

Related Products

Software (1)

Name	Part Number	Software Type
TI Bluetooth Stack: certified and royalty-free	TIBLUETOOTHSTACK-SDK	Software Development Kits (SDK)

Design Kits & Evaluation Modules (1)

Name	Part Number	Tool Type
EZ430-RF256x Bluetooth Evaluation Tool	EZ430-RF256X	Evaluation Modules & Boards

Reference Designs (1)

Name	Part Number	Tool Type
CC256x Bluetooth® Reference Design	CC256XEM-RD	TI Designs

TI Devices (2)


Part Number	Name	Product Family
CC2560	Bluetooth Controller	Wireless Connectivity
CC2564	Bluetooth Controller	Wireless Connectivity

Videos

Your System Status

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You need to update your Flash Player.



IMPORTANT: After installing the required upgrade please reload this browser window to view the video player.

CC256X Bluetooth® Evaluation Module supports simple audio

In this video, learn about TI's CC256x Bluetooth® evaluation module, which is an implementation of the CC256X Bluetooth reference design. It supports TI's CC2560 Bluetooth and CC2564 dual mode devices.

Posted: 07-Jun-2013

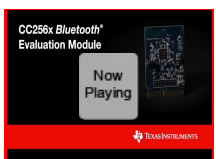
Duration: 01:32

Views: 2076

Tags: ble, Bluetooth Audio, iot, audio streaming, cc2564, cc256x, English, low end audio, pe bluetooth overview, cc256x qfn em, cc256x em, wireless, bluetooth, cc2560, pe wcs overview, ultra low power mcu audio, Wireless Connectivity, bluetooth low energy


For more information on [CC256X Bluetooth® Evaluation Module](#) click here.

Related Videos



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CC256X Bluetooth® Evaluation Module supports simple audio



Getting Started with Bluetooth® | Play TI's


TI Bluetooth Portfolio

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Training & events

Name	Type	Available During
Georgia Tech MOOC: Control of Mobile Robots Learn how to make mobile robots move in effective, safe, predictable, and collaborative ways using modern control theory.	On-Line Training	On Demand
SimpleLink™ Wi-Fi CC3100 and CC3200 Project 0 Series - 5 Part Series Learn about using Software Tools for SimpleLink™ Wi-Fi CC3100 Boosterpack and CC3200 Launchpad	On-Line Training	On Demand
TI-RTOS Update Learn about the latest TI-RTOS features and more in-depth understanding of this TI software tool.	On-Line Training	On Demand
Designing with Ultra Low Power Segmented Displays Learn about designing Ultra-low Power Segmented Displays and MSP430	On-Line Training	On Demand

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