Mini Bluetooth® Low Energy Broadcaster

(ACTIVE) TIDC-MINI-BLUETOOTH-LOW-ENERGY-BROADCASTER

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Description

This reference design is an example of using the SimpleLink™ Bluetooth® Smart CC2543 low-cost proprietary RF wireless MCU as a broadcaster. The board has several sensors and runs off a CR2032coin cell battery. Combined with the example software and the TI Multitool Bluetooth Smart app, the board will work as a weather station broadcaster as an example application.

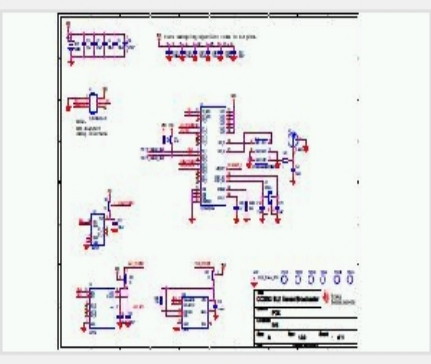
Features

- Broadcast Bluetooth Smart data with the CC2543
- Demo example running out-of-the-box
- Compact form factor
- Runs off a single CR2032 coincell
- All required hardware reference design files and software examples included

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Schematic/Block Diagram

Quickly understand overall system functionality.



Download Schematic

Design Guide

Get results faster with test and simulation data that's been verified.

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Design Files

Download ready-to-use system files to speed your design process. Get Viewer.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

TI Devices (1)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
CC2543	2.4GHz RF Value Line SoC with 32kB flash, 16 GPIO, I2C, SPI and UART	Wireless Connectivity	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
CC2543	VQFN (RHB) | 32	Download	-

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the Ultra Librarian software ZIP: 62MB

Step 2: Download the Symbol and Footprint .bxl file.

- read more -

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
CC2543, CC2544, CC2545 System-on-Chip Solution for 2.4-GHz Apps User's Guide (Rev. B)		PDF	1744	18 Mar 2013	851

Design Files (3)

Title	Abstract	Type	Size (KB)	Date	Views
Mini Bluetooth Low Energy Broadcaster Design Files		ZIP	889	14 Aug 2014	108
Mini Bluetooth Low Energy Broadcaster Bill of Materials (BOM)		PDF	112	14 Aug 2014	128
Mini Bluetooth Low Energy Broadcaster Schematic		PDF	35	14 Aug 2014	288

Related Tools & Software

Software (1)

CC2543 mini-BLE Broadcaster
(ZIP, 414 KB) 316 views, 09 Jul 2014

Applications

- Handset: Smartphone

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