

CC2650EM-4XS-EXT-REG Reference Design

(ACTIVE) CC2650EM-4XS-EXT-REG-RD

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Description

The CC2650EM-4XS_Ext_Reg reference design contains schematics and layout files for the CC2650 configured for external regulator operation using the TPS62740 DCDC converter. The reference design demonstrates good techniques for CC2650 decoupling and RF layout. For optimum RF performance, the reference design, both schematic and layout, should be copied accurately.

There are several reference designs to choose from for the CC26xx device family, including designs with the various package types and also the different RF front-end options. All of the reference designs are with 2-layer PCB and has on-board PCB antenna.

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

TI Devices (4)

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
CC2620	SimpleLink ultra-low power wireless MCU for RF4CE	Wireless Connectivity	Sample & Buy	View Design Kits & Evaluation Modules
CC2630	SimpleLink ultra-low power wireless MCU for 2.4-GHz IEEE 802.15.4-based RF Protocols	Wireless Connectivity	Sample & Buy	View Design Kits & Evaluation Modules
CC2640	SimpleLink ultra-low power wireless MCU for BLE (Bluetooth Smart)	Wireless Connectivity	Sample & Buy	View Design Kits & Evaluation Modules

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CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
CC2630	 VQFN (RHB) 32	Download	-
	 VQFN (RSM) 32	Download	Download
	 VQFN (RGZ) 48	Download	-
CC2640	 VQFN (RHB) 32	Download	-
	 VQFN (RSM) 32	Download	Download
	 VQFN (RGZ) 48	Download	-
CC2650	 VQFN (RHB) 32	Download	-
	 VQFN (RSM) 32	Download	Download
	 VQFN (RGZ) 48	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 [free download](#).

Step 2: Download the Symbol and Footprint from the CAD.bxl file table.

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Technical Documents

Design files (1)

Title	Abstract	Type	Size (KB)	Date	Views
SimpleLink CC2650 EVM Kit 4XS_Ext_Reg (CC2650EM-4XS_Ext_Reg) v2.0.0 Design Files		ZIP	2184	10 Feb 2015	707

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