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BQ24250EVM-150 Single Input I2C/Standalone Switch-Mode Li-Ion Battery Charger Evaluation Module

(ACTIVE) BQ24250EVM-150

Description & Features

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Description

This EVM enables test and evaluation of the Texas Instruments' [bq24250/51/57 devices](#). The bq2425x series are highly integrated single cell Li-Ion battery chargers targeted for space-limited, portable applications with high capacity batteries. The single cell charger has a single input that operates from either a USB port or AC wall adapter for a versatile solution. BC1.2 compliant D+/D- detection allows for recognition of CDP, DCP, SDP, and non-standard USB adapters. The use of an accessory dead battery provision (DBP) pin allows for the system to sync a dead battery state in order to enable/disable the BC1.2 detection in the case of an external USB-PHI. The user's guide includes EVM specifications, the schematic diagram, bill of materials, and board layout.



BQ24250EVM: Single Cell Charger Evaluation Module

Features

- High-efficiency switch-mode charger
- Synchronous fixed-frequency PWM controller operating at 3MHz for small inductor support
- USB charging compliant
- Integrated 50mA LDO
- Integrated power FETs for up to 2.0A charging rate
- Complete system level protection
- BC1.2 D+/D- detection with dead battery provision (DBP) pin to sync with external USB-PHI
- Open drain status outputs
- Power path management for the bq24250/1

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Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status	Lead-Free	RoHS	REACH	WEEE	HI-V (>50VRMS/75 VDC)	CE	CE-EMC	CE-RTTE/LVD	FCC	Batteries	Enclosure	Ext Power Supply
BQ24250EVM-150: BQ24250EVM-150 Single Input I2C/Standalone Switch-Mode Li-Ion Battery Charger Evaluation Module	\$149.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE	Yes	Yes	No	NA	NA	NA	NA	NA	NA	No	No	No

Contact a Distributor


TI's Standard Terms and Conditions for Evaluation Modules apply.

Technical Documents

Datasheet (1)



Title	Abstract	Type	Size (KB)	Date	Views
BQ2425x 2A Single-Input I2C, Stand-Alone Switched-Mode Li-Ion Battery Charger With Power-Path Management (Rev. G)		PDF	2658	15 Jan 2015	

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
 bq24257EVM-150, Single-Cell Li-Ion Switch-Mode Charger (Rev. A)		PDF	938	03 Apr 2013	601

Related Products

Software (2)

-  [bq24250EVM Software \(Rev. A\)](#)
(ZIP, 528 KB) 148 views, 30 May 2013
-  [Thermal TS bq2425x Calculator Tool](#)
(ZIP, 22 KB) 89 views, 14 Mar 2013

TI Devices (3)


Part Number ▾	Name	Product Family ▾
BQ24250	2A Single Input I2C/Standalone Switch-Mode Li-Ion Battery Charger	Battery Management Products
BQ24250C	2A Single Input I2C/Standalone Switch-Mode Li-Ion Battery Charger	Battery Management Products
BQ24251	2A Single Input I2C/Standalone Switch-Mode Li-Ion Battery Charger	Battery Management Products

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