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Worldwide (In English)

USB-Based PC Interface Board for Battery Fuel (Gas) Gauge Evaluation

(ACTIVE) EV2300

Description & Features

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Key Document

EV2300 EVM Interface Board User's Guide (Rev. E) (PDF 753 KB)
08 May 2013 2,627 views

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Description

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The EV2300 is a USB-based interface board for a PC that can be used to evaluate battery fuel gauge circuits designed with Texas Instruments' ICs. The EV2300 has connections on it for a USB cable and also accepts inputs from a battery fuel gauge circuit's communication port (SMBus or HDQ). By running the appropriate PC software for the corresponding fuel gauge IC, the EV2300 interface board allows the user to evaluate the battery fuel gauge circuit.



USB-Based PC Interface Board for Battery Fuel Gauge Evaluation, Gas Gauge SMBus or HDQ

Features

- USB-based interface board for evaluation of battery fuel gauge circuits developed with fuel gauge ICs using the HDQ and SMBus communication protocol
- Provides interface between intelligent battery circuit and a Windows-based PC
- Connects to the USB port of a PC
- Allows for on screen display and programming of gas gauge register functions when used with the appropriate PC software

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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
EV2300: USB-Based PC Interface Board for Battery Fuel (Gas) Gauge Evaluation	\$99.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE	Yes	Yes	Yes	NA	NA	No	No	NA	NA	No	Yes	No

Contact a Distributor

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

Technical Documents

Datasheet (5)

Title	Abstract	Type	Size (KB)	Date	Views
Ultralow-Power 50-mA Low-Dropout Linear Regulators (Rev. C)		PDF	305	15 Apr 2008	
Universal Serial Bus General-Purpose Device Controller (Rev. F)		PDF	415	01 Aug 2007	
SBS v1.1-Compliant Gas Gauge For Use With The bq29312A		PDF	871	11 Sep 2006	

Title	Abstract	Type	Size (KB)	Date	Views
Single-Cell Li-Ion and Li-Pol Battery Gas Gauge IC For Portable Applications (Rev. D)		PDF	1185	27 Feb 2006	
SN74LVC1G126-EP (Rev. A)		PDF	405	04 May 2004	

Errata (1)

Title	Abstract	Type	Size (KB)	Date	Views
Important Notice on EV2300 EVM (Rev. A)		PDF	193	05 Dec 2011	325

User Guides (4)

Title	Abstract	Type	Size (KB)	Date	Views	TI Recommends
EV2300 EVM Interface Board User's Guide (Rev. E)		PDF	753	08 May 2013	2,627	✓
EV2300 Evaluation Module Interface Board User's Guide. (Rev. C)		PDF	637	23 Jan 2012	2,627	
bq27410EVM: Single-Cell Impedance Track(TM) Technology. (Rev. A)		PDF	19377	29 Aug 2011	254	
Using bqTester Single Site Software (Rev. A)	Read Abstract	PDF	939	01 Sep 2006	557	

Related Products

Software (1)

[USB Drivers for Windows XP and Windows 7 \(32-bit OS only\) \(Rev. A\)](#)
(ZIP, 1456 KB) 1699 views, 28 Apr 2011

Design Kits & Evaluation Modules (15)

Name	Part Number	Tool Type
Battery Charging Solution Evaluation Module	BQ27532EVM-656	Evaluation Modules & Boards
BQ27411EVM-G1C Pack-Side Impedance Track™ Fuel (Gas) Gauge Evaluation Module	BQ27411EVM-G1C	Evaluation Modules & Boards
BQ27421EVM-G1B System-Side Battery Fuel (Gas) Gauge Evaluation Module	BQ27421EVM-G1B	Evaluation Modules & Boards
BQ27425EVM-G2A System-Side Impedance Track™ Fuel (Gas) Gauge Evaluation Module	BQ27425EVM-G2A	Evaluation Modules & Boards
BQ27425EVM-G2B System-Side Impedance Track™ Fuel (Gas) Gauge Evaluation Module	BQ27425EVM-G2B	Evaluation Modules & Boards
BQ27545EVM Single Cell, Pack Side, Impedance Track Fuel Gauge Evaluation Module	BQ27545EVM	Evaluation Modules & Boards
BQ27741EVM Pack-Side Impedance Track Fuel (Gas) Gauge Integrated Protector Evaluation Module	BQ27741EVM	Evaluation Modules & Boards
bq27742-G1 Single Cell Li-ion Battery Fuel (Gas) Gauge Programmable Evaluation Module	BQ27742EVM	Evaluation Modules & Boards
Pack-Side Impedance Track™ Fuel (Gas) Gauge Evaluation Module	BQ27411EVM-G1B	Evaluation Modules & Boards
Pack-Side Impedance Track™ Fuel (Gas) Gauge Evaluation Module	BQ27411EVM-G1A	Evaluation Modules & Boards
Single Cell Impedance Track™ Battery Fuel Gauge With Integrated LDO Evaluation Module Gas Gauge	BQ27541EVM	Evaluation Modules & Boards
System-Side Fuel (Gas) Gauge Dynamic Voltage Correlation Evaluation Module	BQ27621EVM-G1	Evaluation Modules & Boards
System-Side Impedance Track™ Battery Fuel (Gas) Gauge Evaluation Module	BQ27441EVM-G1B	Evaluation Modules & Boards
System-Side Impedance Track™ Fuel Gauge Evaluation Module Battery Fuel Gauge Integrated Circuit	BQ27520EVM	Evaluation Modules & Boards
System-Side Single-Cell Impedance Track™ Technology Evaluation Module Battery Fuel Gauge Integrated	BQ27510EVM	Evaluation Modules & Boards

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TI Devices (12)

Part Number	Name	Product Family
BQ2084-V143	SBS v1.1 Compliant Gas Gauge for use with the BQ29312A	Battery Management Products
BQ27000	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge IC	Battery Management Products
BQ27010	Li-Ion AND Li-Pol Battery Gas Gauge IC for Portable Applications (bqJUNIOR)	Battery Management Products
BQ27200	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge IC with I2C Interface	Battery Management Products
BQ27210	Li-Ion and Li-Pol Battery Gas Gauge IC for Portable Applications (bqJUNIOR)	Battery Management Products
BQ27421-G1	System-Side(tm) Fuel Gauge With Integrated Sense Resistor Battery Gas Gauge	Battery Management Products
BQ27532-G1	Battery Management Unit Impedance Track Fuel Gauge for bq2425x Charger	Battery Management Products
BQ27621-G1	System-Side Fuel Gauge with Dynamic Voltage Correlation, Battery Gas Gauge	Battery Management Products
BQ27742-G1	bq27742-G1 Single Cell Li-Ion Battery Fuel Gauge With Integrated Protection	Battery Management Products
SN74LVC1G126	Single Bus Buffer Gate With 3-State Outputs	Logic
TPS77033	Single Output LDO, 50mA, Fixed(3.3V), Low Quiescent Current	Linear Regulator (LDO)
TUSB3210	Universal Serial Bus General-Purpose Device Controller	USB

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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
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