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DRV8834 Evaluation Module

(ACTIVE) DRV8834EVM

Description & Features

Technical Documents

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Key Document

DRV8834EVM User Guide (Rev. A) (PDF 554 KB)
05 Nov 2013 344 views

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Description

The DRV8834 evaluation module (EVM) demonstrates the capabilities and performance of the DRV8834 motor driver from Texas Instruments. This EVM comes with an on-board MSP430 microcontroller which has been pre-programmed with a set of useful algorithms for driving a stepper or two brushed DC motors. The graphical user interface allows control of the EVM through the user's computer via USB port. The regulated voltage for the MSP430 is provided by LP2985-33 single-channel LDO. This EVM operates on power supply voltages from 2.5V to 10.8V.



DRV8834EVM

Features

- Microstep using DRV8834 internal indexer, on-board MSP430, or external MCU.
- On-board potentiometers allows for adjusting Vref and decay ratio, blanking time and off time.
- Control and status signals brought out to test headers for easy evaluation.
- Headers and a simple jumper are provided so that the DRV8834 can be driven with customer's choice of microcontroller.
- Advanced graphical user interface (download available below) enables acceleration, deceleration and motion profiles. MSP430 algorithms available in the software download section.

What's Included

- DRV8834 Evaluation Module
- MCU Control Software Source Code
- Easy to Use GUI
- USB Cable

Order Now


Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status	Lead-Free	RoHS	REACH
DRV8834EVM: DRV8834 Evaluation Module	\$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

Contact a Distributor


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

Technical Documents

Datasheet (1)

Title	Abstract	Type	Size (KB)	Date	Views
 Dual Bridge Stepper or DC Motor Driver (Rev. C)		PDF	1719	24 Jun 2013	

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views	TI Recommends
 DRV8834EVM User Guide (Rev. A)		PDF	554	05 Nov 2013	344	✓

Design Files (1)

Title	Abstract	Type	Size (KB)	Date	Views
Hardware: DRV8834EVM		ZIP	1700	14 Jul 2014	130

Related Products

Software (1)

 [Software: DRV8834EVM \(Rev. D\)](#)
(ZIP, 2212 KB) 160 views, 14 Jul 2014

TI Devices (3)


Part Number ↕	Name	Product Family ↕
DRV8834	2.2A Low Voltage Stepper w/ 32-step Indexer or Dual Brushed DC Motor Driver (Indexer or PH/EN Ctrl)	Stepper Drivers
LP2985-33	Single Output LDO, 150mA, Fixed(3.3V), 1.5% Tolerance, Low Quiescent Current, Low Noise	Linear Regulator (LDO)
MSP430F2617	16-Bit Ultra-Low-Power MCU, 92KB Flash, 8KB RAM, 12-Bit ADC, Dual DAC, 2 USCI, HW Mult, DMA	Ultra-low Power

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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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