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DRV2605EVM-CT ERM/LRA Haptic Driver Evaluation

(ACTIVE) DRV2605EVM-CT

Description & Features

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Description

The DRV2605 is a haptic driver designed for Linear Resonant Actuators (LRA) and Eccentric Rotating Mass (ERM) motors. It provides many features which help eliminate the design complexities of haptic motor control including reduced solution size, high efficiency output drive, closed-loop motor control, quick device startup, and auto-resonance frequency tracking.

The DRV2605EVM-CT Evaluation Module (EVM) is a complete demo and evaluation platform for the DRV2605. The kit includes a microcontroller, linear actuator, eccentric rotating mass motor, sample waveforms and capacitive touch buttons which can be used to completely demonstrate and evaluate the DRV2605.



Features

- Smart Loop Architecture
- ◊ Automatic Overdrive & Braking (ERM/LRA)
- ◊ Automatic Resonance Tracking (LRA)
- ◊ Automatic Actuator Diagnostics (ERM/LRA)
- ◊ Automatic Calibration (ERM/LRA)
- I2C Digital Playback Engine
- 123 Effect Haptic Waveform Library
- Audio-to-Haptics
- ERM & LRA Actuator
- Capacitive Touch Buttons
- Programmable MSP430

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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
DRV2605EVM-CT: DRV2605EVM-CT	\$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	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
DRV2605 Haptic Driver for ERM and LRA With Built-In Library and Smart-Loop Architecture (Rev. C)		PDF	2497	24 Sep 2014	

Application Notes (3)

Title	Abstract	Type	Size (KB)	Date	Views
DRV2605 Device Setup Guide	Read Abstract	PDF	454	09 Jul 2014	306
Haptic Energy Consumption	Read Abstract	PDF	1268	28 May 2014	444
Benefits of LRA Auto-Resonance Tracking	Read Abstract	PDF	1417	15 Oct 2013	279

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
DRV2605 ERM, LRA Haptic Driver Evaluation Kit (Rev. B)		PDF	1505	28 Mar 2014	401

Solution Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
White Goods Solution Guide		PDF	11357	19 Jun 2013	3,312

More Literature (1)

Title	Abstract	Type	Size (KB)	Date	Views
Haptics: Solutions for ERM and LRA Actuators		PDF	1856	18 Dec 2012	652

Related Products

Software (1)

[DRV2605EVM-CT Firmware v1.0](#)
(ZIP, 297 KB) 17 Sep 2014

TI Devices (2)

Part Number	Name	Product Family
DRV2605	Haptic Driver for ERM/LRA with Built-In Library and Smart Loop Architecture	Haptic Driver
MSP430TCH5E	Haptics Enabled Device authenticated to run Immersion Touchsense technology	Low Power + Performance

Videos

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IMPORTANT: After installing the required upgrade please reload this browser window to view the video player.

Getting Started with the DRV2605 EVM

Brian gives a quick tour of the DRV2605 evaluation kit. The DRV2605EVM-CT is a complete demo and eval kit that gives you the flexibility to control and explore the features of the DRV2605 ERM/LRA haptic driver. The

Posted: 01-Apr-2013

Duration: 04:53

Views: 1322

Tags: computers & peripherals, immersion licensing, amplifiers & linear, haptics driver, haptic, LRA, automotive, lra haptics driver, erm haptics driver, smart loop architecture, automatic overdrive, erm haptics, haptic effects, haptics effects, audio to haptics, ERM, consumer electronics, haptics, audio, Automatic braking, linear resonant actuator, haptics effect, automatic resonance

Related Videos

DRV2605 Evaluation Kit

ERM/LRA Haptic Driver with Smart Loop Architecture and Embedded Waveforms

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TELEMETRICS

Getting Started with the DRV2605 EVM

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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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