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Worldwide (In English)

C5000™ Audio Capacitive Touch BoosterPack

(ACTIVE) 430BOOST-C55AUDIO1

Description & Features

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Description

The Audio Capacitive Touch BoosterPack (430BOOST-C55AUDIO1) is a plug in board for the MSP430™ Value Line LaunchPad development kit (MSP-EXP430G2). The kit offers a complete reference design for capacitive touch solutions, using the capacitive touch I/O ports of select MSP430 Value Line microcontrollers. This reference design allows designers to easily control the C5000™ ultra-low-power DSP using TI's MSP430 microcontroller for crystal clear playback and record of MP3 audio/voice files. Using the Audio BoosterPack, programmers realize the power and efficiency of the C5000™ DSP without having to learn how to program the DSP. And the combination of the lowest standby power microcontroller (MSP430) with the lowest total power DSP (C5000) allows manufacturers to deliver ultra-low-power devices with extremely long battery life.

[MSP-EXP430G2 LaunchPad Kit](#) sold separately

Features

The Audio Capacitive Touch BoosterPack allows quick evaluation and simplified design of audio capacitive touch products and includes:

- BoosterPack board with ultra-low-power C5000 DSP for crystal clear playback and recording of MP3 audio and video files
- microSD card pre-programmed with the DSP function code -- MP3 playback, record and music storage (file storage)
- Mini-USB cable for connection with a computer to power up the system
- Stereo single-jack headset connector (supports stereo/mono headphones with built-in mic)
- Initial demo headset with integrated microphone
- MSP430G2553 Value Line Microcontroller pre-programmed with the ACTBP host demo application – this will replace the MSP430 on the separate LaunchPad (not included).
- Supported by a user interface for OLED display and MP3 playback/record application APIs
- Capacitive touch scroll wheel, proximity sensor and on-board LEDs
- Supported by a complete capacitive touch software library
- USB mass storage device capability for the microSD card with provided USB cable
- OLED display (monochrome, 96×16 pixels)
- Quick Start Guide included



430BOOST-C55AUDIO1 Kit



Code Composer Studio v5

World class, easy, affordable! Eclipse-based development and debug of embedded apps. Supports TI microcontrollers, ARM and/or DSP processors.

[more](#)

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Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status	Host	OS	Current Version	Version Date
430BOOST-C55AUDIO1: C5000™ Audio Capacitive Touch BoosterPack	\$35.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE	PC - USB	Win98/2000/XP	v1.0	27 MAR 2012

Contact a Distributor


TI's [Standard Terms and Conditions for Evaluation Modules](#) apply.

Technical Documents

More literature (4)

Title	Date	Type
Software Libraries Wiki -- In-depth technical and "how-to" articles, FAQs, etc.	24 Mar 2011	Wiki*
Audio Capacitive Touch BoosterPack C5535 Software	23 Mar 2012	Wiki*
Audio Capacitive Touch BoosterPack Hardware	23 Mar 2012	Wiki*
Audio Capacitive Touch BoosterPack Wiki	23 Mar 2012	Wiki*

More Literature (1)

Title	Abstract	Type	Size (KB)	Date	Views
 C5000™ Ultra-Low-Power DSP Audio Capacitive Touch BoosterPack		PDF	951	23 Mar 2012	772

Related Products

Software (3)

Name	Part Number	Software Type
Bootimg.bin for Audio Capacitive Touch BoosterPack	AUDIOCAPDSP-C55X	Application Software & Frameworks
C55x Connected Audio Framework	C55X-AUDIOFRAMEWORK	Application Software & Frameworks
LaunchPad Host Application for Audio Capacitive Touch Booster Pack	AUDIOCAHOST-MSP430	Application Software & Frameworks

Development Tools (1)

Name	Part Number	Tool Type
Code Composer Studio (CCS) Integrated Development Environment (IDE)	CCSTUDIO	SW Development Tools, IDEs, Compilers

Design Kits & Evaluation Modules (3)

Name	Part Number	Tool Type
C5535 eZdsp USB Stick Development Kit	TMDX5535EZDSP	Evaluation Modules & Boards
MSP430 LaunchPad Value Line Development kit	MSP-EXP430G2	Evaluation Modules & Boards
TMS320C5515 DSP Evaluation Module	TMDXEVM5515	Development Kits

Reference Designs (1)

Name	Part Number	Tool Type
MP3 Encoder/Decoder with capacitive touch interface, OLED display & SD card mass storage	TIDM-LPBP-TCHMP3PLAYER	TI Designs

TI Devices (4)

Part Number	Name	Product Family
TMS320C5532	Fixed-Point Digital Signal Processor	16-bit Fixed-point
TMS320C5533	Fixed-Point Digital Signal Processor	16-bit Fixed-point
TMS320C5534	Fixed-Point Digital Signal Processor	16-bit Fixed-point
TMS320C5535	Fixed-Point Digital Signal Processor	16-bit Fixed-point


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Videos

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Build Your Own BoosterPack (BYOB)


Ready to move beyond the breadboard? TI's Build Your Own BoosterPack (BYOB) process is a collection of resources to help you get started with building your own plug-in modules for the Texas Instruments

Posted: 09-Dec-2013
Duration: 01:22
Views: 12465
Tags: c2000, hardware, Prototyping, hercules, tiva c, ti, E2E, software, tilaunchpad, 430, energia, Texas Instruments, TIVA, MSP430, PCB, microcontrollers, iot, msp, MCU, Launch, boosterpack, English, projects, hercules™ arm® cortex™-r4f safety microcontrollers, portable power, tiva arm c series, msp430™ ultra-low power, portable power management,

Related Videos



Build Your Own BoosterPack (BYOB)




The TI LaunchPad Ecosystem

Support and Community

Wikis

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TI E2E™ community



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Engage in the Community

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- [C6000™ Power Optimized DSP](#)
- [C6000™ Multicore DSP](#)
- [DaVinci™ Video Processors](#)
- [OMAP™ Processors](#)
- [Embedded Software](#)
- [Development Tools](#)

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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