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# DEM-PCM2912AEVM Evaluation Module

(ACTIVE) DEM-PCM2912AEVM

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## Description

The DEM-PCM2912A EVM is a complete evaluation platform for the 16-bit, mono microphone input and stereo headphone output PCM2912A bus-powered audio codec with a USB interface. All necessary connectors and circuitry are provided for interfacing to audio test systems and commercial audio equipment.

A USB connector is mounted on the DEM-PCM2912A EVM. Stereo audio output and mono audio input are available on two stereo mini-jacks. The PCM2912A is an audio codec with a USB interface for a USB headset, USB headphones, and a USB audio interface box that integrates mono input, stereo headphone output, an analog loopback line, a programmable gain amplifier (PGA), and microphone bias. It is available in a 32-pin TQFP package.

The DEM-PCM2912A EVM also carries the Microsoft Windows® Logo License certification from the Microsoft Windows Hardware Quality Labs (WHQL). The DEM-PCM2912A has successfully passed the Microsoft WLP test (DTM Audio) for Windows Vista® x86/x64 platforms.

## Features

Major features of the PCM2912A include:

- Analog Front End: – Microphone amplifier (+20 dB gain) – Mono input
- Analog Back End: – Stereo/Mono headphone amplifier or line output with volume
- Analog Performance: – Dynamic range: 90 dB (DAC) – Dynamic range: 90 dB (ADC) – 25-mW headphone output at RL = 16 W
- Power-Supply Voltage – Single power supply of 5.0 V (VBUS)
- Low Power Dissipation: – 425 mW at analog-to-digital converter (ADC) and digital-to-analog converter (DAC) operation, 44.1 kHz – 0.8 mW in Suspend mode
- Sampling Frequency: 8 kHz, 11.025 kHz, 16 kHz, 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz for ADC and DAC
- Programmable Function: – –76-dB to 0-dB gain for analog outputs – –12-dB to +30-dB gain for analog inputs – –76-dB to 0-dB gain for sidetone – 0-dB/20-dB gain for microphone amplifier – High-pass filter: 0.078 f<sub>S</sub> cutoff frequency
- Package: 32-pin TQFP
- Operating Temperature Range: –25°C to +85°C 10

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DEM-PCM2912AEVM: DEM-PCM2912A Evaluation Module	In Stock <b>Typically Ships in 1 to 3 Business Days</b> <b>Buy from TI</b>	Pricing may vary. <b>Buy from distributor</b>	ACTIVE	Yes	Yes	Yes	NA	NA	NA	NA	NA	NA	No	No	No

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## Technical Documents

### Datasheet (1)

Title	Abstract	Type	Size (KB)	Date	Views
<a href="#">Audio Codec with USB Interface, Mono Microphone Input &amp; Stereo Headphone Output</a>		PDF	833	26 Sep 2008	

### Application Notes (2)

Title	Abstract	Type	Size (KB)	Date	Views
 <a href="#">Solving Enumeration Errors in USB Audio DAC and CODEC Designs</a>	<a href="#">Read Abstract</a>	PDF	157	30 Oct 2009	428
 <a href="#">Operating Environments for PCM2912A Applications</a>	<a href="#">Read Abstract</a>	PDF	43	02 Feb 2009	127

## User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
 <a href="#">PCM2912A User's Guide</a>		PDF	4657	22 Jan 2009	424

## Related Products

## TI Devices (1)


Part Number	Name	Product Family
<a href="#">PCM2912A</a>	Audio CODEC with USB Interface, Mono Microphone Input and Stereo Headphone Output	USB Audio

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<b><a href="#">SimpleLink™ Wi-Fi CC3100 and CC3200 Project 0 Series - 5 Part Series</a></b> Learn about using Software Tools for SimpleLink™ Wi-Fi CC3100 Boosterpack and CC3200 Launchpad	On-Line Training	On Demand
<b><a href="#">TI-RTOS Update</a></b> 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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