

ADS6142 Evaluation Module

{ACTIVE} ADS6142EVM

Description & Features

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Description

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The ADS6142EVM is a circuit board that allows designers to evaluate the performance of Texas Instruments' ADS6142 device, a low power 14-bit 65 MSPS analog to digital converter. The ADC features a configurable parallel DDR LVDS or CMOS outputs. The EVM provides a flexible environment to test the ADS6142 under a variety of clock, input and supply conditions.

The evaluation module also allows designers to use either a transformer coupled input into the ADC or an amplifier input based on the Texas Instruments' THS4509. While the ADC EVM comes with the THS4509, users can easily evaluate any of the footprint compatible ADC driving amplifiers such as the THS4508, THS4511, THS4520.

Features

- Transformer coupled analog input path
- Transformer coupled clock input path
- Amplifier path based on the THS4509
- Configurable parallel output modes
- Direct connection to TSW1100 High Speed ADC Capture Card
- Separate analog and digital supply connections

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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
ADS6142EVM: ADS6142 Evaluation Module	\$299.00[USD] In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE	No	No	Yes	NA	NA	NA	NA	NA	NA	No	No	No
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Technical Documents

Application Notes (2)

Title	Abstract	Type	Size (KB)	Date	Views
 CDCE72010 as a Clocking Solution for High-Speed Analog-to-Digital Converters	Read Abstract	PDF	424	08 Jun 2008	531
 Phase Noise Performance and Jitter Cleaning Ability of CDCE72010	Read Abstract	PDF	2261	02 Jun 2008	388

Related Products

Software (2)

-  [TIGAR \(Texas Instruments Graphical Evaluation of ADC Response Tool\) \(Rev. B\)](#)
(ZIP, 3547 KB) 229 views, 23 Apr 2013
-  [TIGAR Support Files](#)
(ZIP, 262219 KB) 161 views, 20 Mar 2013

Design Kits & Evaluation Modules (5)

Name	Part Number	Tool Type
High Speed ADC to FMC (Xilinx) Header Adapter Card	FMC-ADC-ADAPTER	Evaluation Modules & Boards
High Speed ADC to HSMC (Altera) Header Adaptor Card	HSMC-ADC-BRIDGE	Evaluation Modules & Boards
High Speed Data Capture and Pattern Generation Platform	TSW1400EVM	Evaluation Modules & Boards

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TI Devices (5)

Part Number	Name	Product Family
ADS6122	Low Power 12-bit 65MSPS ADC with selectable parallel CMOS or LVDS outputs	Analog to Digital Converter
ADS6142	Low Power 14-bit 65MSPS ADC with selectable parallel CMOS or LVDS outputs	Analog to Digital Converter
ADS6142-HT	High Temp 14-bit 65MSPS ADC with selectable parallel CMOS or LVDS outputs	Analog to Digital Converter

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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

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