



ADUC845: PRECISION ANALOG MICROCONTROLLER: 12MIPS 8052 FLASH MCU + 10-CH 24-BIT ADC + 12-BIT DAC

The ADuC845 MicroConverter is a fully integrated Dual 24-bit, Multi-Channel Sigma-Delta ADC and Flash microcontroller on a single chip. This device is a multi-channel extension of ADI's popular ADuC844 and ADuC846 MicroConverter family and is optimized for applications in industrial control, smart sensors, loadcells and instrumentation that require precision acquisition of multiple (up to 10) [More](#)

DATA SHEET

Download Data Sheet Rev D, (2/2005) (of 190KB)
Additional Data Sheets (About Data Sheets)

Get Samples and Pricing

Read Quality and Reliability Info

View Lead(Pb)-Free Data

FEATURES

- Dual 24-Bit, Precision Sigma-Delta ADCs
- 10-Channel Single-Ended Input or 5-Channel Differential Input Options
- Buffered Programmable Gain, Self-Calibrating, 24-Bit Primary ADC
- Self-Calibrating, 24-Bit Auxiliary ADC
- Two Independent, Differential Reference Inputs Options
- On-Chip, Burn-out and Excitation Current Options
- Single 12-Bit Rail-to-Rail Voltage-Output DAC
- Precision Temperature Sensor
- Two Flexible PWM Outputs
- Single Cycle 8052 Core to 62K-Byte In-Circuit Re-Programmable
- 4K-Byte Read/Write Accessible

RESOURCES & TOOLS What is your task? Try Lead The Way Advisor™

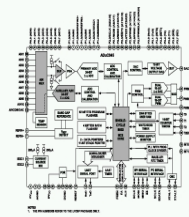
TECHNICAL DOCUMENTATION

- Analog Dialogue
- Application Notes
- Overview
- Product Reviews
- Rarely Asked Questions
- Solutions Bulletins
- Technical Articles
- Technical Documentation
- User Guides

EVALUATION BOARDS & DEVELOPMENT KITS

TOOLS, SOFTWARE & SIMULATION MODELS

FUNCTIONAL BLOCK DIAGRAM FOR ADUC845



Other Diagrams | Symbols and Footprints [Enlarge](#)

OF NOTE ...

Accutron no longer provides development tools for the ADuC8xx products.
[read more ...](#)

For additional technical information, please email the MicroConverter Development Group and supply your name, company, mailing address, telephone/fax numbers, and email address, and a brief description of your application.

QuickStart™ Development Tools for MicroConverter® Products
Development tools and systems for ARM7TDMI and 8052 Precision based Precision Analog Microcontrollers.

USB-EA-CONVZ, USB-based emulation pod. See UG-041 user guide for further details.

PRICING, PACKAGING & AVAILABILITY

[Print Table](#)

ADUC845 MODEL OPTIONS

Model	Status	Package	Pins	Temp. Range	Price* (1000 pcs)	Production** Availability	ROHS Compliant	View PCN	Samples Cart	Purchase Cart
ADUC845BCP62-3	Prodn	56 id LFCSP (8x8mm)	56	Ind	\$12.34	01/08/2010	N Material Declaration	-	Add To Cart	Add To Cart
ADUC845BCP62-5	Prodn	56 id LFCSP (8x8mm)	56	Ind	\$12.34	03/05/2010	N Material Declaration	-	Add To Cart	Add To Cart
ADUC845BCP8-3	Prodn	56 id LFCSP (8x8mm)	56	Ind	\$9.04	01/08/2010	N Material Declaration	-	Contact ADI	Add To Cart
ADUC845BCP262-3	Prodn	56 id LFCSP (8x8mm)	56	Ind	\$12.34	01/08/2010	Y Material Declaration	-	Add To Cart	Add To Cart
ADUC845BCP262-5	Prodn	56 id LFCSP (8x8mm)	56	Ind	\$12.34	01/22/2010	Y Material Declaration	-	Add To Cart	Add To Cart
ADUC845BCP28-3	Prodn	56 id LFCSP (8x8mm)	56	Ind	\$9.04	-	Y Material Declaration	-	Contact ADI	Add To Cart
ADUC845BCP28-5	Prodn	56 id LFCSP (8x8mm)	56	Ind	\$9.04	-	Y Material Declaration	-	Contact ADI	Add To Cart
ADUC845BSZ62-3	Prodn	52 id MQFP (13.90mm width)	52	Ind	\$12.34	01/08/2010	Y Material Declaration	View PCN	Add To Cart	Add To Cart
ADUC845BSZ62-5	Prodn	52 id MQFP (13.90mm width)	52	Ind	\$12.34	03/19/2010	Y Material Declaration	View PCN	Add To Cart	Add To Cart
ADUC845BSZ8-3	Prodn	52 id MQFP (13.90mm width)	52	Ind	\$9.04	01/08/2010	Y Material Declaration	View PCN	Contact ADI	Add To Cart
ADUC845BSZ8-5	Prodn	52 id MQFP (13.90mm width)	52	Ind	\$9.04	01/15/2010	Y Material Declaration	View PCN	Contact ADI	Add To Cart
EVAL-ADUC-CABLE1Z	Prodn	EVALUATION BOARDS	-	TBD	\$15.18	01/08/2010	Y	-	Contact ADI	Add To Cart
EVAL-ADUC84508PZ	Prodn	EVALUATION BOARDS	-	TBD	\$150.90	01/08/2010	Y	-	Contact ADI	Add To Cart
EVAL-ADUC84506Z	Prodn	EVALUATION BOARDS	-	TBD	\$75.90	01/08/2010	Y	-	Contact ADI	Add To Cart

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*The USA list pricing shown is for BUDGETARY USE ONLY, shown in United States dollars (FOB USA per unit for the stated volume), and is subject to change. International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.
**Sample availability may be better than production availability. Please enter samples into your cart to check sample availability.

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