

ADSP-21375 EZ-KIT Lite for the ADSP-2137x SHARC Processors

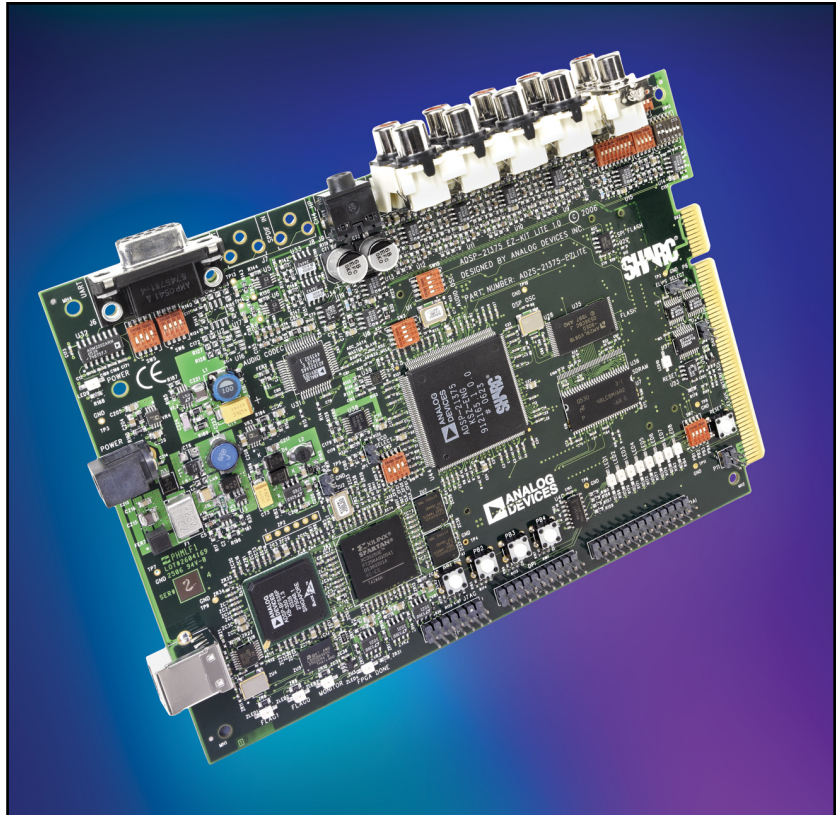
Key Features

SHARC Processors offer features attractive to a broad application base

- ADSP-21375 SHARC Processor
- 8 Mb × 16-bit SDRAM (167 MHz)
- 1 Mb × 8-bit flash memory
- 2 Mb SPI® flash
- AD1835 codec
- ADM3202 RS-232 line driver/receiver
- ADSP-BF535/FPGA-based JTAG debug interface agent
- 13 LEDs
- 5 push-buttons
- Parallel port, SDRAM control, flags, DAI, DPI
- ELVIS interface
- CE-compliant
- RoHS-compliant
- Evaluation suite of VisualDSP++

System Requirements

- Windows® XP or 2000
- Intel® Pentium® processor (or compatible), 500 MHz or faster
- 512 MB RAM
- 1 available USB connector
- 1 available PCI connector



Overview

The ADSP-21375 EZ-KIT Lite® provides developers with a cost-effective method for initial evaluation of the ADSP-2137x SHARC® Processors via a USB-based, PC-hosted tool set. EZ-KIT Lite users can learn more about Analog Devices' (ADI) ADSP-21375 hardware and software development and quickly prototype a wide range of applications.

The EZ-KIT Lite includes an ADSP-21375 SHARC Processor desktop evaluation board along with an evaluation suite of the VisualDSP++® development and debugging environment, including the C/C++ compiler, assembler, and linker. The evaluation suite of VisualDSP++ is designed to be used with EZ-KIT Lites only.



The EZ-KIT Lite, in addition to the high performing SHARC Processor itself, includes additional components to support evaluation. Flash memories, SDRAM, an RS-232 UART connection, a high end AD1835 multichannel audio codec with RCA connectors, push-buttons, and LEDs are included. Debug connectivity between the EZ-KIT Lite and the host PC is realized with an on-board USB debug agent connection. The capability of the EZ-KIT Lite can be further extended with add-on extender cards from ADI. For example, the USB EZ-Extender® can be used to add USB 2.0 client functionality to your application.

Additionally, the ADSP-21375 EZ-KIT Lite contains the National Instruments (NI) Educational Laboratory Virtual Instrumentation Suite (ELVIS) interface. This interface allows use of the dc voltage and current measurement modules, oscilloscope and bode analyzer modules, function generators, arbitrary waveform generators, and digital I/O. NI ELVIS is a LabVIEW™-based design and prototype environment for university science and engineering laboratories' curricula. For more details, go to www.ni.com.

CROSSCORE Development Tools

The ADSP-21375 EZ-KIT Lite is a part of the ADI CROSSCORE® development tools product line, which is composed of a comprehensive set of development tools providing engineers with easier and more robust methods for developing and optimizing systems.

The CROSSCORE components include:

- VisualDSP++ development and debugging environment
- EZ-KIT Lite evaluation kits
- EZ-Extender daughterboards
- USB emulators

The easy to use VisualDSP++ integrated development environment speeds development, debugging, and deployment while shrinking product development cycles and improving time to market. The EZ-KIT Lite evaluation kits provide an easy way to investigate the performance of the ADI family of embedded processors and DSPs. EZ-Extender daughterboards give developers access and ability to connect various peripherals from ADI and third parties to the expansion interface of the EZ-KIT Lite evaluation kits. USB emulators are available for rapid on-chip debugging.

Embedded Processors and DSPs

Analog Devices is a leading supplier of digital signal processing solutions, from the high performance Blackfin® Processors, TigerSHARC® Processors, and SHARC Processors to integrated mixed-signal DSPs for an increasing spectrum of applications. ADI's advances in design provide faster processing, more memory, lower power consumption, and simplified system integration. Analog Devices gives you a competitive edge by providing a complete solution, including expert technical support, comprehensive development tools, and an independent network of third-party developers called The Collaborative.™ For more information about ADI processors and DSPs, visit www.analog.com/processors.

CROSSCORE Tools Support

Telephone: 1.800.ANALOGLD

Web: www.analog.com/processors/support

Analog Devices is committed to providing high quality, timely, accurate, and free technical support and software upgrades.

Ordering Information

Please call your local ADI sales representative or distributor for pricing and ordering information for part number: ADZS-21375-EZLITE.

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