

EZ-KIT Lite for Analog Devices ADSP-BF533 Blackfin Processor

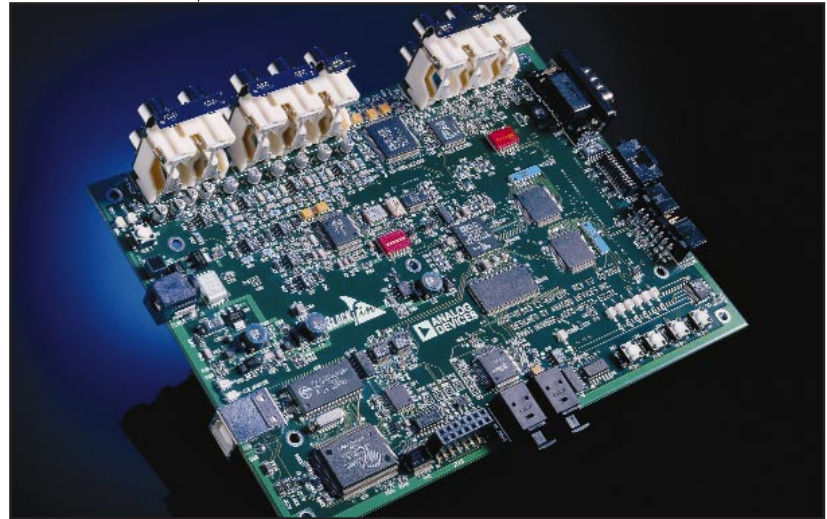
Key Features

Attributes

- ADSP-BF533 Blackfin Processor
- 32 MB (16M x 16-bit) SDRAM
- 2 MB (512K x 16-bit x 2) FLASH memory
- AD1836 96 kHz audio codec w/4 input and 6 output RCA jacks
- ADV7183 video decoder w/3 input RCA jacks
- ADV7171 video encoder w/3 output RCA jacks
- ADM3202 RS-232 line driver/receiver
- DB9 male connector
- USB-based debugger interface
- JTAG ICE 14-pin header
- SPORT0 connector
- Background Telemetry Channel
- Evaluation suite of VisualDSP++
- 10 LEDs: 1 power, 1 board reset, 1 USB reset, 1 USB monitor, 6 general purpose
- 5 push buttons w/debounce logic: 1 reset, 4 programmable flag
- Three 90-pin connectors providing PPI, SPI, EBIU Timers0-2, UART, Programmable Flags, SPORT0, and SPORT1 expansion interfaces for analyzing and interfacing
- CE Certified

System Requirements

- Pentium® 166 MHz or higher
- Minimum of 32 MB of RAM
- Windows® 98, Windows 2000, or Windows XP
- One USB port



Overview

The ADSP-BF533 EZ-KIT Lite® provides developers with a cost-effective method for initial evaluation of the ADSP-BF533 Blackfin® Processor for a wide range of applications including audio and video processing. The EZ-KIT Lite includes an ADSP-BF533 desktop evaluation board and fundamental debugging software to facilitate architecture evaluations via a USB-based PC-hosted tool set. Real-time debugging is made possible via the Background Telemetry Channel (BTC) feature. Through BTC, data can be streamed both to and from the processor over the JTAG connection between host and embedded processor without the overhead involved with halting the target application, getting the desired information, and then restarting the target application. With this EZ-KIT Lite, users can learn more about ADI's ADSP-BF533 hardware and software development and prototype applications. The ADSP-BF533 EZ-KIT Lite provides an evaluation suite of the VisualDSP++™ integrated development and debugging environment with C/C++ compiler, advanced plotting tools, statistical profiling, VisualDSP++ Component Software Engineering (VCSE), and the VisualDSP++ Kernel (VDK). Other features of VisualDSP++ include; assembler, linker, libraries, and splitter. VisualDSP++ offers programmers a powerful programming tool with flexibility that significantly reduces the time-to-market. The VisualDSP++ software included with the EZ-KIT Lite is limited in program memory size for use solely with the EZ-KIT Lite product.

The separately available Analog Devices ADSP-BF533 EZ-Extender daughter board allows a number of Analog Devices High-Speed Converter (HSC) evaluation boards and the OV6630 OmniVision camera evaluation board to interface with the ADSP-BF533 EZ-KIT Lite.

Analog Devices' CROSSCORE Tools

CROSSCORE®, Analog Devices' development tools product line, provides easier and more robust methods for engineers to develop and optimize systems by shortening product development cycles for faster time-to-market.

The CROSSCORE components include the VisualDSP++ software development environment, EZ-KIT Lite evaluation systems, and emulators for rapid on-chip debugging. VisualDSP++ is an integrated software development and debugging environment allowing for fast and easy development, debug, and deployment. Emulators are available for PCI and USB host platforms. The EZ-KIT Lite evaluation system provides an easy way to investigate the power of the ADI's family of Embedded Processors and DSPs to develop applications.

Analog Devices is committed to continuous expansion of leading-edge development solutions for design engineers everywhere.

For more information on the tools product line visit the Analog Devices website:
www.analog.com/processors/tools.

Embedded Processors and DSPs

Analog Devices is a leading supplier of digital signal processing solutions, from the low power ADSP-21xx DSP Families, to the high-performance Blackfin® Processors, TigerSHARC® Processors, and SHARC® DSPs, to integrated mixed-signal DSPs for an increasing spectrum of applications. Our advances in design provide faster processing, more memory, lower power consumption, and simplified system integration. ADI 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 DSP Collaborative™. For more information about ADI processors and DSPs, visit www.analog.com/processors.

CROSSCORE Tools Support

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Ordering Information

Please call Analog Devices CROSSCORE Tools at 603/883-2430, your local ADI sales representative or distributor for pricing and ordering information for part number: **ADDS-BF533-EZLITE**.

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