

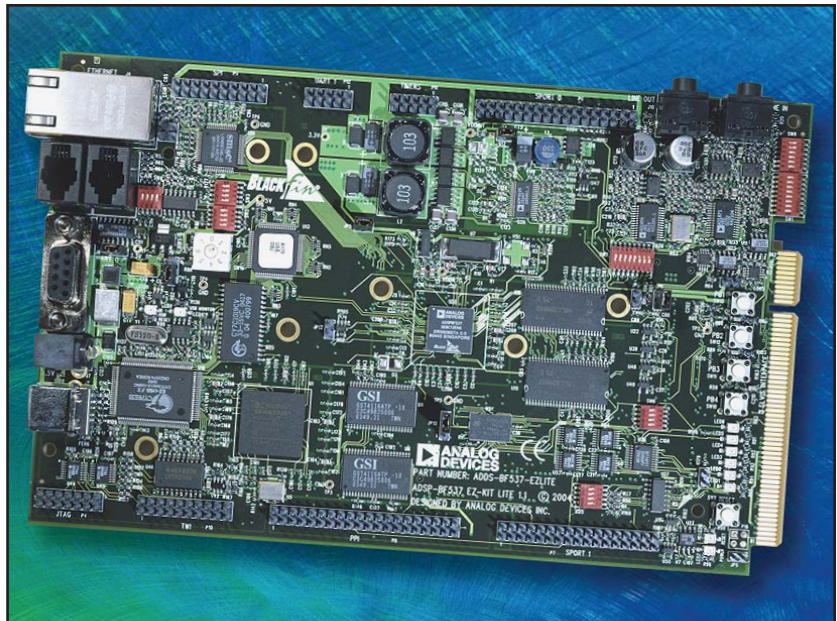
# EZ-KIT Lite for Analog Devices ADSP-BF537 Blackfin Processor

## Key Features

- ADSP-BF537 Blackfin Processor
- Max core clock rate 600 MHz
- 64 MB (32 M x 16) SDRAM
- 4 MB (2 M x 16) flash memory
- SMSC LAN83C185 10/100 PHY with RJ45 connector
- CAN TJA1041 transceiver with two modular connectors
- AD1871 96 kHz stereo DAC with 3.5 mm jack connector
- AD1854 96 kHz stereo ADC with 3.5 mm jack connector
- RS-232 UART line driver/receiver
- National Instruments Educational Laboratory Virtual Instrumentation Suite (NI ELVIS) interface
- Advanced USB-based debugger interface
- JTAG ICE 14-pin header
- Evaluation suite of VisualDSP++ development tools
- Flash utility for writing application boot code and data to flash
- Six general-purpose LEDs, four general-purpose push-buttons
- Expansion Board Interface Cluster for evaluating and interfacing with the processor's peripheral interfaces
- Discrete IDC Expansion ports for all processor peripherals
- CE-certified

## System Requirements

- Pentium® 500 MHz or higher
- Minimum of 256 megabytes of RAM
- Windows® 2000 or Windows XP
- One available USB connector
- 750 megabytes disk space



## Overview

The ADSP-BF537 EZ-KIT Lite® provides developers with a cost-effective method for evaluation of the ADSP-BF537 Blackfin® Processor and its rich set of system peripherals, including the IEEE 802.3 10/100 Ethernet MAC and CAN 2.0B controller. A TCP/IP stack with integrated device driver and example code is provided in VisualDSP++® release 4.0. This evaluation kit was designed with an emphasis on modularity and expandability. With this EZ-KIT Lite, users can learn more about Analog Devices ADSP-BF537 hardware and software development and quickly prototype applications.

The EZ-KIT Lite includes an ADSP-BF537 processor desktop evaluation board along with an evaluation suite of the VisualDSP++ development and debugging environment that is comprised of a C/C++ compiler, assembler, and linker. The kit also contains sample processor application programs, CE-approved power supply, a USB cable, both straight through and crossover Ethernet cables, a 3.5 mm male/male stereo cable, and a pair of stereo headphones.

Additionally, the ADSP-BF537 EZ-KIT Lite contains the National Instruments Educational Laboratory Virtual Instrumentation Suite (ELVIS) interface. This interface will allow using the oscilloscope, function generator, arbitrary waveform generator, DC voltage and current measurement modules, and digital I/O. NI ELVIS is a LabVIEW™-based design and prototype environment for university science and engineering laboratory curriculums. For more details, go to [www.ni.com](http://www.ni.com).



[www.analog.com/processors/tools](http://www.analog.com/processors/tools)

The VisualDSP++ development and debugging environment, along with the advanced on-board USB-based Debug Agent interface that operates up to 12 Mb/second, enables users to perform standard debugging functions (such as read and write memory, read and write registers, load and execute executables, set and clear breakpoints, and single-step assembly, C, and C++ source code). The evaluation versions of the included software tools are limited to use with the EZ-KIT Lite. For faster and unrestricted debugging, a family of JTAG emulators and full versions of VisualDSP++ are available separately from Analog Devices.

Analog Devices has EZ-Extender™ products (sold separately) that plug into the Expansion Interface of the ADSP-BF537 EZ-KIT Lite for additional functionality. The Blackfin EZ-Extender daughter board allows developers to connect to a number of Analog Devices High Speed Converter (HSC) evaluation boards, the OV6630 OmniVision camera evaluation board, and an external LCD display. The Blackfin USB-LAN EZ-Extender™ daughter board contains a USB 2.0 interface and 10/100 Ethernet MAC. The Blackfin A-V EZ-Extender™ daughter board contains advanced audio and video circuitry, as well as connectors allowing connection to three camera sensor evaluation boards (Kodak, Micron, and OmniVision) and a Flat Panel Display (FPD) module.

### CROSSCORE Development Tools

The ADSP-BF537 EZ-KIT Lite is part of the Analog Devices CROSSCORE® 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 daughter boards
- 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 Analog Devices family of embedded processors and DSPs. EZ-Extender daughter boards give developers access and ability to connect various peripherals from Analog Devices and third parties to the expansion interface of the EZ-KIT Lite evaluation kits. Emulators are available for both PCI and USB host platforms for rapid on-chip debugging. Analog Devices is committed to continuous expansion of leading-edge development solutions for design engineers everywhere.

### Embedded Processors and DSPs

Analog Devices is a leading supplier of embedded and digital signal processing solutions, from high performance Blackfin and TigerSHARC® Processors, and from the low cost SHARC® Processors to integrated mixed-signal DSPs that are ideal for an ever-increasing spectrum of applications. Analog Devices advances in design provide faster processing, more memory, lower power consumption, and simplified system integration. Analog Devices products and technology provide a competitive edge, complete with expert technical support, comprehensive development tools, and the DSP Collaborative™, an independent network of third-party developers. For more information about Analog Devices processors and DSPs, visit [www.analog.com/processors](http://www.analog.com/processors).

### CROSSCORE Tools Support

Tel: 1-800-ANALOGD  
Email: [dsptools@analog.com](mailto:dsptools@analog.com)  
Web: [www.analog.com/processors/tools](http://www.analog.com/processors/tools)

### Ordering Information

Please call Analog Devices CROSSCORE Tools at 603-883-2430 or your local ADI sales representative or distributor for pricing and ordering information for part number: ADDS-BF537-EZLITE.

### Embedded Processing Support

[www.analog.com/processors](http://www.analog.com/processors)  
Email (in the U.S.A.): [embedded.support@analog.com](mailto:embedded.support@analog.com)  
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Fax (in the U.S.A.): 781.461.3010  
Fax (in Europe): 49.89.76903.157

### Worldwide Headquarters

Analog Devices, Inc.  
One Technology Way  
P.O. Box 9106  
Norwood, MA 02062-9106  
U.S.A.

Tel: 781.329.4700  
Fax: 781.326.8703  
Toll-free: 800.262.5643 (U.S.A. only)

### Analog Devices, Inc. Europe

c/o Analog Devices SA  
17-19, rue Georges Besse  
Parc de Haute  
Technologie d'Antony  
F-92182  
Antony Cedex, France

Tel: 33.1.46.74.45.00  
Fax: 33.1.46.74.45.01

### Japan Headquarters

Analog Devices, Inc.  
New Pier Takeshiba  
South Tower Building  
1-16-1 Kaigan,  
Minato-ku, Tokyo  
105-6891, Japan

Tel: 813.5402.8210  
Fax: 813.5402.1063

### Southeast Asian Headquarters

Analog Devices, Inc.  
39/F One Pacific Place  
88 Queensway  
Admiralty,  
Hong Kong, PRC

Tel: 852.2506.9336  
Fax: 852.2506.4755



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