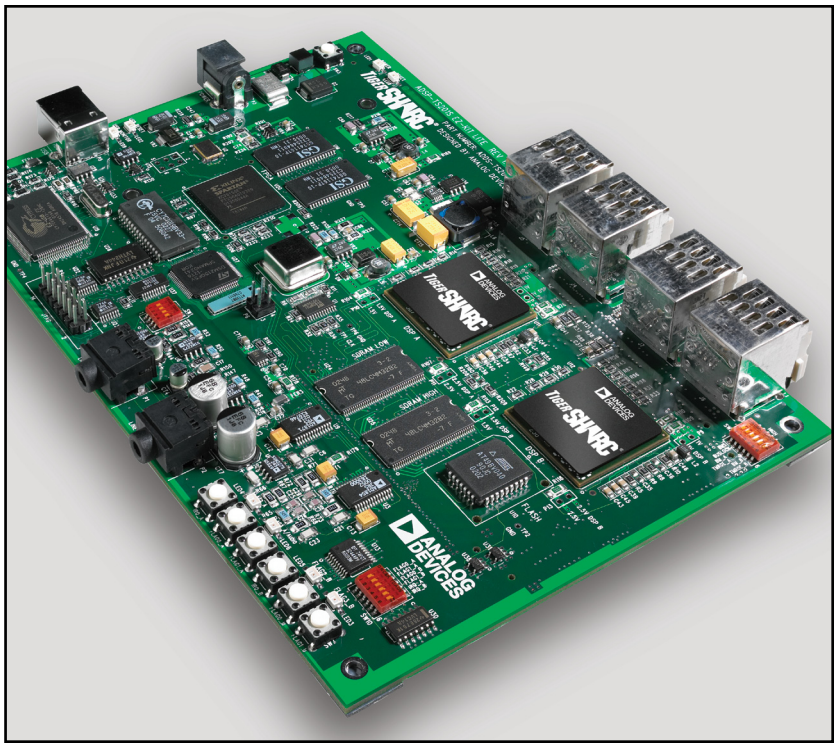
ADSP-TS201S EZ-KIT Lite Evaluation Kit for the TigerSHARC Processor

Key Features

- Dual ADSP-TS201S TigerSHARC Processors
- 4 MB (512k × 8-bit) flash memory
- 32 MB (4M × 64-bit) SDRAM
- AD1871, stereo audio, 24-bit, 96 kHz, multibit, ∑–Δ ADC
- AD1854, stereo audio, 24-bit, 96 kHz, multibit, ∑–Δ DAC
- Two 1/8 inch stereo audio jacks
- Four external LVDS link port connectors (one transmit and one receive per processor)
- USB serial interface and connector
- JTAG ICE 14-pin header
- Evaluation suite of VisualDSP++ development tools
- Flash utility for downloading boot code to on-board flash memory
- Three 90-pin expansion interface connectors for analyzing and interfacing with the processors' external cluster bus
- Seven LEDs: one power, one board reset, one USB activity, four flag-outs
- Seven push-buttons: one reset, two interrupt, four flag-ins
- Desktop standalone operation
- CE compliant

System Requirements

- Intel® Pentium® 166 MHz or higher
- 32 MB RAM minimum
- Microsoft® Windows® 98/2000/XP
- One available USB connector



Overview

The ADSP-TS201S EZ-KIT Lite® provides developers with a cost-effective method for initial evaluation of the ADSP-TS201S TigerSHARC® Processor and its multiprocessing capabilities. The EZ-KIT Lite includes two ADSP-TS201S TigerSHARC Processors on a desktop evaluation board along with fundamental debugging software to facilitate architecture evaluations via a USB-based, PC-hosted tool set. With EZ-KIT Lite, users can learn more about the Analog Devices ADSP-TS201S hardware and software development environments and quickly prototype applications.

The EZ-KIT Lite provides an evaluation suite of the VisualDSP++® development and debugging environment, including a C/C++ compiler, assembler, and linker.

The VisualDSP++ software debug agent communicates with the board via the USB interface to perform standard debugging functions:

- Read and write memory
- Read and write registers
- Load and execute executables
- Set and clear breakpoints
- Single-step assembly of C and C++ source code
- Other multiprocessor functions, including synchronous step, run, and halt

The EZ-KIT Lite can be used as a standalone unit without a PC host by using the EPROM's default boot mode. The board can boot from an external host, port interface connector, link port, or no boot, depending on jumper selections. Using the kit's on-board flash memory and the USB interface, developers can download user-specific boot code.

Software tools are designed to work with the EZ-KIT Lite only.

CROSSCORE® Tools

The 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++ software development and debugging environment
- EZ-KIT Lite evaluation systems
- Emulators

The easy to use VisualDSP++ integrated software development environment speeds development, debugging, and deployment while shrinking product development cycles and speeding 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 digital signal processing solutions, from high performance Blackfin® Processors, TigerSHARC Processors, and SHARC® Processors to integrated mixed-signal processors that are ideal for an ever increasing spectrum of applications. ADI's advances in design provide faster processing, more memory, lower power consumption, and simplified system integration. ADI products and technology provide a competitive edge, complete with expert technical support, comprehensive development tools, and The Collaborative™, an independent network of third-party developers.

Information and Support

CROSSCORE Tools

Tel: 1-800-ANALOGD
Web: *www.analog.com/processors/tools*

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

Ordering Information

Please contact your local ADI sales representative or distributor for pricing and ordering information for part number ADDS-TS201S-EZLITE.

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