



EVAL-21469-EZLITE

The ADSP-21469 EZ-Kit Lite evaluation hardware provides a low-cost hardware solution for evaluating the ADSP-21467 and ADSP-21469 SHARC processor ...

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Overview

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**Evaluation
Kit Manuals**
Rev.1.1

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**Board Design
Database**
Rev.2.0

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Features

- **ADSP-21469:** 176-pin LQFP package, 25 MHz CLKIN oscillator
- Flash Memory: 4 M x 8-bit, Numonyx
- SDRAM Memory: 16Mb x16 bit, Micron MT48LC16M16A2P-6A
- Asynch SRAM: 1M x16 bit, ISSI IS61WV102416BLL-10TLI
- SPI Memory: 16 Mbit
- Analog Audio: AD1939 Codec
- SPDIF: RCA phone jacks
- Temp Sensor: **ADM1032** Two Wire Sensor
- UART: **ADM3202** RS-232 line driver/receiver

Applicable Parts

- [ADSP-21469](#)
- [ADSP-21467](#)

Package Contents

EZ-Board Package Contents

- ADSP-21469 EZ-Board
- Universal 5.0V DC power supply
- 3.5 mm stereo headphones
- 6-foot RCA audio cable
- 6-foot 3.5 mm/RCA x 2 Y-cable
- 3.5 mm stereo female to RCA male Y-cable

EZ-KIT Package Contents

- ADSP-21469 EZ-Board
- [Standalone debug agent \(SADA2\)](#)
- USB cable
- Universal 5.0V DC power supply
- 3.5 mm stereo headphones
- 6-foot RCA audio cable
- 6-foot 3.5 mm/RCA x 2 Y-cable
- 3.5 mm stereo female to RCA

Product Details

The ADSP-21469 EZ-KIT Lite® provides developers with a cost-effective method for initial evaluation of the ADSP-2146x SHARC® Processors via a USB-based, PC-hosted tool set. With this EZ-KIT Lite, users can learn more about the Analog Devices (ADI) ADSP-21469 hardware and software development, and quickly prototype a wide range of applications.

The EZ-KIT Lite includes an ADSP-21469 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 the EZ-KIT Lite only.

The EZ-KIT Lite also comes with a standalone debug agent board that is removable to... [Show More..](#)

System Requirements

This EZKIT is supported by both the CrossCore® Embedded Studio and VisualDSP++ development environments.

Please download the [CrossCore® Embedded Studio Release Notes](#) or the [VisualDSP++ Release Notes](#) for the latest information about System Requirements.

CrossCore Embedded Studio

Minimum hardware requirements for the installation:

- 2 GHz single core processor; 3.3GHz dual core or better recommended
- 4 GB RAM; 8GB or more recommended
- 2 GB available disk space
- One open USB port

Supported Operating Systems:

- Windows 7 Professional, Enterprise, or Ultimate (32 and 64-bit)
- Windows 8.1 Pro or Enterprise (32 and 64-bit)
- Windows 10 Pro or Enterprise (32 and 64-bit)
- Ubuntu 14.04 (32-bit)

VisualDSP++

Minimum hardware requirements for the installation:

- 2 GHz single core processor; 3.3GHz dual core or better recommended
- 1 GB RAM; 4GB or more recommended
- 2 GB available disk space
- One open USB port

Supported Operating Systems:

- Windows XP Professional SP3 (32-bit only)
- Windows Vista Business, Enterprise, or Ultimate SP2 (32-bit only)
- Windows 7 Professional, Enterprise, or Ultimate (32 and 64-bit)
- Windows 8 Pro or Enterprise (32 and 64-bit)

Documentation

[2 See All](#)[1 Evaluation Kit Manuals](#)[1 Board Design Database](#)

ADSP-21469 EZ-KIT Lite® Evaluation System Manual (Rev. 1.1)

[PDF](#)

916 kB

ADSP-21469 EZ-Board Design Database (Rev. 2.0)

Contains all of the electronic information required for the design, layout, fabrication and assembly of the ADSP-21469 EZ-Board.

Software

18 See All

1 Software Modules

1 DSP Software

1 Design Tools

2 Software Development Tools

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SHARC Software Modules

ADSP-21469 Board Support Package - Download Software (Rev. 1.0.0)

[Download Software](#)

[Download Release Notes](#)

SHARC Processors Software and Tools

CrossCore Embedded Studio

CrossCore® Embedded Studio is a world-class integrated development environment (IDE) for the Analog Devices Blackfin®, SHARC® and ARM™ processor families.

SigmaStudio for SHARC

SigmaStudio™ for SHARC is a programming, development, and tuning software environment that allows an audio designer to graphically design and program audio applications utilizing an extensive set of pre-built audio algorithms.

SRS TruVolume, SHARC

The SRS TruVolume® library for the SHARC processor implements automatic volume-control post-processing that adjusts the amplitude of a stereo audio signal to maintain a constant perceived level of loudness in spite of level changes in the input audio material.

DTS 5.1 Decoder, SHARC

The Digital Theatre Systems (DTS) Decoder library for the SHARC processor implements a DTS decoder, which is compliant with DTS 5.1 specification.

DTS Surround Decoder, SHARC

The Digital Theatre Systems (DTS) Surround Sensation Decoder library for the SHARC processor is an audio post-processing module that delivers an enhanced stereo experience from a multi-channel surround source.

DTS UpMix Decoder, SHARC

The Digital Theatre Systems (DTS) Neural Upmix Decoder library for the SHARC processor supports output of 5.1 or 7.1 multi-channel surround sound from stereo (227 mode) or 5.1 (527 mode) source material.

DTS Neural (AC-3) 5.1 Decoder, SHARC

The ADI Dolby® Digital (AC-3) 5.1 decoder library for the SHARC processor implements a Dolby Digital Consumer Decoder (DDCD), compliant with the Advanced Television Systems Committee (ATSC) AC-3 standard.

Dolby Virtual Speaker, SHARC

The Dolby Virtual Speaker library for the SHARC processor is a proprietary algorithm from Dolby Laboratories intended for creating 5.1 realistic surround sound effects with as few as two speakers.

DTS Neo:X Decoder, SHARC

The Digital Theatre Systems (DTS) Neo:X Decoder library for the SHARC processor operates on PCM data received either through analog or digital input channels or from a decoder module such as DTS 5.1 decoder.

MPEG-4 HE-AAC v2 Decoder, SHARC

The MPEG-4 HE-AAC v2 decoder library (with DAB and DRM support) for the SHARC processor implements a combination of Advanced Audio Coding (AAC), Spectral Band Replication (SBR) and Parametric Stereo (PS), standardized as the High-Efficiency v2 profile in MPEG-4 (HE AAC v2).

DTS Boost Decoder, SHARC

The Digital Theatre Systems (DTS) Neo:X Decoder library for the SHARC processor is an audio post-processing module that maximizes the perceived loudness for a stereo source without cause audible distortion.

DTS Enhance Decoder, SHARC

The Digital Theatre Systems (DTS) Enhance Decoder library for the SHARC processor dynamically equalizes stereo audio to give improved brightness at all volume levels.

Dolby Pro Logic IIz Decoder, SHARC

The Dolby Pro Logic IIz Decoder library for the SHARC processor is an extension of Dolby Pro Logic IIx that provides two additional “front height” output channels.

Dolby Pro Logic IIx Decoder, SHARC

The Dolby Pro Logic IIx library for the SHARC processor is a proprietary algorithm from Dolby Laboratories intended for extending stereo or 5.1-channel audio to 6.1 or 7.1 channels.

Dirac Dimensions, SHARC

The Dirac Dimensions library for the SHARC processor implements an audio post-processing module specified by Dirac Research for the purpose of delivering premium automotive surround sound.

Related Hardware



Emulator Hardware

EMULATOR-USB & HP USB ICE

USB-Based Emulator and High Performance USB-Based Emulator



Buy



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