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# EVAL-2148X-EZKIT

21489 EZ-Board for the ADSP-2148x  
SHARC Family



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## Features

- [ADSP-21489](#): 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
- Power Supply: 5V @ 3.6 Amps
- LEDs: 11 LEDs: 1 power (green), 1 board reset (red), 1 temperature limit (amber), and 8 general purpose (amber)
- Push Buttons: (5) push buttons: (1) reset, (2) connected to DAI, (2). IRQ/Flag
- SHARC Expansion Interface II: AMI, Flags/IRQs, DAI, DPI, PWR\_IN, 3.3V, GND
- Other Features: Standalone Debug Agent Interface, WDT (Watch Dog Timer) system reset implementation, MP JTAG IN and OUT Connectors, 0-ohm resistors for DSP current measurement, CE compliant

Feedback

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## Product Details

The SHARC® 21489 EZ-Board™ evaluation board provides developers with a low-cost platform for initial evaluation of the 2148x SHARC processors via an external JTAG emulator or standalone debug agent board.

Note: To debug you must have a Debug Agent Board or Emulator. The EZ-Board has an expansion interface that allows for modularity with different EZ-Extender boards

### Ordering Information:

Part number: ADZS-21489-EZBRD an external JTAG emulator or standalone debug agent board.

### CROSSCORE® Tools Support:

Tel: 1-800-ANALOGD (262-5643)

[Contact Support](#)

## System Requirements

- Windows® 2000 SP4, Windows XP SP2, Windows Vista™ or (from update 7) Windows 7 Business/ Enterprise/ Ultimate editions
- Intel Pentium® processor (x86 compatible), 1 GHz or faster
- 512 MB RAM and 2 GB available hard disk space
- VisualDSP++ 5.0 Update 8

## Documentation

2 See All

1 Evaluation Kit Manuals

1 Emulator Manuals

[ADSP-21489 EZ-KIT Lite Evaluation System Manual, Revision 1.1, July 2012](#)

PDF



633 kB

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## [HPUSB, USB, and HPPCI Emulator User's Guide \(Rev. 3.2\)](#)

PDF

746 kB

## Software

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### [SHARC Software Modules](#)

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#### [SHARC Processors Software and Tools](#)

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#### [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.

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#### [Dolby Volume, SHARC](#)

The Dolby Volume library for the SHARC processor is an advanced automatic volume control system that analyses the perceived volume of audio and adjusts it to maintain an enhanced and uniform listening experience.

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#### [Dolby Digital EX Decoder, SHARC](#)

The Dolby Digital EX Decoder library for the SHARC processor is an extension of the Dolby Digital decoding algorithm that adds a center rear channel to 5.1-channel playback, expanding the surround sound experience to 6.1 channels.

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## Dolby E-AC-3 Decoder, SHARC

The Dolby Digital Plus, or Enhanced AC-3 (E-AC-3) library for the SHARC processor is an advanced surround sound audio codec designed specifically for evolving media.

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## CrossCore Embedded Studio

CrossCore Embedded Studio is a world-class integrated development environment (IDE) for the Blackfin and SHARC processor families.

## Related Hardware

### Emulator Hardware

#### EMULATOR-USB & HP USB ICE

USB-Based Emulator and High Performance USB-Based Emulator

## Buy

### Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	Price	RoHS
ADZS-21489-EZBRD	Evaluation Board	\$350.00	Yes
ADZS-21489-EZLITE	Evaluation Board	\$495.00	Yes



Model	Description	Price	RoHS
ADZS-BFSHUSB-EZEXT	Evaluation Board	\$100.00	Yes
ADZS-HPUSB-ICE	Evaluation Board	\$4000.00	Yes
ADZS-SADA2-BRD	Evaluation Board	\$250.00	Yes
ADZS-USB-ICE	Evaluation Board	-	Yes

Select a country

Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.

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