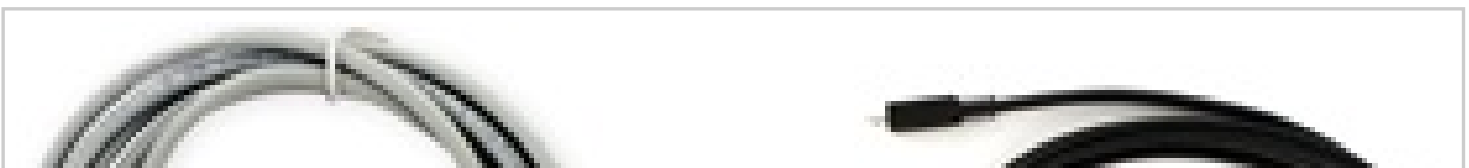
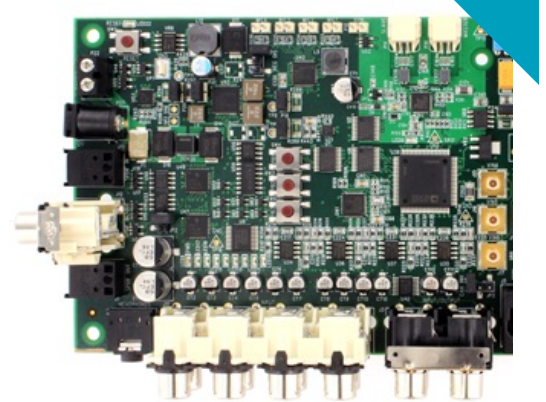


ADZS- SC573- EZLITE

ADSP-SC573 Evaluation Hardware for the ADSP-
SC57x/ADSP-2157x SHARC Family (400-ball, 17x17mm
BGA)

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Overview

Features and Benefits Product Details

- ADSP-SC573 400-pin 17x17mm BGA
- 2Gb DDR3 Memory
- 128 Mb SPI Flash
- 2 x Ethernet (1x 10/100, 1x GigE)
- ADAU1979 quad ADC
- ADAU1962A 12 channel 24-bit DAC
- ADAU1977 quad ADC with diagnostics
- SPDIF in/out, optical & coax
- UART
- 2 CAN transceivers + RJ11 connectors
- USB OTG
- SD/MMC memory connector
- HADC
- EI3 Expansion Interface
- CrossCore® Embedded Studio EZ-KIT license and ICE-1000 emulator

The ADSP-SC573 processor is a member of the SHARC® family of products. The ADSP-SC573 processor is based on the SHARC+ dual-core and the arm® Cortex-A5TM core. The ADSP-SC573 SHARC processor is a member of the SIMD SHARC family of DSPs that feature Analog Devices Super Harvard Architecture. These 32-bit/40- bit/64-bit floating-point processors are optimized for high performance audio/floating-point applications with their large onchip SRAM, multiple internal buses to eliminate I/O bottlenecks, and innovative digital audio interfaces (DAI). New enhancements to the SHARC+ core add cache enhancements, branch prediction, and other instruction set improvements—all while maintaining instruction set compatibility to previous SHARC products. The EZ-KIT ships with all of the necessary hardware to get you up and running and start the evaluation immediately

Markets and Technologies

Healthcare (1)

Automotive (2)

Industrial Automation Technology (IAT) (1)

Applicable Parts

- | | |
|-------------------------------------|-------------------------------------|
| • <u>ADSP-SC570</u> | • <u>ADSP-SC573</u> |
| • <u>ADSP-SC571</u> | • <u>ADSP-21571</u> |
| • <u>ADSP-SC572</u> | • <u>ADSP-21573</u> |

Package Contents

The ADSP-SC573 EZ-Board package contains the following items:

- ADSP-SC573 EZ-Board PCB
- Universal 5V DC power
- Ethernet cable

- USB A to micro B cable
- USB micro A to A receptacle cable
- ICE-1000
- Standoffs and screws in a bag
- Release note
- 2GB SD card

System Requirements

Verify that your PC has these minimum requirements for the CCES installation:

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

Note: Please see the [CrossCore® Embedded Studio Release Notes](#) for the latest information about System Requirements.

Documentation & Resources

[View All \(4\)](#)

[User Guides \(1\)](#)

[Evaluation Design Files \(2\)](#)

[Board Design Database \(1\)](#)

DOCUMENT TYPE

USER GUIDES

[ADSP-SC573 EZ-KIT Manual \(Rev. 1.0\)](#) 6/20/2016

EVALUATION DESIGN FILES

[ADSP-SC573 Schematics \(Rev. 1.3\)](#) 6/20/2016 [PDF](#) 9 M

[ADSP-SC573 Bill of Materials \(Rev. 1.9\)](#) 6/20/2016 [PDF](#) 418 K

BOARD DESIGN DATABASE

[ADSP-SC573 EZ KIT Board Design Database \(Rev. 1.3\)](#) 2/9/2017 [ZIP](#) 19 M