ADAV803ASTZ

Data Sheet

8-Channel 14-Bit Single-Supply Voltage-Output DAC; Package: LQFP (10x10mm); No of Pins: 52; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	LQFP-64
Product Type	Integrated/Special Purpose D/A Converters ; Audio CODECs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for ADAV803ASTZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADAV803 is a stereo audio codec intended for applications such as DVD or CD recorders that require high performance and flexible, cost-effective playback and record functionality. The ADAV803 features Analog Devices, Inc. proprietary, high performance converter cores to provide record (ADC), playback (DAC), and format conversion (SRC) on a single chip. The ADAV803 record channel features variable input gain to allow for adjustment of recorded input levels and automatic level control, followed by a high performance stereo ADC whose digital output is sent to the record interface. The record channel also features level detectors that can be used in feedback loops to adjust input levels for optimum recording. The playback channel features a high performance stereo DAC with independent digital volume control.

The sample rate converter (SRC) provides high performance sample rate conversion to allow inputs and outputs that require different sample rates to be matched. The SRC input can be selected from playback, auxiliary, DIR, or ADC (record). The SRC output can be applied to the playback DAC, both main and auxiliary record channels, and a DIT. Operation of the ADAV803 is controlled via an I2C®-compatible serial interface, which allows the programming of individual control register settings. The ADAV803 operates from a single analog 3.3 V power supply and a digital power supply of 3.3 V with an optional digital interface range of 3.0 V to 3.6 V.

The part is housed in a 64-lead LQFP package and is character-ized for operation over the commercial temperature range of −40°C to +85°C.

Features

Stereo analog-to-digital converter (ADC) Supports 48 kHz/96 kHz sample rates 102 dB dynamic range Single-ended input Automatic level control

Stereo digital-to-analog converter (DAC) Supports 32 kHz/44.1 kHz/48 kHz/96 kHz/192 kHz sample rates 101 dB dynamic range Single-ended output

Asynchronous operation of ADC and DAC

Stereo sample rate converter (SRC) Input/output range: 8 kHz to 192 kHz 140 dB dynamic range

Digital interfaces Record Playback Auxiliary record Auxiliary playback

S/PDIF (IEC 60958) input and output Digital interface receiver (DIR) Digital interface transmitter (DIT)

PLL-based audio MCLK generators

Generates required DVDR system MCLKs

Device control via I2C-compatible serial port

64-lead LQFP package

Application

DVD-recordable

All formats

CD-R/W

Related Products

ADV7181CBSTZ

Analog Devices, Inc

LQFP-64

AD8170AR

Analog Devices, Inc

SOP8

AD724JR

Analog Devices, Inc

SOIC-16

ADV7393BCPZ

Analog Devices, Inc

LFCSP-VQ-40

ADV7391WBCPZ

Analog Devices, Inc

LFSCP-3

ADV7390BCPZ

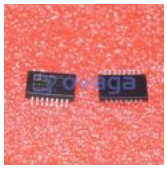
Analog Devices, Inc

QFN32

ADV7341BSTZ

Analog Devices, Inc

LQFP-64



ADUM4160BRIZ

Analog Devices, Inc

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