
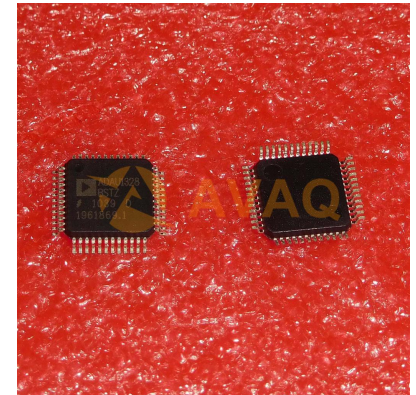


General Purpose Audio Codec 2ADC / 8DAC Ch 48-Pin LQFP

Tray

Manufacturer:	Analog Devices, Inc
Package/Case:	QFP
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The ADAU1328 is a high performance, single-chip codec that provides two analog-to-digital converters (ADCs) with differential input and eight digital-to-analog converters (DACs) with single-ended output using the Analog Devices, Inc. patented multibit sigma-delta (Σ - Δ) architecture. An SPI port is included, allowing a microcontroller to adjust volume and many other parameters. The ADAU1328 operates from 3.3 V digital and analog supplies. The ADAU1328 is available in a 48-lead (single-ended output) LQFP. Other members of this family include a differential DAC output and I2C[®] control port version.

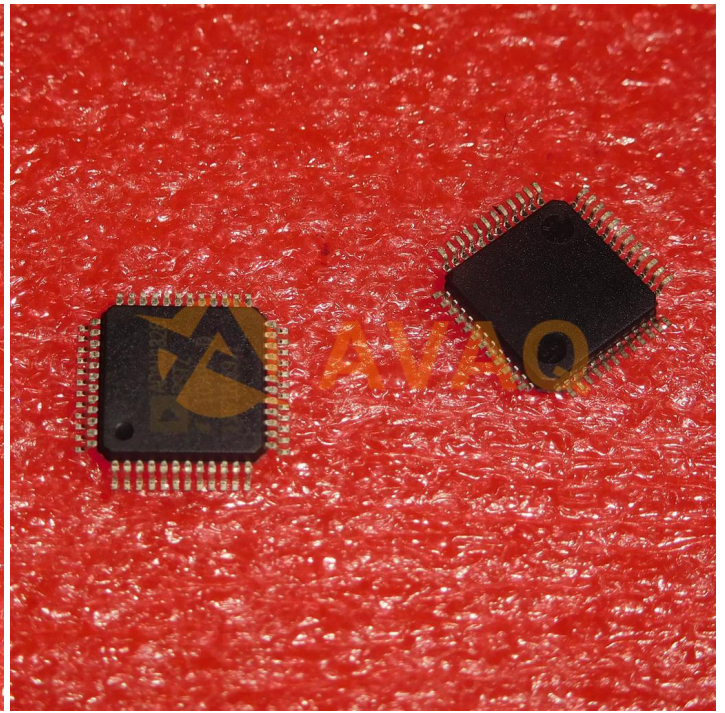
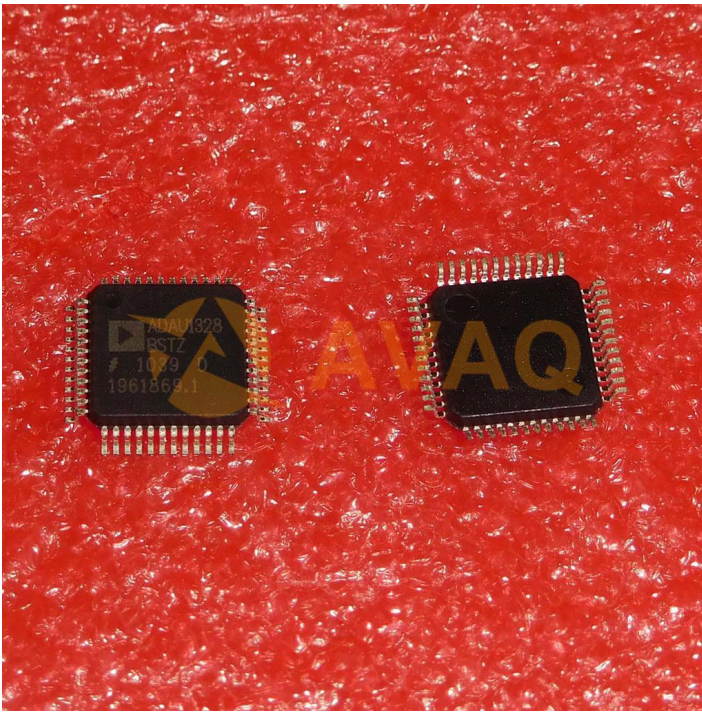
The ADAU1328 is designed for low EMI. This consideration is apparent in both the system and circuit design architectures. By using the on-board PLL to derive the master clock from the LR clock or from an external crystal, the ADAU1328 eliminates the need for a separate high frequency master clock and can also be used with a suppressed bit clock. The digital-to-analog and analog-to-digital converters are designed using the latest ADI continuous time architectures to further minimize EMI. By using 3.3 V supplies, power consumption is minimized, further reducing emissions.

Key Features

- PLL generated or direct master clock
- Low EMI design
- 108 dB DAC/107 dB ADC dynamic range and SNR
- Single 3.3 V supply
- Tolerance for 5 V logic inputs
- Supports 24 bits and 8 kHz to 192 kHz sample rates
- Differential ADC input
- Single-ended DAC output
- Log volume control with autoramp function
- SPI[®] controllable for flexibility
- Software controllable clickless mute

Application

- Home theater systems
- Set-top boxes
- Digital audio effects processors



Recommended For You

ADM3490EARZ

Analog Devices, Inc

SOP-8

ADuM3160BRWZ-RL

Analog Devices, Inc

SOP16

ADM3232EARUZ

Analog Devices, Inc

TSSOP-16

ADuM5211ARSZ

Analog Devices, Inc

SSOP20

ADuM1201BRZ-RL7

Analog Devices, Inc

SOP8

ADV7623BSTZ

Analog Devices, Inc

LQFP144

ADuM1410BRWZ

Analog Devices, Inc

SOP16

AD698APZ

Analog Devices, Inc

PLCC28

ADM3251EARWZ

Analog Devices, Inc

SOP20

ADM485ANZ

Analog Devices, Inc

DIP

ADuM6400ARWZ

Analog Devices, Inc

SOP16

ADuM1281BRZ

Analog Devices, Inc

SOP8

ADUM142E0BRZ

Analog Devices, Inc

SOP-16

ADuM1412BRWZ

Analog Devices, Inc

SOP16

ADV7622BSTZ

Analog Devices, Inc

TQFP144