

Audio Codec 4ADC / 8DAC 24Bit 48Pin LQFP

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LQFP-48
Product Type	Interface - CODECS
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD1938YSTZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

### Linux Driver

The AD1938 is a high performance, single-chip codec that provides four analog-to-digital converters (ADCs) with input and eight digital-to-analog converters (DACs) with single-ended output using the Analog Devices, Inc., patented multibit sigma-delta ( $\Sigma$ - $\Delta$ ) architecture. An SPI port is included, allowing a microcontroller to adjust volume and many other parameters.

The AD1938 operates from 3.3 V digital and analog supplies. The AD1938 is available in a 48-lead (single-ended output) LQFP package. Other members of this family include a differential DAC output and I2C<sup>®</sup> control port version.

The AD1938 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 AD1938 eliminates the need for a separate high frequency master clock and can also be used with a suppressed bit clock. The DACs and ADCs are designed using the latest Analog Devices continuous time architectures to further minimize EMI. By using 3.3 V supplies, power consumption is minimized, further reducing emissions.

## Features

PLL generated or direct master clock

Low EMI design

108 dB DAC/107 dB ADC dynamic range and SNR

3.3 V single supply

Tolerance for 5 V logic inputs

Supports 24 bits and 8 kHz to 192 kHz sample rates

Please see data sheet for additional features

## Application

Automotive audio systems

Home Theater Systems

Set-top boxes

Digital audio effects processors

## Related Products



### [ADV7181CBSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD724JR](#)

Analog Devices, Inc  
SOIC-16



### [ADV7391WBCPZ](#)

Analog Devices, Inc  
LFSCP-3



### [ADV7341BSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD8170AR](#)

Analog Devices, Inc  
SOP8



### [ADV7393BCPZ](#)

Analog Devices, Inc  
LFSCP-VQ-40



### [ADV7390BCPZ](#)

Analog Devices, Inc  
QFN32



### [ADUM4160BRIZ](#)

Analog Devices, Inc  
SOIC-16