

Analog Front End - AFE SGL-Ch 3-5V Front-End Processor

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOP-20
Product Type	Data Acquisition - Analog Front End (AFE)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for AD73311AR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

### Linux Driver

The AD73311 and AD73311L are complete front-end processors for general-purpose applications including speech and telephony. They feature a 16-bit A/D conversion channel and a 16-bit D/A conversion channel. Each channel provides 70 dB signal-to-noise ratio over the voiceband signal bandwidth. The AD73311L is a follow-on to the AD73311 with improved on-chip filtering, more sample-rate options and lower cost. The L version operates from 3.0 V only, where as the AD73311 operates from either 3 V or 5 V power supplies.

The gains of the A/D and D/A conversion channels are programmable over 38 dB and 21 dB respectively. An on-chip reference voltage is included to allow single-supply operations. A serial port (SPORT) allows easy interfacing for single or cascaded devices to industry standard DSP engines.

The AD73311 and AD73311L are suitable for a variety of applications in the speech and telephony areas including low-bit rate, high quality compression, speech enhancement, recognition and synthesis. The low group delay characteristic of the part makes it suitable for single or multi-channel active-control applications.

## Features

16-Bit A/D Converters

16-Bit D/A Converters

Programmable Input/Output Sample Rates

75 dB ADC SNR

70 dB DAC SNR

64 kSPS Maximum Sample Rate

Programmable Input/Output Gain

Low group Delay: 25  $\mu$ s per ADC ch 50  $\mu$ s per DAC ch

Flexible Serial Port Allows Up to 4 Codecs To Be Connected in Cascade Giving 8 I/O Channels

Single 2.7 V to 5.5 V Supply Operation

50 mW Max Power Dissipation at 2.7 V

## Application

General Purpose Analog I/O

Speech Processing

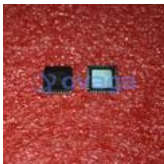
Cordless and Personal Communications

Telephony

Active Control of Sound & Vibration

Data Communications

## Related Products



### [ADUC7022BCPZ62](#)

Analog Devices, Inc  
LFCSP-40



### [ADUC7020BCPZ62](#)

Analog Devices, Inc  
LFCSP-40



### [ADUC841BSZ62-5](#)

Analog Devices, Inc  
QFP-52



### [ADUC841BSZ62-3](#)

Analog Devices, Inc  
QFP-52



### [ADUC831BSZ](#)

Analog Devices, Inc  
QFP-52



### [ADSP-BF527BBCZ-5A](#)

Analog Devices, Inc  
BGA-208



### [ADSP-21369BBPZ-2A](#)

Analog Devices, Inc  
SBGA-256



### [ADSP-BF561SBBCZ-5A](#)

Analog Devices, Inc  
CSPBGA-256