

Analogue to Digital Converter, Quad, 13 bit, 1 MSPS, Pseudo Differential, Single Ended, Serial, SPI

|               |                                     |
|---------------|-------------------------------------|
| Manufacturers | <a href="#">Analog Devices, Inc</a> |
| Package/Case  | TSSOP-16                            |
| Product Type  | Data Conversion ICs                 |
| RoHS          | Pb-free Halide free                 |
| Lifecycle     |                                     |



Images are for reference only

Please submit RFQ for AD7324BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD7324 can accept true bipolar analog input signals. The AD7324 has four software-selectable input ranges:  $\pm 10$  V,  $\pm 5$  V,  $\pm 2.5$  V, and 0 V to +10 V. Each analog input channel can be independently programmed to one of the four input ranges. The analog input channels on the AD7324 can be programmed to be single-ended, true differential, or pseudo differential.

The ADC contains a 2.5 V internal reference. The AD7324 also allows for external reference operation. If a 3 V reference is applied to the REFIN/OUT pin, the AD7324 can accept a true bipolar  $\pm 12$  V analog input. Minimum  $\pm 12$  V VDD and VSS supplies are required for the  $\pm 12$  V input range. The ADC has a high speed serial interface that can operate at throughput rates up to 1 MSPS.

### Product Highlights

The AD7324 can accept true bipolar analog input signals,  $\pm 10$  V,  $\pm 5$  V,  $\pm 2.5$  V, and 0 V to +10 V unipolar signals.

The four analog inputs can be configured as four single-ended inputs, two true differential input pairs, two pseudo differential inputs, or three pseudo differential inputs.

1 MSPS serial interface. SPI<sup>®</sup>-/QSPI<sup>™</sup>-/DSP-/MICROWIRE<sup>™</sup>-compatible interface.

Low power, 31 mW maximum, at 1 MSPS throughput rate.

Channel sequencer.

## Features

12-Bit plus sign SAR ADC

True bipolar input ranges

Software-selectable input ranges  $\pm 10V$ ,  $\pm 5V$ ,  $\pm 2.5V$ ,  $0V$  to  $10V$

1 MSPS throughput rate

4 analog input channels with channel sequencer

Single-ended, true differential, and Pseudo differential analog input capability

High analog input impedance

Low power: 21 mW

Full power signal bandwidth: 22 MHz

Internal 2.5 V reference

High speed serial interface

For more features please see data sheet

## Related Products



### [ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



### [AD574AJNZ](#)

Analog Devices, Inc  
PDIP-28



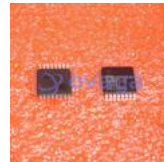
### [AD7938BSUZ](#)

Analog Devices, Inc  
TQFP-32



### [AD7124-8BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP-32



### [AD7266BSUZ](#)

Analog Devices, Inc  
TQPF-32



### [AD7401YRWZ](#)

Analog Devices, Inc  
SOIC-16



### [AD7192BRUZ-REEL](#)

Analog Devices, Inc  
TSSOP-24



### [AD9680BCPZ-500](#)

Analog Devices, Inc  
LFCSP-64