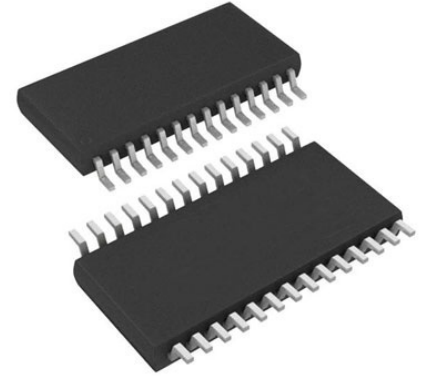


8-Channel, 8.5 kHz, 24-Bit Sigma-Delta A/D Converter; Package: TSSOP; No of Pins: 28;
Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-28
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7738BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7738 is based on a sigma-delta architecture and features up to 24 bits of no missing codes performance. The part can be configured via a simple digital interface, which allows users to balance the noise performance against data throughput up to a 15.4 kHz conversion rate. The analog front end features 8 single-ended or 4 fully differential input channels with unipolar or bipolar 625 mV, 1.25 V and 2.5V input ranges and accepts a common mode input voltage from 200 mV above AGND to AVDD-300 mV. The multiplexer output is pinned out externally allowing the user to implement programmable gain or signal conditioning before applying the input signal to the ADC. The differential reference input features “No Reference” detect capability. The ADC also supports per channel system calibration options.

The digital serial interface can be configured for three-wire operation and is compatible with microcontrollers and digital signal processors. All interface inputs are Schmitt triggered.

The part is specified for operation over the extended industrial temperature range of -40°C to +105°C and is available in 28-lead TSSOP package.

Features

High Resolution ADC

24 Bits No Missing Codes

0.0015% Nonlinearity

Optimized for Fast Channel Switching

18-Bits p-p Resolution (21 Bits Effective) at 500 Hz

16-Bits p-p Resolution (19 Bits Effective) at 8.5 kHz

15-Bits p-p Resolution (18 Bits Effective) at 15 kHz

On-Chip Per Channel System Calibration

Configurable Inputs

8 Single-Ended or 4 Fully Differential

Input Ranges

3-Wire Serial Interface

SPI™, QSPI™, MICROWIRE™ and DSP Compatible

Schmitt Trigger on Logic Inputs

Single-Supply Operation

Package: 28-Lead TSSOP

Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



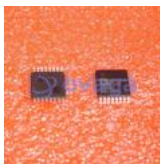
[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc

LFCSP-32



[AD9680BCPZ-500](#)

Analog Devices, Inc

LFCSP-64