

Analog to Digital Converters - ADC Simult Sampling Dual 250kSPS 12-Bit

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



Images are for reference only

Please submit RFQ for AD7862ARSZ-10 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

A single conversion start signal (CONVST) places both track/ holds into hold simultaneously and initiates conversion on both inputs. The BUSY signal indicates the end of conversion, and at this time the conversion results for both channels are available to be read. The first read after a conversion accesses the result from VA1 or VB1, while the second read accesses the result from VA2 or VB2, depending on whether the multiplexer select A0 is low or high, respectively. Data is read from the part via a 12-bit parallel data bus with standard CS and RD signals.

In addition to the traditional dc accuracy specifications such as linearity, full-scale and offset errors, the part is also specified for dynamic performance parameters including harmonic distortion and signal-to-noise ratio.

The AD7862 is fabricated in Analog Devices' Linear Compatible CMOS (LC2MOS) process, a mixed technology process that combines precision bipolar circuits with low power CMOS logic. It is available in 28-lead SSOP, SOIC and DIP.

Features

Two Fast 12-Bit ADCs

Four Input Channels

Simultaneous Sampling & Conversion

4 μ s Throughput Time

Single Supply Operation

High Speed Parallel Interface

Low Power, 60 mW typ

Selection of Input Ranges: ± 10 V for AD7862-10 ± 2.5 V for AD7862-30 V to 2.5 V for AD7862-2

Power Saving Mode, 50 μ W typ

Overvoltage Protection on Analog Inputs

14-Bit Pin Compatible Upgrade (AD7863)

Application

AC Motor Control

Uninterrupted Power Supplies

Data Acquisition Systems

Communications

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