

AD7891ASZ-2

Data Sheet

RFO

Analogue to Digital Converter	Octal. 12 bit.	500 kSPS. Single	Ended, Parallel.	Serial. Single

Manufacturers	Analog Devices, Inc	
Package/Case	QFP-44	
Product Type	Data Conversion ICs	
RoHS	Rohs	The Second Second
Lifecycle		Images are for reference only

Please submit RFQ for AD7891ASZ-2 or Email to us: sales@ovaga.com We will contact you in 12 hours.

General Description

The AD7891 is an eight-channel 12-bit data acquisition system with a choice of either parallel or serial interface structure. The part contains an input multiplexer, an on-chip track/hold amplifier, ahigh speed 12-bit ADC, a +2.5 V reference and a high speed interface. The part operates from a single +5 V supply and accepts a variety of analog input ranges across two models, the AD7891-1 (± 5 V and ± 10 V) and the AD7891-2 (0 V to +2.5 V, 0 V to +5 V and ± 2.5 V).

The AD7891 provides the option of either a parallel interface or serial interface structure determined by the MODE pin. The part has standard control inputs and fast data access times for both the serial and parallel interfaces which ensures easy interfacing to modern microprocessors, microcontrollers and digital signal processors.

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.

Power dissipation in normal mode is 90 mW typical while in the standby mode this is reduced to 75 µW typ. The part is available in a 44-pin plastic quad flat-pack (PQFP) and a 44- lead plastic leaded chip carrier (PLCC).

Features

Fast 12-Bit ADC with 1.6 µs Conversion Time

8 Single-Ended Analog Input Channels

Overvoltage Protection on Each Channel

Selection of Input Ranges ± 5 V, ± 10 V for AD7891-10 to ± 2.5 V, 0 to ± 5 V, ± 2.5 V for AD7891-2

Parallel and Serial Interface

On-Chip Track/Hold Amplifier

On-Chip Reference

Single-Supply, Low Power Operation (100 mW Max)

Power-Down Mode (75 µW Typ)

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



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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

Data Acquisition Systems

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Application

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Instrumentation