🔉 ovaga

AD790SQ

Data Sheet

Fast, Precision Comparator

Manufacturers	Analog Devices, Inc
Package/Case	CDIP-8
Product Type Delay)	Comparators ; High Speed Comparators (<100ns Propagation
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for AD790SQ or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The AD7902 is a dual 16-bit, successive approximation, analog-to-digital converter (ADC) that operates from a single power supply, VDDx, per ADC. It contains two low power, high speed, 16-bit sampling ADCs and a versatile serial port interface (SPI). On the CNVx rising edge, the AD7902 samples an analog input, IN+ in the range of 0 V to VREF with respect to a ground sense, IN-. The externally applied reference voltage of the REFx pins (VREF) can be set independently from the supply voltage pins, VDDx. The power of the device scales linearly with throughput.

Using the SDIx inputs, the SPI-compatible serial interface can also daisy-chain multiple ADCs on a single 3-wire bus and provide an optional busy indicator. It is compatible with 1.8 V, 2.5 V, 3 V, or 5 V logic, using the separate VIOx supplies.

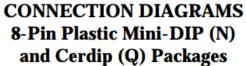
The AD7902 is available in a 20-lead QSOP package with operation specified from -40°C to +125°C.

Features

Application

16-bit resolution with no missing codes	Battery-powered equipment	
Throughput: 1 MSPS		
Lowpower dissipation 7.0 mW at 1 MSPS (VDD1 and VDD2 only) 12.0 mW at 1 MSPS (total)140 µW at 10 kSPS	Communications	
INL: ±1.0 LSB typical, ±2.5 LSB maximum	Automated test equipment (ATE)	
Pseudodifferential analog input range0 V to VREF with VREF between 2.4 V to 5.1 VAllows use of any input rangeEasy to drive with the ADA4841-1/ADA4841-2	Data acquisition	
SINAD: 91 dB at 1 kHz	Medical instrumentation	
THD: -105 dB at 1 kHz	Redundant measurement	
No pipeline delay	Simultaneous sampling	
Single-supply 2.5 V operation with 1.8 V/2.5 V/3 V/5 V logic interface		
Serial port interface (SPI) QSPI/MICROWIRE/DSP compatible		
20-lead QSOP package		

Wide operating temperature range: -40° C to $+125^{\circ}$ C



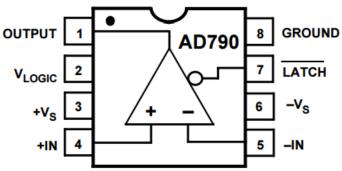


+Vs VLOGIC 8 AD790 +IN OUTPUT 2 7 -IN GROUND 6 3

8-Pin SOIC (R) Package

LATCH

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QFN

<u>AD790JRZ</u>

Analog Devices, Inc







SOIC-8



AD9696TQ Analog Devices, Inc CDIP-8



-v_s



Analog Devices, Inc CDIP-16

AD9696KR



Analog Devices, Inc SOP-8

AD9687BD

Analog Devices, Inc DIP16

AD8561AR

Analog Devices, Inc SOP-8

