

Analogue to Digital Converter, 8 bit, 32 MSPS, Differential, Single Ended, Parallel, Single, 2.7 V

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



Images are for reference only

Please submit RFQ for AD9280ARSZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The input of the AD9280 has been designed to ease the development of both imaging and communications systems. The user can select a variety of input ranges and offsets and can drive the input either single-ended or differentially.

The sample-and-hold amplifier (SHA) is equally suited for both multiplexed systems that switch full-scale voltage levels in successive channels and sampling single-channel inputs at frequencies up to and beyond the Nyquist rate. AC-coupled input signals can be shifted to a predetermined level, with an onboard clamp circuit. The dynamic performance is excellent.

The AD9280 has an onboard programmable reference. An external reference can also be chosen to suit the dc accuracy and temperature drift requirements of the application.

A single clock input is used to control all internal conversion cycles. The digital output data is presented in straight binary output format. An out-of-range signal (OTR) indicates an overflow condition which can be used with the most significant bit to determine low or high overflow.

The AD9280 can operate with a supply range from +2.7 V to +5.5 V, ideally suiting it for low power operation in high speed applications.

The AD9280 is specified over the industrial (-40°C to +85°C) temperature range.

Features

Pin-Compatible with AD876-8

Power Dissipation: 95 mW (3 V Supply)

Operation Between +2.7 V and +5.5 V Supply

DNL: 0.2 LSB

Power-Down (Sleep) Mode

Three-State Outputs

Out-of-Range Indicator

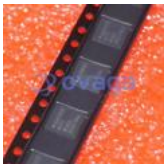
Built-In Clamp Function (DC Restore)

Adjustable On-Chip Voltage Reference

IF Undersampling to 135 MHz

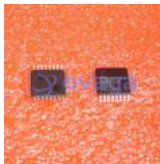


Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



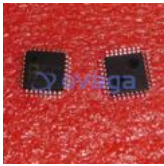
[AD574AJNZ](#)

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SOIC-16



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