

Analogue to Digital Converter, 12 bit, 100 kSPS, Serial, Serial, Single, 2.7 V

Manufacturers	Analog Devices, Inc
Package/Case	SOP8
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD7896ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7896 is a fast, 12-bit ADC which operates from a single +2.7 V to 5.5 V supply and is housed in a small 8-pin mini-DIP and 8-pin SOIC. The part contains an 8 μ s successive approximation A/D converter, an on-chip track/hold amplifier, an on-chip clock and a high speed serial interface.

Output data from the AD7896 is provided via a high speed, serial interface port. This two-wire serial interface has a serial clock input and a serial data output with the external serial clock accessing the serial data from the part.

In addition to the traditional dc accuracy specifications such as linearity, full-scale and offset errors, the AD7896 is also specified for dynamic performance parameters including harmonic distortion and signal-to-noise ratio.

The part accepts an analog input range of 0 V to VDD and operates from a single +2.7 V to +5.5 V supply consuming only 9 mW typical. The VDD input is also used as the reference for the part so that no external reference is required.

The AD7896 features a high sampling rate mode and, for low power applications, a proprietary automatic power down mode where the part automatically goes into power down once conversion is complete and "wakes up" before the next conversion cycle.

The part is available in a small, 8-pin, 0.3" wide, plastic or hermetic dual-in-line package (mini-DIP) and in an 8-pin, small outline IC (SOIC).

Features

100 kHz Throughput Rate

Fast 12-Bit Sampling ADC with 8 μ s Conversion Time

8-Lead PDIP and SOIC

Single 2.7 V to 5.5 V Supply Operation

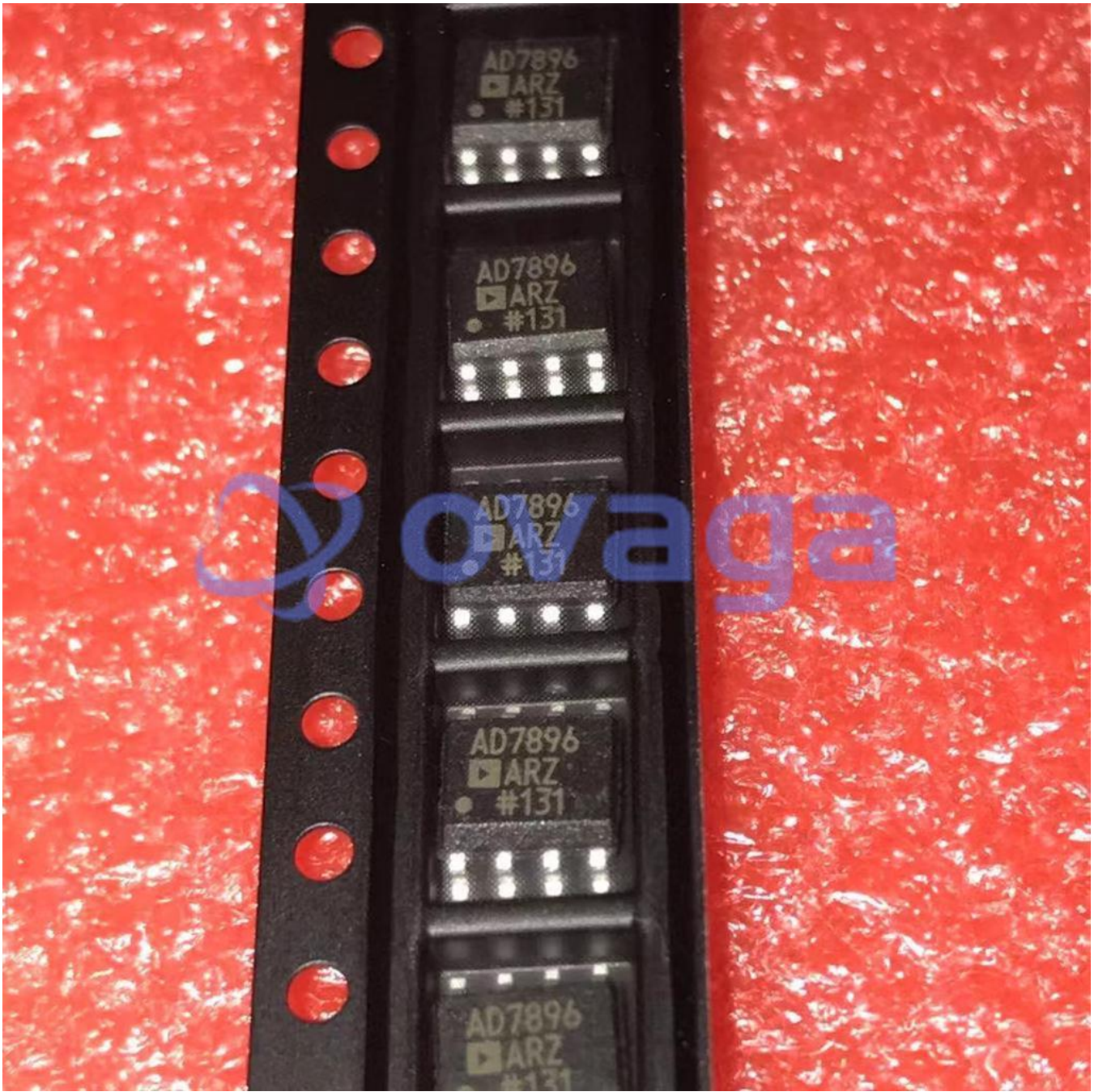
High Speed, Easy-to-Use Serial Interface

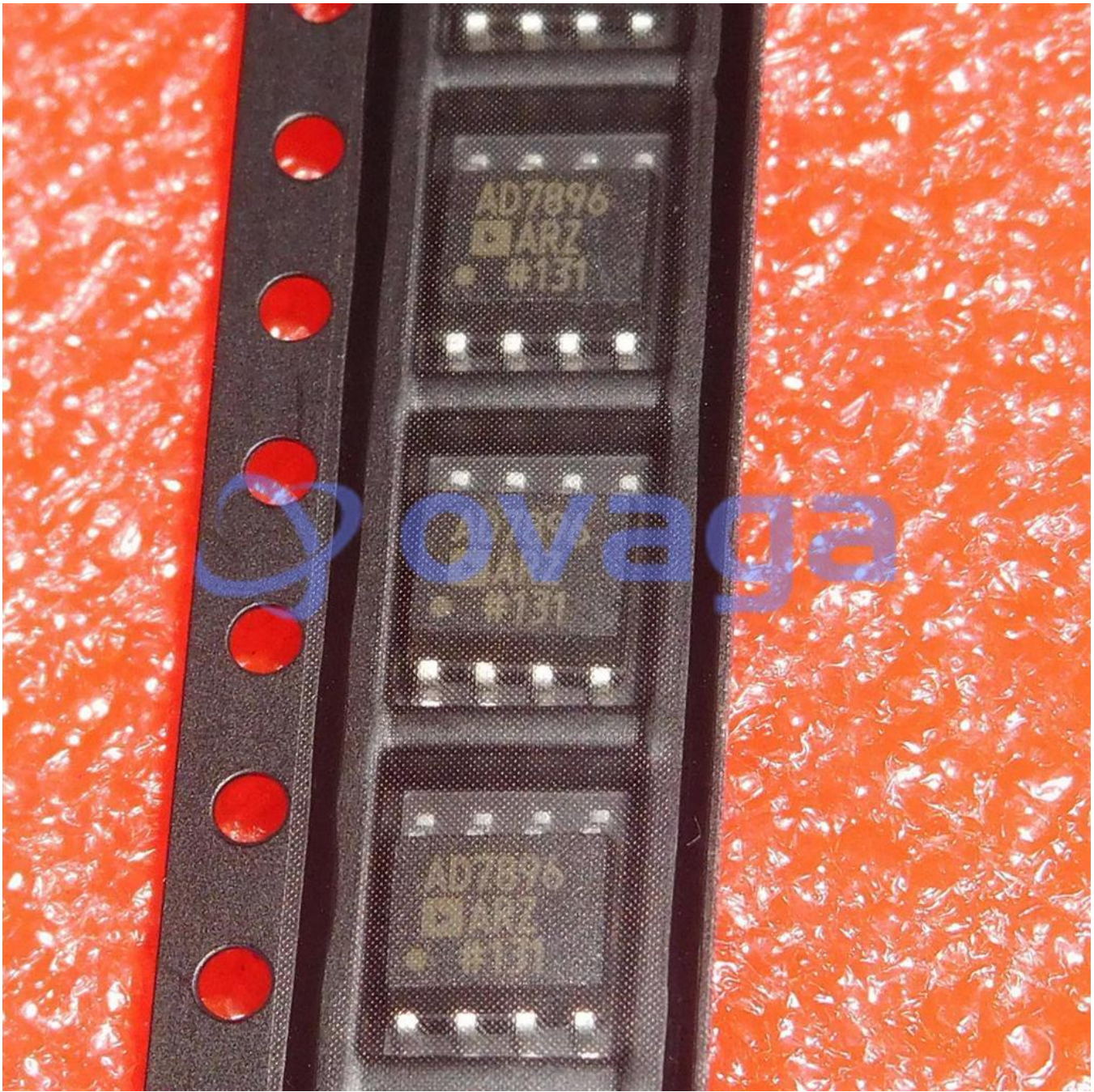
On-Chip Track-and-Hold Amplifier

Analog Input Range Is 0 V to Supply

High Input Impedance

Low Power: 9 mW Typ



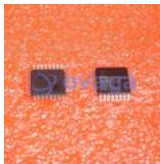


Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



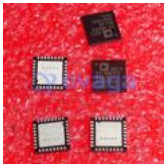
[AD7938BSUZ](#)

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TQFP-32



[AD7192BRUZ-REEL](#)

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[AD7124-8BCPZ-RL7](#)

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LFCSP-32



[AD9680BCPZ-500](#)

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LFCSP-64