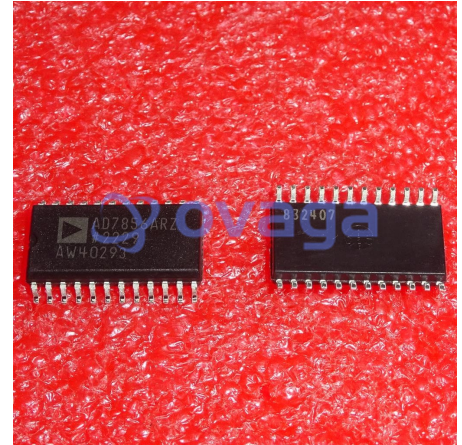


5 V Single-Supply, 8-Channel, 14-Bit, 285 kSPS, Serial Sampling ADC; Package: SOIC - Wide; No of Pins: 24; Temperature Range: Industrial

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-24
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7856ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD7856 is a high speed, low power, 14-bit Analog-to-Digital Converter (ADC) that operates from a single 5 V power supply. The ADC powers up with a set of default conditions at which time it can be operated as a read only ADC. The ADC contains self-calibration and system calibration options to ensure accurate operation over time and temperature; and it has a number of power-down options for low power applications.

The AD7856 is capable of 285 kHz throughput rate. The input track-and-hold acquires a signal in 500 ns and features a pseudo-differential sampling scheme. The AD7856 voltage range is 0 to VREF with both straight binary and 2s complement output coding. Input signal range is to the supply and the part is capable of converting full power signals to 20 MHz.

CMOS construction ensures low power dissipation of typically 5.4 mW for normal operation and 3.6  $\mu$ W in power-down mode. The part is available in 24-pin, 0.3 inch-wide dual-in-line package (DIP), 24-lead small outline (SOIC) and 24-lead small shrink outline (SSOP) packages.

## Features

Single 5 V Supply

285 kSPS Throughput Rate

Self- and System Calibration with Autocalibration on Power-Up

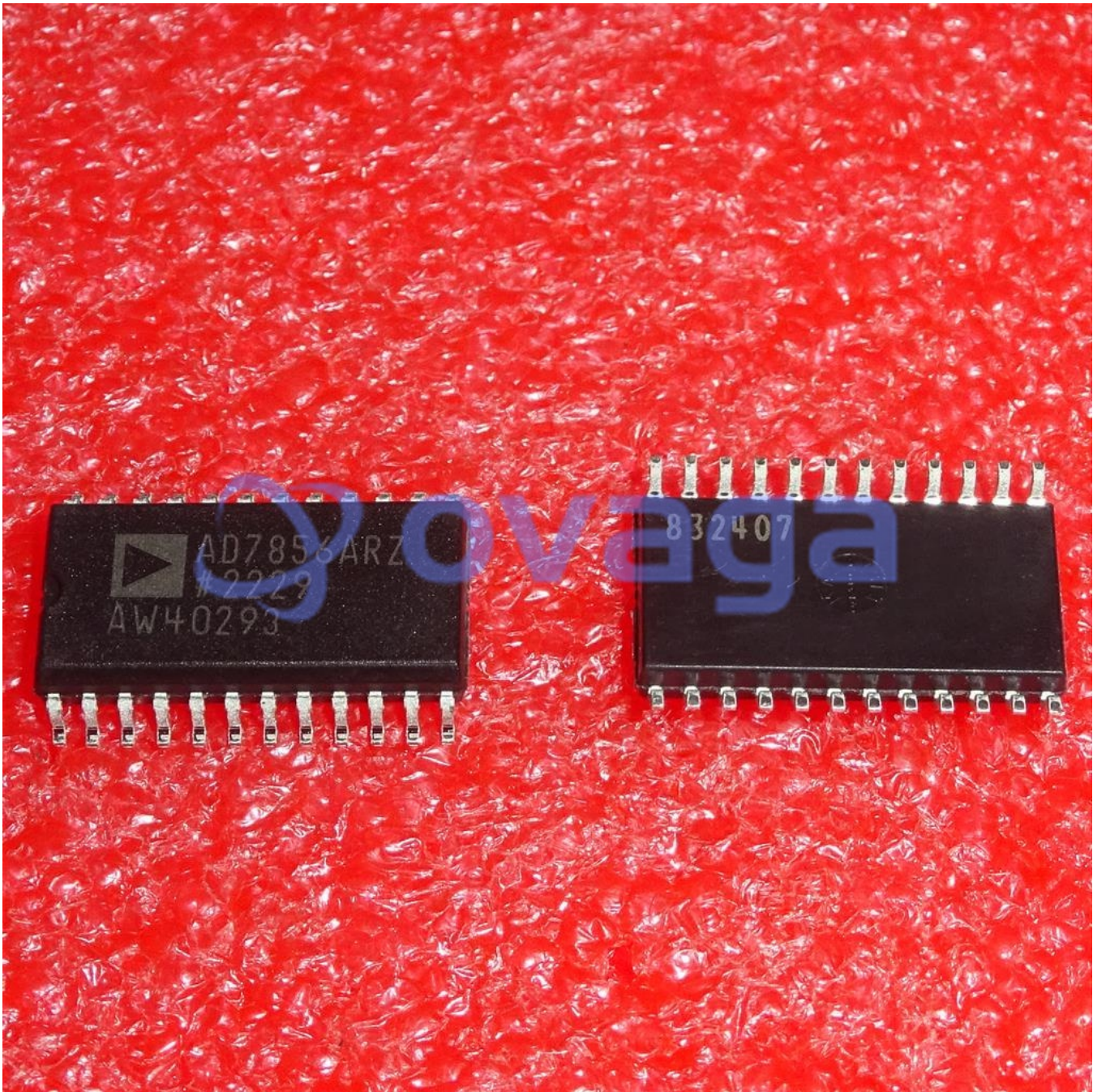
Eight Single-Ended or Four Pseudo-Differential Inputs

Low Power: 60 mW Typ

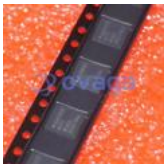
Automatic Power-Down After Conversion (2.5  $\mu$ W Typ)

Flexible Serial Interface: 8051/SPI®/QSPI™/ $\mu$ P Compatible

24-Lead DIP, SOIC and SSOP Packages

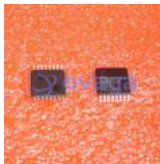


### Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc  
TQPF-32



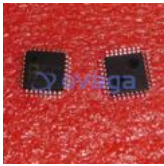
[AD574AJNZ](#)

Analog Devices, Inc  
PDIP-28



[AD7401YRWZ](#)

Analog Devices, Inc  
SOIC-16



[AD7938BSUZ](#)

Analog Devices, Inc  
TQFP-32



[AD7192BRUZ-REEL](#)

Analog Devices, Inc  
TSSOP-24



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP-32



[AD9680BCPZ-500](#)

Analog Devices, Inc  
LFCSP-64