

1-Channel Single ADC SAR 200ksps 8-bit Serial 8-Pin MSOP Tube

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-8
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7823YRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

By using a technique that samples the state of the CONVST (convert start) signal at the end of a conversion, the AD7823 may be used in an automatic power-down mode. When used in this mode, the AD7823 powers down automatically at the end of a conversion and "wakes up" at the start of a new conversion. This feature significantly reduces the power consumption of the part at lower throughput rates. The AD7823 can also operate in a high speed mode where the part is not powered down between conversions. In this high speed mode of operation, the conversion time of the AD7823 is 4.5 μ s. The maximum throughput rate is dependent on the speed of the serial interface of the microcontroller.

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

Features

8-Bit ADC with 4 μ s Conversion Time

Small Footprint 8-Lead microSOIC Package

Specified Over a -40°C to $+125^{\circ}\text{C}$ Temperature Range

Inherent Track-and-Hold Functionality

Operating Supply Range: 2.7 V to 5.5 V

Specifications at 2.7 V to 5.5 V and 5 V \pm 10%

Microcontroller Compatible Serial Interface

Optional Automatic Power-Down

Low Power Operation: 570 μ W at 10 kSPS Throughput Rate 2.9 mW at 50 kSPS Throughput Rate

Analog Input Range: 0 V to VREF

Reference Input Range: 0 V to VDD

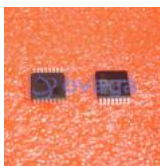


Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



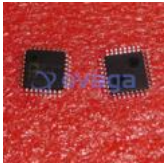
[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



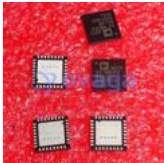
[AD7938BSUZ](#)

Analog Devices, Inc
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[AD7124-8BCPZ-RL7](#)

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[AD9680BCPZ-500](#)

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LFCSP-64