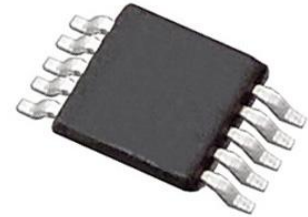


16-Bit, 250 kSPS PulSAR® ADC in MSOP/QFN; Package: MSOP; No of Pins: 10;  
Temperature Range: Industrial

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-10
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7685CRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

Power dissipation scales linearly with throughput.

The SPI-compatible serial interface also features the ability, using the SDI input, to daisy chain several ADCs on a single 3-wire bus or provides an optional BUSY indicator. It is compatible with 1.8 V, 2.5 V, 3 V, or 5 V logic using the separate supply VIO.

The AD7685 is housed in a 10-lead MSOP or a 10-lead QFN (LFCSP) with operation specified from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

## Features

16-bit resolution with no missing codes

Throughput: 250 kSPS

INL:  $\pm 0.6$  LSB typical,  $\pm 2$  LSB maximum ( $\pm 0.003\%$  of FSR)

SINAD: 93.5 dB @ 20 kHz

THD:  $-110$  dB @ 20 kHz

Pseudo differential analog input range 0 V to VREF with VREF up to VDD

No pipeline delay

Single-supply operation 2.3 V to 5.5 V with 1.8 V to 5 V logic interface

Serial interface SPI<sup>®</sup>-/QSPI<sup>™</sup>-/MICROWIRE<sup>™</sup>-/DSP-compatible

Daisy-chain multiple ADCs, BUSY indicator

Power dissipation 1.4  $\mu$ W @ 2.5 V/100 SPS 1.35 mW @ 2.5 V/100 kSPS, 4 mW @ 5 V/100 kSPS

Standby current: 1 nA

## Application

Battery-powered equipment

Medical instruments

Mobile communications

Personal digital assistants (PDAs)

Data acquisition

Instrumentation

Process controls

## Related Products



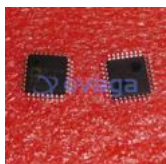
[ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



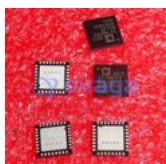
[AD574AJNZ](#)

Analog Devices, Inc  
PDIP-28



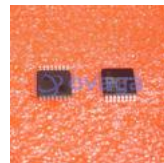
[AD7938BSUZ](#)

Analog Devices, Inc  
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc  
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc  
TQPF-32



[AD7401YRWZ](#)

Analog Devices, Inc  
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc  
TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc  
LFCSP-64