

500 kSPS 16- BIT Differential PulSAR® A/D Converter in μ SOIC/QFN; Package: MSOP; No of Pins: 10; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-10
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD7688BRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Its power 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 and 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 AD7688 is housed in a 10-lead μ SOIC or 10-lead QFN (Chip Scale package) with operation

Features

16 Bits Resolution with No Missing 16-Bit Codes

Throughput: 500 kSPS

INL: ± 0.4 LSB Typ, ± 1.5 LSB Max

S/(N+D): 95 dB @ 20 kHz

Power Dissipation: 4 mW @ 100 kSPS 4 μ W @ 100 SPS

True Differential Analog input range: $\pm V_{REF}$ 0 V to V_{REF} with V_{REF} up to V_{DD} on Both Inputs

No Pipeline Delay

Single Supply 5V Operation with 1.8V to 5 V Logic Interface

Multiple ADCs Daisy Chain, with BUSY Indicator

Serial Interface SPI/QSPI/Wire/DSP compatible

μ SOIC Package (μ SO8 Size) and 3 mm by 3 mm QFN (LFCSP) (SOT23 size)

Pin-to-Pin Compatible with the AD7685, AD7686, AD7687

Application

Battery Powered Equipment

Medical instruments

Mobile communications

Personal digital assistants

Data Acquisition

Instrumentation

Medical Instruments

Process Control





Related Products



[ADAS3022BCPZ](#)
Analog Devices, Inc
LFCSP-40



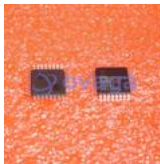
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SOIC-16



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