

18-Bit, 1.5 LSB INL, 400 kSPS PulSAR® Differential ADC in MSOP/QFN; Package: MSOP; No of Pins: 10; Temperature Range: Industrial

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



Images are for reference only

Please submit RFQ for AD7690BRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The power of the AD7690 scales linearly with the 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 VIO supply.

The AD7690 is housed in a 10-lead MSOP or a 10-lead QFN (LFCSP) with operation specified from -40°C to $+85^{\circ}\text{C}$.

Features

18-bit resolution with no missing codes

Throughput: 400 kSPS

INL: ± 0.75 LSB typ, ± 1.5 LSB max (± 6 ppm of FSR)

Dynamic range: 102 dB @ 400 kSPS

Oversampled dynamic range: 125 dB @ 1 kSPS

Noise-free code resolution: 20 bits @ 1 kSPS

Effective resolution: 22.7 bits @ 1 kSPS

SINAD: 101.5 dB @ 1 kHz

THD: -125 dB @ 1 kHz

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 5 V operation with 1.8 V/2.5 V/3 V/5 V logic interface

Application

Battery-powered equipment

Data acquisition

Seismic data acquisition systems

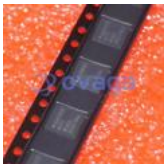
DVMs

Instrumentation

Medical instruments

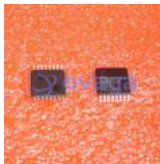


Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



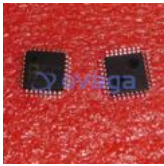
[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



[AD7401YRWZ](#)

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[AD7938BSUZ](#)

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