

24-Bit, Single-Channel, Ultra Low Power, Sigma Delta A/D Converter; 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 AD7789BRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD7788/AD7789 are low power, low noise, analog frontends for low frequency measurement applications. The AD7789 contains a low noise, 24-bit,  $\Sigma\text{-}\Delta$  analog-to-digital converter(ADC) with one differential input. The AD7788 is a 16-bit version of the AD7789.

The devices operate from an internal clock. Therefore, the user does not have to supply a clock source to the devices. The output data rate is 16.6 Hz, which gives simultaneous 50 Hz/60 Hz rejection.

The devices operate with a single power supply from 2.5 V to 5.25 V. When operating from a 3 V supply, the power dissipation for the device is 225  $\mu\text{W}$  maximum. The AD7788/AD7789 are available in a 10-lead MSOP.

## Features

24-bit resolution

Power

Supply: 2.5 V to 5.25 V operation

Normal: 75  $\mu$ A maximum

Power-down: 1  $\mu$ A maximum

RMS noise: 1.5  $\mu$ V

19-bit p-p resolution (21.5 bits effective)

Integral nonlinearity: 3.5 ppm typical

Simultaneous 50 Hz and 60 Hz rejection

Internal clock oscillator

VDD monitor channel

10-lead MSOP

## Application

Smart transmitters

Battery applications

Portable instrumentation

Sensor measurement

Temperature measurement

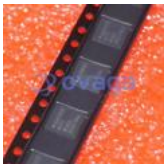
Pressure measurement

Weigh scales

4 to 20 mA loops



## Related Products



### [ADAS3022BCPZ](#)

Analog Devices, Inc  
LFCSP-40



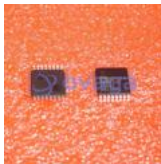
### [AD574AJNZ](#)

Analog Devices, Inc  
PDIP-28



### [AD7938BSUZ](#)

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TQFP-32



### [AD7266BSUZ](#)

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TQPF-32



### [AD7401YRWZ](#)

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SOIC-16



### [AD7192BRUZ-REEL](#)

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[AD7124-8BCPZ-RL7](#)

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