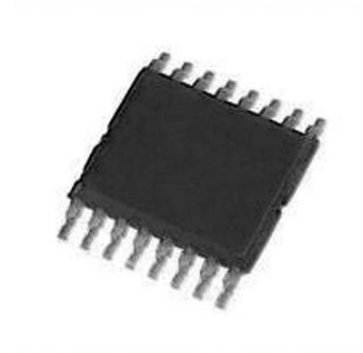


Low Power, 16-/24-Bit Sigma-Delta ADC for Bridge Sensors; Single Channel Single ADC
Delta-Sigma 123sps 24-bit Serial

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7797BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7796/AD7797 are complete, analog front ends for high precision, bridge sensor applications such as weigh scales. The AD7796/AD7797 contain a Σ - Δ ADC capable of 16-/24-bit resolution, respectively. The on-chip instrumentation amplifier has a fixed gain of 128, allowing small amplitude signals such as those from bridge sensors to be directly interfaced to the ADC.

Each device has one differential input and contains a temperature sensor that is internally connected to the ADC. This sensor can be used to perform temperature compensation of the bridge.

The devices can be operated with the internal clock or an external clock. The output data rate from the devices is software-programmable and can be varied from 4.17 Hz to 123 Hz.

The AD7796/AD7797 operate with a power supply from 2.7 V to 5.25 V. Each device consumes a current of 250 μ A typical and is housed in a 16-lead TSSOP.

Features

RMS noise: 65 nV

Instrumentation amp

Temperature sensor

Internal clock oscillator

Simultaneous 50 Hz/60 Hz rejection

Update rate range: 4.17 Hz to 123 Hz

Current: 250 μ A typ

Power-down: 1 μ A

Power supply range: 2.7 V to 5.25 V

Independent interface power supply

16-lead TSSOP

Application

Weigh scales

Strain gages

Industrial process control

Instrumentation

Portable instrumentation

Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



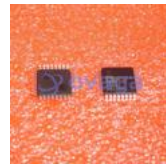
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64