

3-Channel, Low Noise, Low Power, 16-Bit, Sigma Delta ADC with On-Chip In-Amp;
Temperature Range: Industrial

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



Images are for reference only

Please submit RFQ for AD7798BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7798/AD7799 are low power, low noise, complete analog front ends for high precision measurement applications. The AD7798/AD7799 contains a low noise, 16-/24-bit Σ - Δ ADC with three differential analog inputs. The on-chip, low noise instrumentation amplifier means that signals of small amplitude can be interfaced directly to the ADC. With a gain setting of 64, the rms noise is 27 nV for the AD7799 and 40 nV for the AD7798 when the update rate equals 4.17 Hz.

On-chip features include a low-side power switch, reference detect, programmable digital output pins, burnout currents, and an internal clock oscillator. The output data rate from the part is software-programmable and can be varied from 4.17 Hz to 470 Hz.

The part operates with a power supply from 2.7 V to 5.25 V. The AD7798 consumes a current of 300 μ A typical, whereas the AD7799 consumes 380 μ A typical. Both devices are housed in a 16-lead TSSOP package.

Features

RMSnoise: 27 nV at 4.17 Hz (AD7799) 65 nV at 16.7 Hz (AD7799) 40 nV at 4.17 Hz (AD7798) 85 nV at 16.7 Hz (AD7798)

Current: 380 μ A typical

Power-down: 1 μ A maximum

Update rate: 4.17 Hz to 470 Hz 3 differential inputs

Low noise, programmable gain, instrumentation amp

Internal clock oscillator

Simultaneous 50 Hz/60 Hz rejection

Reference detect

Low-side power switch

Programmable digital outputs

Burnout currents

Power supply: 2.7 V to 5.25 V

Application

Weigh scales

Pressure measurement

Strain gauge transducers

Gas analysis

Industrial process control

Instrumentation

Portable instrumentation

Blood analysis

Smart transmitters

Liquid/gas chromatography 6-digit
DVM

Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



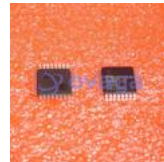
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

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LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)

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TSSOP-24



[AD9680BCPZ-500](#)

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LFCSP-64