

AD7606BSTZ-RL

Data Sheet

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Analog to Digital Converters

Manufacturers	Analog Devices, Inc	
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Product Type	Data Conversion ICs	attern par
RoHS	Rohs	
Lifecycle		Images are for reference only
Please submit RFQ for AD7606BSTZ-RL or Email to us: sales@ovaga.com We will contact you in 12 hours.		

General Description

The AD7606/AD7606-6/AD7606-4 are 16-bit, simultaneous sampling, analog-to-digital data acquisition systems (DAS) with eight, six, and four channels, respectively. Each part contains analog input clamp protection, a second-order antialiasing filter, a track-and-hold amplifier, a 16-bit charge redistribution successive approximation analog-to-digital converter (ADC), a flexible digital filter, a 2.5 V reference and reference buffer, and high speed serial and parallel interfaces.

The AD7606/AD7606-6/AD7606-4 operate from a single 5 V supply and can accommodate ± 10 V and ± 5 V true bipolar input signals while sampling at throughput rates up to 200 kSPS for all channels. The input clamp protection circuitry can tolerate voltages up to ± 16.5 V. The AD7606 has 1 MQ analog input impedance regardless of sampling frequency. The single supply operation, on-chip filtering, and high input impedance eliminate the need for driver op amps and external bipolar supplies. The AD7606/AD7606-6/AD7606-4 antialiasing filter has a 3 dB cutoff frequency of 22 kHz and provides 40 dB antialias rejection when sampling at 200 kSPS. The flexible digital filter is pin driven, yields improvements in SNR, and reduces the 3 dB bandwidth.

Features

- 8/6/4 simultaneously sampled inputs True bipolar analog input ranges: ± 10 V, ± 5 V Single 5 V analog supply and 2.3 V to 5 V VDRIVE Fully integrated data acquisition solution
- Input buffer with 1 M Ω analog input impedance
- Second-order antialiasing analog filter

Analog input clamp protection

- On-chip accurate reference and reference buffer
- 16-bit ADC with 200 kSPS on all channels
- Oversampling capability with digital filter
- Flexible parallel/serial interface
- SPI/QSPITM/MICROWIRETM/DSP compatible
- Performance
- 7 kV ESD rating on analog input channels
- 95.5 dB SNR, -107 dB THD
- Low power: 100 mW
- Standby mode: 25 mW
- Temperature range: -40° C to $+85^{\circ}$ C
- 64-lead LQFP package

Related Products



ADAS3022BCPZ Analog Devices, Inc

LFCSP-40



AD574AJNZ

Analog Devices, Inc PDIP-28

Application

Power-line monitoring and protection systems

- Multiphase motor control
- Instrumentation and control systems
- Multiaxis positioning systems
- Data acquisition systems (DAS)



AD7266BSUZ

Analog Devices, Inc TQPF-32

AD7401YRWZ

Analog Devices, Inc SOIC-16



AD7938BSUZ

Analog Devices, Inc TQFP-32



AD7192BRUZ-REEL

Analog Devices, Inc TSSOP-24



AD7124-8BCPZ-RL7 Analog Devices, Inc

LFCSP-32



AD9680BCPZ-500

Analog Devices, Inc LFCSP-64