



ADS7817

PRELIMINARY INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE

12-Bit Differential Input Micro Power Sampling ANALOG-TO-DIGITAL CONVERTER

FEATURES

- **BIPOLAR INPUT RANGE**
- TRUE DIFFERENTIAL INPUT
- 200kHz SAMPLING RATE
- MICRO POWER: 2.3mW at 200kHz
- POWER DOWN: 3µA Max
- AVAILABLE IN 8-LEAD MSOP PACKAGE
- SERIAL INTERFACE
- AC COMMON-MODE REJECTION

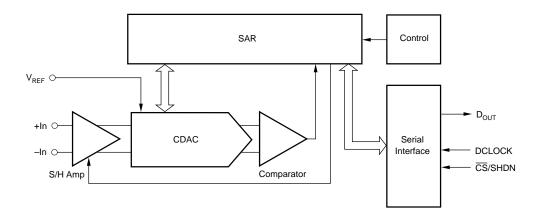
APPLICATIONS

- TRANSDUCER INTERFACE
- BATTERY OPERATED SYSTEMS
- REMOTE DATA ACQUISITION
- ISOLATED DATA ACQUISITION
- AC MOTOR CONTROL

DESCRIPTION

The ADS7817 is a 12-bit, 200kHz sampling analog-to-digital converter that features a high impedance fully differential analog input. The reference voltage can be varied from 100mV to 2.5V, with a corresponding input-referred resolution between $49\mu V$ and 1.22mV.

The differential input, low power, automatic power down, and small size make the ADS7817 ideal for direct connection to transducers in battery operated systems, remote data acquisition, or multi-channel applications. The ADS7817 is available in an 8-pin plastic mini-DIP, an 8-lead SOIC, or an 8-lead MSOP package.



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