



# 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: 3 $\mu$ A 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.

