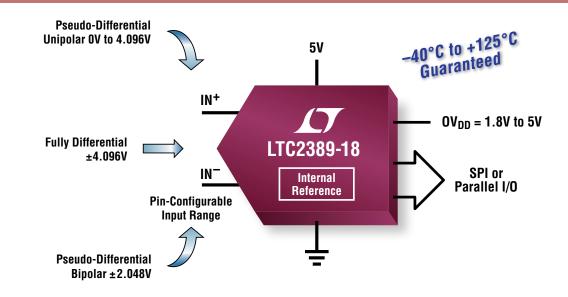
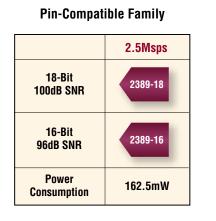
18-Bit 2.5Msps SAR ADC 100dB SNR

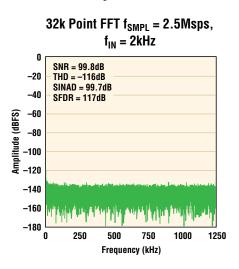


All-in-One ADC with Configurable Input Ranges and Digital I/O

The LTC[®]2389 18-bit/16-bit, 2.5Msps pin- and timing-compatible, no-latency SAR ADCs feature unrivaled 100dB SNR at 18-bits and 96dB SNR at 16-bits. This all-in-one ADC includes a pin-configurable analog input range, adding flexibility to the input signal chain design and a serial and parallel digital interface. The precision 20ppm/°C (max) internal reference with buffer reduces external components and saves board space.



www.linear.com/product/LTC2389 1-800-4-LINEAR



🗸 Features

- 2.5Msps Throughput Rate
- 100dB SNR (typ) at $f_{IN} = 2kHz$
- \pm 3LSB INL (max), \pm 0.9LSB DNL (max)
- Pin-Configurable Analog Input Range:
 Fully Differential ±4.096V
 Pseudo-Differential Unipolar
 - OV to 4.096V - Pseudo-Differential Bipolar ±2.048V
- Pseudo-Differential Bipolar ± 2.048 V
- Internal 20ppm/°C (max) Reference
- No Pipeline Delay, No Cycle Latency
- 48-pin 7mm x 7mm LQFP and QFN Packages

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