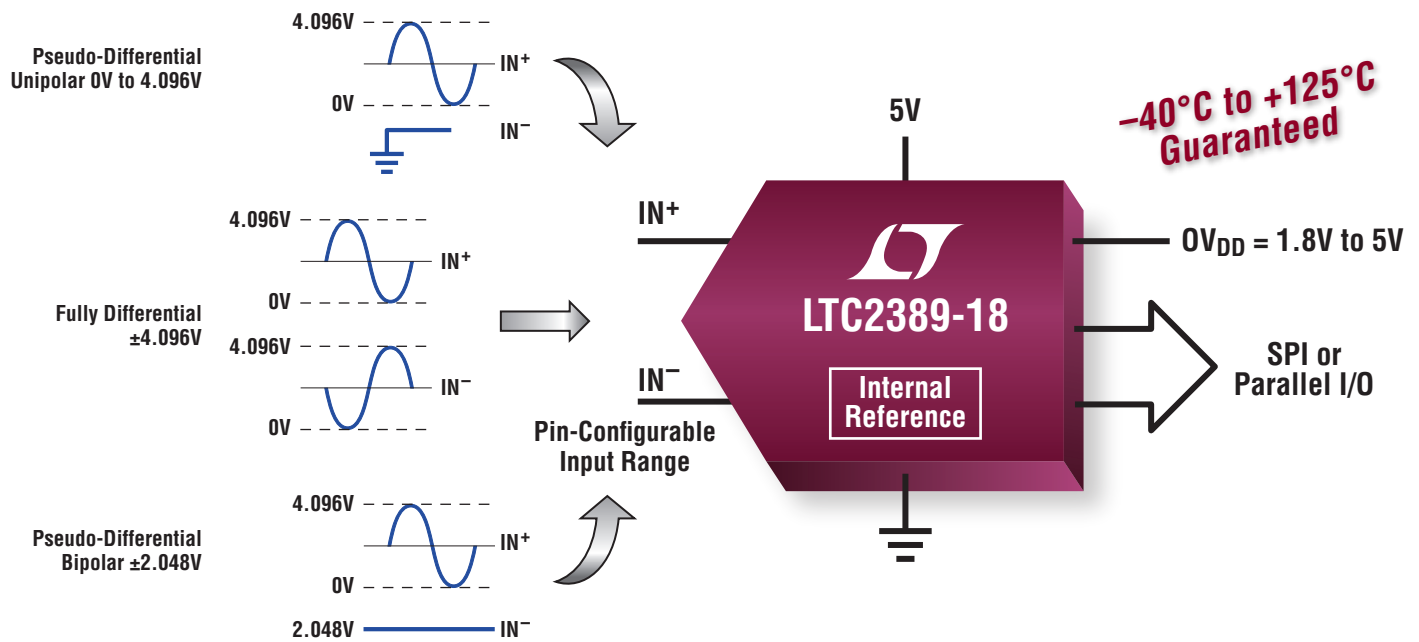


18-Bit, 2.5Msps SAR ADC 100dB SNR



Pin-Configurable Fully Differential or Pseudo-Differential Input Range

Features

- 18-Bit/16-Bit No Latency, 2.5Msps Pin- and Timing-Compatible SAR ADCs
- Wide $\pm 4.096V$ Fully Differential Inputs Maximize Dynamic Range to Achieve 100dB SNR Performance
- Pin-Configurable Input Ranges $\pm 4.096V$, $\pm 2.048V$ or $0V$ to $4.096V$ Allow Flexibility in the Input Signal Chain
- Precision DC Specifications Feature $\pm 3LSB$ INL (Max) and 18 Bits No Missing Codes Resolution
- Precision $20ppm/^{\circ}C$ (Max) Internal Reference and Reference Buffer Reduce External Components and Save Board Space

18-Bit/16-Bit Pin-Compatible Serial/Parallel I/O SAR ADCs

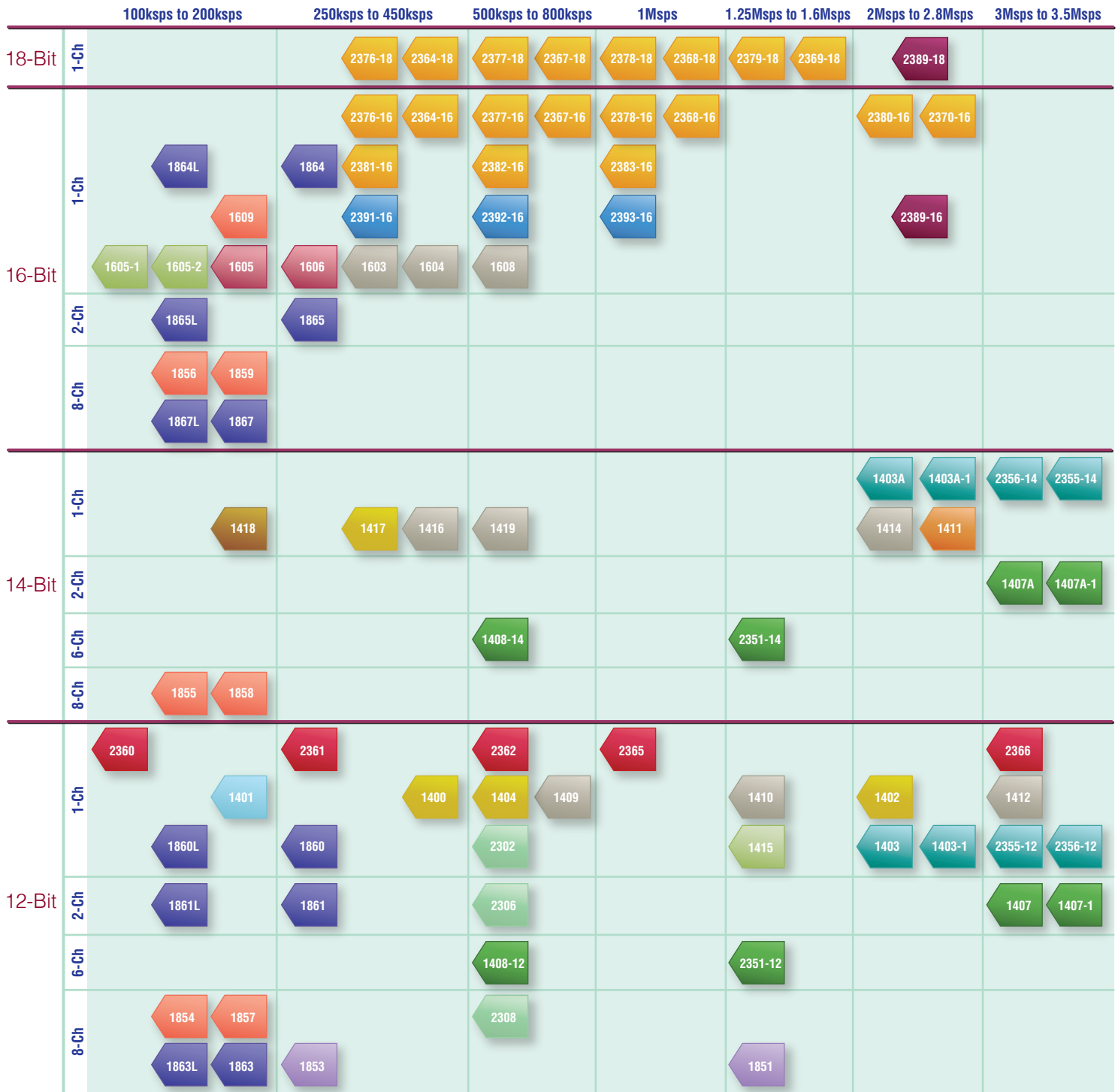
	2.5Msps	SNR	Power Consumption	Packages
18-Bit	2389-18	100dB	162.5mW	48-Pin 7mm × 7mm LQFP and QFN
16-Bit	2389-16	96dB	162.5mW	



LT, LT, LTC, LTM, Linear Technology and the Linear logo are registered trademarks of Linear Technology Corporation. All other trademarks are the property of their respective owners.

General Purpose SAR ADCs

12-Bit to 18-Bit Resolution, 100ksps Up to 3.5Msps



Serial

- 16- and 18-Bit 250ksps to 2Msps Pin-Compatible ADCs
- 5V SPI ADCs in Tiny DFN/QFN
- 0V to 2.5V, $\pm 1.25V$ Unipolar/Bipolar Input ADCs in MSOP-10
- 3V Pin-Compatible ADCs in TSOT-6/TSOT-8 Packages
- 0V to 4V, $\pm 2V$ Unipolar/Bipolar Inputs with 5V, $\pm 5V$ Supply
- Simultaneous Sampling ADCs
- $\pm 10V$ Bipolar Input ADCs
- 0V to 2.048V Input, ADC in SO-8
- 3V/5V μ Power ADCs

Serial/Parallel

- Pseudo- or Fully Differential Pin-Compatible ADCs
- Fully Differential Pin-Compatible ADCs
- 0V to 4.096V, $\pm 2.048V$ Unipolar/Bipolar Inputs with 5V or $\pm 5V$ Supply

Parallel

- Bipolar $\pm 10V$ Input ADCs
- 3V/5V μ Power ADCs
- 0V to 4V, $\pm 4V$ Unipolar/Bipolar Inputs with Single $\pm 5V$ Supply
- $\pm 2.5V$ Bipolar Inputs with Single $\pm 5V$ Supply
- $\pm 1.8V$ SoftSpan™ Input with 5V Supply