



Tiny 14-/12-Bit 2.8Msps ADCs Now Guaranteed to +125°C

MILPITAS, CA – May 16, 2007 – Linear Technology Corporation introduces the LTC1403AH, a 14-bit, 2.8Msps SAR ADC guaranteed over the automotive -40°C to +125°C temperature range. The LTC1403AH operates from a single 2.7V to 3.6V supply, draws only 14mW at 2.8Msps, and is available in a tiny 10-lead MSOP package. This ADC includes an internal reference, measures a single differential 0V to 2.5V input signal, and communicates via a simple 3-wire serial interface. The LTC1403AH is targeted for automotive applications such as baseband radar measurements, gas sensors and accelerometer sensing.

The LTC1403AH features 5MHz full linear bandwidth and achieves 76.3dB SINAD and -90dB SFDR at 100kHz. While measuring 0V to 2.5V unipolar inputs differentially, the LTC1403AH's 80dB common mode rejection ratio allows users to reduce the effects of ground loops and common mode noise. When the ADC is not converting, power dissipation can be reduced to 3mW in Nap mode, with the internal 2.5V reference remaining active, and 6uW with all internal circuitry powered down in Sleep mode.

The LTC1403H is a pin- and software-compatible 12-bit version of the LTC1403AH for performance/cost optimization. Both of these ADCs are available today and specified over the H-grade (-40°C to +125°C), I-grade (-40°C to +85°C) and C-grade (0°C to +70°C) temperature ranges. For the 14-bit LTC1403A, pricing begins at \$9.65 each for H-grade and \$7.00 each for C-grade. For the 12-bit LTC1403, pricing begins at \$5.50 each for H-grade and \$4.00 each for C-grade, all in 1,000-piece quantities.

Photo Caption: 2.8Msps ADC in MSOP-10 Package Now Available in H-Grade**Summary of Features: LTC1403AH/LTC1403H**

- 2.8Msps Conversion Rate
- Guaranteed Automotive Temperature Range (-40°C to +125°C)
- 14-Bit/12-Bit Resolution (LTC1403AH/LTC1403H)
- Low Power Dissipation: 14mW at 2.8Msps
 - Sleep (6uW) Shutdown Mode
 - Nap (3mW) Shutdown Mode
- 3V Single Supply Operation
- 5MHz Full Linear Bandwidth
- 2.5V Internal Bandgap Reference Can Be Overdriven
- 3-Wire Serial Interface
- 80dB Common Mode Rejection
- 0V to 2.5V Unipolar Input Range
- Tiny 10-Lead MSOP Package

About Linear Technology

Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P 500 index of major public companies in 2000. Linear Technology products include high performance amplifiers, comparators, voltage references, monolithic filters, linear regulators, DC-DC converters, battery chargers, data converters, communications interface circuits, RF signal conditioning circuits, and many other analog functions. Applications for Linear Technology's high performance circuits include telecommunications, cellular telephones, networking products such as optical switches, notebook and desktop computers, computer peripherals, video/multimedia, industrial instrumentation, security monitoring devices, high-end consumer products such as digital cameras and MP3 players, complex medical devices, automotive electronics, factory automation, process control, and military and space systems. For more information, visit www.linear.com

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