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Pin- & Software-Compatible 16-/12-Bit ADCs in MSOP Packages Guaranteed to +125°C

MILPITAS, CA – January 24, 2008 – Linear Technology Corporation introduces a family of pin- and software-compatible 16- and 12-bit SAR ADCs (Analog-to-Digital Converters) that guarantee operation across the -40°C to +125°C automotive temperature range. Operating from a single 5V supply, the 16-bit LTC1864/LTC1865 and 12-bit LTC1860/LTC1861 each draw only 850uA and are guaranteed for output rates up to 250ksps. The LTC1864 and LTC1860 are pin- and software-compatible ADCs that measure a single differential channel in a tiny MSOP-8 package. The LTC1865 and LTC1861 are pin- and software-compatible ADCs that measure two single-ended channels in an MSOP-10 package.

All four ADCs communicate via a 3-wire SPI-compatible serial interface. Their tiny size, low power, and guaranteed -40°C to +125°C temperature range make these ADCs a great fit for high-resolution automotive applications such as temperature sensing, airflow sensing, or engine fluid measurement. The LTC1860, LTC1861, LTC1864, and LTC1865 are the highest resolution, smallest solution size family of automotive-grade SAR ADCs available on the market today.

The LTC1860, LTC1861, LTC1864, and LTC1865 automotive grade ADCs are all available today. Pricing begins at \$2.91 for 1,000-piece quantities.


Photo Caption: 16-/12-Bit 250ksps SAR ADCs Guaranteed Up to +125°C

Summary of Features: LTC1860/LTC1861/LTC1864/LTC1865

- -40°C to +125°C Guaranteed Operation
- 250ksps Sample Rate
- Pin- and Software-Compatible MSOP-8 (LTC1860/LTC1864) & MSOP-10 (LTC1861/LTC1865) Packages
- 16-Bit Resolution (LTC1864/LTC1865)
- 12-Bit Resolution (LTC1860/LTC1861)
- Single Differential Input (LTC1860/LTC1864)
- Dual Single-Ended Inputs (LTC1861/LTC1865)
- Low Supply Current:
 - 850uA at 250ksps
 - 2uA at 1ksps
- 3-Wire SPI-Compatible Serial Interface

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, uModule™ products, 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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