

***LTC News for Immediate Release***

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**16-Bit, 175ksps, 3V Multichannel ADC Offers  
Low Power with Excellent Linearity**

MILPITAS, CA – March 7, 2005 – Linear Technology Corporation introduces the LTC1867L, a 16-bit, 8-channel, 175ksps, 3V supply analog to digital converter, offering low power without compromising speed or linearity. The LTC1867L draws only 2.7mW<sub>MAX</sub> at full speed, roughly one-half the power of competing devices. The power automatically drops at reduced speeds, typically 0.9mW at 50ksps. This device maintains excellent DC performance providing 16-bit no missing codes over temperature and  $\pm 3$  LSB<sub>MAX</sub> INL. The LTC1867L is ideal for low power applications such as portable instrumentation, industrial process control and medical applications.

The LTC1867L offers an easy to use multiplexer and serial interface. The multiplexer allows any combination of single-ended inputs or differential inputs in either unipolar (0V to 2.5V) mode or bipolar ( $\pm 1.25$ V) mode. The accuracy of the ADC is independent of the shift clock frequency, allowing these parts to operate in opto-isolation or very low power applications.

The device is also available in a 12-bit version, the LTC1863L. Both are available in pin compatible 5V supply versions (LTC1867/LTC1863) and narrow SSOP-16 packages, providing a pin-compatible family for performance/cost optimization in the end product. The LTC1867L/LTC1863L are available in the commercial and industrial temperature ranges.

Pricing begins at \$7.75 each for the LTC1867L and \$3.85 each for the LTC1863L both in 1000-piece quantities.

(more...)

## Summary of Features: LTC1863L and LTC1867L

- 12-bit (LTC1863L) and 16-bit (LTC1867L) No Missing Code Resolution
- LTC1867L;  $\pm 3 \text{ LSB}_{\text{MAX}}$  INL, 83.3dB SNR
- LTC1863L;  $\pm 1 \text{ LSB}_{\text{MAX}}$  INL, 73.2dB SNR
- Single 3V Supply
- On-Board 1.25V Reference
- Low Supply Current: 0.75mA (Typ) at 175ksps
- Autoshtutdown Reduces Supply Current to 0.3mA at 50ksps
- True Differential Inputs Reject Common Mode Noise
- SPI/MICROWIRE™ Compatible Serial I/O
- Pin Compatible narrow SSOP-16 Package

COMPANY BACKGROUND: Linear Technology Corporation was founded in 1981 as a manufacturer of high performance linear integrated circuits. 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.

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