LTC News for Immediate Release

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I^2C Controllable Buck Regulator in 3mm x 3mm DFN

MILPITAS, CA – July 14, 2005 – Linear Technology Corporation announces the LTC3447, a 600mA, high efficiency, current mode buck regulator in a 3mm x 3mm DFN-10 package. Using an onboard I^2C^{TM} interface, the output voltage can be set between 0.69V and 2.05V using an internal 6-bit DAC. The LTC3447's 2.5V to 5.5V input voltage range makes it ideal for powering Intel's xScale microprocessor core voltage in single Li-Ion or multi-cell alkaline/NiCd/NiMH battery-powered applications.

The LTC3447 synchronous buck regulator can deliver up to 600mA of output current with efficiencies of up to 93%. The I^2C interface frequency can be set at either the standard 100kHz or the 400kHz "fast mode" while output voltages can be programmed with 21.6mV resolution. A constant 1.0MHz switching frequency ensures low noise and allows the use of tiny surface mount inductors and capacitors. For extended battery life automatic Burst Mode® operation reduces light load supply current to only 33uA dropping to 1uA in shutdown. For low noise applications, the Burst Mode feature can be disabled. Other features include soft-start and start up Power Good blanking.

The LTC3447 is available in a 3mm x 3mm DFN-10 is available from stock. Pricing starts at $1.95 each for 1,000-piece quantities.

(more...)

Summary of Features: LTC3447

- I²C Programmable Output with 21.6mV Resolution
- High Efficiency: Up to 93%
- Very Low Quiescent Current: Only 33uA
- 600mA Output Current at VIN = 3V
- 2.5V to 5.5V Input Voltage Range
- 1MHz Constant Frequency Operation
- Low Dropout Operation: 100% Duty Cycle
- Stable with Ceramic Capacitors
- ±2% Output Voltage Accuracy
- Standard (100kHz) or Fast Mode (400kHz) I²C
- 6-Bit Voltage DAC (0.69V to 2.05V)
- 10 Lead, 3mm x 3mm DFN 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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READER SERVICE: Call toll-free 1-800-4-LINEAR (for literature only), or go to the company's web site: **http://www.linear.com**

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