

LTC News for Immediate Release

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**Dual 1.3A, 1.2MHz Boost and Inverting DC/DC Converter
Delivers Big Power in 9mm²**

MILPITAS, CA – November 8, 2004 – Linear Technology Corporation announces the LT3471, a dual channel (boost/inverter), 1.3A, 1.2MHz DC/DC converter packaged in a 3mm x 3mm DFN. It can be configured as a dual boost, a boost/inverter, or a dual inverter, since the output voltage error amplifiers can sense to ground, providing boost or inverting control capability. The LT3471 input voltage range of 2.4V to 16V makes it ideal for Li-Ion, multiple cell Alkaline/NiMH batteries, as well as 12V power. The device's low V_{CESAT} bipolar switches enable it to deliver 42V high current outputs from a tiny 9mm² package. The LT3471 switches at 1.2MHz, allowing the use of tiny, low cost, low profile inductors and capacitors. High inrush current at start-up is eliminated using a programmable soft-start function, where an external RC sets the current ramp rate. A constant frequency current mode PWM architecture results in low, predictable output noise that is easy to filter.

The LT3471 switches are rated at 42V, making the device ideal for boost converters up to 40V as well as SEPIC and flyback designs. Each channel can generate 5V at up to 630mA from a 3.3V supply, or 5V at 360mA from four alkaline cells in a SEPIC design. The LT3471 is available in a low profile (0.75mm) 10-lead 3mm x 3mm DFN package, providing the smallest solution for high current dual boost/inverter applications.

The LT3471EDD is available from stock and pricing starts at \$2.80 each for 1,000-piece quantities.

(more...)

Summary of Features: LT3471

- 1.2MHz Switching Frequency
- Dual Low V_{CESAT} Switches: 330mV at 1.3A
- High Output Voltage: Up to $\pm 40V$
- Wide Input Range: 2.4V to 16V
- 5V at 630mA from 3.3V Input
- 12V at 320mA from 5V Input
- $-12V$ at 200mA from 5V Input
- Uses Tiny Surface Mount Components
- Low Profile (0.75mm) 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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