

LTC News for Immediate Release

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**3A, 3.5MHz, 42V Boost Converter, Ideal as Boost,
Inverter or High Current LED Driver**

MILPITAS, CA – November 16, 2004 – Linear Technology Corporation announces the LT3479, a current mode, fixed frequency step-up DC/DC converter with an internal 3A, 42V switch. It operates from an input voltage range of 2.5V to 24V making it suitable for applications with input sources ranging from a single cell Li-Ion to a 20V wall adapter. Both inputs of the error amplifier are available to the user, permitting use as a boost converter or an inverter. Its 42V switch enables outputs as large as $\pm 40V$. It can also drive two high current white LEDs (in series) with current as high as 700mA from a single Li-Ion cell. In addition, its switching frequency can be programmed, via a single resistor, between 300kHz and 3.5MHz, enabling the designer to minimize external component sizes and avoid “noise critical” frequency bands in the system. A tiny/low profile inductor and ceramic capacitors keep solution footprints very compact while minimizing solution cost.

The LT3479’s low V_{CESAT} switch, 0.3V at 2.5A, delivers efficiencies of up to 89%. The device features a programmable soft-start function to limit inductor current during start-up as well as inrush current protection to protect the LT3479 during shorts and line transients. The low profile (0.75mm) 14-pin, 4mm x 3mm DFN-14 package provides excellent thermal performance in a small footprint. The LT3479 is also available in a thermally enhanced 16-pin TSSOP package.

Both the LT3479EDE in a 4mm x 3mm DFN-14 package and the LT3479EPE TSSOP-16E version are available from stock. Pricing for both package options starts at \$3.00 each for 1,000-piece quantities.

(more...)

Summary of Features: LT3479

- Wide Input Voltage Range: 2.5V to 24V
- 3A, 42V Internal Switch
- High Efficiency Power Conversion: Up to 89%
- Integrated Soft-Start
- Frequency Set by External Resistor: 200kHz to 3.5MHz
- Device Protected Against Input Short Circuits and Hot Plugging
- Low V_{CESAT} Switch: 0.3V at 2.5A (Typical)
- Capable of Positive and Negative Outputs
- Available in Thermally Enhanced 14-Lead (4mm x 3mm) DFN-14 and 16-Lead TSSOP Packages

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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