

***LTC News for Immediate Release***

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**Boost and Inverting DC/DC Converter for CCD Bias  
Delivers 20mA @15V and 50mA @ -8V from Li-Ion Battery**

MILPITAS, CA – October 5, 2004 – Linear Technology Corporation announces the LT3472; a dual channel (boost/inverter),  $\pm 34V$ , 1.1MHz DC/DC converter that generates positive and negative outputs for biasing CCD imagers. Its internal 350mA/400mA,  $\pm 36V$  switches can deliver up to 20mA at 15V and 50mA at -8V from Li-Ion batteries, providing bias for many popular CCD (Charge-Coupled Device) imagers. Its input voltage range of 2.2V to 16V enables inputs that range from Li-Ion to multiple cell Alkaline/NiMH batteries. Switching at 1.1MHz, the LT3472 uses tiny, low profile capacitors and inductors and generates low noise outputs that are easy to filter. Schottky diodes are internal and the output voltages are set with one resistor per channel, reducing external component count. Packaged in a 3mm x 3mm DFN, the entire solution has less than 1mm profile and occupies just 50mm<sup>2</sup>.

The LT3472 incorporates internal sequencing circuitry that disables the negative channel until the positive channel has reached 88% of its final value, ensuring that the sum of the two outputs is always positive. Separate soft-start capacitors for each output allow the ramp of each output to be independently controlled.

The LT3472EDD is available from stock, price starting at \$1.95 each for 1,000-piece quantities.

(more...)

## Summary of Features: LT3472


- Generates 15V at 20mA, -8V at 50mA from a Li-Ion Cell
- Internal Schottky Diodes
- Capacitor-Programmable Soft-Start
- Input Voltage ge: 2.2V to 16V Outputs to  $\pm 34V$
- Sequencing: Positive Output Reaches 88% of Final Value Before Negative Output Begins
- Requires Only One Resistor to Set Output Voltage
- Constant Switching Frequency Ensures Low Noise Outputs
- Available in a 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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