

***LTC News for Immediate Release***

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**1.4A, 1.5MHz Synchronous Step-Up DC/DC Converter with  
Output Disconnect**

MILPITAS, CA – February 22, 2005 – Linear Technology Corporation announces the LTC3458, a 1.4Amp, 7.5V, 1.5MHz synchronous step-up DC/DC converter with inrush current limiting and output disconnect. Its wide 1.5V to 6V input voltage range enables the LTC3458 to operate from a dual-cell alkaline/NiMH/NiCd battery, a single-cell Li-Ion, or USB power. It can deliver outputs up to 7.5V with efficiencies up to 93%. Its switching frequency is programmable up to 1.5MHz, allowing designers to keep switching noise out of noise-sensitive circuitry and enabling the use of tiny capacitors and inductors. The combination of the LTC3458's high efficiency switch and tiny 4mm x 3mm DFN package provides 1.4A of high efficiency boost capability in a very compact form factor.

For light load efficiency, the LTC3458 utilizes programmable Burst Mode<sup>®</sup> operation to reduce quiescent current to less than 15uA. The current threshold at which the Burst Mode operation begins is user-programmable, enabling designers to optimize battery run-time. Switching frequency is also programmable from 400kHz to 1.5MHz via a single resistor. Other features include current mode operation, programmable soft-start and a programmable current limit.

The LTC3458EDE is available from stock in a low profile (0.75mm) 4mm x 3mm DFN package. Pricing starts at \$3.30 each for 1,000-piece quantities.

(more...)

### Summary of Features: LTC3458

- Programmable Output Voltages up to 7.5V
- 1.5V to 6V Input Range
- High Efficiency: Up to 93%
- Inrush Current Limiting and Output Disconnect
- Programmable/Synchronizable Fixed Frequency Operation up to 1.5MHz
- Programmable Automatic Burst Mode® Operation
- Current Mode Control with Programmable Soft-Start and Peak Current Limit
- 700mA at 7V from 5V Input
- 0.30 Ohm N-Channel and 0.4 Ohm P-Channel 1.4A Switches
- Ultralow Quiescent Currents: 15uA Sleep, <1uA in Shutdown
- 3mm x 4mm DFN-12 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>**

**Note:** LT, LTC and Burst Mode  are registered trademarks and Soft-Start is a trademark of Linear Technology Corp.