

***LTC News for Immediate Release***

For more information, tel. 408-432-1900  
Doug Dickinson, Media Relations Mgr., ext. 2233  
[www.linear.com](http://www.linear.com)

**Complete Standalone 1-to 16-Cell NiMH/NiCd Fast Battery Charger in  
Compact TSSOP-16 Package**

MILPITAS, CA – October 11, 2005 – Linear Technology Corporation introduces the LTC4010, a complete NiMH/NiCd battery charger solution that requires no microcontroller or firmware programming. The LTC4010 includes charge initiation, monitoring, protection, charge termination and constant current control circuitry for a fast, autonomous charger solution. The IC can fast charge 1- to 16-cell NiMH or NiCd batteries at rates up to 4A from a wide range of input supplies and wall adapter voltages from 5.5V to 34V. Both  $-\Delta V$  and  $\Delta T/\Delta t$  charge termination can be active simultaneously, in addition to a programmable safety timer. The LTC4010 is ideal for use in portable instruments, diagnostic and control systems as well as back-up battery management equipment.

The step-down constant current controller uses synchronous rectification to allow high current charging with high efficiency from input voltages up to 34V. Furthermore, the LTC4010's 550kHz operating frequency enables the use of small sized inductors and capacitors, minimizing printed circuit board area. Other features include battery qualification, recharge and Top-Off (for NiMH). The LTC4010 provides output signals for indicating READY, end-of-charge, and FAULT status conditions.

The LTC4010CFE is offered in the thermally enhanced 16-lead TSSOP package and is rated for operation from 0°C to 85°C. The 1,000-piece quantity pricing starts at \$4.45 each.

(more...)

## Summary of Features: LTC4010

- Complete NiMH/NiCd Charger for 1 to 16 Cells
- No Microcontroller or Firmware Required
- 550kHz Synchronous PWM Current Source Controller
- Precision 5% Accurate Programmable Charge Current
- Wide Input Voltage Range from 5.5V to 34V
- $-\Delta V$  and/or  $\Delta T/\Delta t$  Fast Charge Termination
- Automatic NiMH Top-Off Charge
- Compact, Thermally-Enhanced 16-Lead TSSOP Package

COMPANY BACKGROUND: Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P index of major public companies in 2000. 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. For more information, visit [www.linear.com](http://www.linear.com) or contact:

Doug Dickinson, Media Relations Manager

**Linear Technology Corporation**


1630 McCarthy Boulevard

Milpitas, CA 95035-7417

[ddickinson@linear.com](mailto:ddickinson@linear.com)

408-432-1900

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  are registered trademarks of Linear Technology Corp.