

LTC News for Immediate Release

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**Fast 4A 1-Cell Li-Ion SMBus Battery Charger
Needs No Microcontroller**

MILPITAS, CA – June 26, 2006 – Linear Technology Corporation introduces the LTC4101, a fast, precision smart battery charger controller that operates with or without a host microcontroller. The IC is 100% compliant with Rev. 1.1 SMBus specifications and meets the requirements of Smart Battery System (SBS) Level 2 charging functions. It is optimized for 3V to 5.5V charging voltages, suitable for 1-cell Li-Ion and 3- to 4-cell nickel-chemistry batteries. It is capable of fast charging up to 4A with 0.8% voltage accuracy and 4% current accuracy. Synchronous switching operation provides high efficiency charging from a wide input supply voltage range of 6V to 28V. The LTC4101 is housed in a small 24-pin SSOP package and is ideal for use in portable computers and instruments.

For flexibility, the LTC4101 integrates a 10-bit DAC for charge current programming and an 11-bit DAC for charge voltage programming. Using the charger's input current limit feature, a maximum charge rate is achieved without overloading the input supply, such as a wall adapter. The SMBus interface remains alive when the input power is removed and responds to all SMBus activity directed to it, including SafetySignal status, which in tandem with the IC automatically monitors the battery temperature, connectivity and battery type information.

The LTC4101 is rated for operation from -40°C to 85°C. Pricing starts at \$5.00 each in 1,000-piece quantities.

(more...)

Photo Caption: Smart Battery Charger Controller**Summary of Features: LTC4101**

- 100% Compliant (Rev. 1.1) SMBus Support Operates with or without Host Microcontroller
- High Efficiency Synchronous Buck Switching Charger
- Fast 4A Charge Current Capability
- Optimized 3V to 5.5V Charging Voltage Range
- SMBus Accelerator Improves SMBus Timing
- AC Adapter Current Limit Maximizes Charge Rate
- $\pm 0.8\%$ Voltage Accuracy; $\pm 4\%$ Current Accuracy
- 0.5V Dropout Voltage; Maximum Duty Cycle $>98\%$
- Small 24-Pin Narrow SSOP Package

About Linear Technology

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 500 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

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