

***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)

**48V Hot Swap Controller Includes On-Chip ADC for  
Current & Voltage Monitoring**

MILPITAS, CA – October 13, 2004 – Linear Technology Corporation introduces the LTC4260, a positive high voltage Hot Swap<sup>™</sup> controller that features an on-chip 8-bit ADC and I<sup>2</sup>C compatible interface. This allows for sophisticated power monitoring by measuring card voltages and currents as well as recording past and present fault conditions.

Information in the ADC's registers can be queried via the I<sup>2</sup>C bus to determine if a card is actually using its allocated power or if it is operating abnormally. An irregular card can be flagged for service, perhaps even before it fails. The advanced power monitoring and hot swap capabilities, combined with a wide input voltage range of 8.5V up to 80V, make the LTC4260 ideally suited for high availability telecom/network equipment, where careful monitoring of the health and integrity of the power distribution network is crucial.

The Hot Swap controller is designed to turn the supply voltage on and off in a controlled manner. The active current limiting results in a controlled rise in the voltage across the card capacitance and protects the backplane supply from voltage drops. The LTC4260 disconnects the load if it remains in current limit beyond the adjustable time-out delay and can be configured to latch off or autoretry following the event. In addition, the LTC4260 monitors for under/overvoltage conditions and uses its feedback and power good comparators to determine the output voltage status.

Specified over the commercial and industrial temperature ranges, the LTC4260 is available from stock in 24-lead SO, Narrow SSOP and 32-lead 5mm x 5mm QFN packages. Pricing begins at \$6.50 each in 1,000-piece quantities.

(more...)

## Summary of Features: LTC4260

- Allows Safe Insertion into Live Backplane
- 8-Bit ADC Monitors Current and Voltage
- I<sup>2</sup>C /SMBus Compatible Interface
- Wide Operating Voltage Range: 8.5V to 80V
- High Side Drive for External N-Channel MOSFET
- Input Overvoltage/Undervoltage Protection
- Optional Latchoff or Autoretry After Faults
- Alerts Host After Faults
- Foldback Current Limit
- Available in 24-Lead SO, Narrow SSOP and 32-Lead QFN 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.

For more information, 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 and Hot Swap is a trademark of Linear Technology Corp.