

LTC News for Immediate Release

For more information, tel. 408-432-1900
John Hamburger, Dir., Mktg Communications, ext. 2419
Doug Dickinson, Media Relations Mgr., ext. 2233
www.linear.com

**-48V Hot Swap Controller with Onboard ADC & I²C Interface
Monitors Board Current, Voltages & Faults**

MILPITAS, CA – October 3, 2005 – Linear Technology Corporation introduces the LTC4261, a negative high voltage Hot Swap™ controller. It features an onboard 10-bit ADC and I²C compatible interface, allowing sophisticated power monitoring by measuring card voltages and currents as well as recording past and present fault conditions. The LTC4261 complements Linear Technology's LTC4260, a positive 48V Hot Swap controller that also features an onboard ADC and I²C interface.

Information in the ADC's registers can be queried via the I²C bus and then used to determine if a card is actually using its allocated power, or operating abnormally. An irregular card can be flagged for service even before it fails. This advanced power monitoring, combined with a wide input voltage range of -12V to -100V and Hot Swap capabilities, make the LTC4261 ideally suited for high availability telecom/network equipment, such as AdvancedTCA systems. In these systems, careful monitoring of the health and integrity of the power distribution networks is crucial.

The LTC4261 is also designed to turn the supply voltage on and off in a controlled manner. The active current limiting results in a controlled rise in voltage across the card capacitance and protects the backplane supply from voltage drops. The inrush and overcurrent limits, as well as the undervoltage/overvoltage thresholds and hysteresis are independently adjustable, giving maximum flexibility and accuracy to proprietary designs. The controller disconnects the load if it remains in current limit beyond the time-out delay and can be configured to latch off or auto-retry following the event.

The LTC4261 has additional features to interrupt the host when a fault has occurred, notify when output power is good, detect insertion of a board, and turn off the pass transistor if an external supply monitor fails to indicate powergood within a timeout period.

Specified over the commercial and industrial temperature ranges, the LTC4261 is available from stock in 28-lead SSOP and 24-lead 4mm x 5mm QFN packages. Pricing begins at \$5.95 each in 1,000-piece quantities.

(more...)

Summary of Features

- Allows Safe Insertion into Live Backplane
- 10-Bit ADC Monitors Current & Voltage
- I²C /SMBus Compatible Interface
- Wide Operating Voltage Range: -12V to -100V
- Independently Adjustable Inrush and Overcurrent Limits
- Adjustable UV/OV Thresholds and Hysteresis
- Programmable Latchoff or Autoretry after Faults
- Alerts Host after Faults
- Foldback Current Limit
- Available in 28-Lead SSOP & 24-Lead (4mm x 5mm) QFN Packages

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

For more information, contact:

Doug Dickinson, Media Relations Manager

Linear Technology Corporation


1630 McCarthy Boulevard

Milpitas, CA 95035-7417

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.