

***LTC News for Immediate Release***

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**I<sup>2</sup>C Hot Swap Controller with Onboard ADC  
Monitors Voltage, Current & Reports Faults**

MILPITAS, CA – February 15, 2006 – Linear Technology Corporation introduces the LTC4215, a 2.9V to 15V Hot Swap™ controller that features an onboard 8-bit ADC and I<sup>2</sup>C compatible interface. The integrated digital power monitoring allows sophisticated platform management in high-availability systems by measuring card voltages and currents, as well as recording past and present fault conditions. In such systems, careful monitoring of the health and integrity of the power distribution network is crucial. Information in the ADC registers can be queried via the I<sup>2</sup>C 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. The LTC4215 complements Linear Technology's LTC4260 and LTC4261, positive and negative 48V Hot Swap controllers that also feature onboard ADCs and I<sup>2</sup>C interfaces.

The LTC4215 turns the board supply voltage on and off in a controlled manner. It offers programmable dI/dt softstart and provides active current limiting that results in a controlled supply ramp. The inrush current and circuit breaker limits, as well as the undervoltage/overvoltage thresholds are independently adjustable, giving maximum flexibility and accuracy. 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 LTC4215 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 LTC4215 is available from stock in 16-lead SSOP and 24-lead 4mm x 5mm QFN packages. Pricing begins at \$3.75 each in 1,000-piece quantities.

(more...)

## Summary of Features: LTC4215

- Allows Safe Insertion into a Live Backplane
- 8-Bit ADC Monitors Current and Voltage
- I<sup>2</sup>C/SMBus Interface
- Wide Operating Voltage Range: 2.9V to 15V
- dI/dt Controlled Soft-Start
- 16-Lead SSOP & 24-Lead 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 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](http://www.linear.com)

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