

LTC News for Immediate Release

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**Ultra Low Voltage Hot Swap Controller for
Ultra Low Voltage Microprocessors**

MILPITAS, CA – March 15, 2005 – Linear Technology Corporation introduces the LTC4216, an ultra low voltage Hot Swap[™] controller that protects load voltages ranging from 0V to 6V. In order to meet demands for faster and more efficient data processing, modern microprocessor systems are designed with lower voltage implementations. The LTC4216 answers the in-rush control needs of such systems and allows for the safe insertion and removal of boards from a live backplane. Together with an analog current limit amplifier, an electronic circuit breaker with adjustable response time provides dual level overcurrent protection. The IC also features an adjustable soft-start circuitry to limit the rate of change of the inrush current at start-up.

The Feedback pin monitors the output supply voltage and signals the RESET# output. The ON pin enables the part, while the FAULT# indicates that the circuit breaker had tripped due to an overcurrent fault. Together they can configure the device to automatically retry.

The LTC4216 is offered in 10-lead MSOP and 12-lead (3mm x 4mm) DFN packages, and an attractive solution for today's servers, telecom equipment and base station, whose low voltage design is driven by the increasing complexity and operating speeds of low power microprocessors.

Specified over the commercial and industrial temperature ranges, the LTC4216 is available from stock and pricing starts at \$1.85 each for 1,000 pieces quantities.

(more...)

Summary of Features: LTC4216

- Controls Load Voltages from 0V to 6V
- Fast Response Limits Peak Fault Current
- Adjustable Analog Current Limit
- Adjustable Soft Start with Inrush Current Limiting
- Adjustable Response Time for Overcurrent Protection
- Low Circuit Breaker Trip Threshold: 25mV
- 10-Lead MSOP and 12-Lead (4mm x 3mm) DFN 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.

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READER SERVICE: Call toll-free 1-800-4-LINEAR (for literature only), or go to the company's web site: <http://www.linear.com>

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