

LTC News for Immediate Release

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

**Quad Power Supply Sequencer & Supervisor Provides Simple
Configuration & Extensive Diagnostics Without Software**

MILPITAS, CA – June 14, 2006 – The LTC2928 quad supply sequencer and supervisor from Linear Technology offers the flexibility to configure the power supply turn-on and turn-off sequence, monitor the supplies and diagnose supply failures. The device's simple pin-configuration approach to sequencing requires no firmware and allows the four supplies to be placed in any combination of eight time positions with configurable delay between each. The comparator thresholds during the sequence-up, monitoring and sequence-down phases can be specific to each phase. The comparator outputs are encoded into four digital outputs that provide diagnostics for the type of fault (sequence, under-voltage, external controller or external fault) and the channel that failed. Over-voltage faults are signaled separately and may be optionally tied to the bidirectional FAULT pin to cause a shutdown. These timing, threshold and diagnostic options are configured with only a few external components.

Multiple supply systems often require turn-on and turn-off sequencing of supplies to protect vital circuits from damage and to allow for programmable logic boot-up and configuration. Setting the sequence, timing and thresholds often requires software-programming resources that are not always readily available for this task. The LTC2928 allows the power supply designer the freedom and flexibility to iterate without changing the layout or requesting software code changes. The device sequences and monitors supplies starting as low as 0.5V including negative voltages and can be powered from a supply of 2.9V up to 16.5V. The sequenced supplies can be regulators or power modules with enable inputs or RUN/SS pins. Alternatively, N-channel MOSFETs can be used to pass power from supplies since the enable outputs of the LTC2928 are capable of driving gates to $V_{cc} + 6V$. The LTC2928 is easily cascadable to control an unlimited number of power supplies.

(more...)

Specified over the commercial and industrial temperature ranges, the LTC2928 is offered in 5mm x 7mm 38-lead QFN and 36-lead SSOP packages. Available from stock, pricing begins at \$3.95 each in 1,000 piece quantities.

Photo Caption: Multichannel Power Supply Sequencer and Supervisor

Summary of Features: LTC2928

- Easily Configure Power Management without Software
- Controls up to Four Supplies; Cascadable for Additional Supplies
- Staged Supply Sequencing with Adjustable Time Positions
- Fault Event Reporting with Diagnostics
- Configurable UV, OV and Sequencing Thresholds
- 1.5% Undervoltage Monitoring Accuracy
- 36-Lead SSOP & 5mm x 7mm 38-Lead QFN Packages

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

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:

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