



Single Port Power Over Ethernet Controller Simplifies PSE Design

MILPITAS, CA – November 13, 2006 – Linear Technology Corporation introduces the LTC4263, an autonomous single-channel Power Sourcing Equipment (PSE) controller with an onboard MOSFET for use in IEEE 802.3af Power Over Ethernet (PoE) compliant systems. Requiring only a few external components, the IC is a complete single-port PSE solution that detects, classifies and provides isolated 48V power to Powered Devices (PDs) connected to it. Offering standard-compliant AC or DC methods to sense the removal of a PD and featuring sophisticated onboard control algorithms, the LTC4263 provides autonomous operation through all of the required tasks without processor intervention.

Using an internal sense resistor, the LTC4263 provides precision inrush, current limit and short circuit control to further ensure IEEE 802.3af compatibility. The port current limit can be configured to automatically adjust to the detected PD class. Advanced detection and power monitoring techniques prevent damage to legacy data-only devices, while still supplying power to newer, Ethernet-powered devices. The LTC4263 also allows for simple implementation of power management across multiple ports, while being driven by a single power supply.

The rich feature set allows the IC to significantly simplify the PSE implementation, requiring only a single 48V supply and a small number of passive support components. It also makes the part an ideal choice for IEEE 802.3af compliant Endpoint/Midspan systems, including low port count PSEs or standalone PSEs. Specified over the full commercial and industrial temperature range, the LTC4263 is offered in 14-pin 4mm x 3mm DFN and SO-14 packages. Pricing begins at \$2.95 each in 1,000-piece quantities.

Photo Caption: Single Port PSE Controller**Summary of Features: LTC4263**

- Fully IEEE 802.3af Compliant
- Operates from a Single 48V Supply
- Fully Autonomous Operation without Microcontroller
- Internal MOSFET with Thermal Protection
- Power Management Works Across Multiple Ports with Simple RC Network
- Precision Inrush Control with Internal Sense Resistor
- Powered Device (PD) Detection and Classification
- AC and DC Disconnect Sensing
- 14-Pin 4mm x 3mm DFN & 14-Pin SO 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

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