

LTC News for Immediate Release

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**10A DC/DC uModule Provides New Level of
Power Density in a Compact Package**

First in a New Line of Module Products

MILPITAS, CA – October 17, 2005 – A new uModule™ from Linear Technology Corporation provides designers a complete 10A switching power supply in a tiny (15mm x 15mm) footprint, low profile (2.8mm) land grid array (LGA) package. The LTM®4600 is a synchronous switchmode DC/DC step-down regulator with built-in inductor, supporting power components and compensation circuitry. The LTM4600 is the first in a new family of uModules from Linear Technology that leverages the company's core strengths in power management and conversion. By simplifying power system development, this new high-density power supply reduces development time for a broad range of systems, including network routers, blade servers, cellular basestations, medical diagnostic equipment, test instrumentation and RAID systems.

The LTM4600 accommodates a wide input voltage range of 4.5V to 28V. The high level of integration and synchronous current mode operation allows the LTM4600 to deliver superior transient response and up to 10A continuous current (14A peak) at up to 92% efficiency. It simplifies power supply design and construction, requiring only input and output bulk capacitors and a single resistor to set the output voltage within a range of 0.6V to 5V. Containing all Linear Technology silicon and supported by Linear Technology's rigorous in-house testing and high reliability processes, the LTM4600 brings component-level reliability and industry-leading performance to demanding applications.

The LTM4600 DC/DC uModule is a complete stand-alone surface-mount power supply that can be handled and assembled like a standard integrated circuit. Moreover, its low profile design permits the LTM4600 to be soldered onto the back side of a circuit board, freeing up valuable board space.

The LTM4600 DC/DC uModules are self-protected against overvoltage and short circuit conditions. The devices' fast transient response minimizes required bulk output capacitance. Furthermore, two LTM4600s can be operated in parallel, increasing load current capability to 20A. The LTM4600 is offered in two versions: standard and high input voltage. The

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LTM4600EV operates from 4.5V to 20V, whereas the LTM4600HVEV has an operating voltage range from 4.5V to 28V.

Pricing for the LTM4600EV starts at \$16.50 each and the LTM4600HVEV starts at \$19.50 each in 1,000-piece quantities. The LTM4600IV and LTM4600HVIV, which are tested and guaranteed to operate over the -40°C to 85°C temperature range, are also available. The device is currently sampling and the company is accepting volume orders this quarter.

Summary of Features: LTM4600

- A Complete Switchmode Power Supply with Integrated Inductor & Power Components
- 10A Continuous, 14A Peak Output Current
- 15mm x 15mm x 2.8mm Land Grid Array (LGA) Package
- Wide Input Voltage Range of 4.5V to 20V (up to 28V for HV version)
- Output Voltages down to 0.6V
- Pb-free and RoHS compliant
- Current Mode Control
- Fast Transient Response
- Synchronous Rectification for up to 92% Efficiency
- Short Circuit and Overvoltage Protected

About Linear Technology Corporation

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

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