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EMC Compliant, 1A, 36V DC/DC uModule Regulator

MILPITAS, CA – October 21, 2009 – Linear Technology Corporation introduces a complete 1A DC/DC regulator system-in-a-package, the LTM8031. This is the second member of Linear's new electromagnetic-compatible (EMC) DC/DC uModule[®] family. The LTM8031 includes the inductor, switching DC/DC controller, power switches, filters and all support components housed in a 9mm x 15mm x 2.82mm land grid array (LGA) package.

The LTM8031 has been tested by an independent EMI laboratory and is compliant with the radiated emissions requirements of EN55022 class B. The switching frequency of the LTM8031 can be adjusted from 200kHz to 2.4MHz with a resistor or synchronized to an external clock. The device operates from a wide input voltage range of 3.6V to 36V and regulates an output voltage from 0.8V to 10V at up to 1A. Applications for the LTM8031 include converting and regulating automotive battery voltage, distributed power supply and high voltage industrial and avionics systems.


The LTM8031 weighs only 1.2g and is offered in industrial and military temperature grades specifications. For higher output current up to 2A, the LTM8032 is available with identical layout and pin functions. To improve efficiency at light loads, the device automatically activates Burst Mode[®] operation, which keeps the output capacitor charged to the proper voltage with single cycle bursts of current followed by sleep periods, minimizing input quiescent current. The LTM8031 1,000-piece price is \$9.95. For more information, visit www.linear.com.

Photo Caption: EN55022 Class B Compliant DC/DC uModule Regulator**Summary of Features: LTM8031**

- Complete DC/DC System-in-a-Package
- 9mm x 15mm x 2.82mm Plastic Land Grid Array (LGA) Package
- EN55022 Class B Compliant
- Output: 0.8V to 10V, up to 1A
- Input: 3.6V to 36V

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, uModule[®] products, 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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