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3V_{IN} to 36V_{IN}, 500mA DC/DC Switchmode uModule Regulator in Tiny Package Creates Space by Mounting on the Back of Board

MILPITAS, CA – May 29, 2008 – Linear Technology Corporation introduces the LTM8021, a complete DC/DC uModule™ regulator point-of-load (POL) system with on-board inductor and power components in a package that resembles a surface-mount IC. The LTM8021 operates from input supplies from 3V to 36V (40Vmax) and delivers up to 500mA. The LTM8021's tiny footprint (6.25mm x 11.25mm), low profile (2.8mm) and light weight (0.49g), enable system designers to solder the device on the backside of the circuit board, creating room on top for digital ICs such as FPGAs, memory and passives including HDMI, Ethernet or SMA connectors.

The LTM8021 includes a DC/DC controller IC, power switch, inductor, compensation circuitry and input and output bypass capacitors. Its design is as simple as a linear regulator and has the advantage of less heat dissipation and smaller size. Target applications are systems with 5V, 12V, 24V and 28V input supply rails such as medical, industrial, avionics and after-market automotive.

The LTM8021 regulates an output voltage from 0.8V to 5V that is adjusted with only one resistor. Encapsulated packaging protects the circuit components against mechanical, chemical and ambient factors, thus improving the reliability of the solution. The LTM8021 is rated for operation from -40°C to 85°C and is ROHS compliant, although its gold-plated pads enable use of Pb- and Pb-free solder during board assembly. 1,000-piece pricing starts at \$5.85.


Photo Caption: Complete 3V, 500mA DC/DC System in a Surface-Mount 0.49g Package

Summary of Features: LTM8021

- Complete Switchmode DC/DC Regulator in a Surface-Mount 6.25mm x 11.25mm x 2.8mm LGA Package
- Wide Input Voltage Range: 3V to 36V
- Wide Output Voltage Range: 0.8V to 5V

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. For more information, visit www.linear.com.

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