



36V_{IN}, 3A DC/DC uModule Converter Regulates 0.8V to 24V_{OUT}

MILPITAS, CA – August 11, 2009 – Linear Technology Corporation introduces the LTM8025, a 3A high voltage DC/DC uModule[®] regulator system with up to 36V input voltage and 24V output voltage. The 24V output voltage range is ideal for 12V to 20V intermediate bus systems and the 36V input provides sufficient input protection in 24V and 28V systems. The LTM8025 is a complete DC/DC solution that includes a DC/DC controller IC, power switches, inductor, compensation circuitry and input and output bypass capacitors. The module is a molded plastic 9mm x 15mm x 4.32mm LGA (Land Grid Array) surface mount package that weighs less than 1.8g. Because of high input and output voltage ratings, the LTM8025 is well suited for applications such as 24V industrial, 28V medical and avionics, as well as 12V communication systems.


The LTM8025 is a current mode, switching DC/DC point-of-load regulator system with 3.6V to 36V input operation that can regulate an output voltage from 0.8V to 24V, adjustable with one resistor. Two devices can be paralleled for current sharing if more than 3A output is required. Encapsulated packaging protects the circuit components against mechanical, chemical and ambient factors, thus improving the reliability of the design. The LTM8025 is rated for operation from -40°C to 125°C and -55°C to 125°C. It is RoHS compliant, and with gold-plated pads, both Pb- and Pb-free solder can be used during board assembly. 1,000-piece pricing starts at \$8.95. For more information, visit www.linear.com.

Photo Caption: 36V, 3A DC/DC uModule Regulator**Summary of Features: LTM8025**

- Complete 3A Switchmode DC/DC Regulator in a Surface Mount Package
- Wide Input Voltage Range: 3.6V to 36V
- Wide Output Voltage Range: 0.8V to 24V
- Adjustable Operating Frequency from 200kHz to 2.4MHz
- Current Mode Operation for Fast Transient Response
- 9mm x 15mm x 4.32mm LGA Package

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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Press Contacts:**North America/ Worldwide**

John Hamburger, Director Marketing
Communications
jhamburger@linear.com
Tel 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager
ddickinson@linear.com
408-432-1900 ext 2233

UK & Nordic

Alan Timmins
alan@ezwire.com
Tel: +44-1-252-629937