



News Release | [www.linear.com](http://www.linear.com)

## **60V<sub>IN</sub>, 4A DC/DC uModule Regulator in 15mm x 15mm x 4.32mm Plastic Surface Mount Package**

MILPITAS, CA – December 2, 2009 – Linear Technology Corporation introduces the LTM8027, a 4A system-in-a-package DC/DC uModule<sup>®</sup> regulator capable of operating from a 60V supply without any input protection. The LTM8027 includes the inductor, power switches, switching regulator and all support components in a small 2.6g 15mm x 15mm x 4.32mm land grid array (LGA) plastic package. The device can regulate an output voltage ranging from 2.5V to 24V from an input supply of 4.5V to 60V (65V absolute maximum). The LTM8027's rugged voltage rating makes it a suitable voltage regulator for 12V and 24V automotive and heavy equipment such as industrial robotics, 48V telecom, as well as avionics and industrial control systems.

The LTM8027's operating frequency can be adjusted with a resistor from 100kHz to 500kHz or the device can be synchronized to an external clock to optimize efficiency for a given input-to-output voltage ratio or to prevent the device from interfering with a system's sensitive operating frequency. Because of synchronous switching of the internal MOSFETs, the LTM8027 can deliver 4A at 12V<sub>out</sub> from 24V<sub>in</sub> with 93% efficiency. The device draws only 10uA when in shutdown.

The LTM8027 is offered in temperature grades of -40°C to 125°C and -55°C to 125°C. 1,000-piece price starts at \$16.50 each. For more information, visit [www.linear.com](http://www.linear.com).


**Photo Caption:** 60V<sub>IN</sub>, 4A DC/DC uModule Step-Down Regulator

### **Summary of Features: LTM8027**

- Complete System-in-a-Package 60V<sub>IN</sub>, 4A Step-Down Switching Regulator
- Tiny Surface Mount 15mm x 15mm x 4.32mm LGA package
- $4.5V \leq V_{IN} \leq 60V$ ,  $2.5V \leq V_{OUT} \leq 24V$
- Resistor Adjustable or Clock Synchronizable Switching Frequency from 100kHz to 500kHz

### **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<sup>®</sup> 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.

LT, LTC, LTM, uModule and  are registered trademarks of Linear Technology Corp. All other trademarks are the property of their respective owners.

#### **Press Contacts:**

##### **North America / Worldwide**

John Hamburger, Director Marketing  
Communications  
[jhamburger@linear.com](mailto:jhamburger@linear.com)  
Tel 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager  
[ddickinson@linear.com](mailto:ddickinson@linear.com)  
408-432-1900 ext 2233

##### **UK & Nordic**

Alan Timmins  
[alan@ezwire.com](mailto:alan@ezwire.com)  
Tel: +44-1-252-629937