



Tiny 4A Step-Down μ Module Regulator's Entire Solution Occupies Less Than 1cm²

MILPITAS, CA – August 19, 2013 – Linear Technology launches the [LTM4624](#), a 14V, 4A step-down μ Module[®] (micromodule) regulator in a 6.25 x 6.25 x 5.01mm BGA package which, including a few passive components, fits within 1cm² on a single-sided PCB or 0.5cm² double-sided. Like other μ Module regulators, the LTM4624 includes the DC/DC controller, power switches, inductor and compensation in a single package. Only two external ceramic capacitors (1206 case size) and a resistor (0603 or smaller case size) are required for operation. The LTM4624 operates from a 4V to 14V input supply, delivering a regulated output adjustable between 0.6V to 5.5V, ideal for applications in communications, storage, industrial, and medical systems.

The LTM4624 operates at a 1MHz typical switching frequency with a very low 5mV output ripple at full load during a 12V_{IN} to 1.5V_{OUT} conversion. With the addition of an external bias supply above 4V, the LTM4624 can operate from an input voltage as low as 2.375V. Overcurrent and overtemperature fault protection are included in the regulator.

The LTM4624 is available with guaranteed operation over the -40°C to +125°C internal temperature range. The μ Module regulator is available for immediate delivery from stock. Pricing starts at \$5.95 each for 1,000 piece quantities. For more information, visit www.linear.com/product/LTM4624


Photo Caption: 14V_{IN}, 4A Step-Down μ Module[®] Regulator

Summary of Features: LTM4624

- 4A DC/DC Step-Down Solution in Less Than 1cm²
 - Only Two Capacitors & One Resistor Required for a Complete Solution
- 6.25 x 6.25 x 5.01mm BGA
- 4V to 14V V_{IN} Range
 - As Low as 2.375V_{IN} with External Bias Supply
- Low 5mV Output Ripple at 1.5V_{OUT}, 4A
- User Adjustable V_{OUT} Between 0.6V to 5.5V

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for over three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

 , LT, LTC, LTM, Linear Technology, the Linear logo and μ Module 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
Tel: 408-432-1900 ext 2419

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

UK & Nordic

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