



News Release | www.linear.com

1.2A(I_{OUT}), 1.5MHz High Input Voltage Switching Regulator with Programmable Output Current Limit

MILPITAS, CA – July 30, 2009 – Linear Technology Corporation announces the LT3663, a 1.2A, 1.5MHz monolithic current mode step-down switching regulator with a programmable output current limit. Its wide operating input voltage of 7.5V to 36V makes the LT3663 ideal for a variety of input sources, including unregulated 12V wall adapters, 24V industrial supplies, Fire Wire, as well as automotive applications. Onboard input overvoltage lockout protects the device through input transients as high as 60V, such as those commonly found in automotive applications.

Both the LT3663's output voltage and output current are adjustable. Output voltages as low as 0.8V are set by a resistor divider whereas its output current is user programmable between 0.4A to 1.2A via an external resistor. The LT3663 utilizes a 1.5MHz oscillator, internal compensation and an internal boost diode to minimize the overall solution footprint. Combined with a 2mm x 3mm DFN package it offers a very compact high voltage regulator.

Pricing for the LT3663EDCB starts at \$2.50 for 1,000-piece quantities. The LT3663IDCB is tested and guaranteed to operate from a -40°C to 125°C operating junction temperature and is priced at \$2.94 in 1,000-piece quantities. All versions are available from stock. For more information, visit www.linear.com.


Photo Caption: 36V (60V_{MAX}), 1.2A (I_{OUT}) Switching Regulator with Output Current Limit

Summary of Features: LT3663

- Wide Input Range:
- Operation from 7.5V to 36V, Overvoltage Lockout Protects Circuit through 60V Transients
- Programmable Output Current Limit (0.4A to 1.2A)
- Integrated Boost Diode
- 1.5MHz Fixed Frequency, Peak Current Mode Control
- Low Switch V_{CESAT}: 275mV at 1A
- Internally Compensated
- Thermal Protection
- Thermally Enhanced 2mm × 3mm DFN 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.

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
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