



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

## **Low Power Isolated Monolithic Flyback Switching Regulator Simplifies Design & Eliminates Optocoupler**

MILPITAS, CA – February 8, 2010 – Linear Technology Corporation announces the LT3574, an isolated monolithic flyback switching regulator that significantly simplifies the design of a low power isolated DC/DC converter. No opto-isolator, third winding or signal transformer is required for feedback since the output voltage is sensed from the primary-side flyback signal. The LT3574 operates over a 3V to 40V input voltage range, has a 0.65A NPN power switch and can deliver up to 3 watts of output power, making it well suited for a wide variety of industrial, medical, telecom, datacom and automotive applications.

The LT3574 operates in boundary mode, which is a variable frequency current mode control switching scheme, resulting in +/-5% regulation over the full line, load and temperature range. Boundary mode also permits the use of a smaller transformer compared to equivalent continuous conduction mode designs. The output voltage is easily set by two external resistors and the transformers turns ratio. Several off-the-shelf transformers are identified in the data sheet that can be used for numerous applications. The high level of integration and use of boundary mode operation results in a simple, clean application solution to the traditionally tough problem of isolated power delivery.

Additional features include an onboard low dropout regulator for IC power, programmable soft start, undervoltage lockout, adjustable current limit and output voltage temperature compensation.

The LT3574 is available in a small MSOP-16 package and is offered in an extended and industrial operating junction temperature range at -40°C to 125°C. Pricing starts at \$2.76 each in 1000-piece quantities. For more information, visit [www.linear.com](http://www.linear.com).


## **Photo Caption:** Isolated Monolithic Flyback Converter

### **Summary of Features: LT3574**

- $V_{IN}$  Range from 3V to 40V
- Onboard 0.65A, 60V Integrated NPN Power Switch
- No Transformer, Third Winding or Opto-isolator Required for Feedback
- Current Mode Control
- Boundary Mode Operation
- $V_{OUT}$  Set with Two External Resistors
- Off-the-Shelf Transformers
- Programmable Soft-Start
- Programmable Undervoltage Lockout
- Output Voltage Temperature Compensation
- Adjustable Current Limit

### **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