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80V DC/DC Converter Makes Positive or Negative Regulated Voltages

MILPITAS, CA – June 9, 2010 – Linear Technology Corporation announces the [LT3958](#), a high input voltage DC/DC converter for boost, flyback, SEPIC and inverting power supply applications. This device operates over an input voltage range from 5V to 80V, has an onboard 84V/3.5A power switch, and can achieve efficiencies up to 96%, making it well suited for industrial, automotive, medical and telecom applications.

The LT3958 is capable of generating either a positive or negative regulated output voltage with its two voltage feedback error amplifiers and reference voltages. One set is for positive output voltages, the other is for negative output voltages, both off a single feedback pin, making the LT3958 highly versatile. With a programmable fixed or synchronizable operating frequency from 100k Hz to 1MHz, designers can choose a wide range of inductors and capacitors to optimize size, performance and cost. Its current-mode control results in stable operation over a wide range of supply and output voltages. The device supports designs using only ceramic capacitors, enabling a smaller solution size. Additional features include programmable soft-start, adjustable input undervoltage lockout, along with output overvoltage and overcurrent protection.

The LT3958 operates from a -40°C to 125°C temperature range and is offered in a 5mm x 6mm QFN-36 package with additional pin spacing to support high voltage operation. The 1000-piece price starts at \$3.05 each. For more information, visit


<http://www.linear.com/pr/3958>.

Photo Caption: 80V Boost, Flyback, SEPIC & Inverting DC/DC Converter**Summary of Features: LT3958**

- For Boost, Flyback, SEPIC & Inverting Applications
- Wide Input Operating Voltage: 5V to 80V
- On-Board 84V/3.5A Power Switch
- Positive or Negative Output Voltage Setting with a Single Feedback Pin
- Selectable Fixed 100kHz to 1MHz Operating Frequency
- Synchronizable to an External Clock
- Programmable Soft Start
- True Current Mode Control
- Additional Pin to Pin IC Spacing
- Output Overvoltage & Overcurrent Protection
- Programmable Input Undervoltage Lockout with Hysteresis

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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