



Push Button Controller Integrates Ideal Diode and Supervisory Functions

MILPITAS, CA – October 12, 2006 – Linear Technology Corporation introduces the LTC2952, a versatile power management IC with push-button on/off control for system power and system monitoring features. The power management function features two ideal PowerPath™ controllers suitable for applications requiring an ideal diode-OR function for load sharing or automatic switchover between two input power sources. The low loss switchover is achieved by regulating two external P-channel MOSFETs with 20mV typical voltage drop when conducting and is configurable to satisfy various application requirements. The push-button controller provides enable control for DC/DC converters, processor's interrupt logic and adjustable ON and OFF debounce times. When powering off, the LTC2952 interrupts the system processor to alert it to perform the necessary power down and housekeeping tasks, resulting in graceful system shutdown. The robust and accurate system supervisory functions of the LTC2952 make it ideal for high reliability system applications. The voltage monitoring, power-fail and watchdog reset functions enable further enhancement and ensure system integrity.

The LTC2952 operates over a wide input voltage range of 2.7V to 28V, effectively accommodating a wide variety of input power supplies. The device's functionality and reduced need for external components results in dramatically simplified power management with low overall system cost and a compact design solution. Specified over the commercial and industrial temperature ranges and available now, the LTC2952 is offered in 20-pin TSSOP and 4mm x 4mm QFN packages. Pricing for the LTC2952 begins at \$2.95 each in 1,000-piece quantities.

Photo Caption: Push Button PowerPath Controller with Supervisors**Summary of Features: LTC2952**

- Push-Button On/Off controller
- Automatic Low Loss Switchover Between DC Sources
- Wide Operating Voltage Range: 2.7V to 28V
- Low 25uA Shutdown Current
- Guaranteed Threshold Accuracy: 1.5% of Monitored Voltage over Temperature
- Adjustable Push-Button On/Off Timers
- Simple Interface Allows Graceful uP Shutdown
- $\pm 8\text{kV}$ ESD on PB Input
- 20-Pin TSSOP and QFN (4mm x 4mm) Packages

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, 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. For more information, visit www.linear.com

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