

LTC News for Immediate Release

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Power Supply Tracker Enables Flexible Control of DC/DC Modules

MILPITAS, CA – November 21, 2005 – Linear Technology introduces the LTC2926, a power supply tracking and sequencing controller, designed for use with modules or power supplies with or without access to feedback pins. The IC enables a variety of power up and power down profiles and supports up to three power modules: two “slave” supplies that track a “master” signal. Tracking of up to two DC/DC modules is achieved with N-channel MOSFETs in series with the power path, and for IC based converters by injecting currents into their feedback nodes, without affecting their stability or the transient response. In addition to the MOSFETs, two external resistors per channel configure the load voltages to track together, with voltage offsets, with time delays or with different ramp rates. This variety of power up and power down profiles satisfies the requirements of digital logic circuits, such as FPGAs, PLDs, DSPs and microprocessors, making the LTC2926 ideal for such applications.

The LTC2926 features two integrated remote sense switches that automatically compensate for the voltage drop across the MOSFETs. For applications that require more than two remote sense switches, an additional gate drive can be used to control an external remote sense MOSFET. A Power Good timer sets the time allowed for a power supply to turn on after it has been enabled and will assert a Fault should a supply fail to enter regulation within the allotted time interval. The status output asserts after tracking and sequencing have completed.

Specified over the commercial and industrial temperature ranges and available from stock, the LTC2926 is offered in 20-lead SSOP and 4mm x 5mm QFN packages. Pricing begins at \$3.50 each for 1,000 piece quantities.

(more...)

Summary of Features: LTC2926

- Flexible Power Supply Tracking and Sequencing
- Adjustable Ramp Rates, Offsets and Time Delays
- Controls Three Supplies with Series MOSFETs
- Integrated Remote Sense Switching
- Fault Input/Output
- Status Output/Power Good Input
- Available in 20-lead SSOP and 4mm x 5mm QFN packages

About Linear Technology Corporation

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 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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