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Precision Triple Supply Supervisor Provides Early Power-Fail Detection

MILPITAS, CA – October 11, 2010 – Linear Technology Corporation introduces the LTC2911 three-channel supply monitor with power-fail warning for low voltage systems down to 0.5V. In certain applications, monitoring the main input supply is just as important as monitoring the intermediate bus voltages in order to provide the host an early warning of supply failure and signal shutdown procedures. The LTC2911 offers a power-fail input and output to support this function, in addition to three voltage inputs, with 1.5% threshold accuracy over the entire operating temperature range.

The LTC2911 is suitable for a wide variety of applications, including network servers, desktop or notebook computers, and automotive or industrial electronics. The first channel monitors 3.3V, the second channel monitors pre-set values between 1.2V to 5V and the third channel is adjustable down to 0.5V. This versatility allows the LTC2911 to be conveniently ported to similar designs with differing supply voltages. Glitch filtering ensures reliable reset operation by minimizing false triggers. The reset timeout period can be selected internally (200ms) to minimize component count, or externally adjusted. The same reset timer pin can also be used to latch the reset pin status and override reset operation, which is useful in margining applications, where it is common to test systems at supply voltages that might otherwise cause the system to reset.

The LTC2911 is available in a variety of voltage options, depending on which three voltages need to be monitored. Commercial and industrial versions offer different operating temperature ranges, from 0°C to 70°C and -40°C to 85°C, respectively. The LTC2911 is available today and offered in 8-lead TSOT-23 and 3mm x 2mm DFN packages. Pricing starts at $1.52 each in 1,000 piece quantities. Please visit www.linear.com/2911 for more product selection and information.

Photo Caption: Compact Triple Supply Monitoring with Power-Fail Detection

Summary of Features: LTC2911

- Ultralow Voltage Reset: V_{CC} = 0.5V Guaranteed
- Monitors Three Inputs Simultaneously:
  - 3.3V, 5V, ADJ (LTC2911-1)
  - 3.3V, 2.5V, ADJ (LTC2911-2)
  - 3.3V, 1.8V, ADJ (LTC2911-3)
  - 3.3V, 1.2V, ADJ (LTC2911-4)
  - 3.3V, ADJ, ADJ (LTC2911-5)
- ±1.5% Threshold Accuracy
- Power-Fail Monitor
- Reset Status Can Be Latched for Margining
- Low Supply Current: 30uA Typical
- Input Glitch Immunity
- Adjustable Reset Timeout Period
- Selectable Internal Timeout Saves Components
- Open-Drain /RST, /PFO Outputs
- Space Saving 8-Lead TSOT-23 & 3mm x 2mm DFN 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, 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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