



## **Single Supervisor Monitors 27 Unique Voltage Thresholds Without External Resistors**

MILPITAS, CA – August 13, 2007 – Linear Technology Corporation introduces the LTC2915, a single voltage supervisor with 27 unique pin-selectable thresholds, offering designers a diverse voltage monitor for many different solutions. Rather than qualifying and stocking multiple individual supervisors, each with their own unique voltage threshold, a single LTC2915 can easily be configured to meet different monitoring tasks. The LTC2915 can be used in applications ranging from network servers monitoring 12V to low-voltage portable equipment. The 27 selectable thresholds are specified with an overall accuracy of  $\pm 1.5\%$  without the need for costly 0.1% external resistors. Offered in low-profile (<1mm) 8-lead TSOT-23 and 3mm x 2mm DFN packages, with guaranteed specifications across the -40°C to +125°C temperature range, the LTC2915 is ideal for automotive monitoring, handheld devices, optical networks, and general purpose voltage monitoring.

The LTC2915 includes two three-state input pins that select one of nine internally programmed thresholds: 12V, 5V, 3.3V, 2.5V, 1.8V, 1.5V, 1.2V, 1.0V, or an adjustable 0.5V. A third three-state input determines if the input threshold is -5%, -10% or -15% below the selected voltage level, allowing for margining.

The LTC2916, a variation on the LTC2915, offers the same nine input thresholds, but with a fixed -5% tolerance. However, the LTC2916 includes a separate manual reset input for a simple push-button interface.

Both the LTC2915 and LTC2916 operate from a single 1.5V to 5.5V supply and consume only 30uA of quiescent current. To reduce sensitivity to short glitches from a

noisy power supply, the LTC2915/LTC2916 input comparator's glitch immunity ensures reliable reset operation without false triggering. These supervisors include an active-low reset output with a delay time that can be set to 200ms, 400us, or an adjustable period, allowing a processor time to initialize and load memory before it begins operating.

Both the LTC2915 and LTC2916 are available today in commercial, industrial, and automotive temperature grades, with pricing beginning at \$1.05 each, in 1,000-piece quantities.

**Photo Caption:** Supervisor Features 27 Selectable Thresholds without External Resistors


### Summary of Features: LTC2915/LTC2916

- Monitors 9 Selectable Supplies without External Resistors:
  - 12V, 5V, 3.3V, 2.5V, 1.8V
  - 1.5V, 1.2V, 1.0V, +ADJ (0.5V)
- 3 Selectable Tolerances :
  - -5%, -10%, -15% (LTC2915)
- Manual Reset Input (LTC2916)
- 1.5V to 5.5V Supply Operation
- Guaranteed Operation to 125°C
- Guaranteed Threshold Accuracy:  $\pm 1.5\%$
- 6.5V Shunt Regulator for High Voltage Operation
- Low Quiescent Current: 30uA
- Power Supply Glitch Immunity
- Guaranteed RST for  $V_{CC} \geq 0.8V$
- Low Profile (<1mm) 8-Lead SOT-23 (ThinSOT™) and (2mm × 3mm) 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, 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](http://www.linear.com)

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