



## High Accuracy Temperature Monitor Provides Adjustable Alerts

MILPITAS, CA – August 6, 2012 – Linear Technology Corporation introduces the [LTC2996](#) high accuracy temperature sensor for 2.25V to 5.5V systems. The LTC2996 measures a remote diode's temperature with  $\pm 1^{\circ}\text{C}$  accuracy and its own die temperature with  $\pm 2^{\circ}\text{C}$  accuracy while rejecting errors due to noise and series resistance. The device provides a voltage-proportional-to-absolute-temperature ( $V_{\text{PTAT}}$ ) output, as well as individual undertemperature and overtemperature alert outputs, defined by user-adjustable thresholds. No code is required to configure the device. With a  $200\mu\text{A}$  quiescent current, the LTC2996 simply provides a precise, space-saving, micropower temperature monitoring solution.

The LTC2996's accuracy, configurability and code-free operation caters to a wide variety of applications, including system thermal control, energy harvesting, desktop and notebook computers, network servers and environmental monitoring. Users can choose to measure internal or remote temperature and easily adjust the temperature thresholds with resistive dividers. Temperature conversions are updated every 3.5ms to provide systems with sufficient time to react to alerts. The device includes 1.8V voltage reference output to share with an external ADC or for generating temperature threshold voltages.


The LTC2996 is offered in commercial, industrial and automotive versions, supporting operating temperature ranges from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ ,  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  and  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ , respectively. The LTC2996 is available today in a RoHS compliant, 10-pin, 3mm x 3mm DFN package. Pricing starts at 1.95 each in 1,000-piece quantities. For more information, visit [www.linear.com/product/LTC2996](http://www.linear.com/product/LTC2996)

**Photo Caption:** Internal or Remote Temperature Monitor with OT/UT Alerts**Summary of Features: LTC2996**

- Converts Remote or Internal Diode Temperature to Analog Voltage
- Adjustable Overtemperature & Undertemperature Thresholds
- $\pm 1^{\circ}\text{C}$  Remote Temperature Accuracy
- $\pm 2^{\circ}\text{C}$  Internal Temperature Accuracy
- Built-In Series Resistance Cancellation
- Open Drain Alert Outputs
- 2.25V to 5.5V Supply Voltage
- 1.8V Reference Voltage Output
- 200 $\mu\text{A}$  Quiescent Current
- 10-Pin 3mm  $\times$  3mm DFN Package

**About Linear Technology**

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs,  $\mu\text{Module}^{\circledR}$  subsystems, and wireless sensor network products. For more information, visit [www.linear.com](http://www.linear.com)

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