

## New Product Announcement

### Texas Instruments 16-bit ADS8339 Low Power ADC Now at Mouser

**March 3, 2015** – [Mouser Electronics](http://www.mouser.com), Inc., the global authorized distributor with the newest semiconductors and electronic components, is now stocking the [ADS8339 Low Power ADCs](#) from [Texas Instruments](#). Optimized for low power operation, where power consumption scales directly with speed, the ADS8339 is a miniature, micro-power, 16-bit analog-to-digital converter (ADC) that dissipates only 17.5mW at a sampling rate of 250KHz, and only 0.25µW in power-down state. The ADS8339 is a successive-approximation register (SAR) ADC with an integrated sample-and-hold. The high performance and low power dissipation of these devices makes them ideal for [low-power](#) ADC applications.

The [Texas Instruments ADS8339 Low Power ADC](#), available from Mouser Electronics, is a single-channel ADC that operates with a 2.25V to 5.5V external reference. The ADS8339 provides a unipolar single-ended input range from 0V to  $V_{REF}$ . The device offers zero latency at full speed, and uses an internal clock for conversion. The capacitor-based SAR ADC on the ADS8339 is based on a charge redistribution architecture, which inherently includes a sample-and-hold function. To obtain the best SAR performance, the reference driver and the input driver circuit must be optimized. Fully optimized, the ADS8339 is capable of 93.6 dB SNR (typ) and –106 dB THD (typ) at a 10-kHz input, with  $\pm 2.0$  LSB INL (max) and  $\pm 1.0$  LSB DNL (max). Low power dissipation of the devices is rated at 17.5 mW (typ) at 250 kSPS.

The Texas Instruments' ADS8339 Low Power ADCs support three serial interface options, including a 25-MHz, SPI-compatible serial interface that easily interfaces to microcontrollers, DSPs, or [FPGAs](#).

Targeted for lower-speed applications, Texas Instruments' ADS8339 Low Power ADCs are perfectly suited for [instrumentation](#) and process controls, battery-powered equipment, data acquisition systems, [medical electronics](#) and [optical networking systems](#).

The ADS8339 operates from -40 °C to +85 °C, is offered in an SMD/SMT mounting style, and is available today through Mouser Electronics in a miniature VSSOP 10-pin package with a 3mm x 3mm nominal body size. The ADS8339 is also supported by an evaluation module – the 595-ADS8339EVM-PDK – also available for purchase through the Mouser Electronics website.

To learn more, visit <http://www.mouser.com/new/Texas-Instruments/ti-ads8339/>.

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### **About Mouser Electronics**

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 400,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com>.

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Further information, contact:  
Kevin Hess, Mouser Electronics  
Vice President Technical Marketing  
(817) 804-3833  
[Kevin.Hess@mouser.com](mailto:Kevin.Hess@mouser.com)

For press inquiries, contact:  
Kelly DeGarmo, Mouser Electronics  
Corporate Communications Manager  
(817) 804-7764  
[Kelly.DeGarmo@mouser.com](mailto:Kelly.DeGarmo@mouser.com)