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## New Product Announcement

### Mouser First to Ship Maxim MAX11905, Industry's Fastest 20-bit ADC

**June 3, 2014** – [Mouser Electronics](http://www.mouser.com), Inc. is now the first to ship the new [MAX11905 Single Channel SAR Analog-to-Digital Converter](#) from [Maxim Integrated](http://www.maximintegrated.com). The MAX11905 is a single-channel 20-bit Successive Approximation Register (SAR) Analog to Digital Converter (ADC). At 1.6 million samples per second (MSPS) it is the industry's fastest 20-bit ADC. It is designed to provide excellent static and dynamic performance with best-in-class power consumption.

The new [Maxim MAX11905 Single Channel Analog-to-Digital Converter](#), available from Mouser Electronics, is a single-channel, fully differential input ADC that achieves 20-bit resolution with no missing codes. This ADC achieves a high sampling rate and resolution while consuming very little power and conserving board space. Board space is saved by including an internal oscillator and internal reference buffers. The MAX11905 has dedicated input clamps to provide ESD protection as well as protect the ADC input from overranging. The device achieves an excellent 98.3dB Signal-to-Noise Ratio (SNR) and -123dB Total Harmonic distortion (THD).

The MAX11905 communicates digital data over an SPI interface that also supports QSPI™ and Microwire®. The digital output of this serial interface, DOUT, has a programmable driver output which saves board space by reducing external components. Many features of the MAX11905 are read or set by this serial interface, including DOUT output driver strength, power down modes, reset status, and power up status, as well as the conversion result.

Power draw is only 9mW at 1.6Msps, extremely low for an ADC in this class. The high resolution and excellent sensitivity and accuracy of the MAX11905 targets [low power](#) applications as well as battery powered [data acquisition equipment](#) such as [medical instrumentation](#), battery-powered test equipment, and [industrial automation applications](#).

To learn more, visit <http://www.mouser.com/new/maxim-integrated/maxim-max11905-adc/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 20 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

### **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>.

### **About Maxim Integrated**

Maxim Integrated delivers innovative analog and mixed-signal engineering solutions used in a wide variety of microprocessor-based electronics equipment. Maxim product offerings include data converters, semiconductors, interface circuits, RF wireless circuits, clocks and oscillators, microcontrollers, op amps, sensors, and more. Maxim products are used in a wide variety of microprocessor-based electronics equipment. A sampling of the applications for Maxim circuits includes consumer electronics, personal computers and peripherals, handheld electronics, wireless and fiber communications, test equipment, instrumentation, video displays, and automotive applications.

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