US Headquarters
1000 N. Main Street, Mansfield, TX 76063, USA
(817) 804-3800 Main
www.mouser.com

New Product Announcement

Mouser Delivers Analog Devices AD7768 8-Channel, 24-Bit, Simultaneous Sampling ADC

May 12, 2016 – Mouser Electronics, Inc. is now stocking the AD7768 24-bit analog-to-digital converter (ADC) from Analog Devices. The 8-channel, simultaneous sampling ADC features a sigma-delta modulator and digital filter per channel, enabling the device to perform synchronized sampling of both AC and DC signals and allowing it to become a reusable platform for low-power DC and high-performance AC measurement modules. The AD7768 is equipped with three power modes and up to 256 kSPS ADC output data rate per ADC channel, achieving -120 dB total harmonic distortion (THD), 108 dB of dynamic range at a maximum input bandwidth of 110.8 kHz, and has a combined typical performance of ±2 ppm integral nonlinearity (INL), ±50 µV offset error, and ±30 ppm gain error.

Analog Devices' AD7768 24-Bit ADC, available from Mouser Electronics, allows designer engineers to trade off input bandwidth, output data rate, and power dissipation. Using one of the three power modes — fast mode (256 kSPS maximum), median mode (128 kSPS maximum) and eco mode (32 kSPS maximum) — designers can optimize their designs for noise targets and power consumption. In addition, the AD7768 offers extensive digital filtering capabilities, such as a wideband, low ±0.005 dB pass-band ripple, antialiasing low-pass filter with sharp roll-off, and 105 dB stop band attenuation at the Nyquist frequency.

For low-bandwidth and low-noise measurements, the device also offers a sinc response through a sinc5 filter. Both the wideband and sinc5 filters can be selected and run on a per-channel basis, and between the filter options, designers can improve the dynamic range by selecting from decimation rates of ×32, ×64, ×128, ×256, ×512, and ×1024, providing optimal noise performance to the required input bandwidth.

The 12 × 12mm AD7768 ADC operates over the -40 to +105 degrees Celsius industrial temperature range, and is targeted toward a variety of low-power applications, including data acquisition systems, instrumentation and industrial control loops, vibration and asset condition monitoring, 3-phase power quality analysis, and high-precision medical equipment. Additionally, the AD7768 is supported by an evaluation board, which is also available to order through the Mouser Electronics website.

To learn more, visit http://www.mouser.com/new/Analog-Devices/adi-ad7768-adc/.

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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 22 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 600 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 500,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Analog Devices

Analog Devices has built one of the longest standing, highest growth companies within the technology sector utilizing cultural pillars such as innovation, performance, and excellence. Acknowledged industry-wide as the world leader in data conversion and signal conditioning technology, Analog Devices serves over 100,000 customers, representing virtually all types of electronic equipment. Celebrating over 50 years as a leading global manufacturer of high-performance integrated circuits used in analog and digital signal processing applications, Analog Devices is headquartered in Norwood, Massachusetts, with design and manufacturing facilities throughout the world. Analog Devices' is included in the S&P 500 Index.

Trademarks

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Further information, contact:
Kevin Hess, Mouser Electronics
Senior Vice President of Marketing
(817) 804-3833
Kevin.Hess@mouser.com

For press inquiries, contact:
Kelly DeGarmo, Mouser Electronics
Manager, Corporate Communications and Media Relations
(817) 804-7764
Kelly.DeGarmo@mouser.com