

New Product Announcement

Analog Devices AD7175-2 Sigma-Delta Rail-to-Rail ADC Available at Mouser

December 1, 2014 – [Mouser Electronics](#), Inc. is now stocking the [AD7175-2 24-Bit, 250kSPS Sigma Delta \(\$\Sigma\$ - \$\Delta\$ \) Analog to Digital Converter \(ADC\)](#) from [Analog Devices Inc](#) (ADI). The AD7175-2 is a sigma-delta ADC with a true rail-to-rail input buffer, providing leading-edge noise performance at up to 250ksps. This ADC can be configured as two fully differential, or four single-ended, analog inputs with a channel scan rate of 50ksps per channel. This ADC is designed to operate as a fast settling, high resolution, multiplexed Σ - Δ ADC with high levels of configurability.

The [Analog Devices AD7175-2 24-Bit, 250kSPS Sigma Delta \(ADC\)](#), available from Mouser Electronics, is a high resolution 24-bit Σ - Δ ADC for chemical analysis and environmental monitoring applications. A wide dynamic range enables smaller signal deviations to be measured as required within analytical [laboratory instrumentation systems](#). The AD7175-2 has four independent channels and four independent setups. The developer can select any of the analog input pairs on any channel, as well as any of the four setups for any channel, providing full flexibility in the channel configuration. This also allows per channel configuration when using differential inputs, as well as single-ended inputs, because each channel can have its own dedicated setup. A precision 2.5 V low drift (2 ppm/ $^{\circ}$ C) band gap internal reference with output reference buffer adds additional functionality which reduces external component count.

Integrated true rail-to-rail buffers on the analog inputs and external reference inputs, allowing the ADC to easily drive high impedance inputs. An SPI interface allows configuration of many of the ADC options including power down modes, selecting the internal or external voltage references, gain, offset calibration values, and enabling the internal temperature sensor. This ADI device is specified over the extended industrial temperature range of -40° C to $+105^{\circ}$ C.

The AD7175-2SDZ evaluation board, also available from Mouser Electronics, allows full access to all AD7175-2 features for test and evaluation. The board can operate as a stand-alone [test and measurement](#) board or can operate with an ADI system development platform.

To learn more, visit <http://www.mouser.com/new/Analog-Devices/adi-ad7175-2-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 Analog Devices Inc

Innovation, performance, and excellence are the cultural pillars on which Analog Devices (ADI) has built one of the longest standing, highest growth companies within the technology sector. Acknowledged industry-wide as the world leader in data conversion and signal conditioning technology, Analog Devices serves over 60,000 customers, representing virtually all types of electronic equipment. 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.

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

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