

New Product Announcement

Mouser First to Stock Analog Devices AD7177-2 32-bit ADC

May 6, 2015 – [Mouser Electronics](http://www.mouser.com), Inc., the global authorized distributor with the newest semiconductors and electronic components, is first to stock the new [AD7177-2 32-bit Sigma Delta Analog to Digital Converter \(ADC\)](#) from [Analog Devices](#). The AD7177-2 is a low noise 32-bit sigma delta (Σ - Δ) ADC with a true rail-to-rail input buffer and flexible scan rates. This 32-bit ADC can be configured as two fully differential, or four single-ended, analog inputs with a channel scan rate of 10 kSPS. The AD7177-2 is designed to operate as a fast settling, very high resolution, Σ - Δ ADC with high levels of configurability.

The [Analog Devices AD7177-2 32-bit Sigma Delta ADC](#), available first from Mouser Electronics, is a very high resolution 32-bit Σ - Δ ADC for applications that require the measurement of very high precision analog data. The AD7177-2 can also be configured for 24-bit resolution, which provides faster conversion speeds. The AD7177-2 has four independent channels with four independent setups. Developers 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/°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 allow the ADC to easily drive high impedance inputs. An SPI interface allows configuration of many of the ADC options including 32- or 24-bit resolution, power down modes, gain, offset calibration values, conversion delay, and enabling the internal temperature sensor. This ADC is specified over the extended industrial temperature range of -40°C to +105°C.

The AD7177-2 can be used in a variety of applications that require high resolution and accuracy, such as [medical instrumentation](#), [industrial PLC modules](#), and [high precision data acquisition systems](#).

To learn more, visit: <http://www.mouser.com/new/Analog-Devices/adi-ad7177-2-adc/> .

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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 500,000 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

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 40 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.

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