

New Product Announcement

Mouser Now Stocking TI's Low-Power ADS112U04 ADC for Small Industrial Sensor Controllers

March 21, 2018 – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [ADS112U04](#) low-power analog-to-digital converter (ADC) from [Texas Instruments](http://www.ti.com) (TI). With current consumption as low as 315 μ A and programmable data rates up to 2 kilosamples per second (kSPS), the ADS112U04 integrates many features to reduce system cost and component count in [industrial](#) applications that measure small [sensor](#) signals, such as resistance temperature detectors (RTDs), thermocouples, thermistors, and resistive bridge sensors.

The [TI ADS112U04](#) ADC, available from Mouser Electronics, is a four-channel, 16-bit, delta-sigma ADC with a low-noise programmable gain amplifier (PGA) in a small 16-pin, 5.0 mm \times 4.4 mm package. The ADS112U04 offers four analog inputs through a flexible input multiplexer that accepts either two differential or four single-ended input measurements. The integrated low-noise PGA provides gain settings from 1 to 128, and the digital filter offers simultaneous 50-Hz and 60-Hz rejection at 20 SPS for noisy industrial applications.

The ADS112U04 integrates a highly linear internal temperature sensor with a typical accuracy of 0.5 degrees Celsius, as well as two matched programmable current sources (IDACs) for sensor excitation. The device communicates digital data over a two-wire UART-compatible interface, which minimizes the number of digital isolation channels and saves cost, board space, and power. The ADS112U04 operates over an extended temperature range of minus 40 to 125 degrees Celsius and is supported by the [ADS1256EVM](#) evaluation module, also available from Mouser Electronics.

To learn more, visit www.mouser.com/ti-ads112u04-adc.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

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