

New Product Announcement

Texas Instruments' 16-Bit ADS112C04 ADC, Now at Mouser, Offers Low-Power Conversion for Small Sensor Signals

July 2, 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 16-bit [ADS112C04](http://www.ti.com/ads112c04) delta-sigma analog-to-digital converter (ADC) from [Texas Instruments](http://www.ti.com) (TI). Drawing currents as low as 315 μ A, the highly integrated ADS112C04 enables reduced system cost and component count in applications that measure small [sensor](#) signals, including resistance temperature detectors (RTDs), thermocouples, thermistors, resistive bridge sensors, and [medical](#) monitoring systems.

The [TI ADS112C04](http://www.ti.com/ads112c04) ADC, available from Mouser Electronics, features two differential or four single-ended inputs through a flexible input multiplexer (MUX), two programmable excitation current sources, programmable gain amplifier (PGA), a voltage reference, a clock oscillator, and a precision temperature sensor. The device offers two conversion modes — single-shot or continuous — and can perform conversions at data rates up to 2,000 samples-per-second (SPS) with single cycle settling. At 20 SPS, the device's digital filter offers simultaneous 50-Hz and 60-Hz rejection for noisy [industrial](#) applications.

The ADS112C04 features a Two Wire, I²C-compatible interface that supports I²C bus speeds up to 1 Mbit per second (Mbps), with two address pins that allow selection of 16 different I²C addresses for the device. The 5.0 mm × 4.40 mm TSSOP device operates from a wide supply range of 2.3 V to 5.5 V over a temperature range of minus 40 to 125 degrees Celsius.

The ADS112C04 ADC is supported by the [ADS112C04EVM](http://www.ti.com/ads112c04evm) evaluation and Delta-Sigma ADC Evaluation Software, which help engineers reduce prototype development time and get products to market faster.

To learn more about the TI ADS112C04 ADC, visit www.mouser.com/ti-ads112c04-adcs.

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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