



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](#), 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](#) delta-sigma analog-to-digital converter (ADC) from [Texas Instruments](#) (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](#) 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 x 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](#) 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.

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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