

New Product Announcement

Now at Mouser: Texas Instruments' ADS7057 SAR ADC Offers High-Speed Data Acquisition at Low Power

April 10, 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 [ADS7057](#) successive-approximation register (SAR) type analog-to-digital converter (ADC) from [Texas Instruments](http://www.ti.com) (TI). The ADS7057 ADC dissipates only 3.6 mW at a maximum sampling rate of 2.5 megasamples per second (MSPS) and only 0.02 μ W when static.

The [TI ADS7057](#), available from Mouser Electronics, is a 14-bit, single-ended input, SAR ADC with a range of 0V to AVDD, and AVDD in the range of 2.35 V to 3.6 V. Ideal offset specifications over the entire AVDD and temperature operating range is maintained through the internal offset calibration. The ADS7057 supports an SPI-compatible serial interface controlled by the CS and SCLK signals. The device uses an input signal that is sampled with the CS falling edge, and SCLK is used for both conversion and serial data output. A wide digital supply range of 2.35 V to 3.6 V is enabled on the ADS7057, directly interfacing to a variety of host controllers. A normal DVDD range of 1.65 V to 1.95 V allows the ADS7057 to comply with the JESD8-7A standard. The 8-pin, 1.5 mm \times 1.5 mm device features an extended industrial temperature range of minus 40 to 125 degrees Celsius and is ideal for space-constrained and battery-powered applications that require high-speed, high-resolution data acquisition, such as optical encoders, sonar receivers, ultrasonic flow meters, and handheld cameras.

The ADS7507 ADC is supported by the [ADS7057EVM-PDK](#) Performance Demonstration Kit, which provides the hardware and software required for diagnostic testing of the ADC. The kit includes the ADS7057 EVM board and the precision host interface (PHI) controller board, which enables the accompanying computer software to communicate with the ADC over USB for data capture and analysis.

To learn more, visit www.mouser.com/ti-ads7057-adcs.

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