

New Product Announcement

Now at Mouser: Texas Instruments' Easy-to-Use ADS7028 and ADS7138 12-bit SAR ADCs

August 11, 2020 – [Mouser Electronics](#), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the [ADS7028](#) and [ADS7138](#) 12-bit analog-to-digital converters (ADCs) from [Texas Instruments](#) (TI). The 8-channel, multiplexed, successive approximation register (SAR) ADCs provide reliable performance for applications, such as rack servers, AC drive power stage modules, [automotive](#) center information displays, and mobile robot CPU boards.

The TI [ADS7028](#) and [ADS7138](#) ADCs, available from Mouser Electronics, feature eight channels that can be configured in any combination of analog inputs, digital inputs, or digital outputs. The devices feature an internal oscillator for ADC processes, as well as a built-in cyclical redundancy check for power-up configuration and data read/write operations. Both ADCs feature open-drain, push-pull digital outputs for I/O expansion, while the devices' analog watchdog function includes an event counter for transient rejection and programmable thresholds for each channel. The ADCs feature wide operating ranges of 2.35V to 5.5V AVDD and 1.65V to 5.5V DVDD.

The ADS7028 communicates through an SPI-compatible interface with a sampling frequency of 1 MSPS, while the ADS7138 communicates using an I²C-compatible interface capable of operating at a frequency of up to 3.4 MHz. Both ADCs operate in either autonomous or single-shot conversion mode. The ADS7028 ADC also offers a root-mean-square module that computes a 16-bit true RMS output for any analog input, as well as a zero-crossing-detect module that features built-in transient rejection and hysteresis near configurable threshold crossings.

To learn more about the ADS7028 ADC, visit <https://www.mouser.com/new/texas-instruments/ti-ads7028-adc/>. For more information on the ADS7138 ADC, visit <https://www.mouser.com/new/texas-instruments/ti-ads7138-adc/>.

Mouser is an authorized global distributor of Texas Instruments solutions. With over 50,000 TI products, including 4,500 development kits, Mouser offers the broadest portfolio of the newest Texas Instruments semiconductor solutions, adding new products every day.

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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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