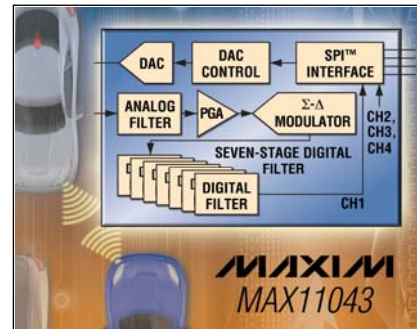


PRESS INFORMATION

- FOR IMMEDIATE RELEASE -

Avnet Memec extends its portfolio with the highly integrated simultaneous-sampling ADC for automotive radar applications

Poing, December 9th, 2008 - Avnet Memec, the highly specialised semiconductor distributor of Avnet Electronics Marketing EMEA, introduces the MAX11043 quad, 16-bit, simultaneous-sampling ADC for sensor applications from Maxim Integrated Products. Designed for continuous-wave (CW) chirp radar systems, this device provides a complete solution for conditioning and digitizing the IF signals from a 24GHz or 77GHz radar front-end for a DSP or microprocessor.



To minimize cost and save board space, the device integrates four discrete analog filters; four high-precision, simultaneous-sampling ADCs; and a 12-bit control DAC into a small, 6mm x 6mm package. The MAX11043's unprecedented integration makes it ideal for automotive radar applications, industrial control applications that use radar signals for level sensing or flow-rate measurements, power-grid monitoring, and other applications that require simultaneous sampling.

To maximize flexibility, the MAX11043 contains a versatile filter block and PGA on each of its four channels. The filter consists of seven cascaded 2nd-order programmable filter sections, allowing the construction of a 14th-order filter. Each 2nd-order filter is configurable as lowpass, highpass, or bandpass with optional rectification. Each PGA is programmable for a gain of 1 to 64 and includes an equalizer function to provide gain-versus-frequency characteristics for CW chirp radar. The signal path of each ADC can be customized and configured individually for optimal flexibility.

Other features include an internal or external reference, power-saving modes, and a two-stage, 12-bit DAC. The integrated DAC provides the VCO control voltage to the RF mixer in the radar front-end. With its adjustable DAC output range, this control voltage can be matched to the VCO's input-voltage range. Additionally, scan mode allows the ADC's results to be read while simultaneously updating the DAC to increase communications efficiency.

The MAX11043 operates from a 3.0V to 3.6V supply. It is available in a space-saving, 6mm x 6mm, 40-pin TQFN package and is fully specified over the -40°C to +125°C automotive temperature range.

About Avnet Memec

Avnet Memec, an independent business unit of Avnet Electronics Marketing EMEA, is a highly specialised semiconductor distributor, operating on a pan-European basis and employing a significant number of engineers to support customers' design efforts. Avnet Memec specialises in highly innovative suppliers and technologies, which will help a variety of customers to differentiate their designs. Its area of specialisation extends from Analog and Microcontrollers to RF, Datacom and Networking. The business unit operates out of 31 offices in 19 European countries and represents major semiconductor franchises on a pan-European basis. www.avnet-memec.eu

Media Contact Avnet Memec

Tom Oelschlaeger – Communications Manager Avnet Memec
Im Technologiepark 2-8, D-85586 Poing
Phone: +49 (0) 8121 775 146
Fax: +49 (08121) 775 8 146
E-Mail: tom.oelschlaeger@avnet-memec.eu

