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PRESS INFORMATION

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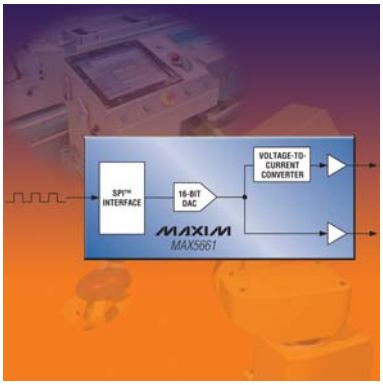
Avnet Memec adds Industry's First, Complete 16-Bit Industrial DAC with ±10V and 4–20mA Outputs of Maxim to its Portfolio

Poing, August 19th, 2009 - Avnet Memec, the highly specialised semiconductor distributor of Avnet Electronics Marketing EMEA, introduces the new MAX5661 of Maxim Integrated Products. The device is a 16-bit, industrial digital-to-analog converter (DAC) with two precision, high-voltage output circuits. This DAC features unprecedented integration by incorporating a voltage-output amplifier, current-output amplifier, and pass transistors on the same silicon.



The dual-range voltage-output amplifier provides a voltage proportional to the DAC value and provides either a 0 to 10V or -10V to +10V output. The current-output amplifier, also dual-range, sources a current that is proportional to the DAC value, and can source either 0–20mA or 4–20mA of current. Both the voltage and current outputs have 25% overrange capability.

The MAX5661 was designed specifically for the industrial market, and contains many features that simplify the design of programmable logic controller (PLC) modules. The integrated voltage amplifier and voltage-to-current converter eliminate the need for additional precision resistors and for matched resistors that track well over temperature. Gain resistors are terminated outside the package, which allows for simple surge and transient protection without affecting accuracy. Load-fault detection is also integrated. If an open-circuit occurs on the current output or if a short-circuit occurs on the voltage output, the open-drain fault pin will be pulled low. The status of the fault bits is available through the SPI™ interface. To meet possible PLC legacy requirements, the outputs can drive 1.2µF capacitive loads or 1H inductive loads. Power for the current output comes from a separate supply pin, thus allowing the sourced current to be provided by either the system supplies or by a 12V to 40V (24V nominal) external supply. Finally, the 10MHz SPI interface has daisy-chain capability, which minimizes the number of optocouplers required for isolated, multiple-output modules.

About Avnet Memec
Avnet Memec, a 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
Phone: +49 (0) 8121 775 146
E-Mail: tom.oelschlaeger@avnet-memec.eu