

PRESS INFORMATION

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Avnet Memec offers smallest HART modem IC minimizing system size and power consumption

Poing, May 27th, 2009 - Avnet Memec, the highly specialised semiconductor distributor of Avnet Electronics Marketing EMEA, adds DS8500 from Maxim Integrated Products to its portfolio. The DS8500 is a single-chip, HART-compliant modem IC that enables the smallest solution size for modulating and demodulating 1.2kHz/2.2kHz FSK signals.

This device integrates an ADC and state machine to implement the digital filter required to eliminate noise from the HART signal. The built-in digital filter minimizes the number of external components while ensuring reliable signal detection in noisy industrial environments. A simple, single-pole, lowpass/highpass RC filter is all that is required externally. Additionally, the DS8500 features a low, 285µA (max) active-mode current for applications in which low power consumption is critical. Packaged in a space-saving TQFN, the DS8500 is ideal for space-constrained, 4–20mA current-loop applications.

The DS8500 operates from 2.7V to 3.6V, and is fully specified over the -40°C to +85°C extended temperature range. It is available in a lead-free, 5mm x 5mm x 0.8mm, 20-pin TQFN package.



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

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