

Low Power ESM Provides up to 1.5 GHz of Processing Power



MEN Micro Inc. expanded its advanced series of PowerPC-based Embedded System Modules (ESMs) with a new single board computer (SBC) that employs Freescale's latest MPC8548, providing up to 1.5 GHz of processing power. Also using Altera's CycloneT II FPGA, the EM9 is a universal computer core for cost-critical embedded solutions in particularly harsh industrial environments, and provides individual I/O for each application through IP cores. Specific applications include industrial control and safety or network systems as well as machine control, human-machine interfaces or embedded terminals. The board's PowerQUICC III processor consists of a highly integrated e500 core with FPU, MMU and L2 cache. It can also employ an MPC8543 processor. Depending on the processor, the entire module requires only 10W to 14W and has a wide operating temperature range of -40°C to +85°C. Three Gigabit Ethernet channels and one COM interface accessible at the front can be connected via RJ45 connectors or optionally via D-Sub connectors. The Cyclone II FPGA enables the user to choose among further I/O functions such as additional COMs, graphics, CAN bus or IDE to connect mass storage devices, accessed via the I/O connector on the carrier board. The 2 GB of fast DDR2 SDRAM memory are permanently soldered against shock and vibration, making the EM9 useful in mobile applications as well. The soldered 1 GB NAND Flash memory can replace a hard disk in the system, and the fast, non-volatile FRAM is suitable for applications with low power consumption. Pricing for the EM9 is \$1,195. Delivery is six weeks ARO.

MEN Micro Inc

215-542-9575, www.men.de/ [1]

<http://www.men.de/products/default.asp?prod=15EM09> [2]

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