Mistral announces Curtiss Wright's First OpenVPX™ Multiprocessing DSP Engine based on Intel® Core™ i7 Processors

Features two quad-core Intel® Core™ i7-2715QE processors and supports Gen2 PCIe-to-sRIO protocol conversion.

January 27, 2011; Mistral Solutions Pvt. Ltd., a leading technology design and systems engineering company, today announced the availability of Curtiss Wright's CHAMP-AV8: its first rugged, high performance OpenVPX DSP engine based on the new quad-core Intel® CoreTM i7-2715QE processor.

The new CHAMP-AV8 is also Curtiss-Wright Controls' first DSP engine to offer IDT's upcoming Gen2 PCIe-to-sRIO protocol conversion bridging semiconductor product, bringing the performance and bandwidth advantages of sRIO switch fabrics to the 2nd generation Intel® Core™ i7 processor-based embedded computing applications.

Available in a full range of air- and conduction-cooled configurations, the rugged CHAMP-AV8 combines the significantly improved floating-point performance of the latest Intel® Core™ i7 processors, with the substantial bandwidth and system-enabling features of the 6U OpenVPX™ form factor. The board's pair of quad-core processors features new Intel AVX floating-point instructions, and delivers unmatched performance, rated at up to 269 GFLOPS.

With a 21GB/s (peak) DDR3 memory subsystem connected directly to the processor, the Intel® CoreTM i7-2715QE is able to maximize the throughput of its Intel AVX vector processing units and process larger vectors at peak rates significantly greater than was possible with previous AltiVec™-based systems.

The CHAMP-AV8 features a high-bandwidth PCI Express® (PCIe) architecture, with on-board PCIe connections between the processors and the XMC site. With 8GB of Flash and up to 16GB of SDRAM, the CHAMP-AV8 is designed for applications with demanding storage, data logging and sensor processing requirements.

About Curtiss-Wright Controls Embedded Computing

Curtiss-Wright Controls Embedded Computing is the industry's most comprehensive and experienced single source for embedded solutions, ranging from Processing, Subsystems, Data Communication, DSP, and Video & Graphics to the most advanced board level components and fully integrated custom systems. The Embedded Computing group serves the defense, aerospace, commercial and industrial markets and is part of Curtiss-Wright Controls Inc.