Mistral announces availability of rugged, high performance 6U VPX general purpose Single Board Computer

September 2009: Mistral Solutions Pvt. Ltd., a leading provider of complete technology solutions and professional services in the embedded space, has announced the availability of Curtiss Wright's VPX6-187, a single board computer based on Freescale's latest eight-core QorIQ™ P4080 Communications Processor.

Harnessing the advanced performance capabilities of the Freescale QorIQ P4080 communications processor, the VPX6-187 provides a trusted computing environment for a wide range of embedded military/aerospace applications. The rugged, high performance 6U VPX general purpose SBC supports its eight 1.5 GHz Power Architecture™ processor cores with high-performance datapath acceleration logic, network and peripheral bus interfaces.

The VPX6-187 provides two PMC/XMC sites supporting the acquisition, processing, and distribution of high-speed sensor data such as video, radar, and sonar data. The high-speed VPX backplane of the VPX6-187 supports connectivity via Gen 2 PCIe and SRIO for multi-GB/sec board-to-board data communications. By providing support for data, control and expansion plane interconnects, the VPX6-187 can be used in centralized, distributed, or hybrid switched backplane topologies. It also supports a rich I/O complement including four Gigabit Ethernet (GbE) ports, USB, options for multi-function RS-232/422/485 serial ports, MIL-STD-1553, Serial ATA, and TTL and differential discretes that provide connectivity integration with other system elements without using up PMC/XMC sites.

The VPX6-187 is also supported by a wealth of software including Curtiss-Wright Controls Embedded Computing's standard CSA firmware, Wind River VxWorks and Linux Board Support Package and Driver Suites supporting both SMP and AMP operating modes, MIL-STD-1553 software driver, and other operating systems.

Offered in both air-and conduction-cooled rugged configurations, the VPX6-187 is also optionally available in a VPX-REDI (VITA 48) configuration.