NEWS RELEASE

Curtiss-Wright Delivers Performance Breakthrough for VxWorks-based HPEC Systems with Support for Intel® Xeon® D processor DMA Engine with 40 GbE

Wind River VxWorks BSP for Intel Xeon D processor-based CHAMP-XD1 and CHAMP-XD2 OpenVPX Modules is first to provide support for QuickData Technology DMA engine and 40 GbE Mellanox® Ethernet Controller

ASHBURN, Va. – June 4, 2018 -- Curtiss-Wright's Defense Solutions division today announced a significant performance breakthrough in the design of compute intensive High Performance Embedded Computing (HPEC) systems for Intelligence, Surveillance and Reconnaissance (ISR) applications based on the Wind River® VxWorks® real-time operating system (RTOS). New software drivers, included in Curtiss-Wright's latest Board Support Package (BSP) for use with its Intel® Xeon® D processor-based **CHAMP-XD1 3U OpenVPX™** and **CHAMP-XD2 6U OpenVPX DSP modules**, uniquely enable VxWorks® to access the Intel Xeon D processor's QuickData Technology DMA engine, freeing the multi-core processor from devoting critical resources to communications handling. In addition, the new VxWorks BSP enables the industry's first support for Mellanox® Ethernet Controllers, previously available only in Linux operating environments. Enabling unprecedented performance, this solution delivers 40 Gigabit Ethernet (GbE) on Curtiss-Wright's Fabric40™ CHAMP-XDx modules rated at ~37 Gbps, near line-rate.

For designers of HPEC systems, the features of this new BSP represent a true industry milestone. Now, for the first time, HPEC system designers that require the deterministic, hard real-time attributes of VxWorks can take full advantage of the Intel Xeon D processor architecture for multi-core/multi-board HPEC systems for designers of ISR applications. Additionally the VxWorks support for the Intel Xeon D processor's QuickData Technology DMA engine, which was previously limited only to Linux users, is now provided in the new Curtiss-Wright VxWorks BSP.

"We are very excited to be the industry first COTS vendor to enable HPEC system designers to bring the full power of Wind River VxWorks to leading Intel Xeon D processor-based COTS modules," said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. "Our breakthrough VxWorks board support package, now shipping on our CHAMP-XD1 and CHAMP-XD2 modules, uniquely empowers HPEC system developers to fully leverage the hard real-time determinism capabilities of VxWorks, and the full 40 Gigabit Ethernet bandwidth of Mellanox Ethernet Controllers, without compromising performance."

"Wind River is proud to be an integral part of this industry-leading solution," said Michel Genard, General Manager, Operating Systems, Wind River. "VxWorks has the capability to fully unlock the performance of the Intel Xeon D processors, offering optimized performance and affordability for HPEC systems using this combined hardware/software solution."

Fully Integrated HPEC Solutions

To reduce program risk, improve affordability, and speed time to deployment, Curtiss-Wright offers system integrators a range of development to deployment system options. This approach enables the system integrator to match the equivalent development system they need to the appropriate stage of their program, while enabling application transfer between the stages with minimal effort.

For more information about Curtiss-Wright's Defense Solutions division, please visit www.curtisswrightds.com.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships. The company employs approximately 8,600 people worldwide. For more information, visit www.curtisswright.com.

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