NEWS RELEASE

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Curtiss-Wright Debuts Industry's First 8th Gen Intel® Xeon®-based 3U OpenVPX™ Single Board Computer

New VPX3-1260 delivers "Screaming Fast" compute performance, up to 4.4 GHz, featuring just announced Intel Xeon E-2176M 6-core/12-thread ("Coffee Lake") processor

ASHBURN, Va. – April 3, 2018 – Curtiss-Wright's Defense Solutions division today announced the aerospace and defense industry's highest performance 3U OpenVPX single board computer (SBC), the first to be based on the just introduced Intel Xeon E-2176M (former codename "Coffee Lake") processor. Curtiss-Wright's VPX3-1260 SBC leads the industry in bringing the unprecedented compute power and I/O flexibility of the new 8th Gen Intel Xeon processor to the embedded market. Boasting a significant performance improvement over previous generations of Intel Core i7 and Xeon processors, the Xeon E-2176M makes the VPX3-1260 an ideal processing engine for system designers seeking the maximum amount of performance-per-Watt to support their compute intensive deployed applications. The Xeon E-2176M's 6-core (12-thread) architecture delivers an already impressive 2.7 GHz performance that increases up to 4.4 GHz when the processor's Turbo Mode is applied. What's more, in addition to being available in air- and conduction-cooled configurations, this rugged board will also be available as the industry's first Xeon E-2176M-based 3U OpenVPX SBC to feature full compliance to the VITA 48.8 Air-Flow-Through (AFT) cooling standard, ensuring optimal performance for critical applications in the harshest conditions.

"Curtiss-Wright is proud to lead the rugged embedded COTS industry in bringing Intel's latest processing architectures to the aerospace and defense markets," said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. "The VPX3-1260 is the industry's first single board computer to bring the screaming fast processing power of the Intel Xeon E-2176M to the 3U OpenVPX form factor, enabling our customers to rapidly deploy the sheer power this 8th Gen Intel Xeon processor."

A State-of-the-Art All-in-One Processing Solution

The VPX3-1260 was designed to take full advantage of the Xeon E-2176M's next-generation performance features, delivering over 50% more processing power when compared with earlier Core i7 and Xeon processor designs. The SBC's six cores are supported with up to 32 GB of dual-channel, high-speed ECC-protected DDR4 memory. With memory throughput rated at up to 38.4 GB/s, the VPX3-1260 maximizes the capabilities of the new processor while eliminating data bottlenecks. With 50% more Intel

Advanced Vector Extension (AVX) engines, the SBC can accelerate math intensive applications with over 500 GFLOPS of AVX2 performance. In addition, the board supports up to 256 GB of on-board, super-fast Non-Volatile Memory Express (NVMe) Flash storage, to deliver 3-5x improvement in performance and provide up to 16x the capacity compared to standard SATA interfaces.

The VPX3-1260 is ideal for use in general purpose mission computing applications that require the highest possible processing performance while consuming low power. This fully rugged module speeds and simplifies the integration of the 8th Gen Intel Xeon processor's cutting-edge capabilities into demanding defense and aerospace deployed applications such as mission computing, image and display processing, virtualization and small multi-SBC ISR systems.

Making Trusted Computing a Priority

Extending Curtiss-Wright's Trusted COTS™ (TCOTS™) product family, the VPX3-1260 addresses increasingly critical trusted computing requirements with built-in support for Intel's latest cybersecurity features, including Intel Boot Guard, UEFI Secure Boot, Software Guard Extensions (SGX), and locally encrypted file system security. The SBC was designed specifically to implement these important security features.

Integrated Graphics for Display or GPGPU Applications

The VPX3-1260 features an integrated Intel Graphics P630 graphics engine that provides enhanced graphics and video features while delivering up to 3x faster GPU performance compared to predecessors. It supports OpenGL® for graphics-intensive applications or serves as a GPGPU with performance rated at over 400 GFLOPS, and OpenCL™ support for data processing-intensive ISR/EW applications.

Fully Integrated System Solutions

The VPX3-1260 is easily integrated with other members of Curtiss-Wright's extensive 3U OpenVPX product family, including Intel, Power Architecture® and ARM-based SBCs and powerful graphics and storage modules, as well as DSP and FPGA engines to develop powerful mission computing and ISR/EW systems. Its unmatched processing power makes this size, weight and power (SWaP)-optimized SBC ideal for architecting solutions for High Performance Embedded Computing (HPEC) systems, general computing and mission processing, and multi-SBC systems for advanced processing and ISR/EW applications. When matched with complementary 3U modules, such as Curtis-Wright's VPX3-687 10 Gigabit Ethernet Switch, VPX3-4731 video capture and display processor, and VPX3-4923 GPGPU processor, or with Curtiss-Wright's wide range of XMC mezzanine cards, such as the XMC-4730 video capture and display processing module with NVIDIA CUDA capabilities, the VPX3-1260 serves as the foundation of a complete system solution.

Ideal for Technology Upgrades
Pin-compatible with our previous generations of Intel-based SBCs, the VPX3-1260 delivers a tremendous leap in performance over previous generations of Core i7 and Xeon processors in the smallest 3U form factor, making it ideal for use in technology upgrade programs.

Software Support
The VPX3-1260 is supported with drivers for an extensive suite of industry standard operating environments, including Linux® (Fedora™ and Red Hat® Enterprise Linux (RHEL)), VxWorks®, GHS INTEGRITY®, Microsoft® Windows® 10, LynxOS and others.

Sales inquiries: Please forward all Sales and reader service inquiries to ds@curtisswright.com.

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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