NEWS RELEASE

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Contact: John Wranovics
M: 925.640.6402
jwranovics@curtisswright.com

Curtiss-Wright Boosts Ruggedization of 6U OpenVPX™ Module with New Eight-Core Intel® Xeon® W-11000E Series processor

VPX6-1961 SBC features the just announced eight-core Intel Xeon W-11000E Series processor, qualified to deliver significant advances in integrated graphics and accelerated AI/ML processing at extreme temperatures and under demanding shock and vibration conditions

ASHBURN, Va. – August 3, 2021 – Curtiss-Wright's Defense Solutions division, a trusted, proven supplier of rugged open-standard solutions, has announced that its recently announced VPX6-1961 single board computer (SBC) will feature the new Intel Xeon W-11000E Series processor. The VPX6-1961 harnesses the extended operating performance of the Intel Xeon W-11000E to deliver an industry leading SBC capable of delivering the highest performance over extreme temperature, shock, and vibration conditions, as required by the most demanding deployed defense and aerospace applications. With its eight cores, doubling the count of previous generation quad-core processors, this 6U OpenVPX module leverages the latest Intel Core architectures to deliver the highest performance processing for demanding aerospace and defense applications. The module's additional processor cores enable system designers to significantly reduce their platform's size, weight, power, and cost (SWaP-C). Processing tasks that would formerly require multiple SBCs can now be consolidated into a single slot. What's more, the VPX6-1961 provides enterprise-class virtualization through its processor's Intel Virtualization Technology (VT-x, VT-d), large amounts of onboard memory (64GB SDRAM and up to 1 TB SSD), and support for hypervisors such as VMware. The Intel Xeon W-11000E Series processor also provides acceleration for machine learning (ML) and artificial intelligence (AI) applications using Intel's Vector Neural Network Instruction (VNNI) technology and provides double the floating-point performance using AVX512 for accelerating math-intensive applications. The 11th Gen processor features Intel's latest Gen 12 graphics engine, providing up to three 4K display interfaces with performance that rivals discrete

graphics solutions. These features of the Intel Xeon W-11000 make the VPX6-1961 ideal for demanding mission computing and virtualization applications in deployed environments.

“Following Intel’s recent introduction of its Intel Xeon W-11000E Series processor, we are proud to announce that this extremely high-performance new device will power our new VPX6-1961, the most powerful and capable single board computer we’ve ever brought to market,” said Chris Wiltsey, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions. “With its eight cores, support for enterprise-class virtualization, and highly rugged packaging, the VPX6-1961 utilizing the Intel Xeon W-11000E Series processor sets a whole new standard for embedded computing performance. Even better, it delivers double the floating-point performance with AVX512 to accelerate demanding math-intensive applications.”

The SBC’s high-speed, dual-channel DDR4 memory subsystem is connected directly to the processor and supports up to 64 GB SDRAM. The VPX6-1961 also provides high-speed NVMe on-board SSD memory and includes dual XMC mezzanine sites to support a wide variety of expansion mezzanine daughter cards, including high performance FPGA, GPGPU, and storage modules.

Software Support

The VPX6-1961 supports a wide range of popular operating environments, including Linux® (CentOS and RHEL), Wind River® VxWorks®, Microsoft® Windows®, Green Hills Software INTEGRITY®, and Lynx Software Technologies® LynxOS®.

Powerful Upgrade for Legacy Processors

The VPX6-1961 provides a simple yet powerful upgrade path for many older 6U VPX processing modules. It is pin-compatible with a wide range of Curtiss-Wright rugged deployable Intel SBCs ranging from our very successful 2nd Generation VPX6-1952 through to our Intel 5th Generation Broadwell-based VPX6-1959.

Curtiss-Wright CMOSS-Compliant Available Hardware

Curtiss-Wright offers a broad complement of open architecture solutions for CMOSS-aligned systems, including high-performance single board computers (SBC), DSP, GPGPU, A-PNT timing, and network switch cards. In addition, Curtiss-Wright provides CMOSS-compliant lab development chassis and rugged, deployable multi-slot chassis. System integrators are encouraged to contact Curtiss-Wright system architects and C5ISR/EW Modular Open Suite of Standards (CMOSS)

product managers at ds@curtisswright.com to schedule a discussion about currently available and forthcoming embedded modules.

The Open Standards Leader

Curtiss-Wright is an active contributor to the definition and advancement of the open standards included in CMOSS and those being defined in The Open Group Sensor Open Systems Architecture™ (SOSA). Curtiss-Wright has been a leading participant in the development of the CMOSS and SOSA standards since the inception of both initiatives and is a key participant in several SOSA™ Consortium working groups (including holding a chair position in the SOSA Consortium). In addition, the company has been a leading contributor to the VITA Standards Organization (VSO) that oversees the definition of the OpenVPX, PMC, XMC, and FMC form factor standards that provide the foundation of both CMOSS and SOSA technical standards. This makes Curtiss-Wright ideally positioned to work with customers to help guide the development and success of their CMOSS- and SOSA-aligned applications.

To find out more about this innovative new module, download the VPX6-1961 product sheet here.

For additional information, please visit www.curtisswrightds.com, LinkedIn, and Twitter @CurtissWrightDS.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation (NYSE:CW) is a global innovative company that delivers highly engineered, critical function products and services to the Aerospace and Defense markets, and to the Commercial markets including Power, Process and General Industrial. 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 8,200 people worldwide. For more information, visit www.curtisswright.com.

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