NEWS RELEASE

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Curtiss-Wright Expands NVIDIA-Accelerated GPU Family with 6U VPX Module for AI at the Edge

New VPX6-731 adds dual NVIDIA RTX PRO 5000 Blackwell GPUs and Fabric100™ high-speed interconnects to industry's leading SOSA® aligned 6U portfolio

ASHBURN, Va. – October 28, 2025 – Curtiss-Wright today introduced the VPX6-731, a rugged, high-performance embedded computing (HPEC) Dual GPU module that brings NVIDIA Blackwell architecture to the 6U OpenVPX form factor. Designed for systems developed in alignment with the SOSA® Technical Standard, the VPX6-731 enables integrators to accelerate AI/ML and sensor processing at the edge with high-speed connectivity and advanced thermal management in a COTS solution.

"With the VPX6-731, integrators can accelerate the development of high-performance, modular sensor processing and AI/ML systems while reducing program risk and time-to-deployment," said Brian Perry, Senior Vice President and General Manager, Curtiss-Wright. "By bringing next-generation GPU acceleration to the edge, this solution enables faster, more informed decisions in operational environments where time and accuracy are critical to success."

The VPX6-731 delivers up to 100 TFLOPS of peak compute performance and 48 GB of GDDR7 memory by integrating one or two NVIDIA RTX PRO 5000 Blackwell GPUs in a single-slot 6U VPX module. Curtiss-Wright offers conduction-cooled, liquid flow-through (LFT), and air flow-through (AFT) configurations to support higher power density and energy efficiency. This powerful solution is designed for SWaP-constrained aerospace and edge computing applications requiring advanced display, encoding, decoding, sensor processing, and deep learning inference for AI workloads.

Key Features of the VPX6-731:

- Supports one or two NVIDIA RTX PRO 5000 Blackwell GPUs in a highly rugged 6U OpenVPX board

- Available with conduction, liquid flow-through (LFT), or air flow-through (AFT) cooling for energy efficiency and higher power density
- Up to 48 GB of GDDR7 memory providing a large local buffer and faster throughput compared to prior generation GPU boards
- NVIDIA Blackwell architecture supporting multiple data types for improved performance, efficiency, and programming flexibility
- Part of Curtiss-Wright's Fabric100™ portfolio for proven interoperability in advanced HPEC systems

When combined with the VPX6-682E 100G Ethernet Switch, CHAMP-XD4 (VPX6-485) dual Intel® Xeon® D-2800 processor card, and CHAMP-FX7 (VPX6-476) dual AMD Versal™ Premium ASoC (FPGA) processor card, the VPX6-731 is part of a proven Fabric100-enabled suite that delivers 100G Ethernet connectivity for advanced HPEC systems. Aligned with the SOSA® Technical Standard, this portfolio supports a Modular Open Systems Approach (MOSA) to ensure long-term upgradeability, rapid technology insertion, and reduced integration risk.

Curtiss-Wright provides rugged, long-lifecycle access to the latest GPU technologies and NVIDIA AI Enterprise . The VPX6-731 joins the 3U VPX3-730 accelerated by NVIDIA Blackwell to offer a flexible GPU portfolio for AI-enabled edge applications, backed by Curtiss-Wright's Total Lifecycle Management (TLCM) program to extend availability and mitigate obsolescence risks.

For more information, visit www.curtisswrightds.com and LinkedIn.

About Curtiss-Wright
Curtiss-Wright is a global integrated business that provides highly engineered products, solutions and services mainly to Aerospace & Defense markets, as well as critical technologies in demanding Commercial Nuclear Power, Process and Industrial markets. We leverage a workforce of approximately 9000 highly skilled employees who develop, design and build what we believe are the best engineered solutions to the markets we serve. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing innovative solutions through trusted customer relationships. For more information, visit www.curtisswright.com.

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