

NEWS RELEASE

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Curtiss-Wright Introduces the Industry's Highest Performance SOSA Aligned 3U VPX GPU Module for AI at the Edge

New VPX3-730 combines NVIDIA RTX PRO 5000 Blackwell & NVIDIA ConnectX-7 NIC for 100 GbE/PCIe Gen5 GPU connectivity in a rugged 3U VPX module

ASHBURN, Va. – June 23, 2025 –Curtiss-Wright Corporation has introduced the industry's highest performance SOSA aligned 3U VPX GPU module. The rugged VPX3-730, featuring the [NVIDIA RTX PRO 5000 Blackwell GPU](#), is the newest member of Curtiss-Wright's industry-leading Fabric100™ complete end-to-end ecosystem of VPX system building blocks that deliver proven interoperability and reduce system integration risk. For inferencing applications, [NVIDIA Blackwell](#) architecture represents a major leap forward in artificial intelligence (AI) / machine learning (ML) and vector processing compute capacity and memory bandwidth capabilities over prior-generation GPUs, and delivers up to 15x higher performance compared to other accelerated computing solutions. It also enables system integrators to leverage NVIDIA's extensive software ecosystem, including [NVIDIA AI Enterprise](#), deep learning frameworks, and neural network libraries. As an Embedded Enterprise Platform Partner with NVIDIA, Curtiss-Wright is able to better meet growing customer demand for higher performance, advanced processing solutions that significantly reduce integration risk.

Curtiss-Wright offers a complete solution – from ruggedized high reliability hardware through to application development – leveraging the NVIDIA software ecosystem. The

new VPX3-730 module provides designers of Modular Open Systems Approach (MOSA) systems with more NVIDIA CUDA cores, more [NVIDIA Tensor Cores](#), and much more local memory, with support for [NVIDIA ConnectX-7](#) 100Gb/s Ethernet NICs with PCIe Gen5 connectivity and up to 50 TFLOPS of peak compute performance, the highest GPU performance ever offered in a rugged 3U VPX form factor. The SOSA aligned VPX3-730 establishes a new benchmark for deploying GPU-based processing capabilities and hardware acceleration for CUDA computing, graphics and artificial intelligence (AI) algorithms.

The VPX3-730 module is ideal for use in size, weight and power (SWaP) constrained Aerospace and Edge Computing applications, such as demanding radar, display, sensor fusion and processing, that require the highest-performing GPU processing for deep learning inference and powerful math engines for AI workloads.

“Furthering our commitment to accelerate the development of advanced processing and communications systems for rugged applications at the extreme edge, we are proud to introduce the industry’s highest performance 3U VPX GPU module accelerated by NVIDIA, designed for edge processing,” said Brian Perry, Senior Vice President and General Manager, Curtiss-Wright. “The SOSA aligned rugged VPX3-730 module, the newest addition to our comprehensive Fabric100 family of high performance rugged system building blocks, provides a compelling solution for SWaP-constrained vector and AI/deep learning inference applications.”

Curtiss-Wright’s Fabric100 portfolio ecosystem of VPX system building blocks support 100 Gigabit Ethernet (GbE) and PCI Express® (PCIe) Gen4/5 connectivity and deliver proven interoperability that reduces system integration risk. Fabric100 enables integrators to architect the most advanced rugged modular sensor processing and AI/ML inferencing solutions with the lowest program risk. Curtiss-Wright offers the industry’s most comprehensive total lifecycle services management (TLCM) program to manage obsolescence for long lifecycle programs, and for the first time is able to bring these capabilities to NVIDIA technology, extending the life of products to meet the needs of critical capabilities and platform life extensions.

The VPX3-730 supports NVIDIA Linux Drivers supporting OpenGL and Vulkan accelerated graphics, along with OpenCL and [NVIDIA CUDA](#) for math and vector processing, as well as [NVIDIA AI Enterprise](#) for its extensive ecosystem of deep learning frameworks and neural network libraries.

The [datasheet for the VPX3-730](#) is available for download here.

For additional information please visit www.curtisswrightds.com and [LinkedIn](#).

About Curtiss-Wright Corporation

Curtiss-Wright Corporation is a global integrated business that provides highly engineered products, solutions and services mainly to A&G markets, as well as critical technologies in demanding Commercial Power, Process and Industrial markets. Headquartered in Davidson, North Carolina, the company leverages a workforce of approximately 8,900 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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