



NEWS RELEASE

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Curtiss-Wright Enhances MIL-grade Rugged Small Form Factor Computer with New Industrial-Grade NVIDIA Jetson AGX Xavier for AI/ML/Edge Computing

Parvus® DuraCOR® AGX-Xavier delivers high performance NVIDIA GPU-accelerated processing and deep learning engines in ultra-rugged SFF mission computer designed for extreme aerospace and defense applications

ASHBURN, Va. – August 4, 2021 – Curtiss-Wright's [Defense Solutions division](#), a proven leading supplier of small form factor (SFF) mission computing and networking solutions, announces that its [Parvus DuraCOR AGX-Xavier](#) rugged modular mission supercomputer will now integrate the newly introduced [NVIDIA® Jetson AGX Xavier™ Industrial](#) System on Module (SoM).

Use of the new industrial GPU-accelerated module will enable extended temperature operation, enhanced security, long lifecycle support, and up to 30 TOPS (INT8) of performance for [artificial intelligence \(AI\), machine learning \(ML\), and deep learning \(DL\)](#) applications designed for deployment in embedded military and aerospace platforms. This high-performance edge computer will be pre-qualified through extensive testing to some of the most demanding military and aerospace MIL-STD and DO-160 environmental, EMI, and power conditions required for use onboard aircraft and ground vehicles. The high FLOPS-per-watt DuraCOR AGX-Xavier combines the powerful Xavier SoC that contains an NVIDIA Volta GPU (with 512 NVIDIA CUDA® cores and 64 Tensor cores), and an 8-core Arm CPU with the benefits of [modular open system approach \(MOSA\)](#) scalability via add-on I/O cards and storage. It provides an ideal solution for system integrators seeking a high-performance embedded computing (HPEC) system for compute-intensive AI/ML/DL applications on size, weight, and power (SWaP)-constrained platforms.

“With the introduction of NVIDIA’s rugged new Jetson AGX Xavier Industrial SoM, the Parvus DuraCOR AGX-Xavier can now support compute intensive AI/ML/DL applications with a 10-year lifecycle, wider temperature operation, higher shock/vibe tolerance, as well as advanced hardware-accelerated cryptography and secure booting capabilities,” said Chris Wiltsey, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions division. “These enhancements translate to a powerful edge compute solution for military and aerospace integrators looking to deploy high performance NVIDIA GPU-based technologies on-board SWaP-constrained vehicle and aircraft platforms that must deliver optimal performance in the harshest conditions.”

Fully complemented to adapt to a wide range of C5ISR sensors, the DuraCOR AGX-Xavier delivers high-speed network connectivity with 1G BaseT plus 10G optical interfaces. It supports high-speed I/O connectivity over PCIe bus and USB 3.1 interfaces, along with high-resolution video outputs with HDMI 2.0 and DisplayPort interfaces. In addition to its comprehensive base system I/O (multiple Ethernet, CANbus, serial, USB, video, audio, GPIO), the system can be readily modified using an extensive range of mini-PCIe and PCIe104 expansion card options. Memory and data storage on the unit includes native eMMC Flash memory, high-speed NVMe-based M.2 SSD, and removable U.2 NVMe Flash SSD storage.

Optimized for Deep Learning and Neural Network Inference Applications

The DuraCOR AGX-Xavier is the embedded industry’s most rugged and modular system solution based on the NVIDIA Jetson AGX Xavier Industrial SoM. It supports the NVIDIA JetPack™ SDK, which includes libraries, samples, and tools to accelerate the entire AI pipeline, as well as pretrained models from the NVIDIA NGC™ catalog, which are performance-optimized and ready to be fine-tuned with customer datasets. The unit’s support for cloud-native technologies enables seamless model and software updates throughout its operating lifetime.

To find out more about this powerful new mission computer, download the [Parvus DuraCOR AGX-Xavier 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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