



NEWS RELEASE

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Curtiss-Wright Showcases New Rugged MOSA-based Solutions for Tactical Networks & Ground Vehicles with Live System Solution Demos at AUSA 2024

AUSA 2024, Walter E. Washington Convention Center (Booth 2143), Washington D.C. – October 14, 2024, Va. – Curtiss-Wright's [Defense Solutions Division](#) will showcase its latest rugged system solutions designed to equip warfighters with new and future technologies to adapt to an ever-changing and complex environment at the AUSA 2024 Annual Meeting and Exposition, October 14-16, 2024.

Live demonstrations and displays will showcase Curtiss-Wright's latest CMOSS Mounted Form Factor (CMFF) and Sensor Open Systems Architecture™ (SOSA) Technical Standard aligned products. Further highlighting the interoperability and reduced size, weight and power (SWaP) benefits of the Modular Open Systems Approach (MOSA) architecture, Curtiss-Wright will also showcase its tactical edge secure wireless and network management solutions.

Curtiss-Wright AUSA Demonstration Highlights:

- **A Deployable Network Backbone:** The DuraNET® 3300 Ethernet Switch provides network connectivity to nodes in a small form factor (SFF).
- **“Anything/Anywhere” Information Sharing:** Virtualization software running on a VPX3-126x series single board computer (SBC), with preloaded applications stored in the DTS-1 Network Attached

Storage (NAS) encrypted storage unit, enables all applications to be distributed as thin clients across the network via the DuraNET 3300 switch.

- **Ultra-Compact Tactical Communications and Processing Modules:** SWaP-optimized PacStar 200-Series and 400-Series modules enable system designers to snap-together a wide range of configurations for an even broader range of tactical applications.
- **Ruggedized Universal Software-Defined Radio:** SOSA aligned VPX3-E320 USRP module runs 3dB Labs SCEPTRE software to present live RF spectrum and demodulation.
- **Tactical Data Links for Battlefield Communications:** TCG HUNTR™ TDL Hub message TDLs (VMF and Link 16) for vehicle situational awareness, with TCG BOSS in the background. The DuraCOR 8043 mission computer runs simulation software showing real-time air, sea, and ground links on a local map.
- **Fanless SAVE System:** 8-slot CMOSS/SOSA enclosure meets the U.S. Army PEO Ground Combat Systems (GCS) Standardized A-Kit/Vehicle Envelope (SAVE) with internal mounting and physical interfaces for connecting CMOSS systems and radios to platforms.
- **CMOSS/SOSA System:** VPX3-126x series SBC, XMC-554C 1TB storage module, VPX3-687 VICTORY Network Ethernet switch, VPX3-E320 USRP module, and VITA 62 power supply hosted in 8-slot CMOSS/SOSA enclosure.
- **Secure But Unclassified Encrypted (SBU-E) Networks:** PacStar 400-Series solutions run Cisco Virtual Routing and Virtual Route Forwarding technology to separate the transport architecture with the data enclave. Shows ability to increase subscriber support from 20+ wired to 200+. Remote Operations and Management (ROAM) manages network and appliances from multiple vendors, including Cisco, Riverbed, Microsoft, and REDCOM.
- **IQ-Core Software:** IQ-Core Software provides network status and management for embedded systems. Its GUI displays a map of the networked hardware and networked demos in Curtiss-Wright's booth and display the network status of all embedded systems.
- **Fabric100™ OpenVPX Modules:** Extremely high-performance SOSA aligned 3U and 6U modules, including the 6U CHAMP-FX7 FPGA engine, CHAMP-XD4 6U VPX Intel® Xeon D-2700 HPEC/Cognitive DSP Processor, a3U VPX3-126x series 14-core Intel Raptor Lake Hybrid Processor SBC, and VPX3-6816 Ethernet switch.
- **Voice and Video Cross Domain Solution:** Owl Cyber Defense Voice and Video Cross Domain Solution (V2CDS) runs on PacStar 400-Series servers. This powerful combination enables secure collaboration across security boundaries: Designed for use in small team, ground vehicle-based, and command-post applications.
- **SOSA Aligned Cisco IOS XE based 10 GbE Embedded Switch Module:** New 3U VPX3-623 Cisco Powered Switch is industry's first to combine Cisco® Catalyst® ESS9300 Embedded Series Switch Technology with Curtiss-Wright's industry-leading OpenVPX ruggedization.

- **Generative AI/ML:** VPX3-1711 AI/ML Processor Card, one of the most powerful SBCs for energy-efficient autonomous solutions, enables software-defined intelligent systems at the tactical edge.
- **Crash Recorder with Health and Usage Monitoring:** The FortressHUMS lightweight crash recorder with integrated Health and Usage Monitoring (HUMS) uniquely combines cockpit voice recording, flight data recording and HUMS capabilities in an easy-to-install, lightweight, and affordable single-box solution.
- **High-Speed/High-Precision Motion Control:** Exceptionally compact (5.4 x 5.3 x 3.8 in), lightweight (<5 lbs) NC120A Nano Motion Controller, generates 120A of peak current with 28V input power to deliver more than 3kW of power.
- **Electromechanical Actuation:** Accurate, efficient, and battle-ready linear actuators and brushless servo motors deliver maximum force and robust performance in small packages.

For additional information about Curtiss-Wright MOSA technologies, please visit <http://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 Aerospace & Defense markets, as well as critical technologies in demanding Commercial Power, Process and Industrial markets. We leverage a workforce of approximately 8,600 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 <http://www.curtisswright.com>.

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