



NEWS RELEASE

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

Curtiss-Wright Defense Solutions Introduces New Starter Kit System and 8-Slot OpenVPX™ Chassis to Speed Development of CMOSS/SOSA Technical Standard 1.0 Aligned Solutions

New CMOSS/SOSA Technical Standard 1.0 aligned Starter Kit system integrates VICTORY Network, A-PNT and Intel® Xeon Processor SBC

8-Slot CMOSS/SOSA Technical Standard 1.0 aligned 3U OpenVPX chassis provides rugged convection cooled enclosure for deployed applications

AUSA 2021, Walter E. Washington Convention Center, Washington D.C. (Curtiss-Wright Booth 1051/Curtiss-Wright PacStar Booth 7849) – October 11, 2021 – Curtiss-Wright's [Defense Solutions division](#), a leading supplier of [modular open systems approach](#) (MOSA) based solutions, introduced two new natural convection-cooled system solutions designed in compliance with the U.S. Army CCDC C5ISR Center's [CMOSS](#) standard and aligned with the [SOSA Technical Standard 1.0](#) at the AUSA 2021 Annual Meeting and Exposition (October 11-13, 2021).

In support of its commitment to lead the industry in delivering rugged MOSA solutions, Curtiss-Wright announced the new [CMOSS/SOSA Starter Kit](#) (CSSK). Designed for use on ground combat vehicle (GCV) platforms, the CSSK speeds the development and demonstration of CMOSS/SOSA solutions by providing a pre-integrated 4-slot SWaP-optimized 3U VPX system that combines a VICTORY network module (Aligned with SOSA Profile: 14.4.14 DP/CP Switch), A-PNT module (Aligned with SOSA Profile: 14.9.2 Radial Clock), single board computer (aligned with SOSA Profile: 14.2.16 I/O Intensive) and 3U VPX power supply unit.

Curtiss-Wright also announced its new [8-Slot CMOSS/SOSA aligned Enclosure](#) that provides a highly configurable rugged platform for Ground Mobile and GCV environments. The powered

chassis features 8 3U OpenVPX slots, all of which are aligned with the SOSA Technical Standard 1.0. It features one External I/O slot, one I/O Intensive Compute Slot, four Generic Payload slots, one Data Plane/Control Plane Switch Slot, and one Radial Clock Slot that supports Assured-PNT functionality.

Curtiss-Wright's new CMOSS chassis are designed to meet the U.S. Army PEO Ground Combat Systems (GCS) Standardized A-Kit / Vehicle Envelope (SAVE), a new standard that defines internal mounting and physical interfaces for connecting CMOSS systems and radios to platforms. These fan-free chassis are ideal for use in Ground Combat Vehicle, and Tactical Wheeled Vehicle Platforms, as well as high performance ground or rotary wing processing applications.

"Curtiss-Wright is leveraging its industry leading MOSA hardware and system integration expertise to bring the widest range of CMOSS and the SOSA Technical Standard 1.0 aligned solutions to market," said Chris Wiltsey, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions. "In support of the DoD's mandate for MOSA-based solutions, our new CMOSS/SOSA Starter Kit and 8-Slot CMOSS/SOSA aligned rugged chassis help ground vehicle system designers rapidly get started on demonstrating and fielding their new applications and delivering new capabilities to the warfighter."

About the CSSK:

The CMOSS/SOSA Starter Kit packages best-in-class system building blocks in a ready-to-run 28V powered 3U OpenVPX chassis. This compact enclosure is pre-integrated with:

- **[VPX3-687](#): VICTORY Network**
 - Integrated Ethernet switch module provides 1GbE VICTORY network capabilities to the platform.
- **[VPX3-673](#): A-PNT**
 - Integrated A-PNT card has integrated CSAC, IMU, and GBGRAM Type-II SAASM/M-Code receiver. External network-enabled sensors can also be added and integrated with the pntOS software.
- **[VPX3-1260](#): Intel 8th Gen Xeon Processor**
 - Integrated Intel 8th Gen Xeon E-2276ME SBC provides general-purpose processing for hosting battle management software (JBC-P/MMC), in addition to other applications, in a virtualized environment.

About the 8-Slot CMOSS/SOSA Technical Standard 1.0 aligned 3U OpenVPX Chassis:

The new 8-Slot CMOSS/SOSA aligned powered enclosure provides the highest functional density available using natural convection cooling. It accommodates a wide range of capability and I/O, with little-to-no modification, enabling this enclosure to be part of the A-kit, or fixed infrastructure, hardware for all Army ground vehicles. All of the 8-Slot Chassis' slots are aligned to the SOSA Technical Standard 1.0. They support one External I/O slot, one I/O Intensive Compute Slot, four Generic Payload slots, one Data Plane/Control Plane Switch Slot, and one Radial Clock Slot providing Assured-PNT functionality. It also provides Dual Power Supplies and supports load sharing. Software support includes Curtiss-Wright's Embedded Chassis Manager.

A Leader in Open Standards

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 download the [CMOSS/SOSA Technical Standard 1.0 Starter Kit product sheet, please click here.](#)

To [download the 8-Slot CMOSS/SOSA aligned Chassis product sheet, please click here.](#)

For additional information about Curtiss-Wright MOSA technologies, 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. For more information, visit www.curtisswright.com.

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