NEWS RELEASE

Curtiss-Wright Rugged MPSoC Module Speeds the Integration of Trusted and Secure Processing Features to Deployed COTS Hardware

New XMC-529 AMD Ultrascale+ MPSoC XMC module rapidly integrates cybersecurity technologies into deployed VPX systems

ASHBURN, Va. – February 20, 2024 – Curtiss-Wright's Defense Solutions Division has expanded its family of Enhanced TrustedCOTS™ plug-in modules designed to bring trusted and secure processing to rugged deployed VPX-based systems with the introduction of the XMC-529 AMD Ultrascale+™ MPSoC XMC Mezzanine Card. The XMC-529 speeds the integration of advanced system IP into VPX, ATX, and legacy VMEbus systems. The module can also be used to increase a system's overall compute power by providing FPGA co-processing to the baseboard.

"Our XMC-529 and XMC-528 TrustedCOTS modules reduce the cost and time required to ensure trusted and secure high-performance computing in embedded MOSA-based electronics systems," said Brian Perry, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions. "The XMC-529, which has already been selected for use in a prime integrator's program, enhances critical data and technology on deployed systems while eliminating the need to customize the target hardware to support proprietary cybersecurity technologies."

Curtiss-Wright optimizes system architecture flexibility for deployed solutions and provides a common advanced trusted and secure framework that can be deployed using the XMC-529, the previously introduced XMC-528, or via the on-module FPGA devices hosted on its VPX boards.

Enhanced TrustedCOTS XMC (VITA 42/61) cards eliminate the need for costly and time-consuming customization of the target hardware. The XMC-528/529 modules enable system integrators to quickly add IP to fielded systems without a complete redesign. These cards have also been deployed in high-performance rack mount servers, using Curtiss-Wright rugged carrier solutions. For customers of Curtiss-Wright's XF07 family of XMC I/O modules, the XMC-529 provides a compelling replacement option.

The compact XMC-529 module is optimized to work with Curtiss-Wright's Fabric100™ family of extremely high-performance SOSA aligned 100Gbit processing engines, such as the recently introduced VPX3-1262 single board computer (SBC), which is powered by Intel's 13th Gen "Raptor Lake" 14-core hybrid architecture processor. The XMC-529 can also be hosted on a wide range of system modules, such as Curtiss-Wright's VME-1910, VPX6-1961, and VPX3-1260 SBCs.

The [XMC-529 product sheet is available for download here](#).

Sales inquiries: Please forward all Sales and reader service inquiries to ds@curtisswright.com.

For information about Curtiss-Wright Defense Solutions Enhanced TrustedCOTS products, please visit www.curtisswrightds.com, LinkedIn, and X @CurtissWrightDS.

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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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