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Curtiss-Wright Debuts New Cost-Effective XMC Module for Adding Security IP to COTS Modular Open Systems

New XMC-528 Enhanced TrustedCOTS™ module enables system designers to rapidly integrate security technologies into OpenVPX™ MOSA-based systems

ASHBURN, Va. – November 10, 2021 – Curtiss-Wright's Defense Solutions division, a leading supplier of modular open systems approach (MOSA) based solutions engineered for success, has introduced the industry's first plug-in module to bring commercial-off-the-shelf, defense-grade system security to rugged OpenVPX-based systems. The XMC-528 Xilinx Ultrascale+ MPSoC XMC Mezzanine Card is the first member of Curtiss-Wright's new family of enhanced TrustedCOTS (eTCOTS™) solutions. This XMC (VITA 42/61) module speeds the integration of advanced security IP, such as Raytheon's Night Cover™ product suite and Idaho Scientific's Immunity cryptographic products, into OpenVPX and legacy VMEbus system solutions. Using industry standard interfaces, the XMC-528 card can be hosted on existing system modules – such as Curtiss-Wright's VME-1910, VPX6-1961, and SOSA-aligned VPX3-1260 single board computers – to implement advanced data protection. What's more, the same security IP suite provided by the XMC-528 mezzanine module can also be integrated directly into the on-board security FPGA resident on Curtiss-Wright's family of security-ready OpenVPX modules – such as the CHAMP-XD1S 3U digital signal processor card and soon to be announced next-generation processor modules. Providing a common advanced security IP solution via both the XMC-528 card and on-module FPGA devices optimizes system architecture flexibility for designers of deployed security solutions.

Until now, most security IP solutions on the market have required costly and time-consuming customization of the target military hardware on which the security is to be deployed. The XMC-528 enables system designers to add security to any Curtiss-Wright or third-party module supporting an XMC site. This includes OpenVPX or VME modules as well as modules designed to align with The Open Group Sensor Open Systems Architecture™ (SOSA) and U.S. Army's C5ISR/EW Modular Open Suite of Standards (CMOSS) technical standards. Systems such as high-performance rack-mount servers can be supported with an appropriate XMC carrier. Using the XMC-528, system integrators can add embedded security to fielded systems without a complete redesign.

"Our new XMC-528 module is a major game changer for easing and enabling the security of critical data and technology on deployed systems, because it eliminates the need to customize the hardware in order to support proprietary security technologies," said Chris Wiltsey, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions. "In collaboration with Raytheon Intelligence & Space and Idaho Scientific, we are lowering the cost and time required to bring advanced security IP to embedded electronics."

About the XMC-528 Module

The XMC-528 is a high-performance, user-programmable processing and FPGA resource that facilitates embedded security. The module's unique combination of FPGA resources, multi-core processor, and I/O makes the XMC-528 ideal for applications that require a combination of software and FPGA logic, such as security or FPGA co-processing. The PCIe Gen 3 data path provides a high-performance interface between the FPGA and the baseboard. Ethernet and other I/O options provide a means for communication with both other cards in the system and external systems.

Enhanced TrustedCOTS (eTCOTS)

The XMC-528 module's MPSoC supports the integration of defense-grade security IP from Curtiss-Wright and its eTCOTS partners.

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.

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

To download the XMC-528 product sheet, click here.

For additional information about Curtiss-Wright MOSA technologies, please visit www.curtisswrightds.com, LinkedIn, and Twitter @CurtissWrightDS.

About Curtiss-Wright Corporation

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