



NEWS RELEASE

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Curtiss-Wright Launches New Family of SWaP-Optimized Rugged Graphics Modules for Defense and Aerospace Applications

New series of open architecture COTS modules features NVIDIA Pascal™-based 3U OpenVPX™ and XMC mezzanine modules with video capture and 3G-SDI interfaces

ASHBURN, Va. – April 24, 2018 -- [Curtiss-Wright's Defense Solutions division](#) today announced the first members of a new series of rugged graphics modules for video capture, processing, and display applications in deployed embedded defense and aerospace systems. As the number of high-resolution cameras and sensors and graphics-intensive applications, such as digital moving maps and diminished visual environment (DVE) systems, proliferate on deployed platforms, embedded system integrators seek the highest performance video capture, image processing, and graphics display technology. To meet these requirements, Curtiss-Wright has added three new graphics modules to its industry-leading range of OpenVPX and XMC modules. The [XMC-4730](#) XMC Graphics mezzanine module and [VPX3-4731](#) 3U OpenVPX Graphics Processor bring the NVIDIA Pascal GPU architecture to embedded defense and aerospace applications. Both modules provide digital DVI, DP, and HD/3G-SDI interfaces, and include analog capture interfaces for legacy compatibility. For embedded systems that don't require the NVIDIA GPU, the [XMC-4701](#) XMC Video Capture mezzanine card eases the integration of video capture functionality. It also supports HD/3G-SDI and analog interfaces.

Resulting from its recently announced Reseller Agreement with [WOLF Advanced Technology](#), these high-performance, pre-validated XMC and OpenVPX modules complement Curtiss-Wright's previously announced family of NVIDIA Pascal GPGPU modules by speeding and easing the integration of video acquisition and graphics processing functionality in demanding video capture, process, encode and display applications.

“Our customers are increasingly demanding the best-in-breed benefits of NVIDIA graphics technology on open standards-based 3U OpenVPX boards and XMC mezzanine modules,” said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division at Curtiss-Wright. ““Resulting from our recently announced VAR relationship with WOLF Advanced Technology, our new series of 3U VPX and XMC card graphics solutions provides system

designers with a selection of size, weight and power-optimized COTS solutions using the latest NVIDIA Pascal graphics technology for powerful video and display applications.”

Graphics Performance Features:

XMC-4730: XMC Graphics Mezzanine Module

- Latest NVIDIA® Quadro® Pascal GP107 architecture
 - 768 CUDA® cores, up to 2.3 TFLOPS
 - 4 GB GDDR5 128-bit graphics memory
- 4 x simultaneous video outputs
 - 2 x DDI configured as
 - 1 x DVI up to 1920x1200
 - 1 x DisplayPort++™ for up to 5K resolution
 - 2 x HD/3G-SDI for 720p and 1080p resolutions
- 4 x Video Capture channels
 - 2 x HD/3G-SDI for digital captures
 - 2 x analog composite CVBS inputs
- Space-saving XMC mezzanine format
- Easily integrated into 3U and 6U VPX modules
- Compatible with existing analog graphics systems
- Supports new graphics systems' serial digital interfaces (SDI) to significantly reduce display wiring complexity and weight
- Supports OpenGL® for graphics, as well as CUDA GPGPU processing capabilities to accelerate math-intensive processing algorithms

VPX3-4731: 3U OpenVPX Graphics Processor Module

- Latest NVIDIA Quadro Pascal P5000 architecture
 - 2048 CUDA cores, up to 6.2 TFLOPS
- 16 GB GDDR5 256-bit graphics memory
- 4 x simultaneous video outputs
 - 2 x DDI configured as
 - 1 x DVI up to 1920x1200
 - 1 x DisplayPort++ for up to 5K resolution
 - 4 x HD/3G-SDI for 720p and 1080p resolutions
- 6 x video capture channels
 - 4 x HD/3G-SDI for digital captures
 - 2 x analog composite CVBS inputs
- Popular 3U VPX form factor
- Compatible with existing analog graphics systems
- Supports new graphics systems' serial digital interfaces (SDI) to significantly reduce display wiring complexity and weight
- Supports OpenGL for graphics, as well as CUDA GPGPU processing capabilities to accelerate math-intensive processing algorithms

XMC-4701: XMC Video Capture Mezzanine Module

- 4 x video capture channels selectable from:
 - 4 x HD/3G-SDI for digital captures
 - 2 x analog composite CVBS inputs
- Video capture for legacy analog composite (NTSC, PAL)
- Captures serial digital HD-SDI or 3G-SDI video up to full high definition (1080p60)
- Easily added to any 3U or 6U OpenVPX base-card with an available XMC interface

For more information about Curtiss-Wright's Defense Solutions division, please visit www.curtisswrightds.com.

About WOLF Advanced Technology

WOLF Advanced Technology designs, develops and manufactures rugged boards for video capture, process, encode and display. All WOLF solutions are designed to operate flawlessly in even the harshest aerospace and defense environments without sacrificing any of the processing power available from the latest generation high-speed NVIDIA and AMD GPUs. WOLF's products include rapidly available COTS solutions, feature-tailored MCOTS solutions, and full custom designs. For more information, visit wolfadvancedtechnology.com.

About Curtiss-Wright Corporation

Curtiss-Wright Corporation is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. 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 8,600 people worldwide. For more information, visit www.curtisswright.com.

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