



NEWS RELEASE

FOR IMMEDIATE RELEASE

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

Curtiss-Wright COTS Modules for Avionics Featured in Glass Cockpit Demonstration with SYSGO's PikeOS Hypervisor/RTOS at Embedded World

COTS-based Glass Cockpit demonstration highlight's SYSGO's PikeOS, CoreAVI's OpenGL stack, and Esterel SCADE Display with Curtiss-Wright's VPX3-133 single board computer and XMC-715 AMD high performance graphics processor

EMBEDDED WORLD 2017, NUREMBERG EXHIBITION CENTRE, GERMANY (Hall 4 / Booth 4-308) – **March 14, 2017** – Curtiss-Wright Defense Solutions today announced that its rugged COTS single board computer (SBC) and graphics display modules will be featured in a live demonstration of an Avionics Glass Cockpit developed using Curtiss-Wright's open-standards based hardware and SYSGO's PikeOS operating environment at Embedded World 2017. The Glass Cockpit Demo, hosted in SYSGO's booth (Hall 4 / Booth 4-308), will feature the [VPX3-133](#), a rugged 3U OpenVPX™ SBC, coupled with an AMD® Embedded Radeon® [XMC-715 high performance graphics processor mezzanine card](#). The VPX3-133 will be running [PikeOS](#), SYSGO's microkernel based hypervisor and safety-certifiable real-time operating system (RTOS). The avionics glass cockpit display utilizes ANSYS' SCADE model-based development environment and DO-178C/DO-330 TQL-1 qualifiable code generation toolchain for critical embedded software interfaced to [Core Avionics & Industrial Inc. \("CoreAVI"\)](#) DO-178C/ED-12C safety certifiable OpenGL SC 1.0.1 graphics library suite to highlight a proven single-slot solution for quickly integrating avionics applications using high-performance COTS hardware. For customers seeking safety certifiable COTS hardware, Curtiss-Wright offers a wide range of subsystems and SBC, graphics and I/O modules needed to develop a complete DO-254/DO-178 certifiable solution. For applications that require higher graphics performance, Curtiss-Wright also offers the [VPX3-716](#), an AMD Embedded Radeon E8860-based 3U OpenVPX Graphics Processing Unit (GPU) and the [VPX3-719](#), which adds HD-SDI interfaces and video capture capabilities.

“Curtiss-Wright continues to lead the rugged embedded COTS industry in developing cost-effective avionics modules for the aerospace and defense markets,” said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. “As this Glass Cockpit demonstration shows, integrators can quickly and cost-effectively develop high performance open standards-based solutions built to deliver optimal performance for critical harsh military and commercial avionics applications.”

About SYSGO and PikeOS

[SYSGO](#) is a European market leader in embedded real-time operating systems and has 25 years of expertise in certifiable software, agile and responsive, with optional long term support for all of our OS products. PikeOS Real Time Operating System (RTOS) enables the development and deployment of critical and non-critical applications on a single hardware platform. PikeOS forms an integrated software platform for the development of new or the migration of existing and legacy applications. PikeOS hypervisor- based technology allows standard RTOS communication mechanisms inside and between partitions including shared memory, communication ports, semaphores, etc. These mechanisms are defined at design time by the system designers allowing secure point-to-point communications, memory and device access, which is statically allocated across partitions at PikeOS start-up.

About the VPX3-133 Single Board Computer

Curtiss-Wright's VPX3-133 rugged 3U OpenVPX™ SBC features NXP®'s quad-core QorIQ™ T2080 Power Architecture® processor. It combines the performance and the advanced I/O capabilities of NXP's QorIQ quad-core AltiVec™-equipped 64-bit processor with an extensive set of I/O that provides an extremely powerful processing solution for SWaP-constrained environments. The SBC delivers a high level of computing functionality in the small 3U standard form factor with low power (37 watts) while providing industry leading I/O flexibility. Available in either air-cooled or conduction-cooled variants, the SBC's integral high-speed backplane fabrics and XMC mezzanine module connectivity support multi-GBps data flows from board-to-board, both through the VPX3-133's backplane interface and from the backplane to its XMC site. The board is designed to deliver the high bandwidth processing needed to handle the acquisition, processing, and distribution of sensor data required by demanding defense and aerospace applications such as video, radar, and sonar. The VPX3-133 is equally well suited for use as a mission computer, display computer, or in SIGINT and motor control applications.

About the XMC-715 Graphics Controller

The XMC-715 rugged COTS graphics engine significantly speeds and reduces the cost of developing critical aviation applications on any platform that requires high performance graphics and video processing. Powered by an AMD Embedded Radeon™ E4690 GPU, this graphics module supports dual independent video display channels with DVI and analog output formats. It eases and speeds the integration of 2D/3D graphics displays into deployed airborne systems that require optimal performance, even in the most harsh environments.

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

For more information about Curtiss-Wright's Defense Solutions division, please visit www.curtisswrightds.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 8,000 people worldwide. For more information, visit www.curtisswright.com.

###

Note: All trademarks are property of their respective owners.