



NEWS RELEASE

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Curtiss-Wright, Lynx Software Technologies, ENSCO Avionics, and CoreAVI Demo LynxOS®-178 Safety Certified RTOS for Single Board Computers

***COTS-based IData Human Machine Interface (HMI) demonstration features FACE™
aligned LynxOS-178 2.2.4 RTCA/DO-178B Level A Safety Certified RTOS with Curtiss-
Wright's VPX3-131 single board computer (SBC) and XMC-715 AMD E4690 high
performance graphics processor***

AVIATION ELECTRONICS EUROPE 2017, Munich, Germany (Booth #G5) – April 25, 2017 – [Curtiss-Wright's Defense Solutions](#) division, in collaboration with [Lynx Software Technologies](#), [ENSCO Avionics](#), and [Core Avionics & Industrial Inc. \(CoreAVI\)](#), will demonstrate Lynx's LynxOS-178 2.2.4 RTCA/DO-178B Level A Safety Certified RTOS at Aviation Electronics Europe 2017. The demo will be hosted in Lynx's booth (Booth #G5). The LynxOS-178 2.2.4 RTOS, Lynx's latest version of its hard real-time DO-178B level A operating system, is aligned with the FACE APIs for the Security, Safety Base, and Safety Extended Profiles of the FACE Operating System Segment. The demo will feature a COTS-based Glass Cockpit solution that showcases Curtiss-Wright's open-standards based [VPX3-131 3U OpenVPX™ single board computer \(SBC\)](#) coupled with the AMD Radeon™ E4690-based [XMC-715 high performance graphics processor mezzanine card](#).

The demonstration, which will also feature CoreAVI graphics drivers and ENSCO Avionics' IData software, highlights 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 SBCs, 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

Radeon E8860-based 3U OpenVPX Graphics Processing Unit (GPU) and the VPX3-719, which adds HD-SDI interfaces and video capture capabilities.

Curtiss-Wright's safety certifiable multi-core processor SBCs and graphics modules provide system designers with a complete COTS hardware/software solution for avionics systems. To speed and ease the safety certification process, an RTCA/DO-254 data artifact package is available for each board. LynxOS-178 software drivers for Curtiss-Wright's VPX3-131, VPX6-187 and VME-183 SBCs are available from Lynx.

"The FACE standard is a big step forward for bringing security and interoperability to critical defense avionics systems," said Lynn Bamford, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions division. "We are very pleased, along with Lynx Software Technologies to demonstrate FACE aligned safety certifiable software solutions on our cost-effective COTS hardware, designed to speed the delivery of new capabilities to airborne platforms."

"The combination of our DO-178C DAL A certified LynxOS-178 RTOS technology with the rugged safety certifiable COTS hardware solutions from Curtiss-Wright offers a very compelling and quick time to market safety solution for complex avionics systems," said John Blevins, Director RTOS Products at Lynx Software Technologies. "Customers that use Curtiss-Wright boards and our RTOS should feel confident that they are getting state of the art support for both their hardware and software combinations, while also maximizing the intended portability and reduced time to certification and deployment that the FACE standard promises."

About LynxOS-178

LynxOS-178 RTOS is a real-time DO-178B and EUROCAE/ED-12B level A certified operating system that offers both the interoperability benefits of POSIX® and support for the ARINC 653-1 Application EXecutive (APEX) interface. It provides open and industry recognized interfaces between the system hardware and applications that enable the most capable systems for Integrated Modular Avionics platforms.

About the VPX3-131 Single Board Computer

Curtiss-Wright's VPX3-131 is a rugged 3U OpenVPX SBC featuring NXP's P4080 QorIQ™ Octal Power Architecture® processor with an extensive I/O complement to provide a highly

capable processing platform for a wide range of rugged, embedded military and aerospace applications. It provides an extensive I/O complement to provide a highly capable processing platform for a wide range of embedded military/aerospace applications.

About the XMC-715 Graphics Card

Curtiss-Wright's XMC-715 Graphics XMC utilizes the AMD Radeon E4690 Graphics Processor Unit (GPU) to deliver dual independent channels of high performance 2D/3D graphics.

Designed to meet the thermal requirements of rugged embedded systems, the module maintains a high level of performance per watt while maintaining full L200 compliance at the host SBC. This high performance graphics controller XMC supports dual independent graphics outputs with a low level of complexity providing a high level of reliability. Designed for rugged deployed military and aerospace graphics sub-systems where high-performance, low power, high reliability and small form factor are key requirements, the XMC-715 is based on the industry standard ANSI-VITA 42.3- XMC PCIe Protocol Layer Standard.

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.