



## NEWS RELEASE

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### **Curtiss-Wright Showcases Latest COTS-based Solutions for Ground Vehicles and Army Aviation at AUSA 2018**

**AUSA 2018, Washington, D.C. (Booth #1607) – October 8, 2018** -- Curtiss-Wright's Defense Solutions division today announced that it will be displaying its latest COTS-based embedded electronics solutions at the 2018 AUSA Annual Meeting and Exposition (Walter E. Washington Convention Center, Washington D.C., October 8-10, 2018). Featured products in Curtiss-Wright's booth (#1607) will include flexible upgradeable [Turret Aiming and Stabilization Drive system solutions](#) that enable customers to easily upgrade from manual architectures to turret drive servo systems. A fully integrated [MPMC-932x rugged mission computer](#), featuring a [VPX3-673 3U OpenVPX single board computer \(SBC\)](#) will highlight the cost-effective benefits of open architecture system integration. SWaP-optimized embedded avionics systems, such as the ultra-lightweight [Fortress Crash Protected Recorder](#), will also be on display.

#### **Live Demonstrations in the Curtiss-Wright Booth:**

##### **COTS-based A-PNT Services and Rugged Ground Vehicle Displays**

Curtiss-Wright will present a live demonstration of its industry-leading COTS-based approach for delivering cost-effective Assured Position, Navigation and Timing (A-PNT) for ground vehicles in GPS-denied environments. The A-PNT demonstration will feature the SWaP-optimized [Digital Beachhead™ VICTORY-compliant network switch](#), the industry's first fully integrated solution for detecting threats to GPS and delivering trusted A-PNT data to in-vehicle clients, integrated with Curtiss-Wright's latest rugged LCD touchscreen display technology

specifically designed for ground vehicle requirements. The cost-effective, [GVDU Ground Vehicle Display](#) features superior “smart phone style” Projected Capacitive (PCAP) multipoint touch screen technology, and supports Video Over Ethernet (VoE).

### **FACE™-Conformant Application and RTOS Software Running on Rugged COTS Hardware**

Curtiss-Wright, in collaboration with Harris Corporation and Green Hills Software®, will demonstrate Harris’s popular FACE-conformant FliteScene™ Digital Moving Map software running on top of Green Hill’s industry-leading and FACE-conformant INTEGRITY-178 tuMP™ real-time multicore operating system. The commercial off-the-shelf (COTS) module hardware solutions showcased in the demonstration include Curtiss-Wright’s NXP Power Architecture QorIQ™ Quad-core Altivec™-enabled T2080 processor-based [VPX3-152, a DO-254 safety-certifiable 3U OpenVPX SBC](#), and the [VPX3-716, an industry-leading rugged 3U OpenVPX high performance graphics processor card](#) based on the AMD Radeon E8860 Graphics Processing Unit (GPU). The software is displayed on the Advanced Video Display Unit (AVDU) range of rugged mission displays that offer a unique optically bonded glass for perfect readability in both direct and indirect sunlight.

### **Rapid Integration Framework: FACE and Crew Mission System (CMS) Upgrade**

In a demonstration of a Rapid Integration Framework solution, Curtiss-Wright, in collaboration with Lynx Software Technologies, will showcase a FACE-aligned software and COTS hardware solution for upgrading the existing Crew Mission System (CMS) hardware. The CMS is designed to reside in the main cabin area of a helicopter and provide situational / mission related data, such as location, speed, and altitude to the Crew Chief. This demo will feature Curtiss-Wright’s [Parvus® DuraCOR 8042 mission computer](#) and highlight Lynx’s LynxOS-178 RTOS and LynxSecure Separation Kernel. The system will host GE Aviation Systems’s portable Open Map 3-D visualization software, a MOSA-aligned framework for presenting mission data, including moving maps, 2-D/3-D terrain, charts and images. The demo will show how new software and hardware can be

integrated into the CMS with minimal development effort and integration challenges. In this demo, the existing hypervisor is replaced with the LynxSecure Separation Kernel, and the CMS's RTOS is replaced with the LynxOS-178 RTOS.

For more information about Curtiss-Wright's Defense Solutions division, please visit [www.curtisswrightds.com](http://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 8,600 people worldwide. For more information, visit [www.curtisswright.com](http://www.curtisswright.com).

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