



NEWS RELEASE

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Curtiss-Wright Highlights its Latest Rugged COTS-based Defense and Aerospace Solutions at LIMA 2019

LANGKAWI INTERNATIONAL MARITIME & AEROSPACE EXHIBITION (LIMA) 2019, LANGKAWI, MALAYSIA (Stand #C793) – March 26, 2019 – Curtiss-Wright's Defense Solutions division today announced that it will be displaying its latest [highly engineered commercial-off-the-shelf \(COTS\) solutions](#) designed for use in deployed defense and aerospace applications at Langkawi International Maritime & Aerospace Exhibition (Stand #C793). Curtiss-Wright's wide range of rugged open architecture products on display will highlight its industry leading [Data Acquisition Systems](#), [Data Recording and Storage solutions](#), [Video Management and Display solutions](#) and [Processors](#) and [Network Switches](#).

Fortress™ Flight Data Recorder with 90-day Underwater Locator Beacon

Featured in Curtiss-Wright's stand will be [Fortress™, the industry's newest Flight Data Recorder \(FDR\)](#). This lightweight "black box" provides support for a 90-day Underwater Locator Beacon (ULB), such as the DK120/90 or Blue90. Fortress FDRs are able to combine a CVR, FDR, DataLink recorder and image recorder in a single unit. This FDR has been qualified for flight release and meets the requirements set forth by the EUROCAE ED-112A "Minimum Operational Performance Specification for Crash Protected Airborne Recorder Systems" standard. Crash survivability and operational environmental qualification tests validate the ruggedness, operating temperature range and mitigation of problematic EMC emissions during operation.

Common Criteria-Approved Secure Data Storage with Encryption

For applications that require high-capacity secure data storage on deployed unmanned vehicles and ISR platforms, the [Data Transport System \(DTS1\) Network Attached Storage \(NAS\)](#) device is the embedded industry's first commercial off-the-shelf (COTS) data-at-rest (DAR) storage solution designed to support two layers of full disk encryption (FDE) in a single device. The DTS1 has received Common Criteria (CC) certification for both the hardware and software disk encryption layers and is listed on the United States NIAP Product Compliant List. This rugged NAS subsystem stores 2 TB and supports optional AES-256 encryption for secure data-at-rest. The single-slot Network Attached Storage (NAS) device weighs only 4.0 lb. and measures only 1.5 x 5.0 x 6.5" (38.1 x 127 x 165.1 mm).

Next Generation FTI Solutions

As the world's leading supplier of [Flight Test Instrumentation \(FTI\) solutions](#), Curtiss-Wright is proud to display its [Axon Data Acquisition Unit \(DAU\) chassis](#). Axon DAUs provide the most powerful and modern solution on the market by combining unprecedented flexibility with outstanding reliability for demanding applications. Axon modules and chassis, now available in 6, 9, and 16-slot configurations, enable FTI engineers to quickly configure and deploy the vast amounts of data acquisition required to support demanding flight test, missile test, and space developmental/operation flight instrumentation programs. Ideal for use in flight test, system monitoring, power system upgrades, or life extension programs, each Axon module supports a 1 Gbps dedicated link. 500 Mbps data transmission over the backplane has already been proven. These remotely mountable modules enable placement within 10 m link distance to the DAU chassis. Axon systems are easy to integrate and expand. Multiple Axon modules can be integrated into a single Axon chassis. The Axon chassis, Axon user modules, and Axonite remote housing are designed to work with Curtiss-Wright's Teletronics DAU and KAM-500 DAU family of products, including high-speed cameras, data recorders, and switches.

Ultra-Compact Rugged Mission Computers and Network Switches

Curtiss-Wright's [Parvus® family of ultra-compact rugged mission computers](#) and [network switches](#) is ideal for deploying powerful processing and high-speed Ethernet networking on airborne, land and naval platforms, including unmanned underwater vehicles (UUV). On display at LIMA 2019 will be the [Parvus® DuraNET® 20-11 Rugged Network Router and Switch](#), a revolutionary "pocket sized" ultra-small form factor 8-Port Gigabit Ethernet (GbE) switch subsystem that is 90% smaller, 50% lighter than earlier designs (roughly 10 cubic inches in volume, half a pound in weight, and 5 Watts typical power consumption). Rugged Mission Computers featured in Curtiss-Wright's stand will include the [Parvus DuraCOR 311 Rugged Miniature Modular Mission Computer](#) that features a low-power, four-core Intel Atom 3845 (Bay Trail-I) processor equipped with a rugged Flash disk and PCIe-Mini Card I/O expansion slots, and the [Parvus DuraCOR 80-41](#), a COTS tactical mission computer LRU subsystem powered by a multi-core 4th Gen Intel® Core i7 processor. The low-power, fanless DuraCOR 80-41 delivers higher computational performance, more powerful graphics, unmatched I/O, modular expansion and greater data storage flexibility compared to its predecessor, while reducing overall size and weight by 25%.

GVA-Ready Rugged LCD Touchscreen Displays for Ground Vehicles

Curtiss-Wright is also one of the leading producers of Rugged LCD Touchscreen Displays for Ground Vehicles. On display will be its latest [GVDU Displays](#), built GVA/VICTORY-ready, with support for DEF-STAN 00-250 compliant bezel buttons that deliver optimal tactile response in high vibration environments. The display's bezel buttons are positioned along the sides of the unit and are fully programmable via USB. GVDU displays support DEF-STAN 00-82 Video over Ethernet (VoE), ensuring that the display will work in any GVA/VICTORY compliant Ethernet system architecture. In addition, they support Projected Capacitive (PCAP) multipoint touch screen technology which enables operators to use familiar smartphone interface techniques to annotate, draw and manipulate screen images. In contrast, traditional resistive touch screens are only able to respond to the touch of a single finger. In harsh aerospace and military environments PCAP displays deliver greater resistance to shock and longer lifecycles than resistive touch panels.

Additional benefits of PCAP include improved brightness and contrast, a thinner and lighter display head, and reduced costs compared to resistive technology-based alternatives.

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 9,000 people worldwide. For more information, visit www.curtisswright.com.

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