



NEWS RELEASE

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Curtiss-Wright Announces Support for New VITA 48.8 Air Flow Through (AFT) Cooling Standard Effort

Demonstrates industry's first AFT cooled 3U VPX COTS system at ETT 2016 symposium

EMBEDDED TECH TRENDS 2016 (ETT) – HOUSTON, TEXAS – January 18, 2016 – Curtiss-Wright's Defense Solutions division today announced that it will support the new VITA 48.8 Air Flow Through (AFT) cooling standard with a range of 3U and 6U modules designed to bring the advanced cooling technology to rugged deployed embedded systems. During a presentation today at VITA's [Embedded Tech Trends](#) (ETT) 2016 symposium, Curtiss-Wright demonstrated the industry's first functioning AFT chassis based on commercial-off-the-shelf (COTS) 3U VPX modules. The groundbreaking demo featured a 3D printed plastic chassis integrated with Curtiss-Wright's [VPX3-1258 single board computer](#) (SBC) and [VPX3-716 graphics modules](#), both outfitted with AFT frames. A functional 3U AFT chassis demonstrator, able to run applications while cooling two VPX modules, is scheduled for availability early in Q1 2016.

Curtiss-Wright has already delivered the industry's first COTS 3U AFT cards to its lead customer and plans to develop a complete range of 3U and 6U AFT products. The first modules slated for use in VITA 48.8 AFT systems are Curtiss-Wright's [VPX3-652](#), [VPX3-1259](#), and [VPX3-1258](#) SBCs and the [VPX3-716](#) graphics module. The combination of advanced cooling, small form factor AFT and reduced weight delivered by VITA 48.8 are of especial benefit for size, weight, power and cost (SWAP-C) constrained platforms such as rotorcraft and unmanned vehicles.

"We are very excited about the advanced cooling that AFT will bring to SWAP-C constrained COTS systems such as 3U VPX solutions deployed on helicopters," said Lynn Bamford, Senior Vice President and General Manager, Defense Solutions division. "The aerospace and defense industry is beginning to see power densities as high as 200 W per square centimeter with the latest processors, and new technologies are needed to cool the latest generation of components. VITA 48.8 promises to deliver the needed cooling while delivering a great combination of weight and cost savings ideal for use in rotorcraft and UAV platforms."

About VITA 48.8

VITA 48.8 is the first open standard AFT technology to support small form 3U VPX COTS modules, which are preferred for use in SWAP-C sensitive rotorcraft and unmanned platforms. Based on technologies developed by Lockheed Martin Systems Integration, Owego, New York, VITA 48.8 helps reduce weight and cost for high density, high power dissipation 3U and 6U module based systems by eliminating the use of wedgelocks and ejector/injector handles VITA 48.8 also supports alternative air-flow arrangements, allowing air inlet at both card edges. Because VITA 48.8 does not use module-to-chassis conduction cooling, it also promises to help drive innovative use of new lightweight plastic or composite material based chassis.

Curtiss-Wright chairs the VITA 48.8 working group defining this new open standard.

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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