

## **Curtiss-Wright Delivers High-Performance PMC/XMC Expansion for VPX/VPX-REDI Systems with New Rugged Carrier Card**

### **Flexible VPX6-215 ExpressReach™ 6U Module Interfaces to Host Processors via PCI Express**

**LEESBURG, VA -- April 5, 2007** – Curtiss-Wright Controls Embedded Computing has introduced the **VPX6-215 ExpressReach™** module, a new high-performance rugged 6U VPX (VITA 46) and VPX-REDI (VITA-48) carrier card that features dual PMC/XMC expansion sites with PCI Express (PCIe) connectivity. The VPX6-215 ExpressReach speeds and eases the expansion of VPX and VPX-REDI systems through the addition of user-specified PMC and/or XMC mezzanine modules. The VPX6-215 can also host a Curtiss-Wright Interface Personality Module (IPM), resulting in even greater I/O capability. By providing system integrators with a cost-effective means for adding functionality, such as I/O, data communications or graphics to their system configuration beyond that provided by the host processor(s), this carrier enables the optimal tailoring of system components to specific application requirements.

“VPX and VPX-REDI are rapidly growing in popularity as the preferred system architecture for challenging processing requirements in deployed rugged defense and aerospace embedded computing applications,” said Lynn Patterson, Vice President and General Manager of Modular Solutions, Curtiss-Wright Controls Embedded Computing. “We developed the VPX6-215 ExpressReach to provide system designers with a simple and cost-effective solution for adding PMC, XMC, and IPM I/O to their system without needing to resort to adding additional processor cards.”

The VPX6-215 ExpressReach provides all of the advantages of the new VPX and VPX-REDI bus architecture, including high bandwidth MultiGig RT2 connectors, electrostatic-discharge (ESD) protection, and optional metal front and back covers. In addition to standard air-cooled and conduction-cooled VPX versions, the VPX6-215 ExpressReach is also available in a conduction-cooled VPX-REDI Line Replaceable Module (LRM) capable version.

#### **VPX6-215 ExpressReach carrier card features:**

- Dual PMC/XMC sites
- Interface Personality Module (IPM) site
- Each PMC/XMC site provides 8-lane PCIe link on the Pn5 connector
- Each PMC/XMC site provides parallel PCI-X on traditional PMC connectors

- Each PMC/XMC site provides 64 bits of I/O on Pn4 connector and 24 bits of I/O on Pn6
- IPM site supports IPM PCI features (i.e., 1553, SATA, SCSI...)
- Four PCIe links to backplane on VPX P1 core fabric connector
- User-selectable choice of active backplane PCIe link
- 6U VPX (0.8" pitch) and VPX-REDI (0.85" pitch) formats
- LRM (Line Replaceable Module) capable

**Environmental Specifications:**

- Conduction-cooling up to -40° to +85° C (Level 200)
- Curtiss-Wright Ruggedization levels available L0, and L100 air-cooled, and L100 and L200 conduction-cooled
- Storage temperature: -50° to +100° C
- Humidity: 10–95% RH non-condensing

The VPX6-215 ExpressReach is the latest addition to Curtiss-Wright's growing 6U VPX/VPX-REDI product family and complements Curtiss-Wright's wide range of VPX and VPX-REDI SBCs and DSP engines, including the VPX6-185 6U SBC and CHAMP-AV6 and CHAMP-FX2 DSP engines. For more information about Curtiss-Wright's embedded computing solutions please visit [www.cwembedded.com](http://www.cwembedded.com).

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**About Curtiss-Wright Controls Embedded Computing**

Curtiss-Wright Controls Embedded Computing is the industry's most comprehensive and experienced single source for embedded solutions, ranging from Processing, Subsystems, Data Communication, DSP, and Video & Graphics to the most advanced board level components and fully integrated custom systems. The Embedded Computing group serves the defense, aerospace, commercial and industrial markets and is part of Curtiss-Wright Controls Inc. For more information about Curtiss-Wright visit [www.cwembedded.com](http://www.cwembedded.com).

**About Curtiss-Wright Controls, Inc.**

Headquartered in Charlotte, North Carolina, Curtiss-Wright Controls is the motion control segment of Curtiss-Wright Corporation (NYSE: CW). With manufacturing facilities around the world, Curtiss-Wright Controls is a leading technology-based

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organization providing niche motion control products, subsystems and services internationally for the aerospace and defense markets. For more information, visit [www.cwcontrols.com](http://www.cwcontrols.com).

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