

Curtiss-Wright Boosts VPX System Development with New 6-Slot Lab / Development Chassis

LONG BEACH, CA - Bus and Board Conference - January 15, 2007 -Curtiss-Wright Controls Embedded Computing has announced the availability of the VPX 6-Slot Lab Chassis, a new 6-slot VPX and VPX-REDI (VITA 46/VITA 48) chassis, designed to ease the development of software for embedded systems based on the new high bandwidth VPX standards. The VPX 6-Slot Lab Chassis is designed to support software development using Curtis-Wright's VPX (VITA 46/48) processing modules such as the VPX6-185 single board computer (SBC) and the CHAMP-AV6 quad digital signal processing (DSP) engine cards. Curtiss-Wright will offer the chassis, which is manufactured by Hybricon, as a development system pre-configured with one or more of its VPX and VPX-REDI SBC and DSP boards.

"Curtiss-Wright is committed to providing its VPX customers with the most complete range of hardware and software support they need to quickly develop and deploy high performance VPX platforms," said Lynn Patterson, vice president and general manager of Modular Solutions, Curtiss-Wright Controls Embedded Computing. "Our new VPX 6-Slot Lab Chassis will help military and aerospace system integrators get their application development up and running quickly."

The VPX 6-Slot Lab Chassis provides five 6U VPX slots in a full-mesh configuration to provide each VPX card with a direct connection to all other VPX cards installed in the chassis; the sixth slot is not connected to the mesh, so it is suitable for prototyping. It supports a wide variety of system configurations, ranging from a single SBC, to a 320 GFLOP 40-node signal processor. The chassis's backplane fabric connections can support both Serial RapidIO for inter-card communications and PCI Express for connections to I/O cards including PMC/XMC carrier cards. The backplane and rear rack support the installation of standard 6U x 80mm Rear Transition Modules (RTM). RTM modules are typically used to provide convenient access to the I/O signals (Serial, Ethernet, DIO, 1553, video etc.) supported by the VPX modules.

"Hybricon Corporation is proud to be one of Curtiss-Wright's key VPX system partners. This relationship leverages the strengths of two leaders in the embedded computing industry. The teams have aligned their vision to bring the market complete solutions to satisfy our

customers needs", said Jim Doyle, Vice President of Sales and Marketing for Hybricon Corporation.

The VPX -Slot Lab Chassis features a power supply and cooling system with ample capacity to support a full load of high power cards. To ensure optimal air flow for the cooling of installed cards, optional air-blocker cards are available to fill unused slots.

VPX 6-Slot Lab Chassis Features

- 6-slot rack mount chassis for VPX system development
- 6U high, horizontal card orientation
- Fits on desktop
- Supports 1.0" pitch (VITA 48) cards
- 5-slot full mesh architecture
- Supports 6U x 80 mm rear transition modules per VITA 46.10
- Auto-ranging 50/60Hz, 100-240VAC power supply
 - +12V (VITA 46 VS1, VS2) @ 900W
 - +5 V (VITA 46 VS3) @ 500W
 - +3.3V (VITA 46 3.3V AUX) @ 50W
 - ±12 V (VITA 46 ±12V AUX) @ 50W ea
- VBAT terminal for external supply
- Front panel power and reset switches
- 18 CFM cooling air per slot
- Automatic variable fan-speed control
- Empty slots require optional air-blockers
- Includes all VITA 46 connectors, J0-J6 and RJ0-RJ6
- 0° - 40° operating temperature

The 6-slot chassis is available as part of a VPX Quick Start Kit that includes one or more Curtiss-Wright VPX modules. Availability is off-the-shelf. Please contact the factory for pricing.

About VPX and VPX-REDI

The new VPX (VITA 46) standard and VPX-REDI (VITA 48) standards were collaboratively developed by Curtiss-Wright, prime military integrators and other COTS industry leaders, to provide military and aerospace system integrators with a more capable module standard that

allows for better exploitation of new technologies while enabling more cost-effective end systems. The VPX standards provide the next generation of performance and rugged packaging for 6U and 3U form factor embedded computing with unprecedented backplane I/O connectivity, greatly improved thermal management, built-in ESD protection and support for LRU-level in-the-field repair and replacement. These new bus standards, available in IEEE-1101.2 conduction-cooled and IEEE 1101.1/10 air-cooled form factors, dramatically increase the total amount of data bandwidth compared to the earlier VME64x bus architecture.

VPX and VPX-REDI both use a new high-speed serial interconnect with a form factor and feature set specifically designed to meet demanding military and aerospace applications. Their innovative use of a new connector type, Tyco's 7-row, wafer-style MultiGig RT2, enables boards based on these new standards to support data rates up to 6.25Gbits/sec. This makes VPX an ideal architecture for serial switched fabrics such as ASI and SRIO. These new serial switched fabrics are quickly moving into mil/aero platforms and their subsystems, providing superior connectivity and data movement.

For more information on these new standards please visit www.vita.com. For more information on Curtiss-Wright's VPX and VPX-REDI products please visit www.cwembedded.com. For editorial information regarding Curtiss-Wright Controls Embedded Computing products or services, contact John Wranovics, Public Relations Director, Curtiss-Wright Controls Embedded Computing, Tel: (925) 640-6402; email. jwranovics@curtisswright.com. Web site: www.cwembedded.com.

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The 6-slot chassis is available from Curtiss-Wright as part of a **VPX Quick Start Kit** that includes one or more Curtiss-Wright VPX modules. Please contact the factory for pricing and availability.

For more information about Hybricon and its products, please visit www.hybricon.com.

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.

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 organization providing niche motion control products, subsystems and services internationally for the aerospace and defense markets. For more information, visit www.cwcontrols.com.

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