

## **Curtiss-Wright Announces First 3U VPX Single Board Computer and Companion 3U Carrier Board**

**New VPX3-125 SBC Features Low Power, Dual-Core  
P.A. Semi PWRficient™ PA6T-1682M Power Architecture-based Processor**

**LEESBURG, VA – February 5, 2007** -- Curtiss-Wright Controls Embedded Computing, a leading designer and manufacturer of commercial off-the-shelf (COTS) VME, VPX and CompactPCI products, has announced the **VPX3-125**, its first VPX (VITA 46) single board computer (SBC) available in a compact and lightweight 3U form factor. The company also announced a companion board, the **VPX3-215 ExpressReach**, a new 3U IO expansion carrier card for use with the VPX3-125. The two new 3U VPX products extend Curtiss-Wright's previously introduced VPX platform offerings, including 6U VPX SBC and DSP engines, bringing the high-bandwidth, serial switched fabric support and rugged, ESD protection benefits of VPX to space and weight constrained 3U embedded applications.

The VPX3-125 is the first Curtiss-Wright SBC to feature the P.A. Semi PWRficient™ PA6T-1682M. The PA6T-1682M is a low-power, fully compliant Power Architecture Platform processor. The VPX3-125 combines this high performance dual core processor, running at 1.5 GHz, high bandwidth serial fabric and a complementary set of IO features together in a form factor ideal for space and weight constrained harsh environment defense and aerospace applications.

"3U VPX delivers true high performance small form-factor processing," said Lynn Patterson, Vice President and General Manager of Curtiss Wright's Modular Solutions group. "The PA Semi -1682 PowerPC processor is ideal for driving new platforms, such as the VPX3-125 SBC, with support for high-speed serial switched interconnects such as PCI Express and 10Gigabit Ethernet with outstanding performance-per-Watt. When combined with the companion VPX3-215 ExpressReach 3U VPX carrier card, the VPX3-125 enables system integrators to quickly deploy compact and rugged system solutions in space and weight constrained environments."

The VPX3-215 ExpressReach carrier card simplifies IO expansion for system designers integrating high performance systems based on the VPX3-125. The 3U VPX carrier card provides an XMC/PMC site and two x4 PCI Express (PCIe) switch ports.

“We are very excited about working with Curtiss-Wright to bring the low power and high performance of the PWRficient 1682 to the embedded defense and aerospace market,” said Sanjay Iyer, director of marketing, P.A. Semi. “The increasingly demanding requirements of MIL COTS customers are sure to benefit from the PWRficient processor’s features, aggressive power and performance.”

The **VPX3-125** provides the following features:

- Single or Dual Core PA Semi PWRficient™ PA6T-1682M CPU @ 1.5 GHz
- 512 MB/1GB DDR2 memory @400 MHz
- 128 MB NOR Flash and 1 GB of NAND FLASH
- 512 KB Non Volatile Memory (NVRAM)
- One XMC/PMC site
- Two x4 lane PCI Express egress ports off board
- Two 10/100/1000 Ethernet ports
- RS-232 and RS-422 Serial Channels
- USB 2.0 Host port and Discreet Digital IO
- VPX-REDI (VITA 48) version available: contact factory for more information.

For applications requiring security functionality, the board supports Trusted Computing (TPM), and hardware encryption using the 1682 crypto engine. The board also provides the SecureErase Utility to easily erase all non-volatile memory elements when required for security purposes.

The optional companion 3U carrier card, the **VPX3-215**, provides the following features:

- High performance XMC/PMC site supporting x8 lane PCI Express port (VITA42.4) with differential pair IO routing
- PMC site supports up to 100MHz PCI-X (5V tolerant)
- Two x4 lane PCI Express Switch ports on P1 provide access to the PMC/XMC site. These can be aggregated to function as single x8 lane port for higher bandwidth access to XMC

### **Software Support**

Both the SBC and the ExpressReach card are built in conformance with Curtiss-Wright’s Continuum Software Architecture (CSA), an interoperability initiative under its COTS Continuum program that eases system upgrades and compatibility across product lines through the use of standardized APIs and abstraction of hardware layers. CSA compliant boards significantly reduce software driver development efforts.

Software available for the board includes drivers for operating environments including VxWorks/Tornado (6.x) and Linux. An SSSL VPX-optimized DSP library will also be available.

### **Rugged Levels**

The VPX3-125, Curtiss-Wright's highest performance 3U SBC compute platform, is designed for demanding, high-performance defense and aerospace applications and is offered in a range of rugged configurations including air cooled (Level 0/100) and conduction cooled (Level 100/200). Innovative cooling techniques are employed to handle high performance implementations.

Volume pricing for commercial and rugged versions of the VPX3-125 and the VPX3-215 ExpressReach is available. For pricing and availability please contact the factory.

Sales inquiries: Please forward all Sales and reader service inquiries to Jerri-Lynne Charbonneau, Curtiss-Wright Controls Embedded Computing, Tel: (613) 254-5112; Fax: (613) 599-7777; e-mail: [sales@cwembedded.com](mailto:sales@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 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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