

Curtiss-Wright's PowerPC 3U CompactPCI SBC Supports PMC I/O Via the Backplane

Small Form-Factor Board Expands I/O Flexibility With PICMG 2.3 Support

LEESBURG, VA -- March 1, 2007 – Curtiss-Wright Controls Embedded Computing has introduced the **SCP/DCP-124P**, a new high performance rugged 3U CompactPCI (cPCI) single board computer (SBC). The SCP/DCP-124P, which supports PICMG 2.3-compliant mapping of PMC I/O through the backplane, is available in both conduction cooled and air-cooled versions and delivers a rich complement of I/O in a compact 3U form factor. Powered by Freescale's AltiVec-enhanced 7448 PowerPC processor, this small form-factor card simplifies the design of space and weight constrained COTS systems for military and aerospace applications. The SCP/DCP-124P is the latest addition to Curtiss-Wright's extensive CompactCore cPCI product family.

"3U Compact PCI is growing in popularity as an SBC platform for space constrained military platforms," said Lynn Patterson, Vice President and General Manager of Modular Solutions, Curtiss-Wright Controls Embedded Computing. "We developed the SCP/DCP-124P to give system designers greater freedom in developing and deploying high performance systems that require a diversity of I/O on a single small form-factor SBC."

The SCP/DCP-124P, a variant of Curtiss-Wright's popular SCP/DCP-124 3U cPCI SBC, expands I/O flexibility by enabling I/O signals to be routed to the backplane in compliance with the PICMG 2.3 standard. The board is designed to be used in cPCI backplane peripheral slots. Curtiss-Wright also offers a range of 3U cPCI SBCs (SCP/DCP-122,-124,-1201) that can be used in both a peripheral slot or in a system slot as the system controller.

The SCP/DCP-124P supports a full 64-bit PMC site along with a wealth of additional I/O. The board is powered by a 7448 PowerPC that is supported by 1 MB of internal ECC L2 Cache memory running at core processor speed, and up to 1 Gbyte of DDR SDRAM with ECC. The SCP/DCP-124P's cPCI bus operates at 33/66MHz and supports both 3.3V and 5V signaling. System expansion is provided by an on-board 64-bit, 100 MHz PCI-X-capable PMC site. To ease system integration and development, Curtiss-Wright also offers optional rear transition cable sets.

The SCP/DCP-124P provides the following features:

- Freescale Altivec-enhanced MPC7448 processor running @1.0 GHz or 1.2GHz processor with support for Dynamic Frequency Shifting (DFS)
- 512 Mbytes (with growth path to 1 GB) of DDR SDRAM with ECC
- 256 Mbytes of contiguous direct-mapped non-volatile Flash
- 8 Mbytes Flash for Permanent Alternate Protected Access Boot Site (PABS)
- 128 Kbytes nonvolatile RAM
- PMC expansion site (64-bit, 33/66 MHz) with full 64 bits of PMCIO
- Up to two 10/100/1000 Base-T Ethernet ports
- 1 ASYNC serial channels (RS-232)
- 2 sync-capable serial channels (RS-232/422/485)
- up to 12-bits TTL discrete I/O
- Up to 2 USB 2.0 port
- Additional features as per the product datasheet

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

Software support includes BSPs for VxWorks 5.5.x/Tornado 2.2.x and 6.x/Workbench 2.x for PowerPC, CWCEC Linux, and Integrity. Support is also provided for SSSL, Curtiss-Wright's Altivec-optimized signal processing library.

The SCP/DCP-124P complements Curtiss-Wright's wide range of SBCs, Digital Signal Processors, Graphics and Communications and I/O products. For more information about Curtiss-Wright's embedded computing solutions please visit www.cwcembedded.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.

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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