

NEWS RELEASE



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Curtiss-Wright Debuts Rugged Packaged COTS Fully Configured 5-Slot Subsystem

3U CompactPCI-based Pre-Qualified, Pre-Configured Subsystem is ideal for rapid application deployment

LEESBURG, VA –Curtiss-Wright Controls Embedded Computing, a leading designer and manufacturer of commercial off-the-shelf (COTS) VME, VPX and CompactPCI products for the aerospace and defense market, has announced the first member of a new family of Packaged COTS (PCOTS) fully integrated rugged subsystems. The new Power Architecture™ (PowerPC)-based Multi-Platform Mission Computer-9350p (**MPMC-9350p**) and Intel-based MPMC-9350i PCOTS subsystems are flexibly configured five-slot 3U CompactPCI (cPCI) subsystems housed in a sealed, light-weight, compact chassis fully preconfigured with power supply, and a wide range of I/O. Designed for high availability in the harshest field conditions, the MPMC-9350p and MPMC-9350i deliver a fully qualified, off-the-shelf solution designed to speed deployment of critical applications for space, weight and power (SWaP) constrained platforms such as combat vehicles, helicopters and UAVs.

“Our new Packaged COTS family of pre-qualified, pre-configured compact rugged subsystems offer the high performance computer power and standard interfaces that a mission computer requires, and the flexibility to exactly meet the needs of deployable systems,” said Lynn Patterson, vice president and general manager of Curtiss-Wright’s Modular Solutions group.

Fully Rugged

The rugged MPMC-9350 family is designed to meet the harsh environments of many military and aerospace computing applications. To ensure the highest levels of performance, the MPMC-9350 has been designed to meet or surpass DO-160E Environmental Conditions for Airborne Equipment. It has successfully passed numerous environmental tests including Temperature, Altitude, Shock, Vibration, Fluid Susceptibility, Voltage Spikes, Electrostatic Discharge and more. Circuit cards installed in the sealed compact chassis (10.72"L x 5.11"W x 7.62"H) are completely isolated from external environmental conditions such as humidity,

dust and sand. Optimal system cooling is ensured via thermal transfer between the card edge of its conduction-cooled 3U cPCI cards and the chassis's side-walls, and a rugged integrated fan provides the necessary cooling air across the walls. EMI filters and gaskets provide increased system security and reliability.

High Performance 3U cPCI SBCs

The main processing power of the MPMC-9350p is provided by up to three Freescale 7448 PowerPC-based DCP-124 and DCP-124P single board computers (SBCs). The DCP-124P peripheral-only processor is a variant of Curtiss-Wright's standard DCP-124 SBC and supports PMC I/O, dual Ethernet channels, and a USB 2.0, RS-232 and dual RS-422 ports.

The MPMC-9350i features up to three Intel Core2 Duo-based DCP-1201 and 1201P SBCs. In addition to running Windows, the SCP/DCP-1201 runs both Solaris 10 and WindRiver GPP Linux 2.6 operating systems. Support for real-time applications using VxWorks 6.x OS is planned.

Typical MPMC-9350 Configuration:

- *Slot 1:* 66MHz/32 bit cPCI system controller slot. Supports two dual-redundant 1553 channels with an optional 601 PMC.
- *Slot 2:* PICMG 2.3-compliant slot for an ARINC 429 PMC on a PMC carrier. 32 channels of ARINC 429 are provided with each channel individually selectable as in input or output.
- *Slots 3 and 5:* Both PICMG 2.3 compliant for a 704 PMC video card. Each video card provides two video channels, each of which can be LVDS, DVI or VGA, and two video inputs that can be NTSC or RS-170. The video cards can be mounted on a PMC carrier or on an SBC.
- *Slot 4:* Integrated for a generic 64-bit PMC on a PMC carrier or SBC.

Power, I/O and Graphics: All Included

The MPMC-9350 family supports a full selection of standard and optional I/O. Standard I/O includes Ethernet, RS-232 serial, RS-422 serial and DIO. Two dual redundant channels of MIL STD 1553 are supplied via a Curtiss-Wright PMC-601 PMC module. 32 channels of ARINC 429 can be provided via a 429 PMC with each channel individually selectable as Rx or Tx. Graphics and video support includes up to four video outputs that can be generated in DVI, LVDS or VGA formats by one or two Curtiss-Wright PMC-704 video PMCs. The PMCs support capture of up to 6 NTSC or RS-170 video inputs (2 channels simultaneously). The PMC-704s may be hosted by either the system controller or a dedicated SBC.

Performance Features:

Processing

- PowerPC or Intel Core2 Duo.

Optional Interfaces

- Mil Std 1553 - Up to two Dual redundant channels
- ARINC 429 - Up to 32 channels Individually selectable as RX or TX
- Video up to 4 outputs
DVI, LVDS or VGA
Optional Power PC video processor
- Video input, up to 6 channels (NTSC, PAL, RS-170)

3U cPCI Backplane

- 5 slot 66MHz/32bit

Mechanical

- Volume Optimized
- Weight Fully Populated - 16 lbs
- L x W x H - 10.72" x 5.11" x 7.62"

Power Supply

- 28 VDC input per MIL-STD-704E, DO-160E

Custom Variations

The MPMC-9350p and MPMC-9350i can be ordered with a modified front panel connector set, modified backplane wiring or a modified card set to fit a unique application's exact needs.

To reduce costs for large volume orders the quantity of 1553 or ARINC 429 channels may be reduced. Also if video input is not required, a non-video capture display controller PMC variant may be selected.

For detailed information on Curtiss-Wright's ruggedization capabilities and ratings, please visit the company's website at <http://www.cwcembedded.com/6/144/208.html>.

Most configurations of the MPMC-9350p and MPMC-9350i are priced between \$40K and \$60K. Availability is off the shelf. For more information, please contact the factory.

For editorial information regarding Curtiss-Wright Controls Embedded Computing Multi Computing products or services, contact John Wranovics, Director of Media

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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, 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.cwcembedded.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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