

Curtiss-Wright Controls Debuts Conduction-Cooled 8-port Gigabit Ethernet Switch PMC Card

San Diego CA -- October 11, 2005 – Curtiss-Wright Controls Embedded Computing has introduced the **PGR8**, a new unmanaged, 8-port Gigabit Ethernet (GigE) Switch PMC card. This conduction-cooled, fully ruggedized mezzanine module enables system designers to quickly and easily add high reliability GigE switched networks to their most demanding VMEbus and CompactPCI-based embedded applications.

“Defense and aerospace platforms deployed in harsh environments increasingly need dependable high bandwidth data communications,” said Lynn Patterson, vice president and general manager of Modular Solutions, Curtiss-Wright Controls Embedded Computing. “The conduction cooled, ruggedized PGR8 allows gigabit switched networks to be built into existing embedded systems.”

Designed in full compliance with the IEEE 802.3 Ethernet standard, the PGR8 provides integrated 8-port Layer-2 switching and delivers full wire-speed performance over each of its ports. The card supports up to 8K unicast MAC addresses. Networking management features on the PGR8 include a 4096-entry ARL MAC address table with automatic learning, port trunking, and aggregation, as well as advanced flow-control and head-of-line blocking prevention. An optional mirroring mode enables one port to monitor all the other ports. Mirror mode prevents packet loss when the monitor port is busy or experiences very high levels of traffic by employing back pressure or flow control to instruct the switch’s other ports to slow down. An additional management option is broadcast storm filtering, which monitors and, if necessary, constrains the level of broadcast traffic on each port when a high level of multi-casting and/or broadcast traffic is detected. Each of the card’s ports has its own dedicated link/speed/activity LED.

The PGR8 is designed to support rugged applications that typically implement cabling over backplane connections. This is achieved by routing all of the GigE ports through the PMC PN4 connector. Curtiss-Wright offers transition modules to provide standard RJ-45 connections for lab development use.

This PCI 2.2 compliant card operates in both PCI-X and 64-bit /66 MHz PCI modes. Integration of a PGR8 onto a host board is fast and simple; the card’s PMC connectors provide the required power and ground rails. No PCI bus signaling or additional software support is needed.

Performance Features

- 8-port, Gigabit Ethernet Unmanaged Switch PMC
- Conduction-cooled and rugged air-cooled ruggedization
- Multi-network compatibility: 10/100/1000 Base-T (auto-negotiation)
- IEEE 802.3 compliant
- Line speed, Layer-2 switching on all 8 ports
- Supports jumbo packets up to 9728 bytes
- 4096 MAC address table
- Advanced flow control, and head-of-line blocking prevention

Environmental Specifications:

- Conduction-cooling: -40° to +85° C
- Ruggedization level: L0, L50 and L100 air-cooled L100 and L200 conduction-cooled.
- Storage temperature: -50° to +100° C
- Humidity: 10–95% RH non-condensing

The PGR8 complements Curtiss-Wright's wide range of Single Board Computers, Digital Signal Processors, Graphics and Communications and I/O products. For more information about Curtiss-Wright's embedded computing solutions please visit www.cwembedded.com.

For editorial information regarding Curtiss-Wright Advanced Multi Computing products or services, contact John Wranovics, public relations director, Curtiss-Wright, Tel: (925) 640-6402; Fax: (510) 530-8563; email: jwranovics@curtisswright.com; Web site: 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.

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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