

Curtiss-Wright Introduces PowerMatrix™ Multi-Processor Computers for High Performance Defense and Aerospace Applications

New 8-Slot and 21-Slot Multi-Processor Systems Deliver up to 480 GFLOPS Performance

LEESBURG, VA – September 7, 2006 -- Curtiss-Wright Controls Embedded Computing, a leading designer and manufacturer of commercial off-the-shelf (COTS) VME, VPX and CompactPCI products, has announced the new PowerMatrix™ family of multi-processor systems. These fully configured, high performance/high density systems offer a wide range of configuration flexibility with versions supporting from 10 to 48 processors. The PowerMatrix-48 DSP, a 21-slot rack-mount system supports up to 48 PowerPC 1.25 GHz processors and delivers up to 480 GFLOPS peak performance. The PowerMatrix-10 SMP, an 8-slot rack-mount system supports up to 20 PowerPC 1.0 GHz processors for peak performance up to 160 GFLOPS. PowerMatrix systems have spare VME slots and PMC sites to build custom configurations ideal for applications such as radar, sonar and signal intelligence that require massive processing coupled with broad I/O support.

PowerMatrix systems will be offered with independent node architecture boards running VxWorks real-time software and symmetrical processing (SMP) architecture boards running Linux.

“Our customers are increasingly looking for integrated multiprocessor system solutions,” said Lynn Patterson, vice president and general manager of Curtiss Wright’s Modular Solutions group. “Our PowerMatrix systems are ready to go out of the box, freeing our customers to focus on software development rather than systems integration.”

The PowerMatrix systems are highly modular and may be easily customized to meet specific processing and I/O requirements. Examples of I/O options offered on the PowerMatrix systems include Serial FPDP, Fibre Channel, Gigabit Ethernet, ARINC 429, and digital receivers.

The PowerMatrix-48 DSP

The PowerMatrix-48 DSP is housed in a 21-slot, 19” rack mount chassis. It can support up to twelve (12) quad Champ AV4 PowerPC cards and two (2) 12-port StarBlade StarFabric switches. Each of the Champ AV4 cards is connected to the full mesh StarFabric via a StarLink II PMC card. The two StarBlade switches

use centralized StarFabric technology to deliver up to 6 Gbytes/s aggregate throughput over a non-blocking architecture.

This very high performance system is ideal for demanding signal intelligence and airborne SAR radar applications.

PowerMatrix-48 DSP Performance Features

Processing Performance

- 48 PowerPC 7448's @ 1.25GHz
- 480 GFLOPS peak performance

Components

- Twelve CHAMP-AV IV quad PowerPC Cards
- Twelve StarLink II StarFabric PMCs
- Two StarBlade 12-port StarFabric Switches

Interconnect

- Full non-blocking mesh
- 2.4 GB/s system bandwidth

Software

- Linux 2.6
- VxWorks 5.5 or 6.2
- IPC InterProcessor Communications
- SSSL signal processing library

Chassis

- 21-slot, 19" rack mount

Expandability

- 7 open VME slots
- 12 open PMC sites

The PowerMatrix-20 SMP

The PowerMatrix-20 SMP is housed in an 8-slot, 19" rack mount chassis. It supports five (5) quad PowerPC Manta QX3 single board computers, one (1) PSTN StarFabric PMC, and one (1) PGR8 Gigabit Ethernet Switch PMC. The PowerMatrix-20 SMP system uses onboard StarFabric bridges and the PSTN PMC card to deliver 600 Mbytes/s aggregate distributed switch throughput. The Gigabit Ethernet Switch card is also provided to connect all of the Manta QX3 cards to the Gigabit Ethernet backplane.

This compact system is ideal for the medium-level processing typically required by ground-mobile and fast-jet radar applications.

PowerMatrix-20 SMP Performance Features

Processing Performance

- 20 PowerPC 7457's @ 1.0GHz
- 160 GFLOPs peak performance

Components

- Five Manta QX3 quad PowerPC Single Board Computers
- One PSTN StarFabric Switch
- One PGR8 Gigabit Ethernet Switch

Interconnect

- Full mesh between all Manta boards
- 600 MB/s system bandwidth

Software

- Linux 2.6
- VxWorks 5.5 or 6.2
- GBM Global Buffer Manager
- SSSL signal processing library

Chassis

- 8-slot 19" rack mount

Software support for the PowerMatrix-48 DSP and PowerMatrix-20 SMP includes Linux 2.6, VxWorks 5.5 or 6.2, Global Buffer Manager, Curtiss-Wright's IPC InterProcessor Communications, and SSSL signal processing library.

Availability for the PowerMatrix family of multi-processor systems is Fall, 2006. For information on pricing, please contact the factory.

For editorial information regarding Curtiss-Wright Controls Embedded Computing products or services, contact John Wranovics, Director of Public Relations, Curtiss-Wright, Tel: (925) 640-6402; email. jwranovics@curtisswright.com. Web site: 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.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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