

Curtiss-Wright Debuts Rugged Quad Channel Serial FPDP Board

*FibreXtreme SL100/SL240 Card Leverages Altera's Stratix II GX FPGAs for
Full Throughput Rate on All Four SFPDP Channels*

DAYTON, OH -- October 25, 2007 – Curtiss-Wright Controls Embedded Computing has introduced a new rugged high performance, quad channel Serial Front Panel Data Port (SFPDP) card that delivers sustained data rates up to 247 MB per second on each of its four channels. The new FibreXtreme SL100/SL240 Serial FPDP card, based on Altera's Stratix® II GX FPGAs, connects distributed devices through a highly specialized communications protocol (VITA 17.1-2003) optimized for maximum data throughput. The cards, available in both PCI and XMC mezzanine formats, are designed for use in applications that require high data rates such as digital signal processing, radar and sonar, medical imaging, range and telemetry systems. The SFPDP card off-loads the host processor, enabling data transfers to occur without the CPU overhead and non-deterministic latencies associated with many layers of complex software protocols.

The FibreXtreme SL100/SL240 Serial FPDP card supports a 2.5 GHz serial data link that utilizes the VITA 17.1-2003 communications protocol, which is specially optimized for maximum data throughput. The card's on-board DMA engine handles single transactions up to 64 MB for maximum data throughput without processor intervention. DMA and register byte/word swapping provide additional system flexibility. With support for 2.5 Gbit/sec transmission rates (1 Gb/s data rates supported on the SL100, and 2.5 Gb/s on the SL240) between interconnected subsystems separated by as much as 50 kilometers and low-latency performance to match, SL100/SL240 Serial FPDP technology is ideal for many of today's high-throughput DSP applications.

“The FibreXtreme SL100/SL240, Curtiss-Wright's newest SFPDP board, which features an Altera Stratix II GX FPGA, offers the fastest, most efficient and easiest to use data link available for streaming data applications,” said Gorky Chin, Vice President and General Manager of Embedded Computing's Data Communications group.

The FibreXtreme card uses the Stratix II GX FPGA to obtain full throughput rate on all four SFPDP channels while providing a full rate PCI Express host bus interface. The embedded transceivers in the FPGA support data rates in excess of 6 Gbps, enabling future performance enhancement.

“Our Stratix II GX FPGAs uniquely target these demanding, high throughput military and aerospace applications,” said Don Faria, senior vice president of Altera's application business groups. “The high signal integrity, excellent jitter performance and low power consumption of

our Stratix II GX devices make them an ideal solution for use in rugged COTS multi-gigabit serial I/O solutions.”

FibreXtreme SL100/SL240 Features:

- PCI Express (x8 lanes) host bus interface
- Up to 4 full speed channels
- ANSI/VITA 17.1-2003 Serial FPDP Protocol
- Up to 247 MB/sec Sustained Data Rate on each channel
- Three Ruggedization levels available: L100, L200 and conduction-cooled
- Extends FPDP Connections up to 10 Kilometers
- Various levels of error detection and status reporting

Industry Standard Architecture

Serial FPDP technology (ANSI/VITA 17.1-2003) is the industry standard for high-speed serial communication in today’s advanced sensor-to-DSP systems.

Software Support

Software support for the FibreXtreme SL100/SL240 includes drivers for today’s popular operating systems, including Windows NT 4.0, Windows 2000 and Windows XP, VxWorks and Linux.

Availability of the FibreXtreme SL100/SL240 card is off-the-shelf in first quarter, 2008. For pricing information, please contact the factory.

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Curtiss-Wright Controls Embedded Computing

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motion control products, subsystems and services internationally for the aerospace and defense markets. For more information, visit www.cwcontrols.com.

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