

Curtiss-Wright Debuts New Rugged High-Speed, Dual Channel 16-Bit Digital Receiver Mezzanine Card for Radar, SDR and SIGINT Applications

New XMC-E2201 Card Features Dual Xilinx Virtex-5 FPGAs; Supports 160 MSPS Analog Sampling per Channel

LEESBURG, VA – March 28, 2008 -- Curtiss-Wright Controls Embedded Computing, a leading designer and manufacturer of rugged deployed commercial off-the-shelf (COTS) VME, VPX and CompactPCI products for the Aerospace and Defense market, has announced the availability of the **XMC-E2201**, a rugged and compact high-speed, dual channel 16-bit digital receiver XMC/PMC mezzanine card. The XMC-E2201 supports analog sampling rates of 160 Msp/s and speeds the integration of high performance signal acquisition into rugged deployed COTS VPX, VME and CompactPCI subsystems. Designed for demanding signal acquisition applications, the card is ideal for use in radar, software defined radio (SDR), and signal intelligence (SIGINT) platforms.

“With the introduction of the XMC-E2201, Curtiss-Wright expands its range of industry leading DSP and FPGA-based signal processing platforms to include advanced signal acquisition technology, making it much easier for our customers to integrate complete subsystem solutions,” said Lynn Patterson, Vice President and General Manager of Curtiss Wright’s Modular Solutions group. “This innovative XMC/PMC card is a great complement to our CHAMP and SBC family of VME and VPX signal processing engines.”

Based on twin Xilinx Virtex-5 FPGAs, the XMC-E2201 combines input bandwidth in excess of 700 MHz, industry leading signal-to-noise ratio rated at >77 db, and high spectral purity. This small form factor mezzanine card delivers high dynamic range for sophisticated digital signal processing. Its twin FPGA architecture dedicates one “DSP” Virtex-5 FPGA for high-speed acquisition of the dual analog channel inputs. This FPGA also features 16 MB of ZBT RAM memory and may be optionally configured with dual GC4016 Graychip co-processors to enhance its built-in DSP capabilities. The card’s second “Command & Control” FPGA provides high-speed I/O, including 64-bit/133 MHz PCI-X. An eight-lane PCI Express (PCIe) interconnect provides direct high-speed off-board data throughput rates up to 2.5 GB/sec.

In the near future, Curtiss-Wright plans to introduce variants of the XMC-E2201 that will feature support for expansion via optional high-density Rocket I/O over the card’s J6 connector and higher-speed A/D converters. The board, which

currently supports FPGAs rated at 160 Msps is designed to support 180 Msps devices when they become available in the second half of 2008.

XMC-E2201 Performance Features

- *Analog Inputs*
 - Dual synchronous channels
 - 16-bit resolution
 - Sample rates up to 160 Msps (180 Msps devices supported when they become available)
 - >700MHz input bandwidth (both channels)
 - > 77 dB SNR
 - > 76 dB SINAD
 - Up to 100 dBc SFDR (88 dB typ.)
 - 50Ω Input Impedance
 - SMC Input Connectors
- *Clock Input*
 - ±1V AC Coupled
 - 1 – 160MHz Range
 - 0V Threshold
 - 50Ω Impedance
 - SMC Connector
- *Digital Sub-system*
 - 133 MHz/64-bit PCI-X
 - Xilinx Virtex-5 SX User FPGA
 - Dual (optional) Graychip 4016 DDCs
 - 16 MB ZBT RAM

XMC-E2201 Software Support

To ease the integration and development of signal acquisition applications, the XMC-E2201 is supported with a Firmware Development Kit (FDK) that includes VHDL modules for interfacing the card's ADCs, DDC, control FPGA and local bus to the user FPGA.

Additional software support includes device drivers are available for VxWorks® and Linux operating environments.

Ruggedization Levels

The XMC-E2201 is designed to operate in rugged environments and is available in a range of air- and conduction-cooled formats.

Pricing for the XMC-E2201 starts at \$9,620.00. Availability is Q2 '08.

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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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