

For Immediate Release

Contact:

Kristen Zaffini
BittWare, Inc.
Concord, NH 03301
603-226-0404 x541
kzaffini@bittware.com
www.bittware.com

BittWare Announces Hybrid Signal Processing AMC Module Based on TI's C6474 Multicore DSP

Architecture combining TI DSP and Altera FPGA is ideal for wireless communications applications requiring high-end processing and reconfigurability

CONCORD, NH – *December 9, 2008* – BittWare, the leading supplier of hybrid and FPGA-computing digital signal processing COTS solutions, announced today that they will be supporting Texas Instruments' TMS320C6474 digital signal processor (DSP) on their F1/GX-AMC. Featuring the high-performance, multicore C6474 DSP designed specifically for telecommunications infrastructure applications and coupled with a high-density Altera® Stratix® II GX FPGA, the BittWare F1/GXAM provides a completely flexible, reconfigurable platform for high-end digital signal processing.

“TI's C6474 offers a total of 3.0 GHz raw DSP processing power by combining three blazing fast cores, along with 3 MBytes of on-chip L2 SRAM/cache, and native OBSAI and CPRI antenna interfaces – all in a single low power chip,” stated Ron Huizen, BittWare's VP of Technology. “We are excited to be supporting this part.”

“We are pleased that BittWare is supporting our newest multicore DSP available to the broad market,” said Primo Castro, product marketing manager for TI's high performance DSP catalog processors group. “The F1/GXAM will enable our customers to easily access the power of the C6474 on a compact form-factor.”

The F1/GXAM provides BittWare's ATLANTiS™ FrameWork implemented in the FPGA, a control plane interface via BittWare's FINE™ interface bridge, an IPMI system management interface, configurable AMC SerDes interfaces supporting a variety of protocols (i.e. Serial RapidIO, PCI Express, 10GigE), and a front panel 3x SerDes interface supporting CPRI and OBSAI. Additionally, the board features 10/100 Ethernet, Gigabit Ethernet, three banks of DDR2 SDRAM, one optional bank of QDR2 SRAM, and Flash memory for booting the FPGAs and FINE.

About the F1/GXAM

The F1/GXAM features TI's C6474, a high-performance multicore DSP, enabling SOC solutions in one modular, scalable device with the benefits of a small footprint. The device contains specialized coprocessors and supports several standard interfaces including Serial RapidIO, Gigabit Ethernet, DDR2, and McBSP. Robust software tools are available to aid development including TI's Code Composer Studio and numerous 3rd party programs.

The on-board FPGA, an Altera Stratix II GX, was specifically designed for serial I/O-based applications requiring high-density, reconfigurable logic. The FPGA provides up to 15 full-duplex high-performance, multi-gigabit transceivers supporting Serial RapidIO, PCI Express, 10GigE, Gigabit Ethernet, and SerialLite II standards. It contains up to 132,540 equivalent LEs, over 6700 kbits of embedded memory, 252 embedded 18x18 multipliers (63 DSP blocks), and 8 PLLs.

BittWare offers a comprehensive software and support package for the F1/GXAM. The BittWorks software tools provide host interface libraries and a wide variety of diagnostic utilities and configuration tools. BittWare's FINE Bridge provides Gigabit Ethernet on port 0 of the common options region. It also provides 10/100 Ethernet and RS-232 on the AMC front panel. The F1/GXAM also implements the standard Module Management Control Interface (IPMI).

For FPGA development, Altera's Quartus® II FPGA design flow tool and SOPC builder system-level design tool are available. BittWare also offers an FPGA Developers Kit which includes fully validated board-level modules for I/O, communications, and memory for BittWare's

ATLANTiS FrameWork. Implemented on the Stratix II GX, ATLANTiS facilitates the majority of off-board I/O and provides communications routing and processing. It provides an internal dataflow interconnect fabric that allows these modules to be easily connected, and a control fabric that allows them to be easily coordinated and controlled. ATLANTiS provides a stable, high performance signal processing platform that frees the designer to focus on application development rather than reinventing board-level infrastructure.

F1/GXAM Availability

The F1/GXAM will be available in Q1 2009 priced under \$4,000 in OEM quantities.

About BittWare, Inc.

Founded in 1989, BittWare, Inc. is the leading designer and manufacturer of ruggedizable and commercial FPGA-computing and hybrid (FPGA+DSP) digital signal processing board-level solutions based on Altera's FPGAs. Their boards provide innovative Commercial Off-The-Shelf (COTS) and application-specific solutions for high-performance, real-time signal processing and I/O applications. BittWare's product offering addresses OEM needs from prototype-to-production and span a variety of platforms, including AdvancedMC, VME, CompactPCI, PMC, PCI, PC/104, PC/104-Plus, and standalone. For more information on BittWare and its innovative digital signal processing solutions, visit www.bittware.com.

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