

SUNDANCE FIRST TO COMBINE FPGA AND POWER-PC440 WITH PCI EXPRESS FOR PC/104

Offering the Industry's Most Comprehensive, Complete and Flexible Support for the PC/104 Specification, Sundance Boasts Over One Hundred PCI/104 and PCI/104-Express Embedded Computing Board Solution.

Cheshire, UK – 6th October 2010 – Kane Computing Ltd (KCL) are pleased to announce that Sundance, the leading supplier and manufacturer of advanced digital signal processing and reconfigurable FPGA systems has recorded its centenary product landmark for the PC/104 Embedded Computing specification. With the only solutions that combine FPGA and Power-PC440 with PCI Express for PC/104, Sundance has optimized the range to focus on High-Speed Data Acquisition, Image Processing and Communications applications.

The Sundance Series 1 is the industry's first product family architected around Xilinx multi-platform Virtex-5 devices with embedded PowerPC processor core. Two unique architectures are available: the SMT100 with 512Mbytes DDR2 SDRAM for data buffering and processing and the SMT105 that has an optimized mix of multiple QDR2 SRAM and DDR2 SDRAM memory banks for real-time signal processing tasks. The architectures also feature USB2.0 interface to the FPGA, RS232 interfaces, MicroSD/ Transflash, Fibre Optic modules, SATA ports, LVTTTL I/Os, 32-bit PCI, 4-lane and 1-lane PCI Express links and stack-up or stack-down configurations for automatic detection. A range of IP cores are also available to support design integration and to accelerate time-to-market.

"Longevity is one of the hallmarks of PC/104 technology and the approach taken by Sundance is aligned to our strategy and vision of providing a stable, long-term supply of PC/104 modules from the vendor community," said Jeff Milde, Executive Director, PC/104 Embedded Consortium. "As an associate of the Consortium I'm delighted that Sundance has reached its centenary PC/104 product and this benchmark adds to the breadth and depth of PC/104 products that are available to PC/104 customers."

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The Sundance PC/104 product family includes multichannel analog-to-digital digitizers for embedded sensor applications, imaging for hyper spectral camera devices onboard UAVs, DSP bricks with integrated RF front ends for small form factor portable radio transceivers and other high-speed MIMO RADAR, network communications modules and I/O peripherals. By building PC/104 products around Xilinx's Virtex-5 FPGAs and by augmenting the devices with multiple DRAM and SRAM memory banks, intensive signal processing algorithms such as ultra long FFT engines can be implemented into the FPGA fabric to ensure real-time performance targets can be met while reducing system cost.

"When the PC/104 Consortium chose PCI Express as their standard for high speed bus in embedded applications it was because of its comprehensive market adoption, performance, scalability and growth potential," said Flemming Christensen, Managing Director of Sundance Multiprocessor Technology Ltd. "Critically it provided a consistent and interchangeable path for the stackable PC architecture across the PC/104 Embedded Consortium's 104, EPIC, and EBX form factors. This foresight, and PC/104's unique self stacking bus, has allowed the specification to mature, stand the test of time and enabled Sundance to grow and evolve a product family that now offers an incredible 100 modular product variations based upon the standard."

To fast track design entry into the Sundance PC/104 product family, software support is provided that enables the USB 2.0 to interface and move data to/ from any host computer in the 'Stand-Alone' mode or use Sundance's PCI Express Adapter for PC/104E boards that will allow integration into a desktop PC. Alternatively a PCI/104 Host Controller can be used to interface to Disk, Keyboard and Display. Sundance provides support for Windows 7 and Linux system environments and Xilinx ISE Webpack development software can be downloaded for free to target the Virtex-5 FX30T FPGA.

The PCI/104 community has more than 60 active companies that offer host controllers, additional IO, enclosures, power supplies and other services. The PCI/104 is a truly open standard and all technical details can be found at www.pc104.org. Further details and pricing information for Sundance's PCI/104 product family are available from www.pci104.biz or by contacting your local Sundance Sales Office or Kane Computing in the UK.

Press Release

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About Sundance

Sundance (www.sundance.com) designs, develops, manufactures and markets internationally high performance signal processing and reconfigurable systems for original equipment manufacturers in the wireless and signal processing markets. Leveraging its multiprocessor expertise and experience, Sundance provides OEM with modular DSP and FPGA-based systems as well as data acquisition, I/O, communication and interconnectivity products that are essential to multiprocessor systems where scalability and performance are essential. With over fifty different modules and carriers for PCI, cPCI VME and Stand Alone platforms, Sundance is a solution provider to semiconductor, pharmaceutical and factory automation industries. Sundance, founded in 1989 by the current directors, is a member of the TI Third Party Program, Xilinx Alliance Partner and MathWorks' Connection programs.

About Kane Computing

KCL (www.kanecomputing.co.uk) has been providing Image Processing, DSP and high performance computing products for use in industry, education and research since 1987 and is a Texas Instruments Third Party Partner specialising in consultancy and advice on TI development tools/platforms and image processing applications. KCL have extensive knowledge and experience of providing video compression solutions for many industries particularly for digital video security and high quality broadcast applications. KCL has a policy of continual improvement and operates its business in accordance with the requirements of ISO9001:2000.

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