

Lyrtech unveils new SignalMaster Quad Virtex-4 and DRC Virtex-4

Kane Computing Ltd (KCL) are pleased to announce that Lyrtech Inc. (TSX Venture Exchange: LYT), a worldwide leader in digital signal processing (DSP) technologies, launched today (7th December 2006) the highly-anticipated Virtex-4 version of its best-selling SignalMaster Quad advanced development platform. At the same time, Lyrtech also launched the DRC Virtex-4, a high-performance, pre-processing/post-processing, high-speed I/O link module for the SignalMaster Quad Virtex-4.

The SignalMaster Quad Virtex-4 cPCI development board, a significant improvement over the existing SignalMaster Quad Virtex-II board, is specifically designed to help develop and test DSP algorithms in real-time environments through its unique combination of FPGA and DSP devices. The 1-GHz fixed-point DSPs of the board are very efficiently interconnected to leverage the high-baseband, multi-channel processing power of the TMS320C6416 DSP from Texas Instruments Incorporated.

The SignalMaster Quad Virtex-4 is also designed around two clusters of one Virtex-4 LX FPGA and two C6416 DSPs, each cluster capable of delivering up to an impressive 16,000-MIPS/MMACS DSP processing power and 48-GMACS FPGA-based DSP processing power. This makes the SignalMaster Quad ideally suited to, for example, Wi-Fi and WiMAX applications, base station prototyping, and waveform development (*e.g.* software-defined radio with VHS-ADC/DAC boards). The LX FPGA of the board, specifically, with its large amount of available logic cells, is also ideal for ASIC prototyping.

Further improving the board's lead over its competitors, the FPGA-DSP clusters of the SignalMaster Quad Virtex-4 are interconnected through onboard, high-bandwidth inter-FPGA RX/TX buses — dubbed RapidCHANNEL — capable of sustained, full-duplex raw data exchanges of 8 Gbps. This link gives developers the flexibility to treat the two FPGA of the SignalMaster Quad Virtex-4 as one large resource, an essential feature in applications where high volumes of processing power are necessary. The two ultrahigh-bandwidth LYRIO+ interfaces of the SignalMaster Quad Virtex-4 — capable of minimum sustained, full-duplex 12-Gbps raw data exchanges — also allow the FPGA of the clusters to communicate with other high-performance modules.

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"Lyrtech reasserts its leadership in digital signal processing with the SignalMaster Quad Virtex-4, a world-class development platform for hybrid DSP-FPGA designs," says Benoit Fleury, Lyrtech's Marketing Vice President. "Coupled with other complementary products from Lyrtech such as high-performance I/O and ADC/DAC modules, this powerful platform will offer endless possibilities to our customers in all regions of the world."

As for the DRC Virtex-4, it is a LYRIO+ expansion module compatible with carrier boards such as the SignalMaster Quad Virtex-4. The module allows high-speed digital data transfers with the carrier board and makes possible interconnecting several SignalMaster Quad Virtex-4 or other RapidCHANNEL I/O boards such as the VHS-ADC/DAC Virtex-4 multichannel, high-speed converter boards from Lyrtech.

The DRC Virtex-4 is equipped with a Virtex-4 LX25 or SX35 FPGA. A DRC Virtex-4 equipped with an LX25 FPGA further increases the already impressive number of logic cells of the SignalMaster Quad Virtex-4, while a DRC Virtex-4 equipped with an SX35 FPGA gives the SignalMaster Quad Virtex-4 the much needed DSP slices (96 GMACS of FPGA-based DSP processing) for heavy DSP processing applications such as digital down-conversion filters. The DRC Virtex-4 can also go as far as linking all the FPGA of a system of SignalMaster Quad Virtex-4, allowing them to be treated as one giant resource.

The SignalMaster Quad Virtex-4 and the DRC Virtex-4 can now be ordered from Lyrtech and Lyrtech distributors worldwide.

TSX Venture Exchange has neither approved nor disapproved the information contained herein and accepts no responsibility for it.

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About Lyrtech

Lyrtech develops and manufactures advanced digital signal processing solutions for companies worldwide, a vital technology to network and wireless communications, audio and video processing, as well as electronic systems in all fields of technology. Lyrtech offers a full range of DSP-FPGA development platforms, as well as design, prototyping, and manufacturing of electronic products through its Innovator division. From the company's state-of-the-art 4,645-m² (50,000-ft²) facility, Innovator offers prototyping services, new product introduction services, turnkey assembly, box build assembly, and other electronic manufacturing services, providing customers with a quality production run of highly complex products with a fast turnaround. Lyrtech works in partnership with industry leaders such as Texas Instruments, The MathWorks, and Xilinx. Lyrtech's customers include many prestigious names of the consumer electronics, telecommunications, aerospace, and defence fields such as BAE Systems, Defence Research and Development Canada (DRDC), the European Aerospace Defence and Space Company (EADS), Fujitsu, Harris, ITT, Motorola, Neural Audio, NTT DoCoMo, and Samsung-Thales.

About the Texas Instruments DSP Third Party Network

The TI DSP Third Party Network is a worldwide organization of independent companies that offer products and services supporting TI DSPs. TI third parties provide expertise across a variety of applications, including audio, control, telecommunications, video and imaging and wireless communications. Third party products and services include a broad range of application software, development hardware and software, and consulting services that support original equipment manufacturers' efforts to bring differentiated products to the market quickly. For more information about the TI DSP Third Party Network, please visit <http://www.ti.com/3p>.

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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