

Higher Performance Stackable Data Acquisition Systems

May 24th, 2010, Northwich, Cheshire – Kane Computing Ltd (KCL) have recently launched the new D.Module2 series of high performance, stackable DSP and I/O boards from D.SignT to the UK market.

The D.Module2 provides the next generation of the highly successful D.Module self-stacking design that allows users to build complete signal processing systems by selecting and stacking the appropriate DSP, I/O and data communications modules.

The new D.Module2 family was motivated by the continually increasing speed and complexity of DSP systems. Today's DSPs now include more and more specialised built-in peripherals and communication interfaces. New algorithms and applications are hungry for I/O and memory bandwidth and often require DSP-FPGA co-operation.

The D.Module2 DSP board generation addresses these needs with a significantly increased pin count to make the additional DSP peripherals and I/O channels accessible. The bus interface now supports asynchronous and synchronous operation with 500 Mbytes/s bandwidth, ideally suited to exchange data with FPGAs. Additional high-speed communication peripherals are available on the D.Module2: a 3 Mbit/s dual-channel UART and a USB 2.0 peripherals controller.

The D.Module2 family maintains the same form factor and self-stacking design as the D.Module boards.

Current products supporting the D.Module2 standard include the D.Module.DM6462 featuring the Texas Instruments 720MHz DM642 fixed point DSP; the D.Module2.C6747 with 300MHz C6747 floating point DSP; the D.Module2.TS203 with Analogue Devices ADSP-TS203 Tiger SHARC DSP and the D.Module2.ADDA8M12 featuring 2 channels of 8MSPS, 12-bit ADCs and DACs.

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D.SignT realise hardware and software form an integral unit in any real-time application and hardware and software is finally tuned to provide optimum performance and user-friendliness.

Software tools include D.Module.BIOS, which handles utilization and programming of all of the modules peripheral devices, D.Module.Setup Utility to upload programme and data files, reprogramme devices, etc. The D.Module.Configuration File is used to start system configuration and start-up options including installation-dependent data.

About D.SignT

D.SignT (www.dsignt.de) was founded in 1998 in Kerken, Germany. Their corporate goal is to provide off-the-shelf solutions for high-end, standalone DSP systems, particularly for industrial applications - a market requiring reliable, easy to maintain, and long-term available solutions. Their main product line is the D.Module family of DSP and Peripheral boards, which has recently been extended with the new D.Module2 family of cutting-edge, ultrahigh performance DSP boards. These products are in use worldwide in demanding applications like material inspection, automation, robotics, machine vision, and high-end measurement systems. Based on this proven technology they also offer custom designs which integrate additional peripherals or application specific interfaces, and reduce overall system costs. D.SignT products are fabricated in Germany using highest quality and environment-friendly manufacturing processes. Their association with DSP manufacturers and Spectrum Digital Inc., a leading manufacturer of development tools, allows them to provide complete tool chains for code development and debugging, and guarantees first-class support for our customers.

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 ISO9001:2008.

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