

New Digital Signal Processing Board Boasts Four 1GHz Texas Instruments' DSPs

Submitted by: Ainsworth Maguire

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Sundance Multiprocessor Technology has created a new high-speed board that liberates DSP system designers, engineers and research specialists from having to custom-design their own boards or interconnections. Created to set pulses racing, the SMT395Q features four of Texas Instruments' highest powered fixed-point DSPs, each running at 1GHz and each capable of supplying 8000 MIPS of processing power.

To ensure blistering performance, the design team at Sundance has integrated the quad DSP Texas Instruments Module (TIM) with 256 MB of DDR SDRAM and the largest available Xilinx Virtex-II Pro field programmable gate array (FPGA). With up to 125,000 available logic cells and ready-written cores for many functions the SMT395Q promises customers a jump-start in developing their cutting-edge DSP systems. Everything for the technologist is contained in this one desirable and compact hardware package.

The SMT395Q board is easily accessed from a host computer by plugging into a TIM carrier board. Software support for the host interface is provided. FPGA and DSP programming is simple to upload from the host PC using supplied software.

Thanks to the TIM modular system, the SMT395Q is easy to expand to suit even the most challenging DSP project. Standard and custom input/output possibilities are provided and more options can be made available through an array of other Sundance products. A typical example is a range of analogue-to-digital (ADC) and digital-to-analogue converter (DAC) TIMs that are fully compatible with the SMT395Q and will enable the creation of software radio systems – a current hot topic in DSP.

Commenting for Sundance, Flemming Christensen, Sundance managing director said, "Research and development in DSP systems is accelerating, it maybe a cliché, but time really is money. Moreover, in a competitive world, you could also say too much time may equal a lost opportunity. With this in mind we have designed the SMT395Q to give any DSP development team an edge over their competitors."

Sundance Multiprocessor Technology are based in the UK, and have offices in the USA and Italy. They specialise in providing design, manufacture and sales of DSP products and systems using the latest technology.

Full specifications and diagrams of the SMT395Q are available on the company's website www.sundance.com and further advice on selecting the right equipment for DSP projects is available on (0)1494 793167 in the UK or (775) 827 3103 in the USA.

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