

## **New VCP1500/1700 PCI Development board for the PNX1500/1700 TriMedia/Nexperia Processor**

January 2007, Northwich, Cheshire, Kane Computing Ltd (KCL) are pleased to announce the launch of Momentum Data Systems' new VCP1500/VCP1700 PCI Development board for the PNX1500/PNX1700 TriMedia/Nexperia Processor.

The VCP1500/VCP1700 boards are a new line of PCI based hardware platforms for the development of PNX1500, including PNX0190 and PNX9520, or PNX1700 applications and algorithms where the PC is used at the I/O subsystem during development. The VCP1500 can also be used for TriMedia TSSA based algorithm development for PNX8950 platforms.

The VCP boards contain twice the memory of the LCP boards and integrates video output peripherals, whereas the LCP boards require daughtercards for video and audio output, but VCP has video and audio outputs integrated on-board.

The PNX1500 processor builds on the success of Philip's prior TM1100 and TM1300 generations of media processors by increasing clock speed and significantly enhancing the I/O capabilities. The PNX1700 processor is an enhanced, pin-compatible version of the PNX1500, with an improved CPU core, and further increased CPU clock speed.

The VCP supports video I/O in a variety of formats, making it ideal as a development platform for video encoding, decoding and processing applications. The VCP's built in Ethernet allows for development of embedded streaming media applications directly on the VCP card without the need for a host CPU for network support.

The card is available with the NXP NDK tools for compilation and debugging and MPTK decoder libraries. A range of third party libraries are also available.

User's of Momentum Data Systems' earlier generation LCP PCI based products can easily port applications to the VCP card as its hardware is a superset of the older card and the board support library (BSL) abstracts the underlying hardware differences.

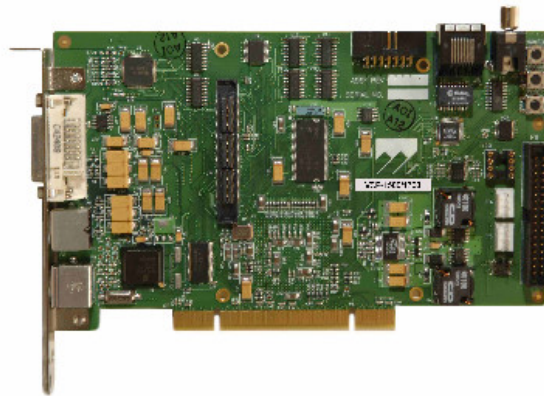
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An optional daughtercards is available that significantly enhances the I/O capabilities of the platform and provides component/RGB video capture up to 1080i, HDMI input up to 1080i (no HDCP), 656/camera input (8 bit) or 16 bit (656 like YUYV) digital video input and 8 channels of analogue audio in (four 1/8" stereo jacks). For output the daughter card provides 8 channels of audio out (four 1/8" stereo jacks), 656 8 bit or 656 16 bit digital video output, 18 bit parallel LCD interface (31 pin style connector), LVDS serial interface for 24 bit LCDs up to 1366x768 and backlight control signals.

The daughtercard mounts to the front of the VCP card and uses the backplate of the adjacent slot for VGA and HDMI connectors.



### About Momentum Data Systems

Founded in 1987 by Dr Jerry Purcell, Momentum Data Systems ([www.mds.com](http://www.mds.com)) quickly became known for its revolutionary QEDesign filter design package, which even today ranks as one of the most powerful but easy to use filter design tools. Merging with Zola Technologies in 1994, MDS now unites a highly talented team of engineers with specialist expertise in filtering, consumer audio, multi-media, and complex DSP system design to offer a full range of products including complete custom systems, DSP tools, reference designs, and training services. Momentum's extensive experience in both hardware and software DSP applications has resulted in partnerships with leading providers of DSP products in the world. Momentum also provides consulting and engineering services. For additional company or product information, please visit [www.mds.com](http://www.mds.com), Momentum Data Systems is headquartered in Fountain Valley, California, USA

### About Kane Computing

KCL ([www.kanecomputing.co.uk](http://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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