

Home Entertainment Development System

February 2007, Northwich, Cheshire, Kane Computing Ltd (KCL) are now shipping the new Momentum Data Systems MDS-810 software development platform for home entertainment products.

The MDS-810 is a Complete high performance development platform for Set Top Box, IPTV, and embedded media processing Based on NXP Semiconductor (formerly Philips) pnx8950 (pnx8550) Nexperia home entertainment engine, the MDS-810 product offers a rich platform for the development of video products needing support for analog and digital (SD and HD) standards.

The system comes with video decoders that support SD and HD MPEG2 decode (up to 1080i with ATSC or DVB, profiles), SD MPEG4 (ASP) and DivX and SD WM9 as well as the corresponding audio formats including MP3, WMA, and Dolby AC3.

Third party encoders for MPEG2 or MPEG4 and SD H264 decode (up to MP@L3 2mbps CABAC) are available as an option to allow PVR capability of legacy analog NTSC/PAL content.

The pnx8950 has a MIPS32 core and is supplied with a Linux 2.6 kernel. Alternatively Monta Vista Linux can be used. The pnx8950 includes dedicated hardware for video processing,

The standard software included with the system treats the two TriMedia cores as a "black box" hardware resource.

Applications are normally created using standard Linux APIs that are provided with the unit, these APIs have a custom backend that communicates with the underlying hardware/firmware resources.

The firmware running on the cores is specifically developed for the hardware environment of the MDS-810 platform. Changes to that environment (such as a different video decoder) require modification of the "black box" functionality. Purchase of the NDK/MPTK is required in that case.

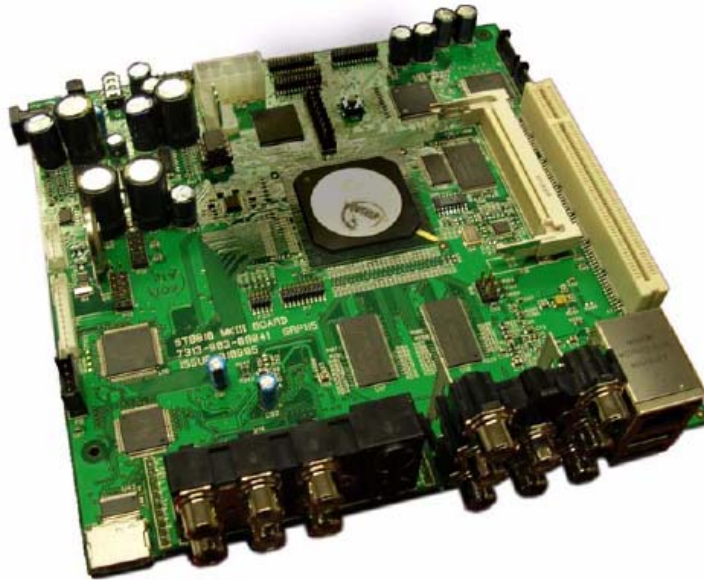
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KCL can also supply NDK 4.3/MPTK1.2 for custom TriMedia development and modification of video peripheral support.

Users looking to change the standard functionality and new to TriMedia development may want to consider first developing on a platform like MDS' PCI based LCP-1500, which supports the NDK 4.3 environment used on the MDS-810 platform.



About Momentum Data Systems

Founded in 1987 by Dr Jerry Purcell, Momentum Data Systems (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, Momentum Data Systems is headquartered in Fountain Valley, California, USA.

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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