

**DaVinci News from Kane Computing Ltd – July 2007**

This email includes information on new products, software tools and platforms.

- DM6446 EVM (board only)
- IgnitionPro Evaluation Kit
- DVPB DaVinci Prototyping Board
- IPNetCam Smart IP Surveillance Camera Reference Design
- MPEG4/H.264 Encoders
- EASEE Application Level Framework
- DSP Libraries for DaVinci
- WindowsCE for DaVinci
- DM644x DVSDK free upgrade
- New TMS320DM647 and DM648 DSPs

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**DM6446 EVM (board only)**



Spectrum Digital are now selling the TMS320DM6446 (DaVinci) EVM board direct. The part number is 702040. The EVM kit will include only the EVM, power supply, serial cable and ethernet cable. If you are looking to purchase additional boards or the board without the complete peripheral kit, this is the part for you.

Visit [DM6446 EVM](#) for further information.

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**IgnitionPro Evaluation Kit**



The IgnitionPro Evaluation Kit consists of a DaVinci based processing module and a motherboard with peripheral connectors for interfacing to the outside world, plus DVR and Web Page Server example applications. The motherboard provides interfaces for composite video in and out, stereo audio in and out, remote control,

ethernet, serial port, hard drive and compact flash. Developers can easily create their own peripheral board. The processing module is a production board or can be licensed for customers to build themselves.

Visit [IgnitionPro](#) for further information.

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### **DVPB DaVinci Prototyping Board**



The DaVinci prototyping board is a small form factor board and is ideal for prototyping applications based on DaVinci technology. The board is targeted for applications like Smart Surveillance Camera, Video Servers, Video Conference Systems and other Streaming Media applications. DVPB is bundled with a software package consisting U-Boot Bootloader, test utilities and demo applications enabling developers to develop and prototype applications based on DaVinci technology. The software package also consists of a Surveillance System demo application based on H.264/MPEG4 video compression streaming live media using RTP/RTSP. The demo also features web based client application for live viewing of the video.

Visit [DVPB](#) for further information.

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### **IPNetCam Smart IP Surveillance Camera Reference Design**



Based on TMS320DM6446 platform IPNetCam is a ready-to-go solution, fully enabled for Intelligent Surveillance Applications with features like Object Detection, Classification and Tracking. It offers manufacturers a complete hardware and software package needed to quickly and easily design Smart IP Surveillance Solutions with a variety of advanced features. The camera hardware is optimised for BOM and features all the necessary interfaces. The software is compliant to DaVinci XDM Framework. Based on Linux operating system the software supports Dual Mode Encoding and ObjectVideo OnBoard Algorithm for content analysis.

Visit [IPNetCam](#) for further information.

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### MPEG4/H.264 Encoders



AteME have streamlined and optimised their proven MPEG4 Simple Profile Encoder and H.264 Baseline and Main Profile Encoders to provide the most efficient and highest performance encoders for DaVinci DM6446 processors.

Visit [H.264](#) for further information.

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### EASEE Application Level Framework



EASEE from AteME, provides a multimedia framework based on G-Streamer that significantly shortens application development cycles. Currently, source code licences are available FREE OF CHARGE with AteME MPEG4 or H.264 encoders. Available EASEE filters currently include G-Streamer Core, A/V Capture, MPEG-4 Encoding Filter, H.264 Encoding Filter, MP4, AVI, TCP/IP and UDP (not streaming library – needs to be purchased separately), MPEG-1 Layer 2 Encoding Filter and Resizer.

View the [EASEE](#) Presentation

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### DSP Libraries for DaVinci



Kane Computing Ltd has signed an agreement with IntegrIT to market their highly optimised DSP Libraries, world-wide. Libraries include **NatureDSP Math Library**, **NatureDSP Signal library** which is a collection of signal processing routines needed for implementation of typical algorithms for voice/audio processing; **NatureDSP 4FSK**, a software data pump for 4FSK/C4FM data transmission over UHF channels and **NatureDSP Squelch+** a software package providing sub-audio signaling functions for FRS, PMR446 and analogue radios.

Visit [NatureDSP Math Library](#)

Visit [NatureDSP Signal Library](#)  
Visit [NatureDSP 4FSK](#)  
Visit [NatureDSP Squelch+](#)

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**WindowsCE for DaVinci**



WindowsCE (TMDWIN-CD) is a Microsoft Windows operating system optimised for embedded devices that require minimum storage. TI's Windows CE for DaVinci SoC processors offering is the perfect tool for developers requiring the WindowsCE operating system to installed code base, Microsoft features and/or Windows PC interoperability.

Email [sales@kanecomputing.com](mailto:sales@kanecomputing.com) for further information

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**DM644x DVSDK Free Upgrade**



Texas Instruments are now offering a FREE DVSDK DSP Tools upgrade for registered DM644x DVEVM users.

Email [sales@kanecomputing.com](mailto:sales@kanecomputing.com) for further information

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**New TMS320DM647 and DM648 DSPs**



Texas Instruments have recently announced two new DaVinci platform DSPs for multi-channel video security and infrastructure applications, which are claimed to double system performance while reducing total bill of materials cost. The TMS320DM647 and TMS320DM648 DSPs provide a seamless migration path for existing video processing applications based on the TMS320DM642 processor.

Email [sales@kanecomputing.com](mailto:sales@kanecomputing.com) for further information

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