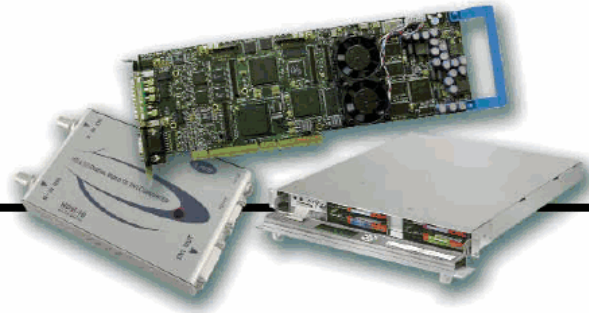


Signal Processing



by Ken Freed

Signal processing dominated NAB2007 technology exhibits. Vendors touted their advances in encoders and decoders, format and standards converters, and digital video storage solutions.

Related booths demonstrated the latest hardware and software for telecine, image color correction and closed captioning. Datacasting, web-casting, IPTV, and mobile television rounded out the signal processing exhibits. Adopters of these advanced options are promised cleaner pictures with greater capacity at less cost.

ENCODERS & DECODERS

Bluefish Technologies introduced RAGE NJCODE, a real time encoding system for all HD video resolutions that now supports H.264 and MPEG-2 for accelerated export. Bluefish also launched its SD|Fidelity and SD|Focus multipurpose uncompressed SD SDI/analog video cards for Windows and Mac

Delta Digital Video introduced its 6000 Series H.264 SD encoders/decoders, that can transmit DVD quality MPEG-2 video at bit rates as low as 1.5Mbps. The company also introduced the VCM042, an MPEG-2/MPEG-4 OEM module video

encoder/decoder.

Digital Rapids showcased Version 1.1 of its Stream Transcode Manager for high-volume multiformat content workflows. New features include server-level failover, extended integration with third party databases, clip trimming and automated head/tail clip addition. Also introduced was an AVC



Digital Rapids StreamZHD

encoder for its Stream platform. Version 2.4 software for the StreamPro and Stream Enterprise, which now includes an adaptive inverse telecine plug-in, Stream Transcode Manager integration, new multiplexing architecture and optional MXF input.

DVEO, a division of Computer Modules, launched its NCoder HD with IP Output, a very low latency

high definition MPEG-2 4:2:2 and 4:2:0 transport stream encoder.

Kulabyte launched its Kulabyte Professional Flash Encoding Suite, and claims it's the industry's faster video encoding solution. It features Live 2-pass variable bit rate encoding to optimize bandwidth use.

LSI Logic introduced the LSI DX-1810, a single-chip HD MPEG-2 to H.264 transcoder for professional use. The DX-1810 can transcode a single channel of HD video from MPEG-2 to H.264 in real-time at significantly lower bit rates.

Mayah Communications exhibited its IO 8000/8001 MPEG-4 AVC/H.264 encoder/decoder that supports full D1 PAL/NTSC.

Modulus Video debuted its MRE2000 line of video receiver/encoder systems that streamline satellite (DBS) and IPTV systems. The MRE2000 is the first solution to incorporate, in a 1 RU chassis, direct RF signal input, demodulation, decoding and signal processing with Modulus' MPEG-4 AVC SD/HD encoding.

Neotion introduced the MPEG-4 Pocket HD, a module-based HD

decoder that fits any DVB Common Interface slot. It supports personalized TV and content-on-demand.

Octopus Newsroom Trading Ltd. exhibited its Video Twister, a tool for multiple encoding and/or transcoding high resolution video files or video feeds into low resolution videos.

Optibase showed its MGW Series, including the MGW HD for encoding and streaming MPEG-4 (H.264) HD content and the MGW1000, a carrier grade encoding/transcoding/streaming 1 RU platform.

Radiant Communications demonstrated its VL3400 Series encoder for encoding baseband video for MPEG-4 transport on IP networks.

Rhozet showcased its Carbon Coder universal transcoding system that supports the complete range of formats. The company also introduced



Modulus Video MRE2000

support for Dolby Digital (AC-3), as well as a new feature that gives users the ability to remotely browse and select content for transcoding directly off of play-out or management servers.

SIGNAL PROCESSING, PAGE 103

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