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Professional accelerator card for faster than realtime H.264 HD file creation



If you're a professional content creator delivering H.264 files for Blu-ray, the web, and mobile devices, you need a fast, flexible, high quality encoding workhorse. Matrox CompressHD is the first implementation of Matrox MAX technology in an amazingly affordable H.264 accelerator card. It lets you create H.264 files, for resolutions ranging from iPod to HD, faster than real time. It works in systems with or without a video I/O device and extends the life of your current system investment, giving you the power you need to deliver today's premium H.264 formats faster than ever. This low profile, half-length PCIe x1 card fits into Mac Pros, Intel-based Apple Xserve systems, and PCs. Get yourself a Matrox CompressHD card and deliver your projects in a fraction of the time!

Key features

- Faster than realtime creation of H.264 files, for resolutions ranging from iPod to HD, at bitrates up to 50 Mbps using Matrox MAX technology
- Works in systems with or without a video I/O device to enhance your delivery workflow
- Extends the life of your current system investment, giving you the power you need to deliver today's premium H.264 formats faster than ever
- Low profile, half-length PCIe x1 card
- Works in systems with Mac OS X Leopard 10.5.6 or higher, Windows XP (32-bit), and Windows Vista (32- and 64-bit)
- Three-year hardware warranty and complimentary telephone support



Faster than realtime high definition H.264 encoding technology

Matrox MAX is a unique technology that implements faster than realtime H.264 encoding for resolutions ranging from iPod to HD. It uses a dedicated hardware processor to accelerate the creation of H.264 files for Blu-ray, the web, and mobile devices. By using specialized hardware acceleration, jobs are finished with amazing speed and system resources are liberated for other tasks. Quality and flexibility are ensured through direct integration with professional applications such as Apple Compressor on the Mac and Adobe Media Encoder on the PC. As an added benefit, the Matrox MAX technology allows direct export to higher-quality H.264 Blu-ray compliant files from Compressor.

Key Features

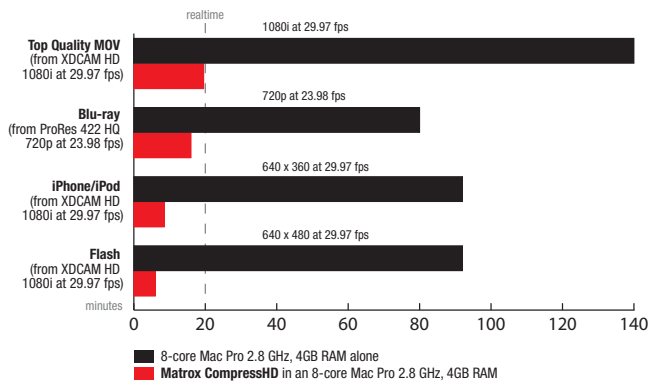
- Faster than realtime creation of H.264 files, for resolutions ranging from iPod to HD, at bitrates up to 50 Mbps
- A specialized, dedicated hardware processor liberates system resources for other tasks
- Accelerated encoding for Blu-ray, PS3, Apple TV, YouTube, Flash, web formats, and mobile devices including iPhone and iPod from various video sources including 2K files
- Direct integration with Apple Compressor on the Mac and Adobe Media Encoder on the PC to simplify workflow
- Creation of Blu-ray H.264 files that can be authored in Adobe Encore CS4 and Roxio Toast 10 then burned without re-encoding
- Support for Apple Qmaster to take advantage of multiple systems with a Matrox MAX processing engine for distributed encoding across a network

Matrox MAX technology is available in these products:



Faster than realtime creation of H.264 files

Matrox MAX technology saves you time. You'll spend less time rendering and more time being creative and productive. The following table shows typical encoding times for a 20-minute H.264 deliverable.



Specialized, dedicated hardware processing

Matrox MAX offloads CPU intensive encoding tasks to a dedicated hardware engine to crunch out your deliverables in record time for Blu-ray, the web, and mobile devices, without sacrificing quality. The Matrox MAX hardware engine offers sophisticated encoding capabilities such as:

- Baseline and main profile encoding algorithms
- CABAC entropy encoding for high quality
- CAVLC entropy encoding for mobile devices
- High quality scaling with de-interlacing
- Color space conversions: HD to SD, SD to HD, RGB to YUV
- GOP structure controls
- Bitrate controls from 100 Kbps to 50 Mbps

Direct integration with professional encoding applications

Matrox MAX technology taps into Apple Compressor on the Mac and Adobe Media Encoder on the PC to let you quickly and easily create H.264 files for Blu-ray, PS3, Apple TV, YouTube, Flash, web formats, and mobile devices including iPhone, and iPod. You can take advantage of all the familiar settings in your favorite application, use the Matrox MAX presets or customize your own. As an added benefit, the Matrox MAX technology lets you directly export to higher-quality H.264 Blu-ray compliant files from Compressor.

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Customizable Encoding Presets

Typical uses	Resolutions	Frame rates	Bitrate range	
Blu-ray PS3 HD web video Archiving	720 x 480	29.97, 59.97	512 Kbps-3 Mbps	
	720 x 576	25, 50		
	1280 x 720 1920 x 1080i 1920 x 1080	23.98, 25, 29.97, 50, 59.97 25, 29.97 23.98, 25, 29.97	1-50 Mbps	
Apple TV YouTube HD Podcasts Webcasts	640 x 480 (4:3) 640 x 360 (16:9) 640 x 272 (2.35:1) 720 x 480 (4:3)	15, 23.98, 25, 29.97	512 Kbps-3 Mbps	
	960 x 540 (16:9) 1280 x 960 (4:3) 1280 x 720 (16:9) 1280 x 544 (2.35:1)	15, 23.98, 25, 29.97	1-20 Mbps	
	iPod iPhone Flash YouTube Portable devices	640 x 480 (4:3) 640 x 360 (16:9) 640 x 272 (2.35:1)	15, 23.98, 25, 29.97	512 Kbps-3 Mbps
		320 x 240 (4:3) 320 x 180 (16:9) 320 x 136 (2.35:1)	15, 23.98, 25, 29.97	100 Kbps-1 Mbps

On the Mac, Matrox MAX technology is also accessible to all applications that support the QuickTime codec component such as Final Cut Pro and QuickTime Pro. You get faster than realtime delivery of H.264 files, at resolutions for iPod to HD, directly from the application.

Efficient Blu-ray disc creation

Matrox MAX technology lets you create Blu-ray H.264 video files, directly from Apple Compressor on the Mac or Adobe Media Encoder on the PC, that can be authored in Adobe Encore CS4 or Roxio Toast 10 and burned without re-encoding.

To create a Blu-ray disc image without Matrox MAX technology, you typically rely on your authoring application and your system CPU. On an 8-core Mac Pro, this process takes about 80 minutes for a 20-minute HD project.

With Matrox MAX technology, H.264 encoding of the same 20 minute HD project takes about 8 minutes. Image creation overhead takes another 8 minute for a total of about 16 minutes instead of 80!

Support for Apple Qmaster

You can take advantage of multiple systems with a Matrox MAX processing engine for distributed encoding across a network using Apple Qmaster on the Mac.

