



NVIDIA Quadro: Built for Adobe Professionals External FAQ

1. Q: What is being announced today?

A: NVIDIA today enhances the value it brings to the professional Adobe CS4 user by expanding its graphics processing unit (GPU) encoding solution to a wider range of NVIDIA Quadro FX boards and introducing a series of GPU-accelerated Adobe plug-ins at exclusive pricing.

Elemental™ Accelerator for NVIDIA Quadro is a high-speed, high-quality video processing solution designed to add power and performance to the Adobe® Premiere® Pro CS4 workflow. Coupled with NVIDIA Quadro FX video cards for creative professionals, Elemental Accelerator harnesses the power of the GPU to perform high-speed video encoding and deliver dramatic time savings over conventional CPU-only encoding solutions. Elemental Accelerator performs GPU-accelerated conversion of commonly distributed digital video formats to MPEG-4/H.264 AVC baseline, main, or high profile output ready for upload to the web or burning to Blu-ray disc. By executing demanding processing tasks using the GPU, Elemental Accelerator not only speeds video transcoding, it frees CPU resources to perform other tasks, resulting in a faster, more efficient video editing and production environment. Available for HP's Z Workstations as well as the xw4600 and xw9400. Elemental Accelerator can deliver as much as an 11x performance improvement compared to the standard encoder on a PC.

2. Q: What graphics boards will be supported for the Elemental Accelerator 2.0 for PC?

A: NVIDIA Quadro CX, Quadro FX 5800, Quadro FX 4800, Quadro FX 3800, Quadro FX 1800, Quadro FX 2700M, Quadro FX 3700M.

3. Q: What is the difference between the MAC and PC versions?

A: Elemental Accelerator for Mac is similar to RapiHD in that it was shipped with Quadro CX. This means that the GPU is only leveraged during the encoding step in the H.264 export process. Elemental Accelerator 2.0 for the PC adds additional functionality to decode and perform a series of Image processing effects on the GPU, which leads to increased performance for the PC. This functionality will be ported from the PC to the Mac before the end of the year and will be a free upgrade for all Mac users.

4. Q: What happens to Quadro CX?

A: NVIDIA and HP will continue selling the Quadro CX for a limited time. However, by expanding support for H.264 encoding to the Quadro FX family (Quadro FX 1800 and up), Quadro CX will be replaced by the combination of the Quadro FX 4800 and the Elemental Accelerator plug-in. With this expansion of Quadro FX support for H.264 encoding, Adobe videographers will see productivity gains that match their budget requirements.



5. Q: If I own a Quadro CX, can I get the latest Elemental Accelerator software?

A: Yes, this will be a free upgrade for all Quadro CX users. Current customers can upgrade their software via the plug-in page inside of Premier Pro. Current CX users will continue to receive updates for the Elemental Accelerator software for Adobe CS4 as they become available.

6. Q: How do the new Quadro FX solutions benefit creative professionals?

A: NVIDIA worked directly with Adobe to optimize our latest Quadro solutions for Adobe's CS4. The Quadro FX solutions are the best option as they were designed, tested and certified for Adobe CS4, resulting in faster performance, better workflow and more reliability for the creative professional.

7. Q: How does Quadro benefit the individual packages such as Photoshop, After Effects and Premiere?

A:

- **Adobe Photoshop CS4** takes advantage of Quadro to create an interactive digital canvas. The GPU enables real-time image rotation, zooming, and panning, and makes changes to the view instantaneous and smooth. Adobe Photoshop CS4 also taps the GPU for 2D and 3D compositing and high-quality antialiasing, making jagged edges of text and objects a thing of the past. Brush resizing and brushstroke preview, 3D movement, high-dynamic-range tone mapping, and color conversion are also accelerated by the GPU.
- **Adobe After Effects CS4** takes advantage of Quadro to accelerate a variety of creative effects, making it easier than ever to add graphics and visual effects to a video; which allows the artist to quickly move from concept to final product and speeds up workflow. Effects accelerated by Quadro include depth of field, bilateral blur effects, turbulent noise such as flowing water or waving flags, and cartoon effects.
- **Adobe Premiere Pro CS4** can take advantage of Quadro to accelerate high-quality video effects such as motion, opacity, color, and image distortion. Quadro also enables faster editing of multiple high-definition video streams and graphic overlays, and provides a variety of video output choices for high-quality preview, including DisplayPort, component TV, or uncompressed 10-bit or 12-bit SDI.

8. Q: What does your Quadro line-up look like now for the creative professional? And how much do the cards cost?

A: The NVIDIA Quadro FX professional GPUs targeted for the creative professional offer a span of solutions ranging from desktop systems to mobile workstation graphics solutions and includes:

- a. **NVIDIA Quadro FX 5800**: the industry's first and only 4GB ultra high-end solution delivers the highest visualization performance and capabilities, giving professionals the ability to work with large-scale models and datasets. Has a NVIDIA MSRP of USD \$3,499.



- b. **NVIDIA Quadro FX 4800:** this ultra high-end solution provides professionals with the most complete toolset to dramatically push the boundaries of realism, performance and quality. Has a NVIDIA MSRP of USD \$1,999.
- c. **NVIDIA Quadro FX 3800:** this single slot solution comes with a robust feature set and added capabilities such as SLI Multi-OS and SDI support to enable a no-compromise, high-performance, interactive visualization experience. Has a NVIDIA MSRP of USD \$1,199.
- d. **NVIDIA Quadro FX 1800:** this mid-range solution offers the best price performance for workstation graphics and provides the optimal blend of quality, precision, performance and programmability. Has a NVIDIA MSRP of USD \$699.
- e. **NVIDIA Quadro FX 3700M:** this high-end mobile workstation graphics solution delivers 1 GB memory, superior image quality and optimized visual computing application performance pushing the limits of a 17-inch mobile workstation.
- f. **NVIDIA Quadro FX 2700M:** this high-end mobile workstation graphics solution provides 512 MB memory, excellent image quality and advanced visual computing performance for 17-inch notebook platforms.

NVIDIA recommends the Quadro FX 4800, 3800 and 1800 professional GPUs for the creative professional but all of the cards above are enabled to work with the Elemental Accelerator plug-in software.

9. Q: How many slots do these boards occupy?

A: The Quadro FX 1800 and Quadro FX 3800 occupy one slot. The Quadro FX 4800 and Quadro FX 5800 occupy two slots.

10. Q: What platforms do you support?

A: Several platforms are supported including Microsoft Windows XP 32-/64-bit; Microsoft Windows Vista 32-/64-bit; Mac OpenGL; Linux with full OpenGL implementation complete with NVIDIA and ARB extensions 32-/64-bit; Solaris; AMD64; Intel EM64T; and PCI Express 2.0. Note that Adobe ® Creative Suite 4 does not support Microsoft Windows XP 64.

11. Q: Will you support Windows 7?

A: Absolutely. NVIDIA GPUs are designed to take advantage of all the new and compelling features included with Windows 7, providing a visually stunning, premium experience on desktop and notebook systems.

12. Q: How many monitors can I connect to with the Quadro solutions?

A: This depends on the card being used and how many outputs are required. The Quadro FX 1800, Quadro FX 3800 and Quadro FX 4800 offer dual DisplayPort connectors along with



a single Dual-Link DVI connector. The Quadro FX 4800 for Mac offers two Dual-Link DVI connectors along with a single Stereo connector.

It is important to note that for the Quadro FX 1800 and above, any combination of DisplayPort and DVI connected monitors can be used; however, only two outputs can be active at any one time.

13. Q: Does the new Quadro FX solutions support 30-bit color displays like the HP DreamColor Ip2480zx?

A: Yes. All NVIDIA Quadro FX professional solutions for Windows platforms from the FX 580 and up have integrated support for 30-bit color (10-bit color per color channel) to take advantage of all 30-bit display monitors. The Quadro FX 4800 for MAC does not have a Display Port connector, thus does not support 30-bit color displays at this time.

AVAILABILITY

14. Q: How can I purchase the Elemental Accelerator?

A: The Elemental Accelerator 2.0 is available on the HP Z800, Z600, Z400, xw4600 and xw9400 workstations and can be purchased at www.hp.com/go/workstations, www.nvidia.com/adobeplugins, or your local HP reseller.

15. Q: When will the Elemental Accelerator plug-in be available for purchase?

A: The plug-in will be available for purchase from HP on August 3, 2009.

16. Q: Are these solutions available through your channel partners?

A: Yes, either stand alone or as part of a bundle.