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FAQ

Q: What are you announcing today?

A: Today we are extending our award winning GeForce 8 Series line-up with the introduction of three new GPUs: the NVIDIA GeForce 8600 GTS, the GeForce 8600 GT, and the GeForce 8500 GT. These new NVIDIA products deliver full DX10 support, high-resolution gaming, stunning Vista graphics, and stellar high-definition video playback at virtually every popular price point for graphics cards.

Q: How many graphics processing units are you announcing today?

A: Today we are announcing three new GPUs based on the new GeForce 8 Series architecture. They are the NVIDIA GeForce 8600 GTS, GeForce 8600 GT, and GeForce 8500 GT GPUs.

Q: What makes a "top-to-bottom" product family significant?

A: Today, users are experiencing 3D everywhere and they do not even know it. There's a growing list of popular software applications that take advantage of a graphics processor to improve performance, such as iTunes, Power DVD HD, WinDVD HD, Adobe Acrobat 8, Adobe Reader 8, Google Earth, Picasa, Zinio, and others. Vista is the first operating system to require a GPU and also introduces a new DirectX 10 (DX10) application programming interface that developers are using to create 3D applications. By making DirectX 10 GPUs available from price points starting around \$99, NVIDIA has a solution for almost any budget, is increasing the installed base of DirectX 10 cards, and is giving application developers and end users validation for adopting the newest 3D graphics API.

Q: What are the key differences between these GeForce 8 GPUs?

A: All GeForce 8 Series GPUs share a common feature set. Every GeForce 8 GPU supports DX10 and features a unified architecture, the NVIDIA Lumenex Engine, the NVIDIA Quantum Effects Technology, and PureVideo HD. In addition the GeForce 8600 and 8500 series offer a revolutionary new video processing engine. The key differentiators between the GPUs within the family are performance and price.

Q: What does your top-to-bottom GeForce product line-up look like now?

A:

- GeForce 8800 GTX \$599-\$649
- GeForce 8800 GTS 640MB \$399-\$449
- GeForce 8880 GTS 320MB \$299-\$349
- GeForce 8600 GTS \$199-229
- GeForce 8600 GT \$149-\$159
- GeForce 8500 GT \$89-\$129
- GeForce 7600 GS \$89
- GeForce 7300 GT GPUs <\$79
- GeForce 7300 LE GPUs <\$59
- GeForce 7100 GS <\$49

Q: Is this a hard launch with immediate availability?

A: GeForce 8600 GTS-based graphics cards are available immediately. NVIDIA GeForce 8600 GT and the GeForce 8500 GT are already on the way to brick-and-mortar and on-line retail outlets and will be available on or before May 1.

Q: What are the key specifications of the GeForce 8 GPUs?

A:

	GeForce 8600 GTS	GeForce 8600 GT	GeForce 8500 GT
Stream Processors	32	32	16
Core Clock (MHz)	675	540	450
Shader Clock (MHz)	1450	1180	900
Memory Clock (MHz)	1000	700	400
Memory Amount	256MB GDDR3	256MB GDDR3	512MB or 256MB DDR2
Memory Interface	128-bit	128-bit	128-bit
Memory Bandwidth (GB/sec)	32	22.4	12.8
Texture Fill Rate (billion/sec)	10.8	8.6	3.6

Q: Do these new GPUs support DirectX 10?

A: Yes. The GeForce 8 Series GPUs are the first shipping DirectX 10 GPUs and are also Microsoft's

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reference GPUs for DirectX 10 API development and certification.

Q: What do these cards offer for HD video?

A: GeForce 8600 and 8500 series GPUs feature PureVideo HD under Windows Vista with a revolutionary new video processing engine. They are the world's first video processors to offload from the CPU 100% of Blu-ray and HD DVD video decoding, enabling playback on mainstream CPUs and providing unsurpassed movie picture quality and low power consumption. PureVideo HD support for Windows XP is expected in June 2007.

Q: Do these GPUs support HDCP?

A: All GeForce 8600 GTS cards are HDCP capable. GeForce 8600 GT and GeForce 8500 GT cards will support HDCP at the discretion of our board partners.

Q: Do these new GeForce 8 GPUs feature NVIDIA® PureVideo™ HD technology?

A: Yes. All NVIDIA GeForce 8 Series GPUs feature PureVideo HD. We currently have driver support for PureVideo HD on the GeForce 8600 GTS, GeForce 8600 GT, and GeForce 8500 GT under Windows Vista. Support for Windows XP for these three GPUs is expected in June 2007.

Q: What is the NVIDIA® Lumenex™ engine?

A: The NVIDIA® Lumenex™ engine is a portion of the GeForce 8 Series GPU dedicated to delivering incredible image quality, including 16x full-screen antialiasing, 128-bit floating point high-dynamic range (HDR) lighting, near perfect angle-independent anisotropic filtering and support for 2560x1600 resolutions at amazing frame rates.

Q: What is NVIDIA® Quantum Effects™ technology?

A: NVIDIA Quantum Effects is a new technology designed to enhance simulation and rendering of physics effects on the graphics processor. Through an advanced shader core architected for physics computation, GeForce 8 Series can deliver amazing visual effects such as smoke, fire, and explosions at faster frame rates than ever before. By having this dedicated capability on the GPU, the CPU is freed up to run the game engine and AI, improving overall game play.

Q: What does unified shader core mean?

A: Historically, GPUs have had dedicated units for different types of operations in the rendering pipeline, such as vertex processing and pixel shading. With the unified architecture of the GeForce 8 Series, NVIDIA designed a single floating point shader core with multiple independent processors. Each of these independent processors can handle any type of shading operation, including pixel shading, vertex shading, geometry shading, and physics shading. GeForce 8 Series GPUs dynamically allocate processing power depending on the workload of the application, providing unprecedented performance and efficiency.

Q: Do all the new GeForce 8 Series GPUs support SLI technology?

A: Yes. All GeForce 8 Series GPUs support NVIDIA SLI technology.

GeForce 8600 GTS

Q: Who are GeForce 8600 GTS-based graphics cards for?

A: GeForce 8600 GTS-based graphics cards are ideal for gamers who are looking to spend between \$199 to \$229. The GeForce 8600 GTS delivers awesome performance, along with DirectX 10 support and the award-winning GeForce 8 Series feature set at these new lower price points.

Q: How much do the new GeForce 8600 GTS GPUs cost?

A: You will find GeForce 8600 GTS-based graphics cards selling for between \$199 and \$229.

Q: What kind of memory do the GeForce 8600 GTS-based graphics cards use?

A: High-speed GDDR3 memory.

Q: What kind of cooling solution does the GeForce 8600 GTS GPU use?

A: GeForce 8600 GTS uses a single slot, heat-sink-fan.

Q: What are the recommended power supplies for the NVIDIA GeForce 8600 GTS cards in single and multi-GPU configurations?

A: GeForce 8600 GTS requires a minimum 350W or greater system power supply for a single card or 450W or greater system power supply for SLI.

GeForce 8600 GT

Q: Who are GeForce 8600 GT-based graphics cards for?

A: GeForce 8600 GT-based graphics cards are ideal for gamers who are looking to spend between \$149 to \$159. The GeForce 8600 GT delivers an awesome price performance ratio, along with DirectX 10 support and the award-winning GeForce 8 Series feature set.

Q: How much do the new GeForce 8600 GT GPUs cost?

A: You will find GeForce 8600 GT-based graphics cards selling for between \$149 and \$159.

Q: What kind of memory do the GeForce 8600 GT-based graphics cards use?

A: High-speed GDDR3 memory.

Q: What kind of cooling solution does the GeForce 8600 GT GPU use?

A: GeForce 8600 GT uses a single slot, heat-sink-fan.

GeForce 8500 GT

Q: Who are GeForce 8500 GT-based graphics cards for?

A: GeForce 8500 GT cards are targeted at the casual gamer that wants a great Microsoft Windows Vista experience and support for DirectX 10. GeForce 8500 GT delivers unprecedented levels of

graphics realism and gaming performance for around \$100 along with the ultimate HD movie experience.

Q: How much do the new GeForce 8500 GT GPUs cost?

A: You will find GeForce 8500 GT - based graphics cards selling for between \$89 and \$129.

Q: What kind of memory do the GeForce 8500 GT-based graphics cards use?

A: High-speed DDR2 memory.

Q: What kind of cooling solution does the GeForce 8500 GT GPU use?

A: GeForce 8500 GT use a single slot, heat-sink-fan.

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