

# NVIDIA GEFORCE DESKTOP GRAPHICS PROCESSORS QUICK GUIDE



Graphics Processing Unit (GPU)		Ideal for	Featured Technologies						Features at a Glance							Performance			Software		
			CUDA	PhysX™	NVIDIA SLI®	3D Vision™	PureVideo HD®	Multi-Display Option	DirectX	Unified Architecture	CUDA Cores	Certified for Windows® Vista™	Windows 7 Support	Maximum Analog Resolution	Maximum Digital Resolution	Standard Memory Configuration	Maximum Memory Bandwidth (per second)	Graphics Performance²	Compute Performance³	PhysX Performance	Driver/OS Support
PCI Express	GeForce GTX 295	<b>ENTHUSIAST</b> Extreme Gamer Power User Multimedia Enthusiast	✓	✓	Quad SLI	✓	✓	✓	10	✓	480	✓	✓	2048x1536	2560x1600	1.8GB	223.8GB	40x	8x	12.3x	GeForce Unified Driver Architecture - Windows 7 64-bit - Windows 7 32-bit - Windows Vista x86 - Windows Vista x64 - Windows XP - Windows XP Professional x64 - Windows Server 2003 x64 - Linux 32-bit - Linux 64-bit - FreeBSD 32-bit - FreeBSD 64-bit
	GeForce GTX 285		✓	✓	3-way	✓	✓	✓	10	✓	240	✓	✓	2048x1536	2560x1600	1GB	159.0GB	28x	8x	6.7x	
	GeForce GTX 275		✓	✓	3-way	✓	✓	✓	10	✓	240	✓	✓	2048x1536	2560x1600	896MB	127.0GB	25x	8x	6.7x	
	GeForce GTX 260		✓	✓	3-way	✓	✓	✓	10	✓	216	✓	✓	2048x1536	2560x1600	896MB	111.9GB	21x	8x	6.3x	
	GeForce GTS 250	<b>PERFORMANCE</b> Gamer Multimedia User Casual Gamer	✓	✓	3-way	✓	✓	✓	10	✓	128	✓	✓	2048x1536	2560x1600	512MB/1GB	70.4GB	15x	7x	5.7x	
	GeForce 9800 GT		✓	✓	✓	✓	✓	✓	10	✓	112	✓	✓	2048x1536	2560x1600	512MB	57.6GB	13x	6x	4.9x	
	GeForce GT 240		✓	✓		✓	✓	✓	10.1	✓	96	✓	✓	2048x1536	2560x1600	512MB/1GB	54.4GB	11x	6x	4.5x	
	GeForce GT 220	<b>MAINSTREAM</b> Business User Casual Gamer Home PC User	✓	✓			✓	✓	10.1	✓	48	✓	✓	2048x1536	2560x1600	1GB	25.3GB	6x	4x	2.9x	
	GeForce 9500 GT		✓	✓	✓		✓	✓	10	✓	32	✓	✓	2048x1536	2560x1600	512MB	16.0GB	4x	3x	2.3x	
	GeForce 9400 GT		✓				✓	✓	10	✓	16	✓	✓	2048x1536	2560x1600	512MB	12.8GB	2x	3x	n/a	
GeForce 210	✓					✓	✓	10.1	✓	16	✓	✓	2048x1536	2560x1600	512MB	12.6GB (DDR3) 8.0GB (DDR2)	2x	2x	n/a		
GeForce 8400 GS	✓					✓¹	✓	10	✓	8	✓	✓	2048x1536	1920x1200	256MB	6.4GB	1x	1x	n/a		

1 Varies by Add-in-Card partner (Pure Video HD column)

2 Graphics testing based on 3DMark Vantage, Performance preset at 1280x1024

3 Compute testing based on Badaboom PlushLife\_1280x720x30x20mbs.mpg video clip

# NVIDIA GEFORCE FAMILY

## NVIDIA CROSS-SELLING MATRIX

Segment	NVIDIA Solution	SLI-Ready	Certified for Windows® Vista™	Windows 7 Support	Replaces ATI Board
<b>ENTHUSIAST</b> Extreme Gamer Power User Multimedia Enthusiast	GeForce GTX 295	Quad SLI	✓	✓	Radeon HD 5870
	GeForce GTX 285	3-way	✓	✓	Radeon HD 5850
	GeForce GTX 275	3-way	✓	✓	Radeon HD 4890
	GeForce GTX 260	3-way	✓	✓	Radeon HD 5770
<b>PERFORMANCE</b> Gamer Multimedia User Casual Gamer	GeForce GTS 250	3-way	✓	✓	Radeon HD 5750
	GeForce 9800 GT	✓	✓	✓	Radeon HD 4830
	GeForce GT 240		✓	✓	
<b>MAINSTREAM</b> Business User Casual Gamer Home PC User	GeForce GT 220		✓	✓	Radeon HD 4670
	GeForce 9500 GT	✓	✓	✓	Radeon HD 4550
	GeForce 9400 GT		✓	✓	Radeon HD 4350
	GeForce 210		✓	✓	Radeon HD 4350/4550
	GeForce 8400 GS		✓	✓	Radeon HD 3450

Graphics cards based on these GeForce GPUs qualify for the Premium Device logo called "Certified for Windows Vista". However, depending on the shipping memory configuration, these graphics cards may not qualify for the Windows Vista Premium System Logo.

## WHY NVIDIA GEFORCE?

- > GeForce is the **most stable, reliable, and recognized** brand in graphics technology, and is the leading GPU of choice for both corporate and consumer computer users.
- > GeForce® GPUs with CUDA™ technology deliver Graphics Plus™. Experience world-class graphics on today's hottest games, bring your games to life with GPU accelerated NVIDIA PhysX® gaming effects, immerse yourself in Stereoscopic 3D game play, transcode your videos up to 20x faster for your portable devices and edit digital images faster and smoother.
- > GeForce GPUs are backed by the **NVIDIA® GeForce® unified driver architecture**, ensuring the best out-of-box experience for every user. GeForce drivers deliver industry-leading graphics features; one driver for all products and continual performance and feature updates over the life of the product.
- > GeForce is a **top-to-bottom solution**, delivering GPUs for every user and every budget. From the PC gamer who craves the best graphic performance to the mainstream digital media user, GeForce GPUs provide the perfect solution.
- > NVIDIA invents and delivers industry-shaping technologies that revolutionize the end-user experience. The latest innovations include an NVIDIA unified architecture as well as NVIDIA SLI® and NVIDIA® PureVideo® HD technologies.

For more information on NVIDIA and NVIDIA GeForce products, visit [www.nvidia.co.uk](http://www.nvidia.co.uk)

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