



NVIDIA GPU Motherboard Solutions: The Most Flexible Platform for Microsoft Windows Vista Premium PCs



Featuring NVIDIA GeForce 6 Series GPUs and NVIDIA nForce4 MCPs

Home Theatre Quality HD Video

- NVIDIA® PureVideo™ technology for stunning video playback and superb picture clarity
- HDTV without the expense of additional home-theater devices
- Offloads video decoding from the CPU, resulting in smooth, stutter-free, high-definition video playback
- Supports H.264, VC-1, and MPEG-2 HD-Video playback formats

Award-Winning GeForce® 6 Series GPUs

- Revolutionary design that delivers best-in-class performance on today's digital media and graphics applications
- Only GPUs available on a motherboard to support Microsoft DirectX® 9.0 Shader Model 3.0 for cutting-edge effects
- Improve productivity with the ability to drive two displays with NVIDIA nView™ Technology

Award-Winning NVIDIA nForce®4 MCPs

- Uncompromised features and system performance
- Includes NVIDIA MediaShield™ technology to confidently store and protect priceless digital assets
- NVIDIA nTune™ utility to optimize for quiet environments
- Native networking support including Gigabit Ethernet on some models
- SATA drive compatibility and PCIe expandability

Flexible Platform for Mainstream PCs

- Ready for Microsoft® Windows Vista™ operating system
- Easily upgrade to discrete GPU on most models
- Perfect for building a wide variety of systems including media PCs, home PCs, and business PCs

			CPU			GRAPHICS INTERFACE				MEDIA/SHIELD STORAGE			OS	AUDIO	PERFORMANCE TOOLS	NETWORKING	VIDEO/DISPLAY OPTIONS		
	PRODUCT	IDEAL FOR	Processor Supported	Socket Supported	DDR Support	Advanced Bus Support	Graphics Clock	DirectX 9.0 Shader Model 3.0 support	Multi-display capable	SATA/PATA Drive Support	SATA	Supported RAID Configurations	Microsoft® Windows® Vista™ Capable	Audio Specification	NVIDIA nTune™ Utility	NVIDIA Gigabit Ethernet Connections	NVIDIA PureVideo Technology	TV Encoder	TMDS/DVI
NVIDIA GPU Motherboard Solutions for AMD	NVIDIA GeForce 6150 NVIDIA nForce 430	Media Center Media Center PC User, Home Media PC User, and Casual Gamer	Athlon 64 Sempron	AM2 939 754	DDR2* DDR	PCI Express® 1 x16, 2 x1	475 MHz	✓	✓	4/4	3Gb/s	0, 1, 0+1, 5	✓	HDA AC'97	✓	10/100/1000	HD SD	✓	✓
	NVIDIA GeForce 6100 NVIDIA nForce 430	Mainstream Casual PC User and Casual Gamer	Athlon 64 Sempron	AM2 939 754	DDR2* DDR	PCI Express 1 x16, 2 x1	425 MHz	✓	with ADD2 card**	4/4**	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	10/100/1000	SD	✓ **	✓ **
	NVIDIA GeForce 6100 NVIDIA nForce 410	Mainstream Casual PC User and Casual Gamer	Athlon 64 Sempron	AM2 939 754	DDR2* DDR	PCI Express 1 x16, 1 x1	425 MHz	✓	No	2/4	3Gb/s	0, 1	✓	HDA AC'97	✓	10/100	SD		
	NVIDIA GeForce 6100 NVIDIA nForce 405	Small Business Business User and Casual PC User	Athlon 64 Sempron	AM2 939 754	DDR2* DDR	PCI Express 1 x8, 2 x1	425 MHz	✓	No	2/2	3Gb/s	0, 1	✓	HDA	✓	10/100	SD		
	NVIDIA GeForce 6100 NVIDIA nForce 400	Value Value PC User, Business User, and Casual PC User	Athlon 64 Sempron	AM2 939 754	DDR2* DDR	PCI Express 2 x1	425 MHz	✓	No	2/2	3Gb/s	0, 1	✓	HDA	✓	10/100	SD		

*socket AM2 only

** NVIDIA GeForce 6100/NVIDIA nForce 430 solutions manufactured after Aug. 2006 support 2 PATA drives and TV Encoder and DVI support through sDVO. Please confirm actual specs with your motherboard manufacturer.

NVIDIA GPU MOTHERBOARD SOLUTIONS FEATURES AND BENEFITS*

	FEATURES	BENEFITS
GRAPHICS	PCI Express®	Supports the latest add in graphics cards and other features with x16 and x1 lanes. Delivers 4GB/sec. in both upstream and downstream data transfers over x16 lanes
	Microsoft® DirectX® 9.0 Shader Model 3.0 Support	Ensures top-notch compatibility and performance for all Microsoft® DirectX® 9.0 applications, including Shader Model 3.0 titles
STORAGE	NVIDIA® MediaShield™ Storage Technology	Suite of features that safeguards your most important digital media assets, including: • Multiple Disk Setup: Simple point and click wizard-based interface for RAID configurations across SATA devices • DiskAlert System: identifies the specific disk in the event of a failure • RAID Morphing: ability to change from one supported RAID configuration to another • Bootable RAID Array: supports the use of multi-disk configurations for loading the operating system at power-up"
	SATA 3Gb/sec.	Blazingly fast disk performance with the latest SATA-2 hard disk drives with full support for native and tagged command queuing and hot plug
	SATA/Ultra ATA-133	Serial ATA 1.5Gb/sec. ports with support for a dual-channel ATA interface capable of a maximum data transfer rate of 133 Mbps per channel
OS SUPPORT	Microsoft Windows® Vista™ Capable	NVIDIA GPU motherboard solutions are perfect for Microsoft Windows Vista when coupled with 512MB of system memory
AUDIO	High Definition Audio (HDA)	Features 32-bit, 192kHz quality for eight channels
	AC'97 Audio	Features 20-bit, 48kHz support, and is fully AC'97 compliant
PERFORMANCE TOOLS	NVIDIA nTune™ Utility	Access, monitor, and dynamically adjust crucial system components including CPU temperatures, voltages, bus speeds, and CPU core speed in real time with clear, user-friendly control panel
	NVIDIA Forceware™ Platform Software	Delivers industry-leading features and rock-solid stability and reliability for NVIDIA GPU Motherboard solutions
CONNECTIVITY	USB 2.0	Connect to a variety of digital devices including mice, keyboards, game controllers, digital cameras, and digital camcorders
NETWORKING	NVIDIA Native Gigabit Ethernet	The industry's fastest Gigabit Ethernet performance eliminates network bottlenecks and improves overall system efficiency and performance
	Checksum Offload	Improves networking efficiency by reducing CPU utilization. Allows the processor to concentrate on other tasks
	Jumbo Frame Support	Reduces the number of calls to the network driver, thereby reducing CPU overhead and improves throughput
	Windows Control Panel/Web-based Management	Provides easy access to system set-up and configuration. Interface determined by software version
	IPv6 Support	Ability to future proof PC systems as standards evolve
VIDEO/DISPLAY OPTIONS	NVIDIA® PureVideo™ Technology	The combination of the GeForce GPU's high-definition video processor and software delivers unprecedented picture clarity, smooth video, accurate color, and precise image scaling for all video content to turn your PC into a high-end home theater
	Integrated HDTV Encoder	Provides world-class HDTV-out functionality up to and including 1920x1080i resolutions. Includes RCA, S-video and component output support
	Single-Link TMDS/DVI Support	Able to drive flat-panel displays up to and including 1600x1200.
	NVIDIA nView™ Multi-Display Technology	Advanced technology provides the ultimate in viewing flexibility and control for multiple monitors
		* Features vary by product and motherboard design. Please confirm actual specs with your motherboard manufacturer



NVIDIA®

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