



# NVIDIA Motherboard GPUs

## Featuring NVIDIA GeForce GPUs and NVIDIA nForce MCPs

### Award-Winning GeForce® GPUs

- Best-in-class performance on today's media rich applications
- Experience cutting-edge effects with support for Microsoft DirectX® 9.0 Shader Model 3.0
- Improve productivity with the ability to drive two displays with NVIDIA nView™ Technology

### Home Theatre Quality HD Video

- Stunning video playback and superb picture clarity with NVIDIA® PureVideo™ technology on select models
- 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
- HDTV without the expense of additional home-theater devices

### Award-Winning NVIDIA nForce® MCPs

- Uncompromised features and system performance
- Confidently store and protect priceless digital assets with NVIDIA MediaShield™ technology
- Native networking support including Gigabit Ethernet on select models
- SATA drive compatibility and PCIe expandability

### Flexible Platform for Mainstream PCs

- Ready for Microsoft® Windows Vista™ Premium experience
- Easily upgraded to discrete GeForce GPUs
- Perfect for building a wide variety of systems including media PCs, home PCs, and business PCs

		CPU			Graphics			Mediashield Storage			OS		Audio	Networking	Video/display options					
		Processor Supported	Socket Supported	DDR Support	PCI Express® 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™ Premium Capable	Microsoft Windows XP support	Audio Specification	NVIDIA Native Ethernet Connections	NVIDIA PureVideo Technology	Integrated HDMI with HDCP	TV Encoder	Integrated DVI with HDCP	
		Product	Ideal for																	
NVIDIA Motherboard GPUs for Intel	NVIDIA GeForce 7150 NVIDIA nForce 630i	<b>Discrete GPU Replacement</b>	Core2 Family Pentium D, Pentium 4 Celeron D	LGA775	DDR2 800	x16, x1	600 MHz+	✓	✓	4/2	3Gb/s	0, 1, 0+1, 5	✓	✓	HDA	10/100/1000		✓	✓	
	NVIDIA GeForce 7100 NVIDIA nForce 630i	<b>Best-in-Class Mainstream PC</b>	Core2 Family Pentium D, Pentium 4 Celeron D	LGA775	DDR2 800	x16, x1	600 MHz	✓	✓	4/2	3Gb/s	0, 1, 0+1, 5	✓	✓	HDA	10/100/1000		✓	✓	
	NVIDIA GeForce 7050 NVIDIA nForce 630i	<b>Mainstream PC</b>	Core2 Family Pentium D, Pentium 4 Celeron D	LGA775	DDR2 667	x16, x1	500 MHz	✓	✓	4/2	3Gb/s	0, 1, 0+1, 5	✓	✓	HDA	10/100/1000				✓
	NVIDIA GeForce 7050 NVIDIA nForce 610i	<b>Mainstream PC</b>	Core2 Family Pentium D, Pentium 4 Celeron D	LGA775	DDR2 667	x8, x1	500 MHz	✓		4/2	3Gb/s	0, 1	✓	✓	HDA	10/100				
NVIDIA Motherboard GPUs for AMD	NVIDIA GeForce 7050 PV NVIDIA nForce 630a	<b>Home Theater PC</b>	Athlon 64 X2, Athlon 64 Sempron	AM2	DDR2	x16, x1	425 MHz	✓	✓	4/2	3Gb/s	0, 1, 0+1, 5	✓	✓	HDA	10/100/1000	✓	✓	✓*	✓
	NVIDIA GeForce 7025 NVIDIA nForce 630a	<b>Best-in-Class Mainstream PC</b>	Athlon 64 X2, Athlon 64 Sempron	AM2	DDR2	x16, x1	425 MHz	✓	✓	4/2	3Gb/s	0, 1, 0+1, 5	✓	✓	HDA	10/100/1000				✓
	NVIDIA Quadro NVS 210S NVIDIA nForce 430	<b>Stable Image PC</b>	Athlon 64 X2, Athlon 64 Sempron	AM2	DDR2	x16, x1	425 MHz	✓	✓	4/2	3Gb/s	0, 1	✓	✓	HDA	10/100/1000				✓***
	NVIDIA GeForce 6150 SE NVIDIA nForce 430	<b>Mainstream PC</b>	Athlon 64 X2, Athlon 64 Sempron	AM2 939, 754	DDR2** DDR	x16, x1	425 MHz	✓		4/2	3Gb/s	0, 1, 0+1, 5	✓	✓	HDA	10/100/1000				
	NVIDIA GeForce 6100 NVIDIA nForce 430	<b>Mainstream PC</b>	Athlon 64 X2, Athlon 64 Sempron	AM2 939, 754	DDR2** DDR	x16, x1	425 MHz	✓		4/2	3Gb/s	0, 1, 0+1, 5	✓	✓	HDA	10/100/1000				
	NVIDIA GeForce 6100 NVIDIA nForce 405	<b>Value PC</b>	Athlon 64 X2, Athlon 64 Sempron	AM2 939, 754	DDR2** DDR	x8, x1	425 MHz	✓		2/2	3Gb/s	0, 1	✓	✓	HDA	10/100				

\* Feature supported on select models \*\*Supported on socket AM2 only \*\*\*DVI without HDCP support



# NVIDIA Motherboard GPU Features and Benefits\*

NVIDIA MGPU | LINECARD | APR07

	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: <ul style="list-style-type: none"> <li>- Multiple Disk Setup: Simple point and click wizard-based interface for RAID configurations across SATA devices</li> <li>- DiskAlert System: identifies the specific disk in the event of a failure</li> <li>- RAID Morphing: ability to change from one supported RAID configuration to another</li> <li>- Bootable RAID Array: supports the use of multi-disk configurations for loading the operating system at power-up</li> </ul>
	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
	Ultra ATA-133	Dual-channel ATA interface capable of a maximum data transfer rate of 133 Mbps per channel
OS support	Microsoft Windows® Vista™ Premium	NVIDIA motherboard GPUs are ready for Microsoft Windows Vista Premium when coupled with 1GB of system memory
Audio	High Definition Audio (HDA)	Features 32-bit, 192kHz quality for eight channels
Software	NVIDIA Forceware™ Platform Software	Delivers industry-leading features and rock-solid stability and reliability for NVIDIA Motherboard GPUs
Connectivity	USB 2.0	The industry's fastest Gigabit Ethernet performance eliminates network bottlenecks and improves overall system efficiency and performance
	Windows Control Panel	Provides easy access to system set-up and configuration. Interface determined by software version
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 HDMI with HDCP	On board HDMI connector designed to meet the output protection management (HDCP) and security specifications of the Blu-ray Disc and HD DVD formats, allowing the playback of encrypted movie content on PCs when connected to HDCP-compliant displays.
	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 DVI with HDCP	Able to drive any single-link digital flat-panel display
	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

For more information on NVIDIA and NVIDIA nForce products, visit [www.nvidia.com](http://www.nvidia.com)

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