NVIDIA-based Motherboard Family for AMD

NVIDIA nForce® 780a SLI® MCP

NVIDIA GeForce® 8300 mGPU

Why NVIDIA nForce MCPs?

NVIDIA® SLI™ Technology

- The combination of NVIDIA nForce® MCPs and GeForce® GPUs deliver the ultimate PC gaming experience

- Revolutionary platform innovation that allows users to intelligently scale graphics performance by combining multiple NVIDIA graphics solutions

- SLI-certified components deliver unmatched performance and compatibility with NVIDIA nForce based motherboards

Advanced Networking

- Native Gigabit Ethernet solution with low CPU utilization

- NVIDIA DualNet® technology includes teaming and TCP/IP acceleration for greater bandwidth and better system performance

- Prioritize important network traffic with NVIDIA FirstPacket™ technology

Performance

- ESA-certified components and applications bring you unprecedented control to monitor and tune your PC performance

- NVIDIA Control Panel utility gives you access to BIOS level settings directly from Microsoft Windows to quickly optimize PC performance

- SLI-Ready memory with EPP increases the bandwidth of memory buses with select third party components with one click implementation

Storage

- Confidently store and protect priceless digital media files with NVIDIA MediaShield™ technology

- Support for multiple SATA 3Gb/s drives

- Reliable, accessible, scalable, and easy to manage storage

Why NVIDIA GeForce Motherboard GPUs?

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 and 10

- 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

- 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 Core Logic

- Uncompromised features and system performance

- Confidently store and protect priceless digital assets with NVIDIA MediaShield™ technology

- Native networking support including Gigabit Ethernet

- 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

Quick Guide to NVIDIA-based Motherboards for AMD Platforms

PRODUCT	IDEAL FOR	Form Factor	NVIDIA SLI Technology	PCI Express x16 Slots	NVIDIA GeForce Boost	NVIDIA HybridPower	NVIDIA PureVideo	PCI Express 2.0	DirectX Support	Display Outputs	Processor Supported	Socket Supported	HT speed	ESA-Certified	NVIDIA Control Panel	NVIDIA System Monitor	DDR Support	SLI-Ready Memory	SATA/PATA Drive Support	NVIDIA MediaShield RAID	Microsoft Windows Vista Capable	Audio Specification	Gigabit Ethernet Connections	NVIDIA FirstPacket technology
nForce 780a SLI	**Enthusiast** Overclocker, Extreme Gamer, Power User, Multimedia Enthusiast	ATX	3-way SLI	3	✓	✓	HD	✓	10	DVI VGA	Phenom, Athlon 64 FX, Athlon 64 X2, Athlon 64	AM2+	HT3	✓	✓	✓	DDR2	✓	6/2	0, 1, 0+1, 5	✓	HDA	1	✓
nForce 590 SLI		ATX	2-way SLI	3							Athlon 64 FX, Athlon 64 X2, Athlon 64	AM2+ AM2	HT1	✓	✓		DDR2	✓	6/2	0, 1, 0+1, 5	✓	HDA	2	✓
nForce 750a SLI	**Performance** Gamer, Multimedia User	ATX	2-way SLI	2	✓	✓	HD	✓	10	DVI VGA	Phenom, Athlon 64 FX, Athlon 64 X2, Athlon 64	AM2+	HT3		✓	✓	DDR2	✓	6/2	0, 1, 0+1, 5	✓	HDA	1	✓
nForce 570 SLI		ATX	2-way SLI	2							Athlon 64 X2, Athlon 64	AM2+ AM2	HT1		✓		DDR2	✓	6/2	0, 1, 0+1, 5	✓	HDA	2	✓
nForce 570 LT SLI		ATX	2-way SLI	2							Athlon 64 X2, Athlon 64	AM2+ AM2	HT1		✓		DDR2		4/2	0, 1, 0+1, 5	✓	HDA	1	✓
nForce 730a	**Mainstream** Business User, Casual Gamer, Home PC User	ATX		1	✓	✓	HD	✓	10	DVI VGA	Phenom, Athlon 64 FX, Athlon 64 X2, Athlon 64	AM2+	HT3		✓		DDR2		6/2	0, 1, 0+1, 5	✓	HDA	1	✓
nForce 720a		ATX		1	✓	✓	✓	✓	10	DVI VGA	Phenom, Athlon 64 FX, Athlon 64 X2, Athlon 64	AM2+	HT3		✓		DDR2		6/2	0, 1, 0+1, 5	✓	HDA	1	✓
nForce 560		ATX		1							Athlon 64 X2, Athlon 64, Semphron	AM2+ AM2	HT1		✓		DDR2		4/2	0, 1, 0+1, 5	✓	HDA	1	✓
nForce 710a	**Value** Business User, Value PC Buyer	ATX		1				✓			Phenom, Athlon 64 FX, Athlon 64 X2, Athlon 64	AM2+	HT3		✓		DDR2		6/2	0, 1, 0+1, 5	✓	HDA	1	✓
nForce 520		ATX		1							Athlon 64 X2, Athlon 64, Semphron	AM2+ AM2	HT1		✓		DDR2		4/2	0, 1, 0+1, 5	✓	HDA	1*	
nForce 520 LE		ATX		1							Athlon 64 X2, Athlon 64, Semphron	AM2+ AM2	HT1		✓		DDR2		2/2	0, 1, 0+1, 5	✓	HDA	1*	
GeForce 8300	**Mainstream** Business User, Casual Gamer, Home PC User	uATX		1	✓	✓	HD	✓	10	HDMI DVI VGA	Phenom, Athlon 64 X2, Athlon 64	AM2+	HT3				DDR2		6/2	0, 1, 0+1, 5	✓	HDA	1	✓
GeForce 8200		uATX		1	✓	✓	HD	✓	10	HDMI DVI VGA	Phenom, Athlon 64 X2, Athlon 64	AM2+	HT3				DDR2		6/2	0, 1, 0+1, 5	✓	HDA	1	✓
GeForce 8100		uATX		1	✓	✓	✓	✓	10	HDMI DVI VGA	Phenom, Athlon 64 X2, Athlon 64	AM2+	HT3				DDR2		6/2	0, 1, 0+1, 5	✓	HDA	1	✓
GeForce 7050 PV		uATX		1			✓		9	HDMI DVI VGA	Athlon 64 FX, Athlon 64 X2, Athlon 64, Semphron	AM2+ AM2	HT1				DDR2		4/2	0, 1, 0+1, 5	✓	HDA	1	
GeForce 7025		uATX		1					9	DVI VGA	Athlon 64 FX, Athlon 64 X2, Athlon 64, Semphron	AM2+ AM2	HT1				DDR2		4/2	0, 1, 0+1, 5	✓	HDA	1	
GeForce 6100 nForce 430	**Value** Business User, Value PC Buyer	uATX		1					9	VGA	Athlon 64 FX, Athlon 64 X2, Athlon 64, Semphron	AM2 939 754	HT1				DDR2** DDR		4/2	0, 1, 0+1, 5	✓	HDA	1	
GeForce 6100 nForce 405		uATX		1					9	VGA	Athlon 64 FX, Athlon 64 X2, Athlon 64, Semphron	AM2 939 754	HT1				DDR2** DDR		2/2	0, 1	✓	HDA	1*	

Left-side section labels: NVIDIA nForce MCPs · NVIDIA GeForce mGPUs

10/100 internet *
Socket AM2 only **

Features and Benefits for NVIDIA-based Motherboards for AMD

	Features	Benefits
Graphics	NVIDIA® SLI™ Technology	NVIDIA SLI technology is a revolutionary platform innovation that allows users to intelligently scale graphics performance by combining multiple NVIDIA graphics solutions in a single system with an NVIDIA nForce® SLI MCP
	PCI Express® x16 slots	x16 PCI Express slots provides graphics expandability with add in graphics cards
	NVIDIA GeForce Boost Technology	GeForce Boost turbocharges the performance of NVIDIA GeForce GPUs when combined with an NVIDIA motherboard. (On select products. Visit www.nvidia.com/hybridsli for more information)
	NVIDIA HybridPower Technology	NVIDIA HybridPower unleashes graphics performance for demanding 3D applications and intelligently switches to low-power operation for everyday computing needs. (On select products. Visit www.nvidia.com/hybridsli for more information)
	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
	PCI Express 2.0	Offers a future-proofing bridge to tomorrow's most bandwidth-hungry games and 3D applications by maximizing 5 GT/s of bandwidth (twice that of first generation PCI Express) and is fully backwards compatible with existing PCI Express products
	Microsoft® DirectX® Support	Ensures top-notch compatibility and performance for all Microsoft® DirectX® applications, including support for DirectX 10 on select products
	Display Outputs	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. DVI with HDCP - Able to drive any single-link digital flat-panel display
Performance Tuning Tools and Software	ESA Certified	ESA-certified components and applications provide real-time and complete PC performance management, bringing you unprecedented control to manage and tune thermal, electrical, acoustic and operating characteristics to maximize your PC's performance.
	NVIDIA Control Panel 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 System Monitor	NVIDIA System Monitor allows you to seamlessly monitor PC characteristics in an intuitive and customizable 3D environment
Memory	NVIDIA SLI-Ready Memory with EPP	SLI-Ready memory with EPP increases the bandwidth of memory buses with select third party components with one click implementation
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 0, 1, 0+1, or 5 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. with NCQ	Blazingly fast disk performance with the latest SATA 3Gb/s. 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™ Capable	• NVIDIA nForce MCPs are ready for Microsoft Windows Vista Premium when coupled with an NVIDIA GeForce GPU and 512MB of system memory • NVIDIA GeForce mGPUs 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
Networking	NVIDIA Native Gigabit Ethernet	The industry's fastest Gigabit Ethernet performance eliminates network bottlenecks and improves overall system efficiency and performance
	NVIDIA FirstPacket™ Technology	Assures your game data, VoIP conversations, and large file transfers are delivered according to your set preferences. Lowers your ping time for improved online gaming

* Features vary by product and motherboard design. Please confirm actual specs with your motherboard manufacturer

For more information on NVIDIA based Motherboards, visit www.nvidia.com/motherboards