



BUILD THE BEST DESKTOP PC WITH NVIDIA NFORCE for AMD

NVIDIA NFORCE KEY POINTS

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 motherboards

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

Performance

- NVIDIA nTune™ utility give you access to BIOS level settings directly from Microsoft Windows
- Quickly optimize PC performance with automatic tuning
- NVIDIA LinkBoost™ technology gives you automatic access to faster bus speeds when used with select NVIDIA GeForce graphics cards
- Select SLI-Ready memory and other components have been optimized for great performance and reliability with NVIDIA nForce-based motherboards.

Advanced Networking

- Native Gigabit Ethernet solution with lowest 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

	PRODUCT		CPU			GRAPHICS INTERFACE			MEMORY		MEDIASHIELD STORAGE			OS	AUDIO	PERFORMANCE TUNING TOOLS		ADVANCED NETWORKING			
	PRODUCT	IDEAL FOR	Processor Supported	Socket Supported	FSB Speed	Advanced Bus Support	NVIDIA SLI™ Technology	NVIDIA LinkBoost™ technology	DDR Support	Optimized NVIDIA SLI-Ready memory	SATA/PATA Drive Support	SATA	Supported RAID Configurations	Microsoft® Windows® Vista™ Capable	Audio Specification	Enthusiast Bios	NVIDIA nTune™ Utility	Native Ethernet Connections	NVIDIA FirstPacket™ technology	NVIDIA DualNet® technology	TCP/IP Acceleration
nForce 600a Series	NVIDIA nForce 680a SLI	Multimedia Enthusiast – Passionate Multimedia Enthusiast, Extreme Gamer	Athlon 64 FX	L1 / 1207	1GHz Hypertransport	PCI Express® 16, 16, 8, 8, 1, 1, 1, 1, 1, 1, 1, 1	SLI x16	✓	DDR2	✓	12/4	3Gb/s	0, 1, 0+1, 5, JBOD	✓	HDA 7.1	✓	✓	4x * 10/100/1000	✓	✓	✓
	NVIDIA nForce 590 SLI	Enthusiast – Overclockers, Extreme Gamer, and Multimedia Enthusiast	Athlon 64 FX Athlon 64 X2 Athlon 64	AM2	1GHz Hypertransport	PCI Express® 16, 16, 8, 1, 1, 1, 1, 1, 1	SLI x16	✓	DDR2	✓	6/2	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	✓	2x 10/100/1000	✓	✓	✓
	NVIDIA nForce 570 SLI	Performance Gaming – Power User, Gamer, and Multimedia Hobbyist	Athlon 64 X2 Athlon 64	AM2	1GHz Hypertransport	PCI Express 16, 8, 1, 1, 1, 1	SLI x8		DDR2		6/2	3Gb/s	0, 1, 0+1, 5	✓	HDA		✓	2x 10/100/1000	✓	✓	✓
nForce 500 Series	NVIDIA nForce 570 Ultra	Performance Multimedia – Power User, Gamer, and Multimedia Hobbyist	Athlon 64 X2 Athlon 64 Sempron	AM2	1GHz Hypertransport	PCI Express 16, 1, 1, 1, 1			DDR2		6/2	3Gb/s	0, 1, 0+1, 5	✓	HDA		✓	2x 10/100/1000	✓	✓	✓
	NVIDIA nForce 550	Mainstream – Casual PC User, Home PC, Casual Gamer, and Business User	Athlon 64 Sempron	AM2	1GHz Hypertransport	PCI Express 16, 1, 1, 1, 1			DDR2		4/2	3Gb/s	0, 1, 0+1	✓	HDA		✓	10/100/1000			
	NVIDIA nForce 510	Value – Casual PC user, Home PC, Business User, and Value PC Buyer	Athlon 64 Sempron	AM2	1GHz Hypertransport	PCI Express 16, 1, 1, 1			DDR2		2/2	3Gb/s	0, 1	✓	HDA		✓	10/100			
	NVIDIA nForce 500 SLI	Performance Gaming – Power User, Gamer, and Multimedia Hobbyist	Athlon 64 X2 Athlon 64	AM2	1GHz Hypertransport	PCI Express 8, 8, 1, 1, 1, 1	SLI x8		DDR2		4/4	3Gb/s	0, 1, 0+1, 5	✓	AC'97		✓	10/100/1000			✓
	NVIDIA nForce 500 Ultra	Performance Multimedia – Power User, Gamer, and Multimedia Hobbyist	Athlon 64 X2 Athlon 64 Sempron	AM2	1GHz Hypertransport	PCI Express 16, 1, 1, 1			DDR2		4/4	3Gb/s	0, 1, 0+1, 5	✓	AC'97		✓	10/100/1000			✓
	NVIDIA nForce 500	Value – Casual PC user, Home PC, Business User, and Value PC Buyer	Athlon 64 Sempron	AM2	1GHz Hypertransport	PCI Express 16, 1, 1, 1			DDR2		4/4	1.5Gb/s	0, 1, 0+1	✓	AC'97		✓	10/100/1000			
	nForce4 Series	NVIDIA nForce4 SLI X16	Enthusiast – Extreme Gamer and Multimedia Enthusiast	Athlon 64 FX Athlon 64 X2 Athlon 64	939 754	1GHz Hypertransport	PCI Express 16, 16, 2, 1, 1, 1, 1	SLI x16		DDR		4/4	3Gb/s	0, 1, 0+1, 5	✓	AC'97		✓	10/100/1000		
NVIDIA nForce4 SLI		Performance Gaming – Power User, Gamer, and Multimedia Hobbyist	Athlon 64 X2 Athlon 64	939 754	1GHz Hypertransport	PCI Express 8, 8, 1, 1, 1, 1	SLI x8		DDR		4/4	3Gb/s	0, 1, 0+1, 5	✓	AC'97		✓	10/100/1000			✓
NVIDIA nForce4 Ultra		Performance Multimedia – Power User, Gamer, and Multimedia Hobbyist	Athlon 64 X2 Athlon 64 Sempron	939 754	1GHz Hypertransport	PCI Express 16, 1, 1, 1			DDR		4/4	3Gb/s	0, 1, 0+1, 5	✓	AC'97		✓	10/100/1000			✓
NVIDIA nForce4		Value – Casual PC user, Home PC, Business User, and Value PC Buyer	Athlon 64 Sempron	939 754	1GHz Hypertransport	PCI Express 16, 1, 1, 1			DDR		4/4	1.5Gb/s	0, 1, 0+1	✓	AC'97		✓	10/100/1000			

* Socket AM2 only
** Features vary by product and motherboard design. Please confirm actual specs with your motherboard manufacturer

NVIDIA NFORCE FEATURES AND BENEFITS* for AMD

	FEATURES	BENEFITS
GRAPHICS INTERFACE	PCI Express®	- Supports the latest add in graphics cards and other features with full x16 implementation. Delivers over 4GB/sec. in both upstream and downstream data transfers
	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
	NVIDIA LinkBoost™ technology	- NVIDIA nForce 590 SLI MCP automatically increases bandwidth when select NVIDIA GeForce graphics cards are detected
MEMORY	DDR2 Support	- The latest memory standard supported by AMD socket AM2 processors
	Optimized NVIDIA SLI-Ready Memory	- NVIDIA nForce 590 SLI MCP and select optimized SLI-Ready memory modules expose additional enthusiast memory settings when paired together
STORAGE	NVIDIA® MediaShield™ Storage Technology	- Suite of features that safeguards your most important digital media assets, including: <ul style="list-style-type: none"> • 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/sec. hard disk drives with full support for native and tagged command queuing and hot plug
	SATA 1.5Gb/sec.	- Fast disk performance with the SATA 1.5Gb/sec. hard disk drives with full support for native and tagged command queuing and hot plug
	Parallel 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-based motherboards are perfect for Microsoft Windows Vista when coupled with an NVIDIA GeForce® graphics processing unit and 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 TUNING TOOLS AND SOFTWARE	Enthusiast BIOS	- Allows advanced users the ability to adjust multiple frequencies and voltages with ultra fine control
	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 nForce MCPs
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
	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
	NVIDIA DualNet® technology	- Two Gigabit Ethernet MACs with TCP/IP acceleration - Teaming: allows two connections to work together to provide up to twice the Ethernet bandwidth for large data transfers from file servers to other PCs. It also provides network redundancy through fail-over capability
	TCP/IP Acceleration:	- Delivers the highest system performance by offloading CPU-intensive packet filtering tasks in hardware, providing users with a fast networking environment
	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

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



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