



Build the Best Desktop PC With NVIDIA nForce for Intel

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

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

Performance

- With comprehensive overclocking tools to push the limits on front side bus (FSB) speed, the NVIDIA nForce 600i series is designed for overclocking
- NVIDIA nTune™ utility give 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

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

	Product	Ideal for	CPU				Graphics Interface			Memory		Mediashield Storage			OS	Audio	Performance Tuning Tools	Advanced Networking			
			Recommended Processor	Socket Supported	FSB Speed	Extreme FSB Overclocking	PCI Express® Advanced Bus Support	NVIDIA SLI™ Technology	Third PCIe Graphics Expansion Support	DDR Support	Support for NVIDIA SLI-Ready memory with EPP	SATA/PATA Drive Support	SATA	Supported RAID Configurations	Microsoft® Windows® Vista™ Capable	Audio Specification	NVIDIA nTune™ Utility	NVIDIA Gigabit Ethernet Connections	NVIDIA FirstPacket™ Technology	NVIDIA DualNet® Technology	TCP/IP Acceleration
NVIDIA nForce 600i Series	NVIDIA nForce 680i SLI	Extreme Enthusiast SLI Overclocker, Extreme Gamer, and Multimedia Enthusiast	Core™2 Family	LGA775	1333*/1066/800 MHz	Best	16, 16, 8, 1, 1, 1, 1, 1, 1	SLI x16	✓	DualDDR2 up to 800 MHz	Up to 1200 MHz	6/2	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	2	✓	✓	✓
	NVIDIA nForce 680i LT SLI	Extreme Performance SLI Overclocker, Extreme Gamer, and Multimedia Enthusiast	Core™2 Family	LGA775	1333*/1066/800 MHz	Good	16, 16, 8, 1, 1, 1, 1, 1, 1	SLI x16	✓	DualDDR2 up to 800 MHz	Up to 800 MHz	6/2	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	2	✓	✓	✓
	NVIDIA nForce 650i SLI	Performance SLI Overclocker, Power User, Gamer, and Multimedia Hobbist	Core™2 Family	LGA775	1333*/1066/800 MHz	Good	8, 8, 1, 1 or 16, 1, 1	SLI x8		DualDDR2 up to 800 MHz		4/4	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	1	✓		
	NVIDIA nForce 650i Ultra	Performance Overclocker, Power User, Gamer, and Multimedia Hobbist	Core™2 Family	LGA775	1333*/1066/800 MHz	Good	16, 1, 1			DualDDR2 up to 800 MHz		4/4	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	1	✓		
	NVIDIA nForce 630i	Mainstream Multimedia User, Gamer, and Entry PCs	Core™2 Family, Pentium D, Pentium 4	LGA775	1333*/1066/800 MHz		16, 1, 1			DDR2 up to 800 MHz		4/2	3Gb/s	0, 1, 0+1, 5	✓	HDA		1			
NVIDIA nForce	NVIDIA nForce 590 SLI	Enthusiast Overclockers, Extreme Gamer, and Multimedia Enthusiast	Core™2 Family, Pentium D, Pentium 4	LGA775	1066/800 MHz	Good	16, 16, 8, 1, 1, 1, 1, 1, 1	SLI x16	✓	DualDDR2 up to 667 MHz	Up to 800 MHz	6/2	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	2	✓	✓	✓
	NVIDIA nForce 570 SLI	Performance Gaming Power User, Gamer, and Multimedia Hobbist	Core™2 Family, Pentium D, Pentium 4 Celeron D	LGA775	1066/800 MHz		8, 8, 1, 1, 1 or 16, 1, 1, 1, 1	SLI x8		DualDDR2 up to 667 MHz		4/4	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	1			
NVIDIA nForce4 Series	NVIDIA nForce4 SLI X16	Enthusiast Extreme Gamer and Multimedia Enthusiast	Core™2 Family, Pentium D, Pentium 4	LGA775	1066/800 MHz		16, 16, 1, 1, 1, 1, 1, 1	SLI x16		DualDDR2 up to 667 MHz		4/4	3Gb/s	0, 1, 0+1, 5	✓	AC'97	✓	1			✓
	NVIDIA nForce4 SLI	Performance Gaming Power User, Gamer, and Multimedia Hobbist	Pentium D, Pentium 4, Celeron D	LGA775	1066/800 MHz		8, 8, 1, 1, 1	SLI x8		DualDDR2 up to 667 MHz		4/4	3Gb/s	0, 1, 0+1, 5	✓	AC'97	✓	1			✓
	NVIDIA nForce4 SLI XE	Performance Power User, Gamer and Multimedia Hobbist	Pentium D, Pentium 4, Celeron D	LGA775	1066/800 MHz		8, 8, 1, 1, 1	SLI x8		DualDDR2 up to 667 MHz		4/4	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	1			
	NVIDIA nForce4 Ultra	Performance Multimedia Power User, Gamer, and Multimedia Hobbist	Core™2 Family Pentium D, Pentium 4, Celeron D	LGA775	1066/800 MHz		16, 1, 1, 1, 1			DualDDR2 up to 667 MHz		4/4	3Gb/s	0, 1, 0+1, 5	✓	HDA	✓	1			

* Available on CPUs supporting 1333MHz FSB



NVIDIA nForce Features and Benefits* for Intel

	Features	Benefits
CPU	Dynamic Adaptive Speculative Pre-processor (DASP)	Boosts CPU speed by storing application instructions and data before they are needed
	Extreme FSB overlocking	The front side bus (FSB) in the NVIDIA nForce 600 series is specified to run at 1333MHz to support existing and future FSB speeds. Through overlocking, however, the NVIDIA nForce 600 Series can deliver speeds well beyond FSB specification.
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
	Third PCIe Slot for Graphics Expansion	Make sure your rig is ready for the future. The third PCIe slot can be used for new three GPU applications or a PCIe card of your choice.
Memory	NVIDIA DualDDR2 Architecture (Dual 64-bit memory controllers, 128-bit interface)	Experience the highest level of system performance and run the most demanding applications with revolutionary 64-bit memory controllers
	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: <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
	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	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

For more information on NVIDIA and NVIDIA nForce products, visit www.nvidia.com

