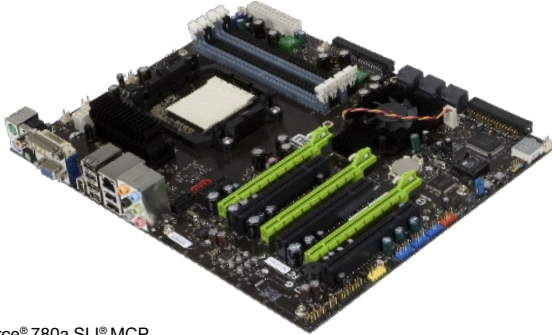




NVIDIA-based Motherboard Family for AMD



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

- NVIDIA HybridPower™ technology provides graphics performance when you need it and quiet, low-power computing when you don't
- 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

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
- NVIDIA GeForce Boost technology turbocharges the performance of select discrete GeForce GPUs
- 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
- Blu-ray and HD DVD playback at highest quality settings with PureVideo HD technology

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

| | | GRAPHICS | | | | | | | | | CPU | | | PERFORMANCE TUNING | | | MEMORY | | STORAGE | | OS | AUDIO | NETWORKING | | |
|----------------------|----------------------------|--|-------------------------|------------------------|-----------------------|---------------------|-------------------|-----------------|-----------------|-----------------|--|---|-------------------|--------------------|----------------------|-----------------------|-------------|------------------|-------------------------|--------------------------|------------------------------------|---------------------|------------------------------|--------------------------------|---|
| 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 | |
| NVIDIA nForce MCPs | nForce 590 SLI | Enthusiast Overclocker, Extreme Gamer, Power User, Multimedia Enthusiast | 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 570 SLI | Performance Gamer, Multimedia User | 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, Sempron | 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, Sempron | AM2+ AM2 | HT1 | | ✓ | | DDR2 | | 4/2 | 0, 1, 0+1, 5 | ✓ | HDA | 1* | |
| nForce 520 LE | ATX | | | 1 | | | | | | | Athlon 64 X2, Athlon 64, Sempron | AM2+ AM2 | HT1 | | ✓ | | DDR2 | | 2/2 | 0, 1, 0+1, 5 | ✓ | HDA | 1* | | |
| NVIDIA GeForce mGPUs | 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, Sempron | 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, Sempron | 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, Sempron | 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, Sempron | AM2 939 754 | HT1 | | | | DDR2** DDR | | 2/2 | 0, 1 | ✓ | HDA | 1* | |

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® and PureVideo HD Technology | The combination of high-definition video decode acceleration and post-processing that delivers unprecedented picture clarity, smooth video, accurate color, and precise image scaling for movies and video. PureVideo HD includes required content protection circuitry (HDCP) for playing Blu-ray and HD DVD movies at the highest quality possible, and is directly integrated with the leading HD movie software players. PureVideo HD delivers the ultimate high-definition movie experience on a PC. |
| | 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: <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/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 | <ul style="list-style-type: none"> • 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

© 2008 NVIDIA Corporation. NVIDIA, the NVIDIA logo, NVIDIA nForce, GeForce, NVIDIA SLI, MediaShield, FirstPacket, DualNet are trademarks and/or registered trademarks of NVIDIA Corporation. All rights reserved. All company and product names may be trademarks or registered trademarks of the respected owners with which they are associated. Features, pricing, availability, and specifications are subject to change without notice.

