



NVIDIA® GeForce® 7950 GX2 GPUs FEATURE AND BENEFITS

Next-Generation Superscalar GPU Architecture

Delivers over 2x the shading power of previous generation products taking gaming performance to extreme levels.

Full Microsoft® DirectX® 9.0 Shader Model 3.0 Support

The standard for today's PCs and next-generation consoles enables stunning and complex effects for cinematic realism. NVIDIA GPUs offer the most complete implementation of the Shader Model 3.0 feature set—including vertex texture fetch (VTF)—to ensure top-notch compatibility and performance for all DirectX 9 applications.

NVIDIA® CineFX® 4.0 Engine

Delivers advanced visual effects at unimaginable speeds. Full support for Microsoft® DirectX® 9.0 Shader Model 3.0 enables stunning and complex special effects. Next-generation shader architecture with new texture unit design streamlines texture processing for faster and smoother gameplay.

NVIDIA® SLI™ Technology¹

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. The must-have feature for performance PCI Express® graphics, SLI dramatically scales performance on today's hottest games.

*SLI support for the GeForce 7950 GX2 will be provided through a future NVIDIA ForceWare driver release. See www.slizone.com for details.

NVIDIA® Intellisample™ 4.0 Technology

The industry's fastest antialiasing delivers ultra-realistic visuals, with no jagged edges, at lightning-fast speeds. Visual quality is taken to new heights through a new rotated grid sampling pattern, advanced 128 tap sample coverage, 16x anisotropic filtering, and support for transparent supersampling and multisampling.

True High Dynamic-Range (HDR) Rendering Support

The ultimate lighting effects bring environments to life for a truly immersive, ultra-realistic experience. Based on the OpenEXR technology from Industrial Light & Magic (<http://www.openexr.com/>), NVIDIA's 64-bit texture implementation delivers state-of-the-art high dynamic-range (HDR) visual effects through floating point capabilities in shading, filtering, texturing, and blending.

HDCP Capable²

Allows playback of HD DVD, Blu-ray Disc, and other protected content at full HD resolutions with integrated High-bandwidth Digital Content Protection (HDCP) support.

NVIDIA® PureVideo™ Technology³

The combination of high-definition video processors and decoder 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.

**Programmable Video Processor³**

PureVideo's programmable technology adapts to new video formats as they are developed to provide a future-proof video solution.

Hardware Decode Acceleration³

Provides ultra-smooth playback of H.264, WMV, and MPEG-2 HD and SD videos with minimal CPU usage.

Spatial Temporal De-Interlacing³

Sharpens high definition and standard definition interlaced content on progressive displays, delivering a crisp, clear picture that rivals high-end home-theater systems.

High-Quality Scaling

Enlarges lower resolution videos and movies to fit your display, while maintaining a clear, clean image. Also provides downscaling of videos, including high-definition, while preserving image detail.

Video Color Correction³

Corrects differences in color characteristics of RGB monitors and TV monitors and ensures videos are not too dark, overly bright, or washed out regardless of the video format or display.

Integrated SD and HD TV Output

Connects to your standard definition or high-definition TV via Composite, S-Video, Component, or DVI connections.

NVIDIA® UltraShadow™ II Technology

Enhances the performance of bleeding-edge games, like id Software's *DOOM 3*, that feature complex scenes with multiple light sources and objects.

128-Bit Studio-Precision Computation

128-bit studio-precision computation through the entire pipeline prevents image defects due to low precision and ensures the best image quality for even the most demanding applications.

Full-Speed 32-Bit Color Precision

Delivers increased image quality with no performance compromise.

NVIDIA® ForceWare® Unified Driver Architecture (UDA)

Delivers a proven record of compatibility, reliability, and stability with the widest range of games and applications. ForceWare ensures the best out-of-box experience for every user and delivers continuous performance and feature updates over the life of NVIDIA GeForce GPUs.

OpenGL® 2.0 Optimizations and Support

Ensures top-notch compatibility and performance for OpenGL applications.

NVIDIA® Digital Vibrance Control® 3.0 Technology

Allows the user to adjust color controls digitally to compensate for the lighting conditions of their workspace, in order to achieve accurate, bright colors in all conditions.

**PCI Express® Support**

Designed to run perfectly with the next-generation PCI Express bus architecture. This new bus doubles the bandwidth of AGP 8X delivering over 4 GB/sec. in both upstream and downstream data transfers.

Dual 400MHz RAMDACs

Blazing-fast RAMDACs support dual QXGA displays with ultra-high, ergonomic refresh rates—up to 2048x1536@85Hz.

Dual Dual-Link DVI Support

Able to drive two of the industry's largest and highest resolution flat-panel displays up to 2560x1600.

90nm Process Technology

Delivers higher performance through blazing clock rates.

High-Speed GDDR3 Memory Interface

Support for 1GB of fast GDDR3 memory delivers fluid frame rates for even the most advanced games and applications.

Built for Microsoft® Windows Vista™

NVIDIA's third-generation GPU architecture built for Windows Vista gives users the best possible experience with the 3D graphical user interface in the upcoming operating system (OS) from Microsoft.

¹ NVIDIA SLI certified versions of GeForce PCI Express GPUs only.

² Requires other compatible components that are also HDCP capable.

³ Feature requires supported video software. Features may vary by product.