



Product Sheet



High memory interface and fast GDDR3 memory enable blazing graphics performance with the quality set to max so you don't have to choose between frame rates and image quality. Need a break from gaming? The GeForce 7900&7950 GPUs also delivers smooth, high-definition video playback and crisp picture quality thanks to its advanced NVIDIA® PureVideo™ technology. If you are searching for an extreme HD gaming and video experience on the PC, look no further than a Geforce 7900&7950 GPU.

Graphics Core

GeForce™ 7950 GT

Memory Interface

256 bit

Memory Bandwidth

44.8 GB/sec

Fill Rate

13.2 Billion Pixels/sec

Vertices Per Second

1.1 Billion

Pixels per Clock (peak)

24

RAMDACs

400 MHz

Dual Link DVI - Supporting digital output up to 2560x1600

YES

SLI Support

YES

Memory Clock

1.4 GHz

Clock rate

550 MHz

Chipset

GeForce 7950 GT

Memory

512 MB

Bus Type

PCI-E

Memory Type

DDR3

Memory Bus

256 bit

Highlighted Features

HDTV ready, Dual DVI Out

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.

256-bit Memory Interface

Delivers more memory bandwidth and efficiency to power the latest games and applications at blazing speeds.

Adaptable Programmable Video Processor

PureVideo's programmable technology adapts to new video encoding formats as they are developed to provide a future-proof video solution. (Feature requires supported video software.)

Advanced Spatial Temporal De-interlacing

Smooths video and DVD playback on progressive displays to deliver a crisp, clear picture that rivals high-end home theater systems.

Dual 400MHz RAMDACs

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

Dual DVI Support

Able to drive the industry's largest and highest resolution flat-panel displays.

High-Speed GDDR3 Memory Interface

Support for the world's fastest GDDR3 memory delivers fluid frame rates for even the most advanced games and applications.

Integrated HDTV Encoder

Provides world-class TV-out functionality up to 1080i resolution.

Microsoft® DirectX® 9.0 Shader Model 3.0 Support

Ensures top-notch compatibility and performance for all DirectX® 9 applications, including Shader Model 3.0 titles.

Next-generation Superscalar GPU Architecture

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

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® Digital Vibrance Control™ (DVC) 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.

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.

NVIDIA® PureVideo™ Technology

The combination of high-definition video processors and NVIDIA DVD 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. (Feature requires supported video software.)

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.

nView™ Multi-Display Technology

The nView hardware and software technology combination delivers maximum flexibility for multi-display options, and provides unprecedented end-user control of the desktop experience.

OpenGL™ 2.0 Optimizations and Support

Ensures top-notch compatibility and performance for all OpenGL applications. NVIDIA® nView® Multi-display Advanced technology provides the ultimate in viewing flexibility and control for multiple monitors.

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.

Video Color Correction

Color temperature correction makes actors' faces appear natural, rather than washed out and pale, when playing videos on LCD and CRT displays. Display gamma correction ensures videos are not too dark, overly bright, or washed out regardless of the video format or display. (Feature requires supported video

software.)

90nm Process Technology

Delivers higher performance through blazing clock rates.

Built for Microsoft® Windows Vista™

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

High-Definition H.264, MPEG-2 and WMV Hardware Acceleration2

Smoothly playback H.264, MPEG-2, and WMV video—including WMV HD—with minimal CPU usage so the PC is free to do other work.