NVIDIA® GeForce® 7300 GPUs Features and Benefits

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.

True High Dynamic-Range (HDR) Rendering Support: The ultimate lighting effects bring environments to life for a truly immersive, ultra-reailstic 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.

NVIDIA® TurboCache™ Technology: Shares the capacity and bandwidth of dedicated video memory and dynamically available system memory for turbocharged performance and larger total graphics memory.

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.

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

NVIDIA® PureVideo™ Technology[1]: The combination of high-definition video processors and 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

> **Adaptable Programmable Video Processor[1]:** PureVideo's programmable technology adapts to new video encoding formats as they are developed to provide a future-proof video solution.
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> **High-Definition MPEG-2 and WMV Hardware Acceleration[1]:** Smoothly playback all MPEG-2 and WMV video—including WMV-HD—with minimal CPU usage so the PC is free to do other work.
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> **Advanced Motion Adaptive De-Interlacing[1]:** Smoothes video and DVD playback on progressive displays to deliver a crisp, clear picture that rivals high-end home theater systems.

Video Scaling and Filtering: High-quality scaling and filtering technology delivers a clear, clean image at any window size, including full-screen HDTV resolutions up to 1080i.

Video Color Correction[1]: 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.

Integrated HDTV Encoder: Provides world-class TV-out functionality up to 1080i resolution.

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. Includes full support for PCI Express and AGP.

NVIDIA® nView® Multi-Display Technology: Advanced technology provides the ultimate in viewing flexibility and control for multiple monitors.

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.

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OpenGL® 2.0 Optimizations and Support: Ensures top-notch compatibility and performance for all OpenGL applications.

Dual 400MHz RAMDACs[2]: Blazing-fast RAMDACs support dual QXGA displays with ultra-high, ergonomic refresh rates up to and including 2048x1536@85Hz.

Single-Link DVI Support[2]: Able to drive the industry's largest and highest resolution flat-panel displays up to and including 1900x1200.

[1]*Feature requires supported video software. Features may vary by product.*
[2]*May vary by model.*