QuickSpecs

Overview

NVIDIA Quadro FX3000 Graphics Controller

Model
DL488B

Introduction
The new high end NVIDIA Quadro FX 3000 graphics card offers ultimate workstation feature-set and performance. With programmable shaders, dual DVI-I display support and the new nView software, the Quadro FX 3000 is the most powerful and robust workstation graphics product on the market. The Quadro FX 3000 represents a revolutionary combination of performance and features, including 256 MB DDR2 memory, nfiniteFX II programmable graphics pipeline and performance optimized OpenGL and DirectX drivers. Features also include a unified memory architecture, which dynamically allocates memory between graphics subsystems, Lightspeed Memory Architecture (LMA) II, which optimally load balances across NVIDIA's patented crossbar memory controller, resulting in maximum memory bandwidth utilization. The Quadro FX 3000 Graphics Controller is a perfect solution for the high end CAD and professional DCC user communities requiring breakthrough application performance.

Key Benefits
- 256 MB of DDR graphics memory
- Hardware overlays
- Hardware accelerated antialiased points and lines
- Two-sided lighting
- Occlusion culling
- Advanced full-scene antialiasing
- OpenGL quad-buffered stereo
- Advanced high-level shading language support for both OpenGL and DirectX
- Optimized and certified for OpenGL1.3 5 and DirectX. 9.08
- Multi-display productivity

Performance
The Quadro FX 3000 is optimized for High End 3D, CAD and professional DCC configurations.

Compatibility
The Quadro FX 3000 is supported on the following HP Personal Workstations: xw4100, xw6000, xw8000.

Service and Support
The NVIDIA Quadro FX 3000 has a one-year limited warranty or the remainder of the warranty of the HP product in which it is installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Parts and labor are available on-site within the next business day. Telephone support is available for parts diagnosis and installation. Certain restrictions and exclusions apply.

QuickSpecs

Technical Specifications

Form Factor	ATX
Graphics Controller	NVIDIA NV35GL GPU
Bus Type	AGP 8x Version 3.0 compliant
RAMDAC	Dual 400 MHz integrated
Memory	256 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage
Connectors	2 DVI-I analog/digital monitor outputs, 1 3-pin Mini DIN stereo output
Multi-monitor support	Dual integrated display controllers supporting up to 2048x1536 @ 85Hz on both displays
Additional product features	256 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage 128 KB BIOS 3.3V Flash ROM reprogrammable by SW Hardware Overlay Planes Hardware two-sided lighting Hardware accelerated antialiased points and lines Quad-buffered Stereo Diamond exit rule line rasterization for improved line quality 3D Texture support Occlusion Culling Frame synchronization Compliant with Microsoft/Intel PC2001 Workstation requirements Video Timings compliant with VESA DMT 1.0 and VESA GTF 1.0 specifications DDC2B Monitor support on all OS platforms ACPI Version 1.0b Power Management support (all modes)
AGP 8x Version 3.0 compliant and 2x/4x Version 2.0 compliant including	Sideband Addressing AGP Texturing (Execute Mode) Fast writes support
NV35GL GPU featuring:	400 MHz engine clock rate 400 MHz memory clock rate 256-bit memory interface VGA controller 8 parallel pixel pipelines 3 parallel geometry engines nfiniteFX II programmable dual Vertex Shader and Pixel Shader technology
Supported graphics APIs	OpenGL 1.5 ICD with immediate mode support for all OGL primitive types DirectX 9
Available graphics drivers	HP-tested Windows® 2000, HP-tested Windows XP, HP-tested Linux (1st Calendar Quarter 2003) HP qualified drivers may be preloaded or available from the HP support web site: http://welcome.hp.com/country/us/eng/software_drivers.html

Technical Specifications

NVIDIA Quadro FX 3000 Graphics Card display resolutions & refresh rates

MONITOR 1, 2 ANALOG/DIGITAL

Resolution	Maximum Refresh Rate	Bits per Pixel
640x480	240Hz/240Hz	8, 16, 32
800x600	240Hz/200Hz	8, 16, 32
1024x768	200Hz/140Hz	8, 16, 32
1152x864	170Hz/100Hz	8, 16, 32
1280x720	150Hz/120Hz	8, 16, 32
1280x960	150Hz/85Hz	8, 16, 32
1280x1024	150Hz/85Hz	8, 16, 32
1600x900	120Hz/75Hz	8, 16, 32
1600x1024	100Hz/72Hz	8, 16, 32
1600x1200	120Hz/60Hz	8, 16
1600x1200	100Hz/60Hz	32
1920x1080	100Hz/60Hz in Dual Link Mode	8, 16
1920x1080	85Hz/60Hz in Dual Link Mode	32
1920x1200	100Hz/60Hz in Dual Link Mode	8, 16
1920x1200	85Hz/60Hz in Dual Link Mode	32
1920x1440	85Hz/60Hz in Dual Link Mode	8, 16, 32
2048x1536	85Hz/60Hz in Dual Link Mode	8, 16, 32