

Overview

Models

NVIDIA Quadro FX 3700 PCI-Express Graphics Card

KD506AA

Introduction

The NVIDIA Quadro FX 3700 professional 3D graphics card delivers high-end workstation graphics for CAD, DCC and visualization applications, featuring NVIDIA's new unified architecture.

The Quadro FX 3700 professional graphics card dynamically allocates geometry, shading, pixel processing, and compute power to deliver optimized GPU performance while enabling Energy Star power savings. The reference standard for Shader Model 4.0, the Quadro FX 3700 enables next-generation, ultra-realistic, real-time OpenGL® and DirectX 10 visualization applications. With two dual link DVI connectors, the Quadro FX 3700 also offers the industry's best image quality at resolutions up to 2560 x 1600 @ 60Hz.

The NVIDIA Quadro FX 3700 takes computer-aided design (CAD), digital content creation (DCC), and visualization applications to a new level of interactivity by enabling unprecedented programmability and precision. The industry's leading workstation applications leverage these capabilities to deliver hardware-accelerated features, performance, and quality not found in other professional graphics solutions at this time.

Performance & Features

NVIDIA Unified Architecture

- Shader Model 4.0: Next-Generation Vertex and Pixel Programmability
 - 512MB G-DDR3 graphics memory
 - NVIDIA CUDA™ providing computational capabilities to solve complex, visualization challenges
 - Up to 32x Full-Scene Antialiasing (FSAA)
 - Rotated-Grid FSAA
 - Dual Link DVI-I, Stereo output
 - High Precision Dynamic Range Technology
 - Unlimited vertex & fragment instruction
 - 128-bit IEEE floating-point precision graphics pipeline
 - 32-bit floating point color precision per component
 - Two-sided lighting
 - 3rd-generation occlusion culling
 - Optimized and certified for Cg and Microsoft HLSL
 - Support for OpenGL® 2.1 and DirectX® 10
 - Multi-display productivity
 - PCIe 2.0 (x16 bus)
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Compatibility

The NVIDIA Quadro FX 3700 is supported on the following HP Personal Workstations: xw4600, xw6600, xw8600 and xw9400.

Overview

Service and Support

The NVIDIA Quadro FX 3700 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.

Technical Specifications

Form Factor	ATX
Graphics Controller	NVIDIA NV71GL-U
Bus Type	PCI Express x16
Memory	512 MB 700MHz GDDR3 SDRAM unified frame buffer, Z-buffer and Texture storage
Connectors	2 dual-link DVI-I + 3-pin Mini DIN stereo output
Maximum Resolution	Dual DVI-I output - drives dual digital displays at resolutions up to 2560x1600 @ 60Hz Internal 400MHz RAMDACs - drives dual analog displays up to 2048x1536 @ 85Hz each
RAMDAC	Dual 400MHz integrated
Display Output	Dual integrated analog display controllers supporting up to two analog displays at 2048x1536 @ 85Hz on both displays or dual digital displays at 2560x1600 @ 60Hz. NVIEW advanced multi-display desktop and application management seamlessly integrated into Microsoft® Windows®
Shading Architecture	Fully programmable GPU (OpenGL 2.0/DirectX 9.0c class) Long fragment programs (unlimited instructions) Long vertex programs (unlimited instructions) Looping and subroutines (up to 256 loops per vertex program) Dynamic flow control Conditional execution
Supported Graphics APIs	OpenGL 2.1 DirectX 10.0
Available Graphics Drivers	Genuine Windows Vista Business (64-bit and 32-bit) Microsoft Windows XP Professional (64-bit and 32-bit) Red Hat Enterprise Linux(RHEL) WS3, WS4 & 5 Desktop/Workstation HP qualified drivers may be preloaded or available from the HP support Web site: http://welcome.hp.com/country/us/en/support.html Novell SUSE Linux Enterprise drivers may be obtained from: ftp://download.nvidia.com/novell or http://www.nvidia.com
High-Resolution Antialiasing	256-bit memory interface 128-bit IEEE floating-point precision graphics pipeline 128-bit color precision 32x FSAA dramatically reduces visual aliasing artifacts at resolution up to 1920x1200 Hardware accelerated anti-aliased points and lines Hardware OpenGL overlay planes Hardware accelerated two-sided lighting Hardware accelerated clipping planes 3rd generation occlusion culling 3D volumetric texture support Quad-buffered stereo Dual Link DVI enabling driving digital displays up to 2560x1600 @ 60Hz SLI Link
CUDA™ Parallel Processor Cores	PCA with ATX bracket, DVI to VGA converters, CD and manual

Technical Specifications

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