QuickSpecs

NVIDIA Quadro FX 3400 Graphics Controller

Overview

Models

NVIDIA Quadro FX 3400 PCI-Express graphics controller kit. PB329B
Includes: PCA with ATX bracket, DVI to VGA converter, CD and manual.

Introduction

The NVIDIA Quadro FX 3400 is the industry-leading high-end workstation graphics for CAD, DCC and Scientific applications. Featuring the performance, programmability, precision and quality of Quadro FX products, the Quadro FX 3400 delivers 256MB frame buffer memory, 27.2 GB/s memory bandwidth, 256-bit memory interface and support for ultra high-resolution panels up to 3840x2400 blowing away all competitive workstation products in standard OpenGL workstation benchmarks. The Quadro FX 3400 offers a new level of interactivity for engineers and designers enabling unprecedented performance, features and photo-realistic image quality leading to shorter production cycles and faster time-to-market.

Performance & Features

Features include an array of parallel vertex engines, fully programmable pixel pipelines, a high-speed graphics memory bus, and next-generation crossbar memory architecture:

- 256MB G-DDR3 graphics memory
- Dual Link DVI-I (connector 1) + Single Link DVI-I (connector 2)
- OpenGL quad-buffered stereo
- Rotated-Grid FSAA
- High Precision Dynamic Range Technology
- Unlimited Vertex & Pixel programmability
- 128-bit IEEE floating-point precision graphics pipeline
- 32-bit floating point color precision per component
- Hardware overlays
- Hardware accelerated antialiased points and lines
- Two-sided lighting
- Occlusion culling
- Advanced full-scene antialiasing
- Optimized and certified for OpenGL1.5 and DirectX 9.0 applications
- Multi-display productivity
- PCIe x16 bus

Compatibility

The NVIDIA Quadro FX 3400 is supported on HP xw4200, xw4300, xw6200, xw8200 and xw9300 Workstations.

Service and Support

The NVIDIA Quadro FX 3400 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 NV45GL
Bus Type	PCI-Express x16
Memory	256 MB 450 MHz GDDR3 SDRAM unified frame buffer, Z-buffer and Texture storage
Connectors	2 DVI-I (one dual-link/one single-link) analog/digital monitor outputs, 1 3-pin Mini DIN stereo output
Multi-monitor support	Dual integrated analog display controllers supporting up to two analog displays at 2048x1536 @ 85Hz on both displays or dual digital displays at 1600x1200 (single-link) and 3840x2400 (dual-link). NVIEW advanced multi-display desktop and application management seamlessly integrated into Microsoft® Windows®
RAMDAC	Dual 400 MHz integrated
Architecture features	256-bit memory interface 128-bit IEEE floating-point precision graphics pipeline 128-bit color precision 12-bit sub-pixel precision 8x FSAA at 1920x1200, 4x at 2048x1536, rotated grid FSAA sampling algorithm Hardware accelerated antialiased 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 3840x2400 (24Hz)
Shading architecture	Fully programmable GPU Long fragment programs (up to 65,536 instructions) Long vertex programs (up to 65,536 instructions) Looping and subroutines (up to 256 loops per vertex program) Dynamic flow control Conditional execution
Supported graphics APIs	OpenGL 1.5 DirectX 9.0
Available graphics drivers	HP-tested: Microsoft Windows XP, Windows 2000, and Linux HP qualified drivers may be preloaded or available from the HP support Web site: http://welcome.hp.com/country/us/eng/software_drivers.html.
Maximum Resolution	Dual DVI-I output – drives dual digital displays at resolutions up to 1600x1200 @ 60Hz (single-link) and 3840x2400 @ 24Hz (dual-link). Internal 400MHz RAMDACs – drives dual analog displays up to 2048x1536 @ 75Hz each