

Overview

Models

NVIDIA Quadro FX 3450 PCI-Express graphics controller kit.

PY640AA

Includes: PCA with ATX bracket, DVI to VGA converters, CD and manual.

Introduction

The NVIDIA Quadro FX 3450 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 NVIDIA Quadro FX 3450 delivers 256MB frame buffer memory, 3 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 3450 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
 - High-Precision Dynamic Range Imaging Technology
 - Dual Link DVI-I (connector 1) + Single Link DVI-I (connector 2)
 - SLI support
 - Full support for Vertex and Shader Model 3.0
 - Infinite length vertex and pixel programmability and dynamic flow control
 - 12-bit subpixel precision
 - Rotated-Grid Full-Scene antialiasing
 - OpenGL quad-buffered stereo
 - Advanced high-level shading language support for both OpenGL and DirectX
 - Optimized and certified for OpenGL 2.0 and DirectX. 9.0c
 - Multi-display productivity
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Compatibility

The NVIDIA Quadro FX 3450 is supported on HP xw4300, xw6200, xw8200 and xw9300 Workstations.

Service and Support

The NVIDIA Quadro FX 3450 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 Quadro FX 3450 Workstation GPU
Bus type	PCI-Express x16
Memory	256 MB 450 MHz GDDR3 SDRAM unified graphics memory
Connectors	2 DVI-I (one dual-link/one single-link) analog/digital monitor outputs, 1 3-pin Mini DIN stereo output, DVI-I to VGA adapters included
Multi-monitor support	Dual integrated display controllers supporting up to two analog displays at 2048x1536 @ 75Hz on both displays or dual digital displays at 1920x1200 (single-link) and 3840x2400 (dual-link). NVIEW advanced multi-display desktop and application management seamlessly integrated into Microsoft® Windows®
Architecture features	<ul style="list-style-type: none"> 256-bit memory interface 128-bit IEEE floating-point color precision 12-bit sub-pixel precision 65,536 fragment instruction 65,536 vertex instruction 3D volumetric textures Single-system powerwall 12 pixels per clock rendering engine Hardware accelerated antialiased points and lines Hardware OpenGL overlay planes Hardware accelerated two-sided lighting Hardware accelerated clipping planes 3rd generation occlusion culling 16 textures per pixel in fragment programs Window ID clipping functionality Hardware accelerated line stippling OpenGL Quad-buffered stereo
Shading architecture	<ul style="list-style-type: none"> Fully programmable GPU (OpenGL 2.0/DirectX 9.0c class) 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
High level shader languages	<ul style="list-style-type: none"> Optimized compiler for Cg and Microsoft HLSL OpenGL 2.0 and DirectX 9.0c support Open source compiler
High-resolution antialiasing	<ul style="list-style-type: none"> 12-bit subpixel sampling precision enhances AA quality Rotated-grid full-scene antialiasing (RG FSAA) 8x FSAA dramatically reduces visual aliasing artifacts or "jaggies" at resolution up to 1920x1200
Display resolution support	<ul style="list-style-type: none"> Dual Link DVI-I output-drives digital displays at resolutions up to 3840 x 2400 @ 24Hz Single Link DVI-I output drives digital displays at resolutions up to 1920 x 1200 @ 75Hz Internal 400 MHz DACs – Two analog displays up to 2048x1536 @ 75 Hz each
nView architecture	Advanced multi-display desktop & application management seamlessly integrated into Microsoft Windows.
Supported graphics APIs	<ul style="list-style-type: none"> OpenGL 2.0 ICD with immediate mode support for all OGL primitive types DirectX 9.0c
Available graphics drivers	<ul style="list-style-type: none"> Microsoft Windows XP®, Linux - Full Open GL implementation, complete with NVIDIA and ARB extensions. HP qualified drivers may be preloaded or available from the HP support web site: http://welcome.hp.com/country/us/eng/software_drivers.html.

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