

### Overview

### Models

NVIDIA Quadro FX 3500 PCI-Express graphics controller kit.

ES357AA

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

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### Introduction

The NVIDIA Quadro FX 3500 professional 3D graphics card is a mid-to-high-end workstation graphics for CAD, DCC and Scientific applications, offering 256 MB high bandwidth video memory and ultra-high resolution graphics.

Featuring the performance, programmability, precision and quality of Quadro FX products, the NVIDIA Quadro FX 3500 delivers 256MB frame buffer memory, 42.2 GB/s memory bandwidth, 256-bit memory interface and support for ultra high-resolution panels up to 3840x2400. The Quadro FX 3500 offers a new level of interactivity for engineers and designers enabling exceptional performance, features and photo-realistic image quality leading to shorter production cycles and faster time-to-market.

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### 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
  - Two Dual Link DVI-I + 3-pin Mini DIN stereo output
  - 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 anti-aliased points and lines
  - Two-sided lighting
  - Occlusion culling
  - Advanced full-scene anti-aliasing
  - Optimized and certified for OpenGL® 2.0 and DirectX® 9.0 applications
  - Multi-display productivity
  - PCIe x16 bus
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### Compatibility

The NVIDIA Quadro FX 3500 is supported on HP xw4400, xw6400, xw8400 xw9400 Workstations.

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### Service and Support

The NVIDIA Quadro FX 3500 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

<b>Form Factor</b>	ATX
<b>Graphics Controller</b>	NVIDIA NV71GL-U
<b>Bus Type</b>	PCI Express x16
<b>Memory</b>	256MB 700MHz GDDR3 SDRAM unified frame buffer, Z-buffer and Texture storage
<b>Connectors</b>	2 dual-link DVI-I + 3-pin Mini DIN stereo output
<b>Display resolution support</b>	Dual integrated analog display controllers supporting up to two analog displays at 2048x1536 @ 85Hz 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®
<b>RAMDAC</b>	Dual 400MHz integrated
<b>Architecture features</b>	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 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 3840x2400 (24Hz) SLI Link
<b>Shading architecture</b>	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
<b>Supported graphics APIs</b>	OpenGL 2.0 DirectX 9.0
<b>Available graphics drivers</b>	Microsoft Windows XP Professional qualified drivers may be preloaded or available from the HP support Web site: <a href="http://welcome.hp.com/country/us/eng/software_drivers.html">http://welcome.hp.com/country/us/eng/software_drivers.html</a> .
<b>Maximum Resolution</b>	Dual DVI-I output - drives dual digital displays at resolutions up to 1920x1200 @ 60Hz (single-link) and 3840x2400 @ 24Hz (dual-link).  Internal 400MHz RAMDACs - drives dual analog displays up to 2048x1536 @ 75Hz each

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