

### Overview

### Models

NVIDIA Quadro FX 1500 PCI-Express graphics controller kit.

ES355AA

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

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### Introduction

The NVIDIA Quadro FX 1500 graphics card is a leading mid-range professional 3D graphics option with 256 MB of fast GDDR-3 memory, giving excellent price/performance suitable for CAD, DCC, and visualization applications.

The revolutionary new architecture increases raw geometry and fill rate performance over previous generation products and delivers 40GB/sec. memory bandwidth with support for 256 MB ultra-fast GDDR3 memory. NVIDIA Quadro FX 1500 provides the optimal blend of quality, precision, performance, programmability, and price for professional CAD, DCC, and visualization applications. Featuring HD out and two dual-link DVI connectors, NVIDIA Quadro FX 1500 offers the industry's best image quality at resolutions up to 3840 x 2400.

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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 + 9-pin HDTV Out (HD output cable included)
  - 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
  - PCI-Express x16 bus
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### Compatibility

The NVIDIA Quadro FX 1500 is supported on HP xw4400, xw6400, xw8400, xw9400 Workstations.

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### Service and Support

The NVIDIA Quadro FX 1500 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
<b>Bus Type</b>	PCI Express x16
<b>Memory</b>	256MB GDDR3 SDRAM unified frame buffer, Z-buffer and Texture storage
<b>Connectors</b>	2 dual-link DVI-I + 9-pin HDTV 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). HD-Out component Mode: YPrPB - SMPTE 1080i, 720p, 480p, 576p or composite Mode: NTSC/PAL 480i, 576i 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)
<b>Shading architecture</b>	Fully programmable GPU 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> .

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