

### Overview

## NVIDIA Quadro FX 1300 Graphics Controller

### Models

NVIDIA Quadro FX 1300 PCI-Express graphics controller kit.

PB331A

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

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### Introduction

The NVIDIA Quadro FX 1300 is a mid-range workstation graphics solution for CAD, DCC and Scientific applications. Armed with 128MB DDR memory, 256-bit memory interface, and 17.6 GB/s memory bandwidth, the NVIDIA Quadro FX 1300 delivers performance, advanced features and programmability at the top end of the mid-range performance segment. Tested and certified with all major CAD, DCC and Scientific applications, engineers and animators alike can achieve tremendous productivity from the precision, performance, programmability and quality of the Quadro FX 1300.

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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:

- 128MB DDR graphics memory
  - Dual DVI-I
  - 3-pin mini-din Stereo connector
  - Pixel and vertex programmability
  - 128-bit IEEE floating-point precision graphics pipeline
  - 12-bit sub-pixel precision
  - Hardware overlays
  - Hardware accelerated antialiased points and lines
  - Two-sided lighting
  - Occlusion culling
  - Advanced full-scene antialiasing
  - OpenGL quad-buffered stereo
  - Optimized and certified for OpenGL1.5 and DirectX 9.0 applications
  - Multi-display productivity
  - PCIe x16 bus
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### Compatibility

The NVIDIA Quadro FX 1300 is supported on HP xw4200, xw6200, xw8200 Workstations.

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### Service and Support

The NVIDIA Quadro FX 1300 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 NV38GL
<b>Bus Type</b>	PCI-Express x16
<b>Memory</b>	128 MB 275 MHz DDR SDRAM unified frame buffer, Z-buffer and Texture storage
<b>Connectors</b>	2 DVI-I analog/digital monitor outputs, 1 3-pin Mini DIN stereo output
<b>Multi-monitor support</b>	Dual integrated analog display controllers supporting up to two analog displays at 2048x1536 @ 60Hz on both displays or dual digital displays at 1600x1200 @ 60Hz NVIEW advanced multi-display desktop and application management seamlessly integrated into Microsoft® Windows®
<b>RAMDAC</b>	Dual 400 MHz 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 4x FSAA at 1280x1024 Hardware accelerated antialiased points and lines Hardware OpenGL overlay planes Hardware accelerated two-sided lighting Hardware accelerated clipping planes Hardware accelerated occlusion culling 3D volumetric texture support Quad-buffered stereo
<b>Shading architecture</b>	Fully programmable GPU Optimized compilers for Cg, OpenGL shading language, and Microsoft HLSL
<b>Supported graphics APIs</b>	OpenGL 1.5 DirectX 9.0
<b>Available graphics drivers</b>	HP-tested: Microsoft Windows XP, Windows 2000, and Linux HP 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 1600x1200 @ 60Hz Internal 400MHz RAMDACs – drives dual analog displays up to 2048x1536 @ 75Hz each

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