

### Overview

### Models

DL489A

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### Introduction

The new mid-range NVIDIA Quadro FX 1100 Graphics Controller offers ultimate workstation feature-set and performance. With programmable shaders, dual DVI-I display support and the new nView software, the Quadro FX 1100 represents a revolutionary combination of performance and features, including 128 MB 650 MHz DDR2 memory, nfiniteFX II programmable graphics pipeline and performance optimized OpenGL and DirectX drivers. Features also include a unified memory architecture, which dynamically allocates memory between graphics subsystems, Lightspeed Memory Architecture (LMA) II, which optimally load balances across NVIDIA's patented crossbar memory controller, resulting in maximum memory bandwidth utilization. The Quadro FX 1100 Graphics Controller is a perfect solution for the mid-range CAD and professional DCC user communities requiring excellent application performance.

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### Key Benefits

- 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 OpenGL 1.3/2.0 and DirectX 8/9.
  - Multi-display productivity
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### Compatibility

The NVIDIA Quadro FX 1100 is supported on the following HP Personal Workstations: xw4100, xw6000, xw8000.

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### Service and Support

The NVIDIA Quadro FX 1100 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 NV36GL GPU
<b>Bus Type</b>	AGP 8X Version 3.0 compliant
<b>RAMDAC</b>	Dual 400 MHz integrated
<b>Memory</b>	128 MB 650MHz DDR2 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 2048 x1536 @ 85Hz on both displays Dual external digital display controllers supporting up to 1600 x 1200 @ 60Hz on both displays
<b>Additional product features</b>	128 MB DDR2 SDRAM unified frame buffer, Z-buffer and Texture storage 128 KB BIOS 3.3V Flash ROM reprogrammable by SW Hardware Overlay Planes Hardware two-sided lighting Hardware accelerated antialiased points and lines Quad-buffered Stereo Diamond exit rule line rasterization for improved line quality 3D Texture support Occlusion Culling Compliant with Microsoft®/Intel® PC2001 Workstation requirements Video Timings compliant with VESA DMT 1.0 and VESA GTF 1.0 specifications DDC2B+ Monitor support on all OS platforms ACPI Version 1.0b Power Management support (all modes)
<b>AGP1x/2x/4x/8x Version 3.0 compliant including</b>	Sideband Addressing AGP Texturing (Execute Mode) Fast writes support
<b>NV35GL GPU featuring:</b>	425 MHz engine clock rate 325 MHz memory clock rate 128-bit memory interface VGA controller 128-bit precision throughout the graphics pipeline 12 bit sub-pixel precision nfiniteFX II programmable vertex and pixel shader technology
<b>Supported graphics APIs</b>	OpenGL 2.0 ICD with immediate mode support for all OGL primitive types DirectX 8,9
<b>Available graphics drivers</b>	Microsoft: Windows® XP, Windows 2000 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> .

#### MONITOR 1, 2 ANALOG/DIGITAL

NVIDIA Quadro FX 1100 Graphics Card display resolutions & refresh rates	Resolution	Maximum Refresh Rate	Bits per Pixel
	640x480	240Hz/240Hz	8, 16, 32
	800x600	240Hz/200Hz	8, 16, 32
	1024x768	200Hz/140Hz	8, 16, 32
	1152x864	170Hz/100Hz	8, 16, 32
	1280x720	150Hz/120Hz	8, 16, 32
	1280x960	150Hz/85Hz	8, 16, 32
	1280x1024	150Hz/85Hz	8, 16, 32
	1600x900	120Hz/75Hz	8, 16, 32
	1600x1024	100Hz/72Hz	8, 16, 32
	1600x1200	120Hz/60Hz	8, 16
	1600x1200	100Hz/60Hz	32
	1920x1080	100Hz/na	8, 16
	1920x1080	85Hz/na	32
	1920x1200	100Hz/na	8, 16
	1920x1200	85Hz/na	32
	1920x1440	85Hz/na	8, 16, 32
	2048x1536	85Hz/na	8, 16, 32

### *Technical Specifications*

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