

### Overview

## NVIDIA Quadro FX 1100 Graphics Controller

### 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

|   |  |
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| <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<br>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<br>128 KB BIOS 3.3V Flash ROM reprogrammable by SW<br>Hardware Overlay Planes<br>Hardware two-sided lighting<br>Hardware accelerated antialiased points and lines<br>Quad-buffered Stereo<br>Diamond exit rule line rasterization for improved line quality<br>3D Texture support<br>Occlusion Culling<br>Compliant with Microsoft®/Intel® PC2001 Workstation requirements<br>Video Timings compliant with VESA DMT 1.0 and VESA GTF 1.0 specifications<br>DDC2B+ Monitor support on all OS platforms<br>ACPI Version 1.0b Power Management support (all modes) |
| <b>AGP1x/2x/4x/8x Version 3.0 compliant including</b> | Sideband Addressing<br>AGP Texturing (Execute Mode)<br>Fast writes support   |
| <b>NV35GL GPU featuring:</b>                          | 425 MHz engine clock rate<br>325 MHz memory clock rate<br>128-bit memory interface<br>VGA controller<br>128-bit precision throughout the graphics pipeline<br>12 bit sub-pixel precision<br>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<br>DirectX 8,9  |
| <b>Available graphics drivers</b>                     | Microsoft: Windows® XP, Windows 2000<br>HP qualified drivers may be preloaded or available from the HP support Web site:<br><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      |

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