

Overview

Models

NVIDIA Quadro FX 1700 512 MB PCIe Graphics Card

GP529AA

NVIDIA HD component breakout cable (provides Component, Composite and S-Video outputs)

GU096AA

Introduction

The NVIDIA Quadro FX 1700 graphics card is a leading mid-range professional 3D graphics option with 512 MB of fast memory, giving excellent price/performance suitable for CAD, DCC, and visualization applications.

The NVIDIA Quadro FX 1700 graphics card delivers exceptional performance, quality, and price for professionals. Featuring a revolutionary unified architecture, Quadro FX 1700 dynamically allocates geometry, shading, pixel, and compute processing power to deliver optimized GPU performance while consuming significantly less power. With a C programming environment, Quadro FX 1700 is certified on all industry-leading CAD, DCC, and visualization applications.

Performance & Features

Features include an array of parallel vertex engines, fully programmable pixel pipelines, a high-speed graphics memory bus, and next-generation memory architecture:

- 512 MB 400 MHz DDR-2 graphics memory
- DVI-I (dual-link) and DVI-I (single-link) and HD-out
- Optimized for OpenGL® 2.1 and DirectX® 10 applications
- Multi-display productivity

Compatibility

The NVIDIA Quadro FX 1700 is supported on the following HP Personal Workstations: xw4550, xw4600, xw6600, xw8600 and xw9400.

Service and Support

The NVIDIA Quadro FX 1700 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

Form Factor	ATX
Bus Type	PCI Express x16
Memory	512 MB 400 MHz DDR2 SDRAM unified frame buffer, Z-buffer and Texture storage
Connectors	DVI-I (dual-link) and DVI-I (dual-link) and HD-out (a separate cable - not included - is required to use HD TV monitors)
Maximum Resolution	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).
RAMDAC	Integrated dual 400MHz
Display Output	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®
Shading Architecture	Fully programmable GPU (OpenGL 2.1/DirectX 10 class) Vertex/Pixel Shader 4.0 Shading Support (HLSL, GLSL, CgFX)
Supported Graphics APIs	OpenGL 2.1 & SM4.0 and DirectX10 Support
Available Graphics Drivers	Genuine Windows Vista Business (64-bit and 32-bit) Microsoft Windows XP Professional (64-bit and 32-bit) Red Hat Enterprise Linux(RHEL) WS3, WS4 & 5 Desktop/Workstation HP qualified drivers may be preloaded or available from the HP support Web site: http://welcome.hp.com/country/us/en/support.html Novell SUSE Linux Enterprise drivers may be obtained from: ftp://download.nvidia.com/novell or http://www.nvidia.com
High-Resolution Antialiasing	PureVideo 2 engine supports AES 128-bit decryption GPU Computing (HW/SW including CUDA SDK) 3D Textures LightSpeed Memory Architecture II 128-bit color precision Hardware accelerated anti-aliased points and lines Hardware OpenGL overlay planes H/W accelerated pixel readback 3rd generation occlusion culling AA on scan-out
CUDA™ Parallel Processor Cores	PCA with ATX bracket, DVI to VGA converters, CD and manual.
Power consumption	<75 W

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