

Overview

Models

NVIDIA Quadro FX 540 PCI-Express graphics card kit.

PH791A

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

Introduction

Designed for entry level professional 3D applications, the NVIDIA Quadro FX 540 delivers on value without compromising on quality, precision, performance, and programmability. The Quadro FX 540 provides all the Quadro FX family's advanced features, benefits and certifications on a wide set of CAD, DCC, and scientific visualization applications, plus support for HD component output. The NVIDIA Quadro FX 540 features 128 MB DDR memory, 128-bit memory interface and 8.8 GB/s memory bandwidth.

Performance & Features

Features include a unified memory architecture, which dynamically allocates memory between graphics subsystems. Lightspeed Memory Architecture (LMA) II optimally load balances across NVIDIA's patented crossbar memory controller, resulting in maximum memory bandwidth utilization. Other features include:

- 128 MB DDR
 - Single DVI, single VGA, and HD component output
 - Third-generation pixel and vertex programmability
 - 128-bit IEEE floating-point precision graphics pipeline
 - 128-bit color precision
 - 12-bit sub-pixel precision
 - 65,536 fragment instruction/65,536 vertex instruction
 - 3D volumetric textures
 - Hardware OpenGL overlays
 - Hardware accelerated antialiased points and lines
 - Hardware accelerated two-sided lighting
 - Hardware accelerated clipping planes
 - 3rd generation occlusion culling
 - Rotated Grid full-scene antialiasing (4x)
 - Optimized and certified for OpenGL 1.5 and DirectX 9.0c applications
 - Multi-display productivity
 - PCIe x16 BUS
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Compatibility

The NVIDIA Quadro FX 540 is supported on HP xw4200, xw4300, xw6200, xw8200 and xw9300 Workstations.

Service and Support

The NVIDIA Quadro FX 540 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, 4.376" x 7.0" Single slot
Graphics Controller	NVIDIA NV43GL
Bus Type	PCI-Express x16, <75W power consumption
RAMDAC	Dual 400 MHz integrated
Memory	128 MB 275 MHz DDR SDRAM unified frame buffer, Z-buffer and Texture storage 8.8 GB/sec graphics memory bandwidth
Connectors	DVI + VGA + 10-pin HDTV Out (HD cable purchased separately)
Multi-monitor support	Integrated analog display controller supporting one analog display at 2048x1536 @ 75Hz, one digital display at 1600x1200 @ 60Hz.
Additional product features	128 KB BIOS 3.3V Flash ROM reprogrammable by SW Hardware accelerated Overlay Planes Hardware accelerated two-sided lighting Hardware accelerated antialiased points and lines 3D Volumetric Texture support Hardware accelerated 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)
Shading architecture	Fully programmable GPU (OpenGL1.5/DirectX 9.0c class) Long fragment programs (up to 65,536 instructions) Long vertex programs (up to 65,536 instructions) Looping and subroutines (up to 256 loops per vertex program) Dynamic flow control Conditional execution Optimized compilers for Cg, OpenGL shading language, and Microsoft HLSL
Supported graphics APIs	OpenGL 1.5 ICD with immediate mode support for all OGL primitive types DirectX 9.0c
Available graphics drivers	HP-tested: Microsoft Windows® XP, Windows 2000, and Linux HP qualified drivers may be preloaded or available from the HP support Web site: http://welcome.hp.com/country/us/eng/software_drivers.html .
Maximum Resolution	DVI output - drives digital display at resolutions up to 1600x1200 @ 60Hz Internal 400MHz RAMDACs - drives dual analog displays up to 2048x1536 @ 75Hz each

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