

Overview

Models

NVIDIA Quadro NVS 450 512MB PCIe Graphics Card

FH519AA

Introduction

The NVIDIA® Quadro® NVS 450 business graphics solution delivers a reliable hardware and software platform for a stable environment and robust IT management tools for seamless enterprise deployment. Featuring NVIDIA® nView® multi-display technology and support for up to four displays, business professionals can maximize productivity through increased desktop real estate and advanced application management tools. Quadro NVS 450 is certified on leading business applications and designed to meet the needs of today's most demanding business user.

Performance and Features

NVIDIA® nView® Advanced-Display Software:

The nView Advanced Display Software delivers maximum flexibility for single-large display or multi-display options, providing unprecedented end-user control of the desktop experience for increased productivity.

NVIDIA Unified Architecture:

Industry's first unified architecture designed to dynamically allocate GPU resources to deliver optimized performance.

Unified Driver Architecture (UDA):

Part of the NVIDIA Forceware unified software environment (USE). The NVIDIA UDA guarantees forward and backward compatibility with software drivers. Simplifies upgrading to a new NVIDIA product because the latest driver supports all current NVIDIA products.

Quad DisplayPort:

Capable of driving quad ultra high resolution displays at 2560x1600.

High Digital Display Resolution:

Internal TMDS transmitters and 400MHz RAMDAC(s) deliver crystal-clear image quality for the high resolution digital displays.

Ultimate Image Quality:

Quadro NVS graphics products deliver the industry's best image quality, sharpness and pixel tracking for analog LCDs, DLPs and plasma displays with resolutions up to 2048 x 1536

EnergyStar Enabling Design:

Enables EnergyStar compliance with low maximum and low idle power levels.

PCI Express 2.0 Compliant:

Doubles the data transfer rate up to 5 GT/sec per lane for an aggregate bandwidth of 16 GB/sec bi-directional (8 GB/sec in each direction).

Integrated TMDS Transmitters:

Enable support for the latest digital flat panel (DFP) displays.

Essential for Microsoft Windows Vista:

Offering an enriched 3D user interface, increased application performance, and the highest image quality, NVIDIA Quadro graphics boards and NVIDIA® OpenGL ICD drivers are optimized for 32- and 64-bit architectures to enable a smooth Windows Vista experience.

Overview

NVIDIA® CUDA™ Parallel Computing Processor:

A parallel computing processor architecture exposed through a C language environment and tool suite in combination with high performance visualization, CUDA unleashes new capabilities to solve highly complex challenges such as real-time ray tracing, video encoding, and interactive volume rendering.

Compatibility

The Quadro NVS 450 is supported on the following HP Personal Workstations: xw4600, xw6600, xw8600 and xw9400.

Service and Support

The NVIDIA Quadro NVS 450 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 Full Height, 1/2 length Passive cooling
Graphics Controller	Graphics Controller
Bus Type	PCI Express x16, Generation 2.0
Memory	512 MB GDDR3 (256MB per GPU)
Connectors	Four DisplayPort, DisplayPort to DVI-D adapters included
Maximum Resolution	DisplayPort connectors support ultra-high-resolution panels (up to 2560 x 1600)
RAMDAC	
Ring Bus Memory Controller	
Image Quality Features	
Avivo Video and Display Platform	
Programmable Video Processor	
Display Output	
Shading Architecture	
Supported Graphics APIs	OpenGL 2.1 Direct X 10.0
Available Graphics Drivers	Genuine Microsoft Windows Vista(64-bit and 32-bit), Microsoft Windows XP Professional(64-bit and 32-bit) Red Hat Enterprise Linux(RHEL) WS4 & 5 Desktop/Workstation HP qualified drivers may be preloaded or available from the HP support web site: http://welcome.hp.com/country/us/eng/software_drivers.html . Novell SUSE Linux Enterprise drivers may be obtained from: ftp://download.nvidia.com/novell or http://www.nvidia.com
High-Resolution AntiAliasing	
High-level Shader Languages	
Option kit contents	
Power consumption	35 Watts

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