

### Overview

### Models

NVIDIA Quadro NVS 290 256 MB PCIe Graphics Card with 'DMS-59 to Dual DVI cable' included - for Workstations	GN502AA
HP 'DMS-59 to Dual VGA' Cable Kit	GS567AA

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### Introduction

The NVIDIA Quadro NVS 290 256 MB PCIe Graphics card is a dual-head graphics card delivering next-generation multi-display capabilities to professional 2D applications.

NVIDIA Quadro NVS 290 dual-display business graphics solution delivers a reliable platform for a stable environment. Featuring optimized GPU performance and built for Microsoft® Vista® Premium, Quadro NVS 290 offers compatibility with industry-leading business applications. With NVIDIA® nView™\* display technology\*, business professionals leverage advanced display features. Quadro NVS 290 offers superb image quality to meet the needs of today's demanding business user.

Easily installed with a setup wizard, this controller integrates seamlessly with the Microsoft Windows environment. nView - NVIDIA's multi-display software - lets you fully operate on dual displays and create up to 32 individual desktops.

The NVS 290 includes 256 MB of graphics memory.

\* NVIDIA nView™ will be available for Microsoft® Vista® Spring 2008.

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### Performance and Features

- View your work on two monitors with nView multi-display software and create up to 32 individual desktops
  - Includes 256 MB of graphics memory
  - Delivers crystal-clear images via dual 400-MHz RAMDACs
  - Easy to install
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### Compatibility

The NVIDIA Quadro NVS 290 256 MB PCIe Graphics Card is supported on the following HP Personal Workstations: Z400, Z600, Z800, xw4550, xw4600, xw6600, xw8600 and xw9400, as well as the HP dc72 Blade Workstation Client.

The NVIDIA Quadro NVS 290 (256 MB DH) PCIe Graphics Card does not support dual-link capable monitors (30" or higher LCD monitors).

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### Service and Support

Your Option Limited Warranty is a one (1) year (HP Option Limited Warranty Period) parts replacement warranty on any HP-branded or Compaq-branded options (HP Options). If your HP Option is installed in an HP Hardware Product, HP may provide warranty service either for the HP Option Limited Warranty Period or the remaining Limited Warranty Period of the HP Hardware Product in which the HP Option is being installed, whichever period is the longer but not to exceed three (3) years from the date you purchased the HP Option.

### Technical Specifications

<b>Form Factor</b>	Low Profile
<b>Bus Type</b>	PCIe x16
<b>Memory</b>	256 MB 400 MHz DDR2 SDRAM unified frame buffer, Z-buffer and Texture storage
<b>Connectors</b>	DMS-59, includes DMS-59 to Dual DVI-I cable. DMS-59 to Dual VGA cable available as an option.
<b>Maximum Resolution</b>	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). NVIEW advanced multi-display desktop and application management seamlessly integrated into Microsoft® Windows®
<b>RAMDAC</b>	Integrated dual 400 MHz
<b>Image Quality Features</b>	Full-screen, full-frame video playback of HDTV and DVD content DVD-ready motion compensation for MPEG-2 Independent hardware color controls for video overlay Hardware color-space conversion (YUV 4:2:2 and 4:2:0) IDCT motion compensation 5-tap horizontal by 3-tap vertical filtering 8:1 up/down scaling
<b>Supported Graphics APIs</b>	OGL 2.1 & DX10 Support; Shader Model 4.0
<b>Available Graphics Drivers</b>	Genuine Windows Vista Business (64-bit and 32-bit), Microsoft Windows XP Professional (64-bit and 32-bit) (Provides full native Dual View mode, Span or Big Desktop mode, and Clone mode) Red Hat Enterprise Linux(RHEL) WS3, WS4 & 5 Desktop/Workstation HP qualified drivers may be preloaded or available from the HP support Web site: <a href="http://welcome.hp.com/country/us/en/support.html">http://welcome.hp.com/country/us/en/support.html</a> Novell SUSE Linux Enterprise drivers may be obtained from: <a href="ftp://download.nvidia.com/novell">ftp://download.nvidia.com/novell</a> or <a href="http://www.nvidia.com">http://www.nvidia.com</a>
<b>High-Resolution Antialiasing</b>	Color planes: 32-bit color buffer Overlay planes: Hardware supported
<b>CUDA™ Parallel Processor Cores</b>	NVIDIA Quadro NVS 290 (256 MB DH) PCIe Graphics Card with full height bracket attached, DMS-59 to Dual DVI cable, Workstation Software Driver CD, documentation.

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