

Overview

Models

NVIDIA Quadro NVS 280 PCI Graphics - HP Business Desktops	DY599A
NVIDIA Quadro NVS 280 PCI Graphics - HP Workstations	AA932A
HP DMS59 DVI Dual-head Connector Cable	DL139A

Introduction

The NVIDIA Quadro NVS 280 PCI Graphics Controller is a low profile graphics card for professional 2D graphics, able to support dual monitors.

Easily installed with a setup wizard, this controller integrates seamlessly with the Microsoft® Windows® environment. NVIDIA's multi-display software, nView, lets users fully operate on dual displays and create up to 32 individual desktops. The NVIDIA Quadro NVS 280 PCI Graphics Controller delivers workstation graphics productivity with stability, high image quality, and fast performance.

The NVIDIA Quadro NVS 280 PCI Graphics Controller is ideal for desktop users such as telesales-center representatives or advanced Excel spreadsheet analysts who require the flexibility of dual-monitor displays.

If you are using a workstation, it is tested for compatibility with all major financial, non-linear editing (NLE), and electronic design automation (EDA) applications. It provides great flexibility if you need support for dual analog or digital displays.

NOTE: Graphics cards use part of the total system memory (RAM) for graphics performance. System memory dedicated to graphics performance is not available for other use by other programs

Key Benefits

- Permits work to be viewed on two monitors with nView multi-display software
 - Dual 350-MHz RAMDACs deliver crystal-clear images
 - Dual TMDS transmitters support the latest flat-panel displays
 - Single high-density connector supports dual analog or digital displays
 - Unified driver architecture (UDA) provides easy installation and manageability
 - DirectX 9.0 support in hardware for optimal performance in DX9 applications
 - OpenGL 1.5 support in hardware for optimal performance with OpenGL applications
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Performance

The NVIDIA Quadro NVS 280 PCI Graphics Card is optimized for professional 2D Workstation and HP Business Desktop PC configurations. It comes with enhanced, customized multi-display drivers, including nView multi-display desktop and application management software.

Compatibility

The NVIDIA Quadro NVS 280 PCI Graphics Controller (DY599A) is compatible with the HP Business Desktop dx5150, dx7300, dc5100, dc5700, dc7600 and dc7700 series PCs and the rp5000 and rp5700 Point of Sale Systems.

NOTE: Not all models are available in all regions.

Overview

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

Form Factor	NVIDIA Quadro NVS 280 64MB PCI Dual Head Low profile, both ATX and low profile brackets included
Graphic Controller	Integrated Quadro 280 2D graphics processor unit (GPU)
Dimensions	Low-profile, 2.586 x 6.6 in (6.57 x 16.76 cm)
Bus type	PCI
RAMDAC	Dual 350 MHz (integrated)
Memory	64 MB DDR with frame buffer and Texture storage
Connector	Single high-density DMS-59 Flex Connector
Dimensions	Low-profile, 2.586 x 6.6 in (6.57 x 16.76 cm)
Controller clock speed	250 MHz*
Color depth	32 bits/pixel max
Overlay planes	One 16-bit Video overlay plane
Maximum vertical refresh rate	85 Hz
Multi-monitor support	Dual analog or digital monitors
Single DVI Support	Yes
Dual DVI Support	Yes
High-definition Video Processor (HDVP)	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
Available graphics drivers	Windows Vista Business 64*, Windows Vista Business 32*, Windows Vista Home Basic 32*, Windows XP Professional or Windows XP Home 32*. No driver is required for this device. Native support is provided by the operating system.

* Certain Windows Vista product features require advanced or additional hardware. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: <http://www.windowsvista.com/upgradeadvisor>. For Windows Vista system requirements, visit: <http://www.windowsvista.com/systemrequirements>.

HP qualified drivers may be preloaded or available from the HP support Web site:
<http://www.hp.com/country/us/en/support.html?pageDisplay=drivers>

Technical Specifications

Analog Resolution	Maximum Refresh Rate
640 x 480	85 Hz
800 x 600	85 Hz
1024 x 768	85 Hz
1280x1024	85 Hz
1600 x 1200	85 Hz
1920 x 1080	85 Hz
1920 x 1200	85 Hz
1920 x 1200	85 Hz
1920 x 1440	85 Hz
2048 x 1536	75 Hz

Digital Resolution	Maximum Refresh Rate
640 x 480	60 Hz
800 x 600	60 Hz
1024 x 768	60 Hz
1152 x 864	60 Hz
1280 x 1024	60 Hz
1600 x 1200	60 Hz

* Earlier models ran at 275 MHz.

Option kit Contents NVIDIA Quadro NVS 280 PCI Graphics Card with full height bracket attached, DMS 59 to dual VGA Y cable, low profile bracket, Desktop Software Driver CD, documentation.

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