QuickSpecs

NVIDIA Quadro NVS 280 PCI-E Graphics Controller

Overview

Models

NVIDIA Quadro NVS 280 PCI-Express graphics controller kit.   DY650A
Includes: PCA with ATX & low-profile brackets, VGA pigtail cable, CD and manual.
Optional Cable Kit: DL139A
DMS-59 to Dual DVI Cable Kit for NVIDIA NVS series graphics cards

Introduction

The award wining Quadro NVS series is the standard for corporate graphics. Quadro NVS 280 PCI-E is a low-profile dual display graphics card with 64MB DDR memory that delivers tremendous flexibility with support for dual-analog and/or digital displays. The NVIDIA Quadro NVS series provides rock-solid hardware that delivers ultra-sharp images at the highest resolution and refresh rates. It is tested for compatibility with all major financial, non-linear editing (NLE), and electronic design automation (EDA) applications. Combined with NVIDIA's nView multi-display technology, Quadro NVS provides corporate IT departments unprecedented control of the desktop experience.

The NVIDIA Quadro NVS 280 PCI-E Graphics Controller together with HP workstations deliver productivity with stability, high image quality, and fast performance.

Performance & Features

The NVIDIA Quadro NVS 280 PCI-E Graphics Controller is optimized for professional 2D workstation configurations. It comes with enhanced, customized multi-display drivers, including nView multi-display desktop and application management software. Key features include:

* 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 monitors, up to 1600 x 1200 on both displays
* Single high-density connector supports dual-analog or digital (with optional cable) displays
* Unified driver architecture (UDA) provides easy installation and manageability

Compatibility

The NVIDIA Quadro NVS 280 PCI-E graphics controller is supported on the following HP Personal Workstations: xw4200, xw4300, xw6200, xw8200 and xw9300.

Service and Support

The NVIDIA Quadro NVS 280 PCI-E 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	Low profile, both ATX and low profile brackets included
Graphics Controller	Integrated Quadro 280 2-D graphics processor unit (GPU)
Bus Type	PCI-Express x16
RAMDAC	Dual 350 MHz integrated
Memory	64 MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage
Connectors	Single High-density DMS-59 Flex Connector
Multi-monitor support	Dual integrated analog display controllers supporting up to two analog displays at 2048x1536 @ 60Hz or two digital displays at 1600x1200 @ 60Hz

Additional product features	Controller clock speed	250 MHz
	Color planes	32-bit color buffer
	Overlay planes	1 16-bit Video overlay plane
	Maximum vertical refresh rate	85 Hz
	Dual DVI Support	Yes (with kit DL139A)
	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
		5-tap horizontal by 3-tap vertical filtering
		8:1 up/down scaling

PCI Express	Supports X16 PCIe
Available graphics drivers	Microsoft Windows® XP, Windows 2000 (Provides full native Dual View mode, Span or Big Desktop mode, and Clone mode) HP qualified drivers may be preloaded or available from the HP support Web site: http://welcome.hp.com/country/us/eng/software_drivers.html.

NVIDIA Quadro NVS 280 PCI-E Graphics Controller display resolutions & refresh rates	Analog Resolution	Maximum Colors Supported	Maximum Refresh Rate
	640 x 480	16.7 M	240 Hz
	800 x 600	16.7 M	240 Hz
	1024 x 768	16.7 M	240 Hz
	1152 x 864	16.7 M	170 Hz
	1280 x 1024	16.7 M	150 Hz
	1600 x 1200	16.7 M	100 Hz
	1920 x 1080	16.7 M	85 Hz
	1920 x 1200	16.7 M	85 Hz
	1920 x 1440	16.7 M	75 Hz
	2048 x 1536	16.7 M	60 Hz
	Digital Resolution	**Maximum Colors Supported**	**Maximum Refresh Rate**
	640 x 480	16.7 M	75 Hz
	800 x 600	16.7 M	75 Hz
	1024 x 768	16.7 M	75 Hz
	1152 x 864	16.7 M	60 Hz
	1280 x 1024	16.7 M	60 Hz

Technical Specifications

| 1600 x 1200 | 16.7 M | 60 Hz |