QuickSpecs

Overview

Models

NVIDIA NVS 300 PCIe x16 512MB Graphics Card	BV456AA
NVIDIA NVS 300 PCIe x1 512MB Graphics Card	BV457AA
Optional Cable Kit: DMS-59 to Dual DVI Cable Kit for NVIDIA NVS series graphics	DL139A

Introduction

The NVIDIA NVS 300 PCIe Graphics Cards are low profile, dual-head graphics cards delivering next-generation multi-display capabilities to professional business and commercial applications.

If you require a graphics card for use with desktops in a telesales-center environment, or frequently analyze spreadsheets requiring the flexibility of dual-monitor displays, NVIDIA NVS 300 PCIe Graphics Cards are the ideal solution for you. Easily installed with a setup wizard, this controller integrates seamlessly with the Microsoft Windows environment. nView – NVIDIAs multi-display software, enhances your productivity in single or multi-display environments by allowing you to take advantage of features like Gridlines & Virtual Desktops (For e.g. 'Virtual Desktops' allows an end user to create up to 32 individual desktops)

The NVIDIA NVS 300 PCIe Graphics Cards are also GPU computing ready. They are capable of enhancing system performance if used in conjunction with applications that support GPU computing through DirectCompute, CUDA, or OpenCL frameworks.

The NVIDIA NVS 300 PCIe Graphics Cards include 512MB of DDR3 graphics memory. A minimum system memory configuration of 1GB is needed to support this card.

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

- View your work on two monitors with nView multi-display software and create up to 32 individual desktops(using 'Virtual Desktops' with nView)
- Compatible with all major financial, non-linear editing (NLE), and electronic design automation (EDA) applications
- Includes 512 MB of dedicated DDR3 graphics memory
- Deliver crystal-clear images via dual 400-MHz RAMDACs
- Supports the latest flat-panel displays, dual analog or digital displays
- Robust IT management tools for seamless installation, deployment and maintenance
- Passive heatsink for silent operation
- DirectX 10.1 support in hardware for optimal performance in DX10 applications
- OpenGL 3.3 support in hardware for optimal performance with OpenGL applications

Performance

The NVIDIA NVS 300 PCIe Graphics Cards are optimized for HP Business Desktop PC configurations. Included are enhanced, customized multi-display drivers, including nView multi-display desktop and application management software.

Overview

Compatibility

The NVIDIA NVS 300 PCIe x16 VGA Graphics Card is compatible with the HP Compaq 4000 Pro SFF, HP Compaq 6200 Pro MT, HP Compaq 6200 Pro SFF, HP Compaq 6000 Pro MT, HP Compaq 6000 Pro SFF, HP Compaq 6005 Pro MT, HP Compaq 6005 Pro SFF, HP Compaq dc7900 CMT, HP Compaq 8000 Elite SFF, HP Compaq 8000 Elite CMT, HP Compaq 8100 Elite SFF, HP Compaq 8100 Elite CMT, HP Compaq 8200 Elite SFF, HP Compaq 8200 Elite CMT

The NVIDIA NVS 300 PCIe x1 Graphics Card is compatible with the HP Compaq 4000 Pro SFF, HP Compaq 6000 Pro MT, HP Compaq 6000 Pro SFF, HP Compaq 6200 Pro MT, HP Compaq 6200 Pro SFF, HP Compaq 8000 Elite SFF, HP Compaq 8000 Elite CMT, HP Compaq 8100 SFF, HP Compaq 8100 Elite CMT, HP rp5700 Point of Sale

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.

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Technical Specifications

NVIDIA NVS 300 PCIe Graphics Cards		
	Bus type	PCIe x16 or PCIe x1
	Form Factor	Full height bracket; Can convert to low profile with included bracket
	Graphics Controller	Nvidia GT218 GPU
	Memory	512 MB DDR3
	Output Connector	DMS-59 Connector
	Dimensions	Low-profile, 2.586 x 5.7 in (6.57 x 14.48 cm)
	Multi-monitor support	Dual analog or digital (Single Link DVI) monitors (DVI support requires optional DVI cable kit DL139A
	Board display options	Supports two displays via included DMS-59 to dual VGA cable or 2 DVI monitors via optional DMS-59 to dual single-link DVI-I connectors cable kit part number: DL139A.
	RAMDAC	Dual 400 MHz (integrated)
	Maximum pixel clock (analog)	400 MHz
	Overlay planes	One 16-bit Video overlay plane
	Video Acceleration	DirectX 10.1; OpenGL 3.3, CUDA, DirectCompute
	High-definition Video Processor (HDVP)	Full screen, full frame video playback of HDTV, Blu-Ray and DVD content Inbuilt video decoder for multiple video formats including MPEG2, VC-1, WMV9, H.264, and MVC Capable of decoding dual Video Streams at HD (1080p) resolutions Hardware color-space conversion (YUV 4:2:2 and 4:2:0) High-Quality in-built Filtering/Scaling Stereo & HD Audio (LPCM 7.1) support for HDMI outputs (HDMI via optional DVI-HDMI dongles) with the DMS-59 to DisplayPort Adapter
	Available graphics drivers	Windows 7 Home Basic*, Windows 7 Home Premium*, Windows 7 Professional Edition 32*, Windows 7 Professional Edition 64*, Windows 7 Ultimate Edition 32*, Windows 7 Ultimate Edition 64*, Windows Vista Business 64**, Windows Vista Business 32**, Windows Vista Home Basic 32**, Windows XP Professional or Windows XP Home 32** (Provides full native Dual View mode, Span or Big Desktop mode, and Clone mode). * This system may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details. ** 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

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Technical Specifications

Board configuration	Specification	Description
	GPU	GT218
	Core clock	520 MHz
	Memory clock	790 MHz
	Frame buffer	512 MB DDR3, 64 bit wide

Resolution	Maximum Refresh Rate (Hz)	
	Analog Connection	Digital Connection
640x480	85	60
800x600	85	60
1024x768	85	60
1280x720	85	60
1280x1024	85	60
1440x900	75	60
1600x1200	85	60
1680x1050	75	60
1920x1080	85	60-R
1920x1200	85	60-R
1920x1440	85	N/A
2048x1536	75	N/A

NOTE: 60-R denotes reduced blanking timings are used on single-link DVI connections and may be used with other digital connections.

Option kit contents	NVIDIA NVS 300 PCIe x16 512MB Graphics Card or NVIDIA NVS 300 PCIe x1 512MB Graphics Card with full height bracket attached

- DMS 59 to dual VGA Y cable
- Low profile bracket
- Software Driver CD
- Documentation