Overview

Models

NVIDIA NVS300 512MB PCIe Graphics Card   XP612AA

Introduction

The NVIDIA® NVS™ 300 high resolution, multi-display business graphics solution, designed for small and standard form factor systems, delivers reliable hardware and software for a stable business environment. Tested on leading business applications, NVIDIA NVS 300 is capable of driving two VGA, single link DVI, DisplayPort or HMDI displays. With NVIDIA Mosaic and nView® technologies built in, you can span and efficiently manage your entire Windows desktop across multiple displays.

Overview

Performance and Features

Designed, tested, and built by NVIDIA to meet ultra high standards of quality assurance. Fast 512 MB DDR3 graphics memory delivers high throughput to simultaneously play stunning HD video on each connected display. NVIDIA Power Management technology helps reduce the overall system energy cost, by intelligently adapting the total power utilization of the graphics subsystem based on the applications being run by the end user. 16 CUDA GPU parallel computing cores compatible with all CUDA accelerated applications. NVIDIA CUDA provides a C language environment and tool suite that unleashes new capabilities to solve various visualization challenges.

Drive up to two displays:

- Support up to two 1920 x 1200 digital displays with DVI connection
- Support up to two 30" (2560 x 1600) digital displays through optional DMS-59 to DisplayPort adapter
- The nView® Advanced Desktop Software delivers maximum flexibility for single-large display or multi-display options, providing unprecedented end-user control of the desktop experience for increased productivity.
- Expand display configurations with multiple Quadro NVS graphics solutions and NVIDIA nView display software

Energy efficient and quiet design:

- Consumes only 17.5 watts maximum, enabling EnergyStar compliance
- Fanless cooling for a quieter working environment

Robust IT management tools and support:

- The NVIDIA Unified Driver Architecture guarantees forward and backward compatibility with software drivers.
- Profile user settings enable all display and applications to be easily copied and ghosted over multiple systems
- Dedicated enterprise customer support
  - Guidance with any product related questions
  - Assistance for large-scale enterprise system deployment
  - Access to the latest product information, technical documents, and program offerings

Compatibility

The NVIDIA NVS 300 is supported on the following HP Personal Workstations:
- Z210, Z210 SFF, Z400, Z600, Z800.
- Z420, Z620, Z820

This graphics card is also supported on the following Business Desktop PCs:
HP Compaq dc8100 Elite PC, HP Compaq d8000 PC, HP Compaq 6000 Pro Business PC, and HP Compaq 6005 Pro Business PC.

Service and Support

The NVIDIA NVS 300 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	2.7 inches (H) x 5.7 inches (L), Half-Height
Graphics Controller	NVIDIA NVS 300 Graphics Board
Bus Type	PCI Express x16, Generation 2.0
Memory	512 MB GDDR3 SDRAM unified graphics memory
Connectors	DMS-59 Includes DMS-59 to Dual DVI-I adapter DMS-59 to Dual DisplayPort adapter and DMS-59 to Dual VGA adapter available as an option DMS-59 to Dual DisplayPort adapter required for HP ZR30w Display
Maximum Resolution	DVI: two digital displays up to 1920 x 1200 DisplayPort: two digital displays up to 2560 x 1600 VGA: two analog displays up to 1920 x 1080
Image Quality Features	
Display Output	This card support up to two displays:

- Drives DVI enabled digital displays at resolutions up to 1920 × 1200 at 60 Hz with reduced blanking
- Drives DisplayPort enabled digital displays at resolutions up to 2560 × 1600 at 60 Hz with reduced blanking (through optional DMS-59 to DisplayPort adapter)
- Drives VGA enabled analog displays at resolutions up to 1920 x 1080 (through optional DMS-59 to VGA adapter)

Supported Graphics APIs	OGL 3.3 DirectX 10.1
Available Graphics Drivers	Genuine Windows 7 Professional (64-bit and 32-bit) Genuine Windows Vista Business (64-bit and 32-bit) Microsoft Windows XP Professional (64-bit and 32-bit) Red Hat Enterprise Linux(RHEL) 5 Desktop/Workstation Red Hat Enterprise Linux(RHEL) 6 Desktop/Workstation SUSE Linux Enterprise Desktop 11 (64-bit and 32-bit) HP qualified drivers may be preloaded or available from the HP support Web site: http://welcome.hp.com/country/us/en/support.html Novell SUSE Linux Enterprise drivers may also be obtained from: ftp://download.nvidia.com/novell or http://www.nvidia.com
Power Consumption	<18 Watts