Overview

Models

NVIDIA NVS 315 1GB Graphics   E1U66AA

Introduction

The NVIDIA® NVS™ 315 graphics board is a PCI Express low profile form factor graphics add-in card targeted as an active low cost graphics solution for the corporate business and enterprise markets requiring convenient attach to legacy displays.

The NVS 315 graphics card is an ideal solution for customers requiring a small form factor graphics add-in card for either standard or small form factor PC designs.

Overview

Performance and Features

- The NVIDIA NVS 315 graphics board offers 1GB of DDR3 memory and is capable of supporting up to 2 displays (VGA, DVI, or DP) from the single DMS-59 connector output (requires use of appropriate DMS-59 adapter).
- Combined with NVIDIA's nView advanced desktop management software and NVIDIA Mosaic technologies, the NVS 315 is the ideal enterprise class GPU for users that require single large display or multi-display solutions with the best in class acoustics and optimal power.

Compatibility

The NVIDIA NVS 315 is supported on the following platforms:

HP Workstations: Z220 (CMT & SFF), Z230 (CMT & SFF), Z420, Z620, and Z820

Service and Support

The NVIDIA NVS 315 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 (H x L)	Low Profile: 2.713 inches in height × 5.7 inches in length Weight: ~142 grams
Graphic Controller	NVIDIA NVS 315 (using GF119-825 GPU) Number of Cores: 48 CUDA cores Max. Power: 19.3W Cooling Solution: Active fan heatsink
Bus type	PCI Express x16, 2.0 compliant
Memory	Size: 1GB DDR3 Clock: 875Mhz Memory Bandwidth: 14GB/s
Connectors	DMS-59 output Cables included: - For CTO: DMS-59 to DVI cable - For AMO: DMS-59 to DVI cable and DMS-59 to VGA cable
Maximum Resolution	Maximum number of displays supported: 2 Maximum Resolution Support: - DMS-59 to VGA: 2048 x 1536 @ 85Hz - DMS-59 to DVI: 1980 x 1200 @ 60Hz - DMS-59 to DP: 2560 x 1600 @ 60Hz
Image Quality Features	See Display Output section. The following video formats are supported: - MPEG2 - MPEG4 Part 2 Advanced Simple Profile - H.264 SVC codec support - Support for 3D Blu Ray - VC1 - DivX version 3.11 or later A full range of video resolutions are supported including 1080p, 1080i, 720p, 480p and 480i. The NVS 315 GPU provides hardware acceleration for the computationally intensive parts of video processing, as well as provides improved video playback speeds via faster decode and transcode.

Display Output	Up to 2 displays using one of the following DMS-59 cables:
	  DMS-59 to DVI
	  DMS-59 to VGA
	  DMS-59 to DP
	
	DisplayPort output:
	
	● Drives two DisplayPort enabled digital displays at resolutions up to 2560 × 1600 at 60 Hz with reduced blanking, when connected via the DMS-59 to DP adapter.
	
	DVI-D output:
	
	● Drives two digital display at resolutions up to 1920 × 1200 at 60 Hz with reduced blanking using DMS-59 to DVI-D single-link cable adaptor

Technical Specifications

	VGA display output:
	• Drives two analog display at resolutions up to 2048 × 1536 at 85 Hz using DMS-59 to VGA cable adaptor.
Shading Architecture	Shader Model 5.0
Supported Graphics APIs	DX11, OpenGL 4.3
Available Graphics Drivers	Windows 8 Microsoft Windows 7 Professional (64-bit and 32-bit) Microsoft Windows XP Professional (64-bit and 32-bit) Red Hat Enterprise Linux(RHEL) SUSE Linux Enterprise Desktop 11 (64-bit and 32-bit) HP qualified drivers may be preloaded or the latest HP qualified drivers are available from the HP support Web site: http://welcome.hp.com/country/us/en/support.html SUSE Linux Enterprise drivers may also be obtained from: ftp://download.nvidia.com/novell or http://www.nvidia.com
Notes	1. The thermal solution used on this card is an active fan heatsink. 2. Factory configured graphics card includes DMS-59 to DVI cable. 3. Option kit graphics card includes DMS-59 to DVI and DMS-59 to VGA cables (one each).