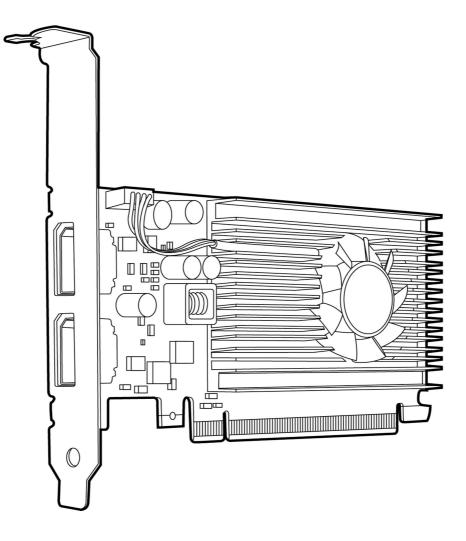
## QuickSpecs

#### Overview



#### Models

NVIDIA® NVS 310 512MB Graphics Card

#### A7U59AA

### Introduction

The NVIDIA<sup>®</sup> NVS<sup>™</sup> 310 Graphics Card 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.

The NVIDIA® NVS 310 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 310 graphics board offers 512 MB of fast DDR3 memory and is capable of supporting up to 2 displays.

Combined with NVIDIA's nView advanced desktop management software and NVIDIA Mosaic technologies, the NVS 310 is the ideal enterprise class GPU for users that require single large display or multi-display management.

#### Compatibility

The NVIDIA NVS 310 is supported on the following platforms:

HP Workstations: Z220, Z230, Z420, Z620, and Z820

HP Business Desktops: HP Compaq 4000 Pro SFF; HP Compaq Pro 4300 Pro SFF; HP Compaq 6005 Pro MT, SFF; HP Compaq Pro 6200 Pro MT, SFF; HP Compaq Pro 6300 Pro MT, HP Compaq Pro 6305 MT, SFF; HP Compaq 8200 Elite SFF, CMT, MT; HP Compaq 8300 Elite CMT, MT, SFF; Pro 3330 MT; Pro 3330 SFF; Pro 3335 MT; Pro 3340 MT; HP EliteDesk 800 G1 TWR; HP EliteDesk 880 G1 SFF; ProDesk 600 G1 TWR; ProDesk 600 G1 SFF.

#### **Service and Support**

The NVIDIA® NVS 310 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.



# QuickSpecs

### **Technical Specifications**

Form Factor (H x L)	Low Profile: 2.713 inches in height × 6.150 inches in length Weight: ~142 grams
Graphic Controller	NVIDIA NVS 310 GPU: GF119-825
Bus type	PCI Express x16, 2.0 compliant
Memory	Size: 512MB DDR3 Clock: 875Mhz Memory Bandwidth: 14GB/s
Connectors	2 x DisplayPort
Maximum Resolution	Up to 2560 x 1600 (digital display) per display.
Image Quality Features	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 and later - MVC A full range of video resolutions are supported including 1080p, 1080i, 720p, 480p and 480i. The NVS 310 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 in the following configurations:
	DisplayPort output:
	<ul> <li>Drives two DisplayPort enabled digital display at resolutions up to 2560 × 1600 at 60 Hz with reduced blanking, when connected natively using the 2 DisplayPort connectors on the NVS 310 graphics card</li> <li>Supports 2 monitors up to resolution of 1920 × 1200 at 60 Hz with reduced blanking using DisplayPort 1.2 multi stream topology technology.</li> </ul>
	DVI-D output:
	<ul> <li>Drives two digital display at resolutions up to 1920 × 1200 at 60 Hz with reduced blanking using DisplayPort to DVI-D single-link cable adaptors</li> <li>Drives two digital display at resolutions up to 2560× 1600 at 60 Hz with reduced blanking using DisplayPort to DVI-D dual-link cable adaptors</li> </ul>
	HDMI output:
	<ul> <li>NVS 310 is capable of driving two high definition (HD) panels up to resolutions of 1920 × 1080P at 60 Hz using DisplayPort to HDMI cable adaptors</li> </ul>
	VGA display output:
	<ul> <li>Drives two analog display at resolutions up to 1920 × 1200 at 60 Hz using DisplayPort to VGA cable adaptors</li> </ul>



# QuickSpecs

#### **Technical Specifications**

Shading Architecture	Shader Model 5.0
Supported Graphics APIs	DX11, OpenGL 4.1
Available Graphics Drivers	Windows 8 Genuine 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
Power Consumption	19.5 Watts
Notes	<ol> <li>The thermal solution used on this card is an active fan heatsink.</li> <li>Factory configured NVS 310 graphics card have no cable adpaters included. Adapters must be ordered separately.</li> <li>Option kit NVS 310 includes 2 DP to DVI-D cable adapters.</li> </ol>

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