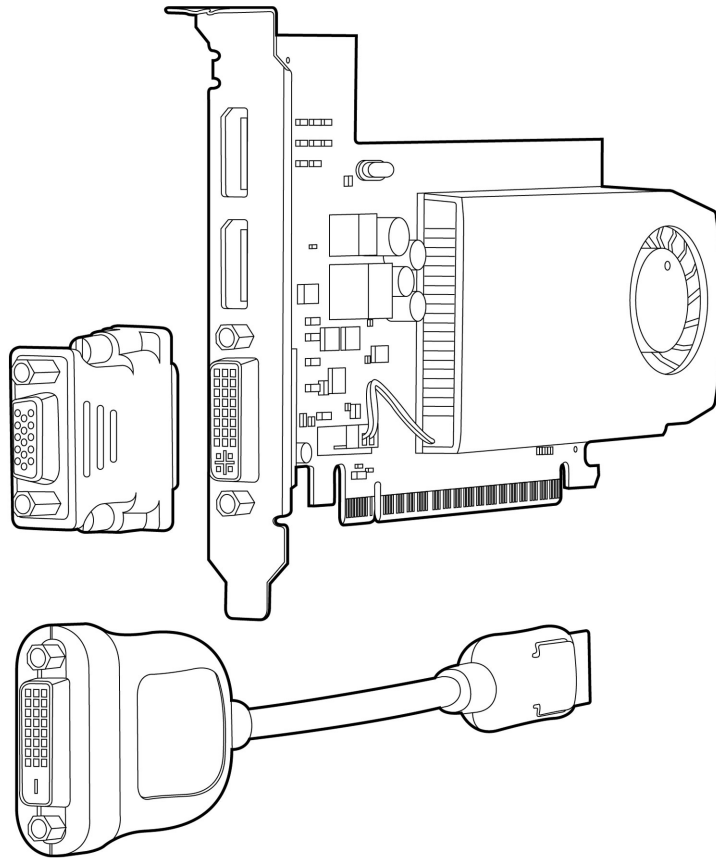


Overview



Models

NVIDIA GeForce GT630 DP (2GB) PCIe x16 Card Graphics Card

B4J92AA

Overview

Introduction

The NVIDIA GeForce GT630 DP (2GB) PCIe x16 Card Graphics Card provides a full height, PCI Express x16 graphics add-in card solution based on the NVIDIA Kepler Architecture GPU. The card is designed to support three display connections through its DVI, and two DisplayPort connectors.

An ideal solution for desktop PC customers seeking enhanced 2D and advanced 3D graphics performance, the NVIDIA GeForce GT630 DP (2GB) PCIe x16 Cards are an excellent choice for business users who want run multiple displays from a single graphics board. Engage in Web conferencing or video or photo editing, while improving your everyday business PC experience with better graphics and excellent visual display quality.

The NVIDIA GeForce GT630 DP (2GB) PCIe x16 Cards deliver superior PCI Express (PCIe) Gen 3 features including:

- Unprecedented flexibility for new applications and enhanced performance
- Support for NVIDIA surround technology
- Run multiple displays from a single graphics card
- Full 16 lane PCIe Generation 3 bus support with peak bandwidth support
- Wireless Display ready for future support

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

- 2 GB of DDR3 dedicated on-board graphics frame buffer memory removing the need to share PC system memory
- Features the latest NVIDIA Kepler Architecture GPU Support
- Run multiple displays from a single graphics board
- DisplayPort 1.2 hardware ready for future multi-monitor support
- Provides Dual-Link (DL) DVI-I and two multimode DisplayPort output ports (useable at the same time)
- Also supports legacy displays using adapters:
 - DVI to VGA adapter (1 included)
 - HP DP to DVI-D adapter FH973AA (1 included)
 - HP DP to HDMI adapter BP937AA (optional)
 - HP DP to VGA adapter AS615AA (optioal)
 - HP DP to dual link DVI-D adapter NR078AA (optional)
- Supports Audio over DisplayPort for users who need audio with video thru the DisplayPort connector. Audio is also supported with the optional HP DP to HDMI adapter (BP937AA).
- Audio is also supported using DVI to HDMI adapters (Adapters not available from HP)
- Conforms to full PCI Express 3.0A specification for full height form factor (x16 lanes native PCI Express implementation)
- HDCP supported on DVI and DisplayPort outputs
- DirectX11 support in hardware for optimal performance in DX11 applications
- OpenGL 4.2 support in hardware for optimal performance with OpenGL applications

NVIDIA GeForce GT630 DP (2GB) PCIe x16 Card

Memory
2 GB DDR3 128 bit

Peak theoretical memory bandwidth
28.5 GB/s

Overview

Compatibility

The NVIDIA GeForce GT630 DP (2GB) PCIe x16 Card is compatible with the HP Compaq 6005 Pro MT, HP Compaq 6200 Pro MT, HP Compaq Pro 6300 MT, HP Compaq Elite 8300 MT/CMT, HP Compaq 8200 Elite MT/CMT, HP Pro 3330 MT, HP Pro 3335 MT, HP Pro 3340 MT.

NOTE: Not all models are available in all regions.

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.

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.

Technical Specifications

Output connectors	1 - Dual link DVI; 2 - Multimode Display Port outputs	
Board display options	Supports three displays	
Board configuration	Specification	Description
	Graphics Chip	NVIDIA Kepler Architecture GPU
	Core clock	875 MHz
	Memory clock	891 MHz
	Frame buffer	2GB DDR3, 128 bit wide
Bus type	PCI Express (x16 lanes) 3.0	
Maximum vertical refresh rate	85 Hz	
Display support	Integrated 400 MHz RAMDAC	
Display max resolution	2560 x 1600 digital, 2048 x 1536 analog	

Display resolutions and refresh rates

NOTE: Other resolutions may be available but are not recommended as they may not have been tested and qualified by HP.

Resolution	Connection	
	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	60*
2048x1536	75	60**
2560x1440	N/A	60**
2560x1600	N/A	60**

* Only supported with a Display Port monitor connection

**Only supported when using a dual link DVI or DP monitor connection.

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

Languages supported	24 languages: English, Arabic, Chinese Simplified, Chinese Traditional, Czechoslovakian, Danish, Dutch, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish
Operating systems support	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

Technical Specifications

Ultimate 32†, Windows Vista Ultimate 64†, Windows Vista Business 32†, Windows Vista Business 64†, Windows Vista Home Basic 32†, Windows Vista Home Basic 64†, Windows XP Professional or Windows XP Home 32†.

*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.

Windows 7 Business disk may be included for future upgrade if desired. To qualify for this downgrade an end user must be a business (including governmental or educational institutions) and is expected to order at least 25 customer systems with the same custom image

† 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>. Linux x86 and x86_64 distributions using XFree86 or X.Org‡.

‡Linux drivers are available from the NVIDIA website and may be available in a Linux distribution. Refer to the Open Source and Linux from HP website: <http://www.hp.com/wwsolutions/linux/products/clients/> for support information.

Core power

Option kit contents

- NVIDIA GeForce GT630 DP (2GB) PCIe x16 Card
- HP Display Port to DVI-D adapter
- DVI to VGA adapter
- Software CD with graphics drivers
- Warranty documentation

Compliance standards

EMC Emissions:

- a) FCC Part 15, Subpart B - Unintentional Radiators, Class B Computing Devices for Home & Office Use
- b) CISPR22: 1997/EN 55022:1998 - Class B - Limits and methods of measurement of radio disturbance characteristics of Information Technology Equipment
- c) Canadian Standard ICES-003 is equivalent to CISPR22
- d) Taiwanese Standard BSMI
- e) Japanese VCCI
- f) Australian C-Tick
- g) Korean (KCC)

EMC Immunity:

CISPR 24:1997/EN 55024:1998 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement.

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