

Overview

Models

ATI Radeon HD 4550 DH PCIe x16 Graphics Card	AT042AA
ATI Radeon HD 4550 (512 MB) DH PCIe x16 Graphics Card	SG764AA

Introduction

The ATI Radeon HD 4550 DH PCIe x16 Graphics Cards provide a low profile, PCI Express x16 graphics add-in card solution based on the ATI RV710 Graphics Processor. These cards support Dual Display video output through its DMS-59 and TV-Out connectors.

An ideal solution for desktop PC customers seeking stable 2D and advanced 3D graphics performance, the ATI Radeon HD 4550 DH PCIe x16 Graphics Cards are an excellent choice for small business users engaging in Web conferencing or video or photo editing, while improving your everyday business PC experience with better graphics and excellent visual display quality.

The ATI Radeon HD 4550 DH PCIe x16 Graphics Cards deliver superior PCI Express (PCIe) features including:

- Unprecedented flexibility for new applications and enhanced performance
- Full 16 lane PCIe bus support with peak bandwidth 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

- 256 MB or 512 MB of DDR3 dedicated on-board graphics frame buffer memory removing the need to share PC system memory.
- ATI RV710 Graphics Processor.
- Conforms to full PCI Express 2.0A specification for low profile form factor (x16 lanes native PCI Express implementation).
- Provides Dual VGA (via DMS-59 connector - DVI kit optional: part number DL139A) and S-video output ports.
- HDCP supported on DVI outputs (DVI Requires optional kit DL139A)
- DirectX 10.1 support in hardware for optimal performance in DX10 applications.
- ATI Avivo technology for improved image and video playback.
- OpenGL 2.0 support in hardware for optimal performance with OpenGL applications

ATI Radeon HD 4550 (256 MB) DH PCIe x16 Graphics Card

<u>Memory</u>	<u>Peak theoretical memory bandwidth</u>
256 MB DDR3 64 bit	12.8 GB/s

ATI Radeon HD 4550 (512 MB) DH PCIe x16 Graphics Card

<u>Memory</u>	<u>Peak theoretical memory bandwidth</u>
512 MB DDR3 64 bit	12.8 GB/s



Overview

Compatibility

The ATI Radeon HD 4550 (256 MB) DH PCIe x16 Graphics Card is compatible with HP Compaq dc5800 Microtower, HP Compaq dc5800 Small Form Factor, HP Compaq dc5850 Microtower, HP Compaq dc5850 Small Form Factor, HP Compaq dc7800 Small Form Factor, HP Compaq dc7800 Convertible Minitower, HP Compaq dc7900 Small Form Factor, HP Compaq dc7900 Convertible Minitower, HP Compaq 6000 Pro Microtower, HP Compaq 6000 Pro Small Form Factor, HP Compaq 6005 Pro Microtower, HP Compaq 6005 Pro Small Form Factor, HP Elite 7000 Microtower, HP Pro 2000 Microtower, HP Pro 3000 Microtower, HP Pro 3000 Small Form Factor, HP Pro 3005 Microtower, HP Pro 3005 Small Form Factor, Compaq 500B Microtower Business PCs.

The ATI Radeon HD 4550 (512 MB) DH PCIe x16 Graphics Card is compatible with the HP Compaq dc7900 Small Form Factor, HP Compaq dc7900 Convertible Minitower, HP Compaq 6000 Pro Microtower, HP Compaq 6000 Pro Small Form Factor, HP Compaq 6005 Pro Microtower, HP Compaq 6005 Pro Small Form Factor, HP Elite 7000 Microtower, HP Compaq 8000 Elite Small Form Factor, HP Compaq 8000 Elite Convertible Minitower, HP Compaq 8100 Elite Small Form Factor, HP Compaq 8100 Elite Convertible Minitower, HP Pro 3000 Microtower, HP Pro 3000 Small Form Factor, HP Pro 3005 Microtower, HP Pro 3005 Small Form Factor, HP Pro 3010 Microtower, HP Pro 3010 Small Form Factor, HP Pro 3110 Microtower, HP Pro 3110 Small Form Factor, HP Pro 3115 Microtower, HP Pro 3115 Small Form Factor, HP Pro 3125 Microtower, HP Pro 3130 Microtower, HP Pro 3130 Small Form Factor, and HP Pro 3090 Microtower Business PCs.

NOTE: The ATI Radeon HD 4550 DH PCIe x16 Graphics Cards do not support Dual-link DVI capable monitors.

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.



Technical Specifications

ATI Radeon HD 4550 (256 MB) DH PCIe x16 Graphics Card

Input/Output connectors	DMS-59 S-video connector	
Board display options	Supports two displays via included DMS-59 to dual VGA cable or 2 DVI monitors via optional DMS-59 to dual DVI cable kit part number: DL139A. 4-pin mini-DIN S-video connector for TV output	
Board configuration	Specification	Description
	Graphics Chip	RV710
	Core clock	600 MHz
	Memory clock	800 MHz
	Frame buffer	256 MB DDR3, 64 bit wide
Bus type	PCI Express (x16 lanes)	
Maximum vertical refresh rate	85 Hz	
Display support	Integrated 400 MHz RAMDAC	
Display max resolution	1900 x 1200 digital, 2048 x 1536 analog	

ATI Radeon HD 4550 (256 MB) DH PCIe x16 Graphics Card 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	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
2560x1600	N/A	N/A

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 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†.



Technical Specifications

*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 ATI's 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

21 W

Option kit contents

- ATI Radeon HD 4550 (256 MB) DH PCIe x16 Graphics Card with full height bracket attached
- DMS 59 to dual VGA Y cable
- Software CD with graphics drivers
- Low profile bracket to convert the card for using in a low profile chassis
- 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 – Limit and Methods of Measurement.

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