

Overview

Models

AMD Radeon HD 7450 DP (1GB) PCIe x16 Graphics Card

B1R44AA

Introduction

The AMD Radeon HD 7450 DP (1GB) PCIe x16 Graphics Cards provide a low profile, PCI Express x16 graphics add-in card solution based on the AMD Radeon™ HD 7450 Graphics Processor*. These cards support dual displays with its DisplayPort and dual link DVI connectors.

An ideal solution for desktop PC customers seeking stable 2D and advanced 3D graphics performance, the AMD Radeon HD 7450 DP (1GB) 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 AMD Radeon HD 7450 DP (1GB) PCIe x16 Graphics Cards deliver superior PCI Express (PCIe) features including:

- Has flexibility for new applications and enhanced performance
- Full 16 lane PCIe bus support with peak bandwidth support
- High resolution monitor support with the dual-link DVI port
- Multimode DisplayPort connector for current and future display technology 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.

* Based on AMD Radeon™ HD 6000 series GPU technology

Key Benefits

- 1GB of DDR3 dedicated on-board graphics frame buffer memory removing the need to share PC system memory
- Featuring the AMD Radeon™ HD 7450 Graphics Processing Unit
- Conforms to full PCI Express 2.0A specification for low profile form factor (x16 lanes native PCI Express implementation)
- Provides dual-link (DL) DVI-I and DisplayPort output ports. DVI-to-VGA adapter for VGA output support included
- DisplayPort connector supports Multimode technology to support connection to DVI-D, VGA and HDMI monitors with optional adapters in kits [NR078AA](#), [FH973AT](#), [BP937AA](#), [AS615AA](#)
- Supports audio with video through the DisplayPort connector
- DisplayPort 1.2 support provided in a future driver update
- HDCP supported on DisplayPort and DVI output
- DirectX 11 support in hardware for optimal performance in DX11 applications.
- ATI Avivo technology for improved image and video playback.
- OpenGL 4.0 support in hardware for optimal performance with OpenGL applications
- Thermally controlled fan for quiet operation.
- BFR/PVC free construction

AMD Radeon HD 7450 DP (1GB) PCIe x16 Card

Memory
1GB DDR3 64 bit

Peak theoretical memory bandwidth
12.8 GB/s

Overview

Compatibility

The AMD Radeon HD 7450 (1GB) DP PCIe x16 Graphics Card is compatible with the HP Compaq 4000 Pro SFF, HP Compaq 6005 Pro MT, HP Compaq 6005 Pro SFF, HP Compaq 6200 Pro MT, HP Compaq 6200 Pro SFF, HP Compaq 8200 Elite SFF, HP Compaq 8200 Elite CMT, HP Compaq 8200 Elite 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.

Technical Specifications

Output connectors	One Dual link DVI and one DisplayPort output.	
Board configuration	Specification	Description
	Graphics Processor	AMD Radeon™ HD 7450 GPU (Based on AMD Radeon™ HD 6000 series GPU technology)
	Core clock	625 MHz
	Memory clock	800 MHz
	Frame buffer	1GB MB DDR3, 64 bit wide
Bus type	PCI Express (x16 lanes) 2.	
Maximum vertical refresh rate	85 Hz	
Display support	Integrated 400 MHz RAMDAC	
Display max resolution	2560x1600 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	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	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 8 Pro, Windows 8, 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†.

*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

Technical Specifications

<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

Option kit contents

- AMD Radeon HD 7450 DP (1GB) PCIe x16 Card with full height bracket attached
- DVI to VGA adapter
- 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 - Limits and Methods of Measurement.

© Copyright 2012 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are US registered trademarks of Microsoft Corporation.