

**DIAMOND MULTIMEDIA - SPECIFICATION SHEET**

SKU 4650PE1GHP

BRAND HD 4600

March 8, 2010 - 5:06 pm

ENG APVD - LK 2009-03-23  
MRKTG APVD - MS 2008-08-21

<b>SKU</b>	4650PE1GHP	
<b>PRODUCT</b>	DIAMOND ATI Radeon™ HD 4650 PCIE 1GB GDDR2 Video Card	
<b>PRODUCT SHORT DESCRIPTION</b>	<b>INTERFACE</b>	PCI Express x16
	<b>GPU</b>	HD 4650
	<b>CORE CLOCK</b>	600 MHZ
	<b>MEMORY CLOCK</b>	1000 MHZ
	<b>MEMORY CONFIGURATION</b>	64Mx16
	<b>MEMORY TYPE</b>	GDDR2
	<b>MEMORY BANDWIDTH</b>	15.6 GB/s
	<b>MEMORY SIZE</b>	1024MB
	<b>MEMORY CONTROLLER INTERFACE</b>	128-Bit
	<b>PORTS</b>	Dual-Link DVI,HDMI,VGA
	<b>DUAL LINK DVI</b>	Hydravision 4

**PRODUCT DETAILED DESCRIPTION**  
Loaded with the latest features, ATI Radeon™ HD 4600 Series Video Cards deliver a level of gaming performance previously only found in high-end graphics cards. Redefine the way you play HD games and enjoy unprecedented levels of graphics realism powered by 320 stream processing units, up to 1GB of memory and support for Microsoft DirectX®10.1 games. Upgrade your graphics card and watch Blu-ray movies and play HD content with incredible visual fidelity. These graphics cards do it all with break-through energy efficiency, eliminating the need for an external power connection and making them easy to install.

- PRODUCT FEATURES**
- GPU: Radeon™ HD4650
  - Bus Type: PCI-Express
  - Core Clock: 600Mhz
  - Memory Size: 1GB
  - Memory Configuration: 64 x16 GDDR2
  - Memory Interface: 128-Bit
  - Memory Speed: 1000 Mhz
  - Dual Link DVI + VGA + HDMI

<b>SYSTEM REQUIREMENT</b>	<b>EXTERNAL POWER REQUIREMENT</b>	NONE
	<b>CPU</b>	Min. Intel 2.0 Celeron, Pentium Intel Duo, AMD 3800+ or higher
	<b>CPU SPEED</b>	2.0 Ghz or faster
	<b>MEMORY</b>	1024MB
	<b>HARD DISK</b>	480MB available hard disk space
	<b>SYSTEM BUS</b>	PCI Express
	<b>SLOT</b>	SINGLE
	<b>CHASSIS</b>	
	<b>MONITOR</b>	Digital flat-panel (DFP) displays or DVI-I Compatilbe or digital CRT display or High-resolution VGA monitor
	<b>INTERNET ACCESS</b>	
	<b>USB</b>	NO
	<b>CD DVD</b>	YES
	<b>POWER SUPPLY</b>	400 Watt or greater power supply (550 Watt for ATI CrossFireX™ technology in dual mode) is recommended. Certified power supplies are recommended. Refer to <a href="http://ati.amd.com/certifiedPSU">http://ati.amd.com/certifiedPSU</a> for a list of Certified products

<b>OPERATING SYSTEM</b>	WINXP WINXP64 WINVISTA32 WINVISTA64 MCE
<b>FORM FACTOR</b>	Standard Profile Full-Height
<b>DIMENSIONS</b>	[PRODUCT] : 11.75 .X 9.5 X 3 inches [RETAIL BOX] : 11.75 .X 9.5 X 3 inches [S BUILDER] : 11.75" X 7.25" X 2" inches
<b>WEIGHT</b>	[PRODUCT WEIGHT] : .45 LBS [PRODUCT WITH CONTENT WEIGHT] : 2.5Lbs
<b>UPC</b>	RETAIL PACKAGE UPC : 757448008395

- PACKAGE CONTENT**
- 4650PE1GHP
  - INSTALL CD
  - QUICK START GUIDE

**PRODUCT WEBPAGE** <http://www.diamondmm.com/4650PE1GHP.php>

**PRODUCT NOTES** **California Health & Safety Notice** : The solder used in this product contains lead, a chemical known to the State of California to cause birth defects and other reproductive harm. Please wash hands after handling internal components and circuit boards and avoid inhalation of fumes if heating the solder.

The information presented in this document is for information purposes only. The information contained herein is subject to change and may be rendered inaccurate for many reasons, including, but not limited to product and specification changes, new model and/or product releases, product differences between differing manufacturers, software changes, BIOS flashes, firmware upgrades, or the like. Diamond Multimedia assumes no obligation to update or otherwise correct or revise this information. Diamond Multimedia makes no representations or warranties with respect to the contents hereof and assumes no responsibility for any inaccuracies, errors or omissions that may appear in this information. However, Diamond Multimedia reserves the right to revise this information and to make changes from time to time to the content hereof without obligation of Diamond Multimedia to notify any person of such revisions or changes. Please see your Diamond Multimedia sales representative for any questions regarding this product information.

Diamond, Diamond Multimedia and Stealth are registered trademarks of Diamond Multimedia.  
ATI, Graphics by ATI, and Radeon are trademarks of ATI Technologies, Inc.

All other trademarks are property of their respective owners.

© 2009 Diamond Multimedia. All rights reserved.

Diamond Multimedia  
9650 DeSoto Ave. Chatsworth, CA 91311  
Tel: (818) 534-1414 Fax: (818) 773-9619  
<http://www.diamondmm.com>