

**DIAMOND MULTIMEDIA - SPECIFICATION SHEET**

SKU 4650PE512  
 BRAND HD 4600  
 October 14, 2009 - 5:22 pm

ENG APVD - LK 2008-05-08  
 MRKTG APVD - LL 2008-08-21

<b>SKU</b>	4650PE512	
<b>PRODUCT</b>	DIAMOND ATI Radeon™ HD 4650 PCIE 512MB 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>	800 MHz
	<b>MEMORY CONFIGURATION</b>	16Mx32
	<b>MEMORY TYPE</b>	GDDR2
	<b>MEMORY BANDWIDTH</b>	80.6 GB/sec
	<b>MEMORY SIZE</b>	512MB
	<b>MEMORY CONTROLLER INTERFACE</b>	128-Bit
	<b>PORTS</b>	2 Dual-Link DVI, Video Out [S-Video, Composite, HDTV]
	<b>DUAL LINK DVI</b>	Hydravision 4

**PRODUCT DETAILED DESCRIPTION**  
 Loaded with the latest features, ATI Radeon™ HD 4600 Series graphics 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 512MB 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: 512MB
  - Memory Configuration: 8Mx32 GDDR2
  - Memory Interface: 128-Bit
  - Memory Speed: 800 Mhz
  - Two Dual Link DVI + HDTV-Out (HDMI support VIA Adapter)

<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>	N/A
	<b>MONITOR</b>	Digital flat-panel (DFP) displays or DVI-I Compatible or digital CRT display or High-resolution VGA monitor
	<b>INTERNET ACCESS</b>	N/A
	<b>USB</b>	NO
	<b>CD DVD</b>	YES
	<b>POWER SUPPLY</b>	300 Watt.

**OPERATING SYSTEM** MCE WINXP WINXP64 WINVISTA32 WINVISTA64

**FORM FACTOR** Standard Profile Full-Height

**DIMENSIONS** [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

**WEIGHT** [PRODUCT WEIGHT] : .45 LBS [PRODUCT WITH CONTENT WEIGHT] : 2.5Lbs

**UPC** RETAIL PACKAGE UPC : 757448006667

- PACKAGE CONTENT**
- DIAMOND HD 4650 PCIE 512MB GDDR2 VIDEO CARD

**PRODUCT WEBPAGE** <http://www.diamonddmm.com/4650PE512.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.

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.diamonddmm.com>