ComX Computers
Product Specification Sheet

SC-S64502GD3SL

Sapphire HD6450 chipset 2Gb 64bit DDR3 Graphics Card

Product Overview

Sapphire HD6450 chipset, Silent heatsink only + extra Low-profile bracket - support 2x displays, 2Gb 64bit DDR3, RoPs: 4, 12.8Gb/sec memory transfer, 160 stream processors, 12.8Gb/sec memory transfer, 200GigaFLoPs, 6GT/s texture fill rate, core/memory: 625/1333mhz, dvi+d-sub+hdmi, HDMi+HDTV-out - retail pack



Specifications

Graphics card at a glance:

The Sapphire HD 6450 offers a quiet and compact entry-level solution for South African users needing basic graphics performance for HD video, dual-display productivity, and light 3D rendering. With a passive heatsink design and support for modern features like DirectX 11, HDMI 1.4a, and OpenGL 4.1, this card is ideal for upgrading office PCs or HTPCs where silent operation and broad compatibility are key.

Equipped with 2 GB of DDR3 memory, 160 stream processors, and outputs including HDMI, DVI, and D-Sub, the HD 6450 is a versatile choice for casual users and professionals working with 2D/3D office and multimedia applications.

- GPU: AMD Radeon HD 6450
- GPU CODE: SC-S64502GD3SL
- Maximum digital resolution (pixels): 2560 x 1600
- Stream processors (SP): 160
- Engine clock (min ~ max MHz): 625 MHz
- Video memory (size): 2 GB
- Video memory (type): DDR3
- Memory clock (MHz): 1333
- Memory bus (bit): 64 bit
- Bus Standard: PCI Express 2.0 x16
- Over-clock-able: No
- Dimension in cm: 19.0 x 2.2 x 9.4 cm
- Slot: 1
- PSU recommended: 400W
- Power connector: -
- Max. number of monitors: 2

- Video ports: DVI, D-SUB, HDMI
- Performance: Entry-level multimedia
- Suggested uses: HD video playback, dual-display office use, web browsing, light 3D rendering, passive-cooled HTPC builds

Overview:

Packed with the latest GPU technologies, the Radeon HD 6450 graphics processor is a next-generation visual upgrade that delivers Eyefinity multi-display technology, HDMI 1.4a for stereoscopic (3D) displays as well as 2nd generation support for DirectX 11 for the most versatile solution for everyday computing.

Features:

D-Sub(VGA)
The 15-pin VGA connector is common to most monitors and high definition television.You can connect your LCD or CRT monitor / TV with D-sub VGA connector.

Dual-Link DVI
Equipped with the most popular Dual Link DVI (Digital Visual Interface), this card is able to display ultra high resolutions of up to 2560 x 1600 at 60Hz.

HDMI 1.4a
HDMI 1.4a builds on previous generations of HDMI connectivity with support for Deep Color, 7.1 High Bitrate Audio, and 3D Stereoscopic support, ensuring the highest quality Blu-ray and video experience possible from your PC.

40nm Process Technology
Cutting edge manufacturing process allows for efficient, high performance parts which use less power than their predecessors.

PCI-Express 2.0
The latest PCI-Express 2.0 specification doubles data throughput from 2.5Gbps to 5Gbps allowing you to exploit the full performance potential of your graphics card.

Microsoft DirectX 11
Get intense gaming performance and unrivalled image quality with stunning 3D visual effects, realistic lighting and lifelike imagery with SAPPHIRE graphics cards supporting DirectX11. New features in DirectX®11 such as Hardware Tesselation, HDR Texture Compression, Multi-threading support and DirectCompute bring lifelike gaming and an experience never possible on a PC before.

OpenGL 4.1
Supports the latest OpenGL API (Application Programming Interface) to accelerate performance of applications outside of DirectX, i.e. Adobe Autodesk 2D/3D graphic design.

Shader Model 5.0
Supports the latest Shader Model 5.0 feature set including VTF (Vertex Texture Fetch) which is a key feature used extensively in many of the games that ship today. Without support for this feature the game will fall back to a lesser shader path resulting in the loss of cool, lifelike effects made possible by Shader Model 5.0

AMD Catalyst Control Center
The AMD Catalyst Control Center software application gives you complete control over the performance and visual quality of your SAPPHIRE AMD Radeon based graphics card allowing for the best experience on your PC.

Dolby TrueHD and DTSHD Master Audio Support

Support for copy protected, high bandwidth, 7.1 channel surround sound over HDMI. Get a fully immersive, high definition audio experience with the latest Blu-ray movies. (Requires a DVI to HDMI dongle on some models, an HD capable monitor and a Blu-ray drive)

AMD PowerPlay
Dynamically manage power efficiency and take control of your performance with AMD's revolutionary AMD PowerPlay TM power management technology delivering high performance features when needed and conserving power when the demand on the graphics processor is low. This seemless technology dramatically reduces the overall power consumption allowing for break-through energy efficiency.

Enhanced Unified Video Decoder 3 (UVD 3)
Watch the hottest Blu-ray movies or other HD content at full 1080p (and beyond !) display resolution. Enjoy a feature rich video experience with enhanced Unified Video Decoder 3 (UVD 3), offloading the bulk of the video decoding tasks from the CPU to the GPU allowing for a cooler, quieter and more balanced system.

Enhanced Internet Browser Applications
Not just for video and games, the power of your GPU can now accelerate the latest versions of some Internet browsers (IE9/Mozzilla FireFox) utilising Direct 2D rendering for a faster and more responsive browsing experience including high quality image rendering and media playback.

Microsoft Office 2010
Take advantage of improved picture and media editing capabilities in Office 2010 as well as edit and share your content in real time. See more, and get more done. Enhanced productivity with accelerated GPU processing for Office applications.

Windows 7 support
WHQL (Windows Hardware Quality Labs) Certified drivers and logos are available for all SAPPHIRE HD2000, HD3000, HD4000 and HD5000 series cards ensuring compatibility and reliability with Microsoft Windows 7.

AMD App Acceleration
Use the power of your AMD Radeon GPU to speed up everyday applications like your web browser and Microsoft Office 2010 using AMD App Acceleration. Do more, and do it faster. Watch Blu-ray movies, online streaming video and other HD content using your AMD Radeon GPU and get smooth - high quality playback with amazing image quality.

System Requirements:

- PCI Express based PC is required with one X16 lane graphics slot available on the motherboard.
- Certified power supplies are recommended.
- 1024MBMinimum of system memory.
- Installation software requires CD-ROM drive.
- DVD playback requires DVD drive.
- Blu-ray / HD DVD playback requires Blu-ray / HD DVD drive.
- For an AMD CrossFireX system, a second same AMD Radeon graphics card, an AMD CrossFireX Ready motherboard and one AMD CrossFireX Bridge Interconnect cable per graphics card (optional) are required.
- 400 Watt Power Supply is required.

Specifications:

Output	1 x D-Sub(VGA)
	1 x Dual-Link DVI
	1 x HDMI 1.4a

GPU	625 MHz Core Clock
	40 nm Chip
	160 x Stream Processors
Memory	2048 MB Size
	64 -bit DDR3
	1334 MHz Effective
Dimension	190(L)x22(W)x94(H) mm Size.
Software	Driver CD
Accessory	Low Profile Bracket (Optional)

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/SC-S64502GD3SL-Sapphire-HD6450-chipset-2Gb-64bit-DDR3-Graphics-Card-p-48945.php

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