

SAPPHIRE HD 7950 3GB GDDR5 WITH BOOST



The SAPPHIRE HD 7950 3GB with Boost features SAPPHIRE's new dual-extractor technology - Dual-X - a highly efficient multi-heatpipe cooler with dual fans providing quiet and very cool operation during normal operating conditions, and superb cooling performance even under extreme load.

SAPPHIRE HD 7950 3GB with Boost now has the latest GDDR5 memory clocked at 5000MHz effective, and runs with a core clock speed of 850 MHz which with PowerTune Dynamic Boost rises to 925 MHz on the engine.

For enthusiasts wishing to maximise performance, a new version of the SAPPHIRE overclocking tool, TriXX supporting this latest generation of technology is available free to download from the SAPPHIRE website. TriXX allows tuning of GPU voltage as well as core and memory clocks, whilst continuously displaying temperature. Manual control of fan speed is supported, as well as user created fan profiles and the ability to save up to four different performance settings.



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Overview

System Requirements

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Specification

Output	1 x HDMI (with 3D) 1 x Single-Link DVI-D 1 x DisplayPort 1.2 1 x Dual-Link DVI-I
GPU	Default: 850 Mhz Eclk/ with Boost: 925 MHz Core Clock 28 nm Chip 1792 x Stream Processors
Video Memory	3072 MB Size 384 -bit GDDR5 5000 MHz Effective
Dimension	270(L)x120(W)x35(H) mm Size. 2 x slot
Software	Driver CD SAPPHIRE TriXX Utility
Accessory	CrossFire™ Bridge Interconnect Cable 6 PIN to 4 PIN Power Cable x 2

Overview



HDMI (with 3D)

Support for Deep Color, 7.1 High Bitrate Audio, and 3D Stereoscopic, ensuring the highest quality Blu-ray and video experience possible from your PC.



Single-Link DVI-D

Supports Digital monitors up to 1920x1200 resolution.



DisplayPort 1.2

Doubling the effective bandwidth of previous DisplayPort implementations, DisplayPort 1.2 now includes support for Multi-Stream, allowing you to drive up to four separate monitors from a single DisplayPort 1.2 connector (requires DP1.2 monitors or Multi-Stream compatible hub), Stereoscopic 3D monitor support and adds support for high quality, lossless, 7.1 channel audio formats.



Dual-Link DVI-I

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.



Advanced GDDR5 Memory Technology

GDDR5 memory provides twice the bandwidth per pin of GDDR3 memory, delivering more speed and higher bandwidth.



AMD Stream Technology

Accelerate the most demanding applications with AMD Stream technology and do more with your PC. AMD Stream Technology allows you to use the teraflops of compute power locked up in your graphics processor on tasks other than traditional graphics such as video encoding, at which the graphics processor is many, many times faster than using the CPU alone.



AMD Avivo HD (DVD/HD-DVD/Blu-ray Playback)

Watch the hottest Blu-ray movies or other HD content at full 1080p display resolution and beyond and enjoy a more feature rich experience with enhanced Unified Video Decoder(UVD)



AMD CrossFireX™ Multi-GPU Technology

Triple or Quadruple gaming power with AMD CrossFireX™ Multi-GPU Technology. AMD CrossFireX technology supports up to four graphics cards to be used in a single system.



AMD HD3D Technology

Enjoy the most immersive experience possible with full support for High Definition Stereoscopic 3D, a technique that presents 2D images (movies, games, photos) in a format that creates the illusion of three-dimensional depth when using compatible 3D displays / glasses / software.



28 nm GCN (Graphic Core Next) Architecture

The new and 28nm GCN Architecture with more efficient process technology puts more transistors in less space, enabling a dramatic increase in Processing Power. Crank the settings, devastate your enemies and bear witness to absurdly high frame rates with AMD Radeon HD7000 series graphics card-DirectX 11 has never looked this good. Maximum setting and crazy performance shouldn't be a compromise. The AMD Radeon HD7900 Series with the new 28 nm GCN Architecture assures that it's not.



PCI Express 3.0

PCI-Express 3.0 delivers double the bandwidth per lane of PCIe Gen 2 for faster GPU (GPU communication-up to 16GB/sec in each direction), maximizing the performance from your GPU when paired with the latest platforms.

AMD Eyefinity 2.0

The next generation of AMD Eyefinity technology is here, featuring all-new support for stereo 3D, universal bezel compensation and brand new display configurations. Face it: the best just got better: The enhancements for AMD Radeon HD7000 series include: Stereo 3D-multi-display stereoscopic 3D



support via DisplayPort 16K X 16K maximum display group resolution-output up to 268 megapixels per GPU.



*To support 3 displays, one of the monitors has to support DisplayPort

*With Sapphire Flex Technology, this requirement will be no necessary

Learn more about Sapphire Flex Technology → http://www.sapphiretech.com/Flex/FleX_Eng_home.html

**When running Microsoft Windows XP, Eyefinity technology supports a maximum of 2 displays.



Dual-X

Famous for our exclusive cooling solutions like the award winning Vapor Chamber Cooling technology - Vapor-X, SAPHIRE's reputation for innovative excellence continues to grow with the introduction of our new dual-extractor technology - Dual-X. Dual-X is a highly efficient multi-heatpipe cooler with dual fans that provide quiet and very cool operation during normal operating conditions, and superb cooling performance even under extreme load.



OpenGL 4.2

OpenGL 4.2 improves the GPU efficiency by improving the shader process operation and capturing GPU tessellated geometry. The process of modifying an arbitrary subset of compress texture is also simplified. The memory management in handling shaders is more efficient as well.



Best Microsoft DirectX11 Support

The tessellation performance on AMD Radeon HD7000 is up to 2X faster than the previous generation, and DirectCompute performance is also faster to accelerate advanced post-processing, filtering, and anti-aliasing techniques. Direct X11 games has never looked this good.



AMD Catalyst Control Center™

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



Dolby® TrueHD and DTS 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)



Anti-aliasing features

Supports advanced AA (Anti-aliasing) features to maximise your enjoyment of high definition gaming.

- Multi-sample anti-aliasing (2, 4 or 8 samples per pixel)
- Up to 24x Custom Filter Anti-Aliasing (CFAA) for superior quality
- Adaptive super-sampling and multi-sampling
- Gamma correct
- Super AA (AMD CrossFireX™ configurations only)
- All anti-aliasing features compatible with HDR rendering



Windows® Vista support

Integrate with Windows Vista to deliver the best 3D graphics control.



4th Generation TeraScale Engine

Massive arrays of on-chip compute units offer the latest in graphics functionality and performance.



TriXX Utility

TriXX helps users to get the optimum performance from compatible SAPHIRE graphics cards in any application by allowing them to monitor, tune and save different settings of key parameters for the card.



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 SAPHIRE HD2000, HD3000, HD4000 and HD5000 series cards ensuring compatibility and reliability with Microsoft Windows 7.



AMD App Acceleration

AMD App Acceleration is a set of technologies designed to improve video quality and enhance application performance. Full enablement of some features requires support for OpenCL, DirectCompute or DirectX Video Acceleration (DXVA).



AMD PowerPlay with ZeroCore Power Technology

AMD PowerPlay is a power management technology in response to the GPU loading, AMD PowerPlay automatically manages the power consumption. AMD RADEON HD7000 Series with AMD ZeroCore Power Technology, the power consumption can be as low as less than 3 Watt when idle, making the best use of power.



Cutting-edge Quad HD display support (4K Support)

The display resolution on AMD Radeon HD7000 series is quadrupled to the resolution of 4KX2K(4096X2160) from the outputs of DisplayPort 1.2 and HDMI.

AMD PowerTune technology (with Boost)

AMD PowerTune technology (with Boost) is a breakthrough technology that sets an entirely new direction for maximum performance at TDP. It allows



the GPU to be designed with higher engine clock speeds which can be applied on the broad set of applications that have thermal headroom. In HD 7900 series, AMD PowerTune technology enables intelligent power monitoring to enable higher clock speeds and better performance in your favorite games
