

	<p align="center">SAPPHIRE HD 7970 3GB GDDR5 21197-00-40G Product Specification</p>	<p align="center">CONFIDENTIAL UNDER NDA – 9th January</p>
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PRODUCT OVERVIEW

1. Introduction:

The AMD Radeon™ HD 7970 graphics processor harnesses the visionary GCN Architecture. As the world's first 28nm GPU, this chip is primed to enable astonishing performance and breathtaking image quality, making it the only solution for gamers who expect the best. See your games expanded across up to six displays with AMD Eyefinity technology—it's the unfair advantage you deserve. Get a perfected gaming experience with the new GCN Architecture, engineered to deliver jaw-dropping performance and unprecedented image quality. Enable unrivalled HD video quality and astonishing performance in everyday applications with AMD App Acceleration.

Sapphire HD 7970 3GB GDDR5 (21197-00-40G)



2. Features:

1. 925 MHz engine clock
2. Effective 5.5 GHz Memory Clock
3. Graphics Core Next(GCN) architecture based on 28 nm process
4. Dual BIOS
5. 2048 Stream Processors
6. Microsoft DirectX 11 Support
7. AMD Eyefinity 2 Technology
 - Up to 6 displays supported with DisplayPort 1.2 Multi-Stream Transport
 - Independent resolutions, refresh rates, color controls, and video overlays
 - Display grouping -Combine multiple displays to behave like a single large display
8. AMD Power Tune Technology, intelligent TDP management.

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9. Open GL 4.2 Support
10. AMD HD3D Technology
11. AMD App Acceleration
 - OpenCL 1.2 Support
 - Microsoft C++ AMP
 - DirectCompute 11
 - Double Precision Floating Point
 - AMD HD Media Accelerator
 - Universal Video Decoder (UVD)
 - H.264
 - VC-1
 - MPEG-2 (SD & HD)
 - MVC (Blu-ray 3D)
 - MPEG-4 Part 2 (DivX/Xvid)
 - Adobe Flash
 - DXVA 1.0 & 2.0 support
 - Enhanced Video Quality features
 - Advanced post-processing and scaling
 - Deblocking
 - Denoising
 - Automatic deinterlacing
 - Mosquito noise reduction
 - Edge enhancement
 - 3:2 pulldown detection
12. Microsoft Windows 7 Support
13. Image quality enhancement technology
 - Up to 24x multi-sample and super-sample anti-aliasing modes
 - Adaptive anti-aliasing
 - Morphological Anti-Aliasing (MLAA)
 - DirectX® 10/11 Super-Sample Anti-Aliasing (SSAA)
 - 16x angle independent anisotropic texture filtering
 - 128-bit floating point HDR rendering
14. AMD CrossFire™ multi-GPU for dual, triple and quad-GPU scaling
15. Cutting-edge integrated display support

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- DisplayPort 1.2
 - Max resolution: 4096x2160 per display
 - Multi-Stream Transport
 - 21.6 Gbps bandwidth
 - High bit-rate audio Quad HD/4k video support
 - 3GHz HDMI 1.4a with Stereoscopic 3D Frame Packing Format, Deep Color, xvYCC wide gamut support, and high bit-rate audio
 - Max resolution: 4096 x 3112
 - 1080p 60 Stereoscopic 3D
 - Quad HD/4k video support
 - Dual-link DVI with HDCP
 - Max resolution: 2560x1600
16. Integrated HD audio controller s supports AC-3, AAC, Dolby® TrueHD and DTS HD Master Audio™.
17. AMD PowerPlay™ power management technology
Automatic power management with low power idle states

3. System Requirements:

- PCI Express® based PC is required with one X16 lane graphics slot available on the motherboard
- 500 Watt or greater power supply with one 75W 6-pin PCI Express® power connectors and one 150W 8-pin PCI Express® power connector recommended.
- Certified power supplies are recommended. Refer to <http://support.amd.com/us/certified/power-supplies/Pages/listing.aspx> for a list of Certified products
- Minimum 1GB of system memory
- Installation software requires CD-ROM drive
- DVD playback requires DVD drive
- Blu-ray™ playback requires Blu-ray drive
- The operation of AMD CrossFire™ technology in dual mode requires a second AMD Radeon™ HD 7970 graphics card and an AMD CrossFire™ Ready motherboard.

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4. Operating System Support:

Windows XP(32Bit/64Bit); Windows Vista(32Bit/64Bit); Windows Media Center Edition 2005,
Windows 7(32bit/64bit)

5. SKU Features:

SKU	21197-00-40G
GPU	Radeon HD 7970
Bus Interface	PCI-E 3.0 x16
Memory	3072MB / 384-bit GDDR5
Clock Speed	925 MHz Eclk / Effective 5500 MHz Mclk
Cooling System	2 slot blower fan cooler
Bracket	Full Height
Dimension	270(L)x97(W)x42(H)mm
Display Support	DL-DVI-I Mini Display Port x 2 HDMI VGA (Via included adaptor)
HDCP	Yes
Crossfire Support	Native Hardware Crossfire
External Power	PCIe Graphic External 1 x 6 pin PCIe Graphic External 1 x 8 pin
Accessories	Crossfire Interconnect Cable x 1 DVI to VGA Adaptor x 1 6 PIN to 4 PIN Power Cable x 1 8 PIN to 4 PIN Power Cable x 1 Mini DP to DP Adaptor x 1 HDMI to DVI Passive Adaptor x 1 Mini DP to Single-Link DVI Active Adaptor HDMI 1.4a 1.8 meter cable x 1
Software	Driver CD

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6. Maximum Display Resolution:

- D-Sub (VGA): 2048 x 1536 @85 Hz.
- DL-DVI-I: 2560 x 1600@60Hz
- HDMI 1.4a: 4096x3112@60 Hz
- Display Port 1.2 : 4096 x 2160@ 60Hz
- Maximum Display Support: 6 Displays via MST Hub

NOTE:

Disclaimer: Product specification subjects to change, product might not be exactly as shown.

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