



Radeon™ HD 5800 Series



KEY MESSAGES World's Most Powerful Graphics Card

- DirectX® 11 Benefits for Games
 - Better Performance - Multi-threading, DirectCompute 11
 - Better Visuals - Tessellation, Post-Processing, Shadows, HDR Texture Compression
 - Better Experience – DirectCompute 11, Physics and AI
- Immersive Gaming with ATI Eyefinity
- ATI Stream Accelerates the PC Performance
- Energy Efficiency

HOT FEATURES

- More than 2.7 FLOPS Computer Power - World's Most Powerful Graphics
- Up to 24 mega-pixel HD Gaming - Redefine Gaming Experience
- First Fully Microsoft DirectX® 11 Compatible - Better Image Quality
- ATI Eyefinity Technology - Wider View, Support up to Three Monitors
- Advanced GDDR5 Memory for Better Game Play
- Energy Efficiency - 27W at Idle and 25W for HD5830

PRODUCT SPECIFICATIONS

	SAPPHIRE HD 5870	SAPPHIRE HD 5850	SAPPHIRE HD 5830
Process	40nm	40nm	40nm
Transistor	2.15B	2.15B	2.15B
Engine Clock	850MHz	725MHz	800MHz
Stream Processing Units	1600	1440	1120
Compute Performance	2.72 TFLOPS	2.09 TFLOPS	1.792 TFLOPS
Texture Units	80	72	56
Texel Fillrate	68 GTexels/sec	52.2 GTexels/s	44.8 GTexels/s
ROPs	32	32	16
Pixel Fillrate	27.2 GPixels/sec	23.2 GPixels/s	12.8 GPixels/s
Memory Clock	1.2 GHz	1 GHz	1 GHz
Memory Data Rate	4.8 Gbps	4.0 Gbps	4.0 Gbps
Memory Bandwidth	153.6 GB/s	128 GB/s	128 GB/s
Maximum Board Power	188 W	151 W	175 W
Idle Board Power	27 W	27 W	25 W

SAPPHIRE RADEON HD 5800 PRODUCT LINE UP

Model	Memory	Engine Clock	Memory Clock	Display Support	SAPPHIRE BUNDLE OPTIONS (Full Retail)		
					DVI to VGA	CF Bridge Interconnect Cable	Utility Software/ Games
HD5870 Vapor-X	1GB GDDR5	875	5000	DP / HDMI / 2x DVI	✓	✓	Dirt-2
HD5870	1GB GDDR5	850	4800	DP / HDMI / 2x DVI	✓	✓	Dirt-2, SIM HD
HD5850 Toxic	1GB GDDR5	765	4500	DP / HDMI / 2x DVI	✓	✓	SIM HD
HD5850 Vapor-X	1GB GDDR5	735	4200	DP / HDMI / 2x DVI	✓	✓	SIM HD
HD5850	1GB GDDR5	725	4000	DP / HDMI / 2x DVI	✓	✓	SIM HD
HD5830	1GB GDDR5	800	4000	DP / HDMI / 2x DVI	✓	✓	Dirt-2
HD5830 COD Edition	1GB GDDR5	800	4000	DP / HDMI / 2x DVI	✓	✓	COD, SIM HD

Product options may vary by region. Please check your local stores / distributors for details. Specifications subject to change without notice.

Multi-Displays Support with EYEFINITY



EXCELLENCE Over 1600 World Wide Awards since 2002



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SAPPHIREHD 5870



SAPPHIRE HD 5870 Vapor-X



SAPPHIRE HD 5850

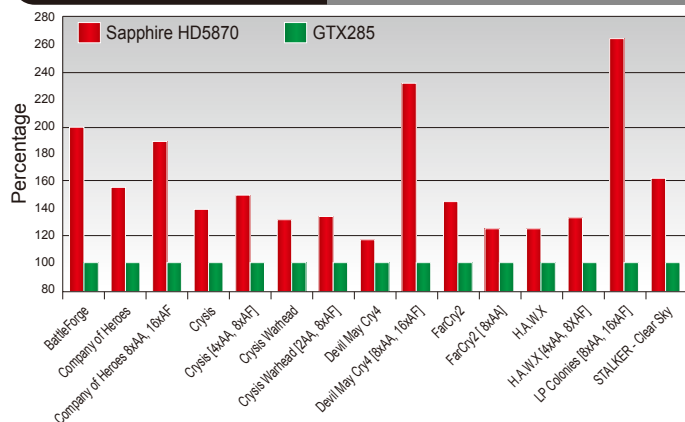


SAPPHIRE HD 5830

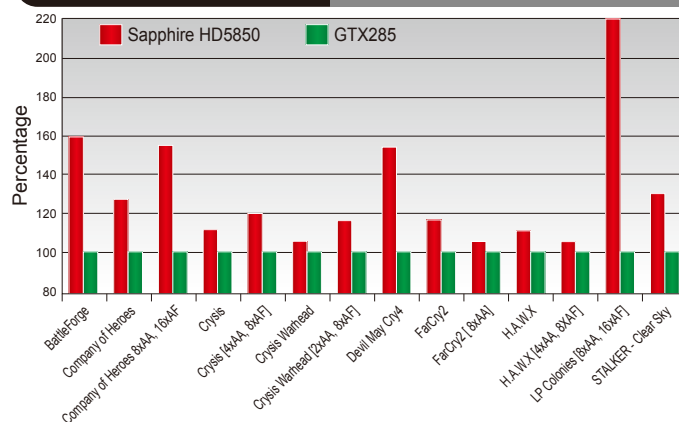


SAPPHIRE HD 5830 COD

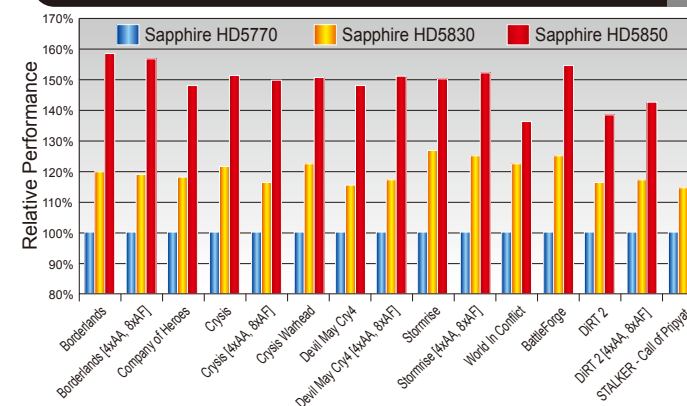
HD 5870 Performance



HD 5850 Performance



HD 5830 Position between HD5770 and HD5850



Full
DirectX®
11
Support

PCI
EXPRESS
2.1

1080p
FULL HD

WINDOWS
7

HDMI

7.1 HD
Surround
Sound