



RADEON™ HD 4350



Key Messages

Sapphire Radeon™ HD 4350 Graphics – Go beyond HD at an affordable price

- Display Support above 1080p resolutions¹
- Natural step up from integrated graphics
- Support for HDMI with 8 Channel Audio
- Ultra quiet, passively cooled solution

Product Specifications

Sapphire HD 4350

Stream Processing Units	80
Compute Power	96 gigaFLOPS
Microsoft® DirectX® Support	Versions 9, 10 & 10.1
Engine Clock	600 MHz
Memory Clock	300 - 600 MHz
Frame Buffer Size	256 MB - 1GB
Memory Type	DDR2
Memory Data Rate	0.6-1.2 Gbps
Memory Bandwidth (maximum)	Up to 9.6 GB/sec
Anti-Aliasing (AA) (maximum)	12x CFAA
Graphics Bus Technology	PCI Express® 2.0
# of Slots (width)	Single
Power Connectors	None
Maximum Board Power	20 Watts

Visit <http://www.sapphiretech.com> for latest Sapphire HD4350 product information

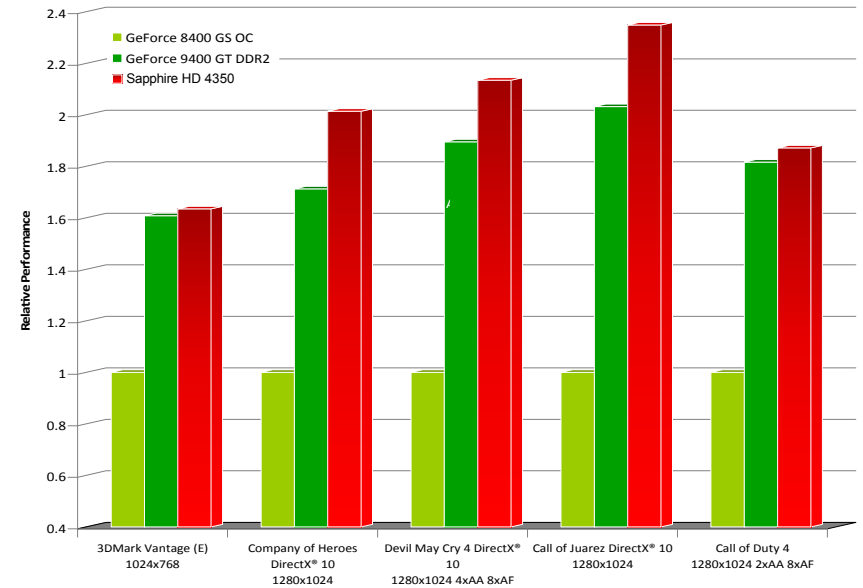
¹ Sapphire HD 4350 supports display resolutions up to 2560x1600

³ GeForce 8400 GS GFLOPS calculated based on NVIDIA product information as of August 29, 2008 (<http://www.nvidia.com/page/geforce8.html>). GFLOPS = Processor Cores x Processor Clock x 2. GFLOPS/W based on calculated GFLOPS / Max Card Power. GT/s reported on NVIDIA product site. 16shaders, 900shader clock, 25W board power approximation.

⁴ Based on http://h18000.www1.hp.com/products/quickspecs/12748_na/12748_na.HTM

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Performance Benchmarks



Comparisons based on AMD internal testing using AMD reference platform
 Configuration: AMD Phenom 8650 (B3 2.3GHz), Gigabyte MA790GP/ASUS M3N-HT DLX (780a), 2GB DDR2-800 5-5-5-12, Windows Vista® Ultimate SP1 64-bit

Display driver: AMD Driver: 8.53-RC2, NVIDIA Driver: 178.13 WHQL
 AMD Graphics : 512MB DDR3 600e/800m
 Nvidia GeForce 9400 GT: 512MB DDR2 550e/400m, GeForce 8400 GS OC: 256MB DDR2 459e/400m

Feature Comparison

	Sapphire HD 4350	GeForce® 8400 GS
Process Technology	55nm	65nm
Memory Technology	DDR2	DDR2
Compute Power	96 gigaFLOPS	44.8 gigaFLOPS ³
Design Efficiency	4.8 gigaFLOPS/Watt	1.2 gigaFLOPS/Watt ⁴
Board Power	20 Watts	<25 Watts ⁴
Memory Bandwidth	Up to 9.6 GB/sec	Up to 6.4 GB/sec