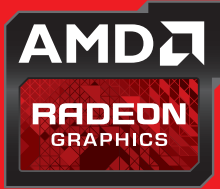


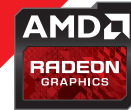
April 2014



# AMD RADEON™ GRAPHICS

## CHANNEL COMPETITIVE POSITIONING TOOL

3D Mark® FireStrike	Memory Size	Memory Bit-Interface	Compute Power	AMD Radeon™	VS	NVIDIA GeForce¹	Compute Power	Memory Bit-Interface	Memory Size	3D Mark® FireStrike	AMD Advantage (%)
9828²	4GB	512-bit	5.6 TFLOPS	R9 290X	VS	GTX 780 Ti	5.0 TFLOPS	384-bit	3GB	9800²	0%
9837²	4GB	512-bit	5.6 TFLOPS	R9 290X	VS	GTX 780	4.0 TFLOPS	384-bit	3GB	8754²	12%
9294²	4GB	512-bit	4.9 TFLOPS	R9 290	VS	GTX 780	4.0 TFLOPS	384-bit	3GB	8754²	6%
7485²	3GB	384-bit	4.1 TFLOPS	R9 280X	VS	GTX 770	3.2 TFLOPS	256-bit	2GB	6930²	8%
7485²	3GB	384-bit	4.1 TFLOPS	R9 280X	VS	GTX 760	2.3 TFLOPS	256-bit	2GB	5500²	36%
6621²	3GB	384-bit	3.3 TFLOPS	R9 280	VS	GTX 760	2.3 TFLOPS	256-bit	2GB	5500²	20%
5534²	2GB	256-bit	2.7 TFLOPS	R9 270X	VS	GTX 660	1.9 TFLOPS	192-bit	2GB	4519²	22%
5212²	2GB	256-bit	2.4 TFLOPS	R9 270	VS	GTX 660	1.9 TFLOPS	192-bit	2GB	4519²	15%
4705²	2GB	256-bit	1.9 TFLOPS	R7 265	VS	GTX 750 Ti	1.4 TFLOPS	128-bit	2GB	4152²	13%
3732³	1GB/2GB	128-bit	2.0 TFLOPS	R7 260X	VS	GTX 750	1.1 TFLOPS	128-bit	1GB	3591³	4%
3400³	1GB/2GB	128-bit	1.5 TFLOPS	R7 260	VS	GTX 650 Ti	1.4 TFLOPS	128-bit	1GB	2949³	15%
2723⁴	1GB	128-bit	1.3 TFLOPS	R7 250X	VS	GTX 650	813 GFLOPS	128-bit	1GB	2023⁴	35%
2101⁵	1GB/2GB	128-bit	806 GFLOPS	R7 250	VS	GT 640	803 GFLOPS	64-bit	1GB/2GB	1634⁵	29%
1490⁵	1GB/2GB	128-bit	499 GFLOPS	R7 240	VS	GT 630	692 GFLOPS	64-bit	1GB/2GB	998⁵	49%
390⁶	1GB/2GB	64-bit	200 GFLOPS	R5 230	VS	GT 610	156 GFLOPS	64-bit	1GB/2GB	378⁶	3%



### GCN ARCHITECTURE

Submit to the unbridled power of the revolutionary AMD Radeon™ R9 and R7 Series Graphics Cards, armed with the ground-breaking GCN Architecture. Crank the settings, devastate your enemies, and bear witness to absurdly high framerates. Your games have never looked this good.

### AMD EYEFINITY TECHNOLOGY

Feel truly in the game with AMD Eyefinity technology, an immersive experience that expands your game across up to six displays. Welcome to surround sight.<sup>7</sup>

### AMD POWERTUNE TECHNOLOGY

Enables intelligent power monitoring to enable higher clock speeds and better performance in your favorite games.<sup>8</sup>

### AMD ZERO CORE POWER TECHNOLOGY

AMD ZeroCore Power technology delivers unmatched power savings in systems with single or multi-GPU configurations.<sup>8</sup>

### AMD CROSSFIRE™ TECHNOLOGY

Don't settle for "medium." Crank those settings and see the latest games at their very best with two or more AMD Radeon™ HD GPUs configured with AMD CrossFire™ technology. Don't forget to brag to your friends.<sup>9</sup>

### AMD APP ACCELERATION

AMD Radeon™ R9 and R7 Series Graphics Cards with AMD App Acceleration allow you to run multiple applications without having to sacrifice speed and reliability.<sup>10</sup>

### MANTLE

Mantle gives game developers the power to speak directly to the AMD GPU core.<sup>11</sup> With such a direct connection to your hardware, game developers are discovering a whole new world of immersion and performance made possible by AMD graphics leadership.

### AMD TRUEAUDIO TECHNOLOGY

Introducing a new level of immersion. Available on select AMD Radeon™ R9 and R7 series graphics cards, AMD TrueAudio Technology surrounds you with the breathtaking reality.<sup>12</sup> Harness performance-charged GCN Architecture to keep your opponents on their heels. You've never experienced the game like this.

1. Taken from: <http://www.geforce.com/hardware> on March 2014.

2. System Configuration: Core i7, 4960X (3.6GHz), ASUS X79 SABERTOOTH, 16GB DDR3-1866 MHz, Windows 8.1 64bit, 13.11 Beta 6, 331.65 WHQL

3. System Configuration: Core i7, 4960X (3.6GHz), ASUS X79 SABERTOOTH, 16GB DDR3-1866 MHz, Windows 8.1 64bit, Varies, 327.23 WHQL

4. System Configuration: Core i7, 3960X (3.3GHz), MSI X79A-GD65, 16GB DDR3-1600 9-9-9-24, Windows 7 64bit, Cat 13.6 B1, 320.18 WHQL

5. System Configuration: Intel i7-4770K, Gigabyte GA-Z87X-D3H, 8 GB Mushkin 1600MHz, 2 TB Seagate SATA HD, 13.20.16, 331.65 WHQL

6. System Configuration: Intel i7-4770K, Gigabyte GA-Z87X-D3H, 8 GB Mushkin 1600MHz, 2 TB Seagate SATA HD 13.251: 322.21

7. AMD Eyefinity technology supports multiple monitors on an enabled graphics card. Supported display quantity, type and resolution vary by model and board design; confirm specifications with manufacturer before purchase. To enable more than two displays, or multiple displays from a single output, additional hardware such as DisplayPort™-ready

monitors or DisplayPort 1.2 MST-enabled hubs may be required. A maximum of two active adapters is recommended for consumer systems. See [www.amd.com/eyefinityfaq](http://www.amd.com/eyefinityfaq) for full details. Gaming in 4K requires a 4K display and content. Supported resolution varies by GPU model and board design; confirm specifications with manufacturer before purchase.

8. AMD PowerTune and AMD ZeroCore Power are technologies offered by certain AMD Radeon™ products, which are designed to intelligently manage GPU power consumption in response to certain GPU load conditions. Not all products feature all technologies – check with your component or system manufacturer for specific model capabilities.

9. AMD CrossFire™ technology requires an AMD CrossFire Ready motherboard and may require a specialized power supply and AMD CrossFire Bridge Interconnect. Check with your component or system manufacturer for specific model capabilities.

10. 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).

11. Application support for Mantle is required.

12. AMD TrueAudio technology is offered on select AMD Radeon™ R9 and R7 200 Series GPUs and is designed to improve acoustic realism. Requires an enabled game or application. Not all audio equipment supports all audio effects; additional audio equipment may be required for some audio effects. Not all products feature all technologies – check with your component or system manufacturer for specific capabilities.

Not all products have all features and full enablement of some capabilities and may require complementary products.

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