



# AMD FirePro™ Professional Graphics for CAD & Engineering and Media & Entertainment

Performance at every price point.

**AMD FirePro™ professional graphics offer breakthrough capabilities that can help maximize productivity and help lower cost and complexity—giving you the edge you need in your business.** Outstanding graphics performance, compute power and ultra-high resolution multi-display capabilities allows Broadcast, Design, and Engineering professionals to work at a whole new level of detail, speed, responsiveness, and creativity.

## AMD FirePro™ W9100



With 16GB GDDR5 memory and the ability to support up to six 4K displays via six Mini DisplayPort outputs<sup>1</sup>, the AMD FirePro W9100 graphics card is the ideal single-GPU solution for the next generation of ultra-high resolution visualization environments.

## AMD FirePro™ W8000



This high performing, professional 3D graphics solution can handle highly complex image processing and manipulation of large 3D models.

## AMD FirePro™ W7000



A high performing professional 3D graphics card with superb visual quality and power.

## AMD FirePro™ W5000



Mid-range graphics card delivers the perfect balance of power, performance, reliability and price.

## AMD FirePro™ V4900



Outstanding performance and reliability for professionals who work with small to medium models.

## AMD FirePro™ V3900



Low-profile card with 1GB of memory for tackling moderately complex designs.





# AMD FirePro™ Professional Graphics for CAD & Engineering and Media & Entertainment

**Innovation and reliability from a technology leader.** AMD FirePro™ professional graphics are optimized and certified for many leading CAD/CAE, and Media and Entertainment applications. A rigorous certification processes conducted by ISVs and OEMs test AMD FirePro™ graphics against a battery of simulations and real-world scenarios to ensure their readiness for demanding professional use. The unified driver, which supports all AMD FirePro™ products, helps reduce the total cost of ownership by simplifying installation, deployment and maintenance.

In addition, AMD FirePro™ technology incorporates a unique AutoDetect technology. As users open new 3D applications, or move between them, driver settings are automatically configured for optimized performance of supported applications, no matter what the user's workflow demands.

**Applications include:**

- |                   |                   |                      |
|-------------------|-------------------|----------------------|
| <i>AutoCAD</i>    | <i>Siemens NX</i> | <i>Maya</i>          |
| <i>Inventor</i>   | <i>CATIA</i>      | <i>PTC Creo 2.0</i>  |
| <i>SolidWorks</i> | <i>3ds Max</i>    | <i>and many more</i> |

MODEL	DISPLAY				PERFORMANCE										FEATURES													
	Maximum resolution per display output	DVI-I	DisplayPort	No. of display outputs	Compute Performance		Rendering Performance (billion tri/s)	Stream Processors	GCN Stream Processors	Memory	ECC	Memory Bandwidth (GB/s)	Maximum Power	PCIe®	OS - 32bit & 64bit Support	AMD CrossFire Pro	OpenCL™	OpenGL™	DirectX	Shader Model	Geometry Boost	AMD PowerTune	AMD ZeroCore Power	3D Stereoscopic	FrameLock/Genlock	Warranty		
					Single Precision (GFLOPS)	Double Precision (GFLOPS)																						
<b>FirePro W9100</b>	4096x2160	N/A**	6 x 1.2	6	5240	2620	3.7	N/A	2816	16GB GDDR5	Yes	320	275w	3.0	•	•	1.2	4.3	11.1	5	•	•	•	•	•	•	•	3yr
<b>FirePro W9000</b>	4096x2160	N/A**	6 x 1.2	6	3990	1000	1.95	N/A	2048	6GB GDDR5	Yes	264	274w	3.0	Windows 8 Windows 7 Windows Vista Windows XP Linux	•	1.2	4.3	11.1	5	•	•	•	•	•	•	•	3yr
<b>FirePro W8000</b>	4096x2160	N/A**	4 x 1.2	4	3230	806	1.80	N/A	1792	4GB GDDR5	Yes	176	189w*	3.0		•	1.2	4.3	11.1	5	•	•	•	•	•	•	•	3yr
<b>FirePro W7000</b>	4096x2160	N/A**	4 x 1.2	4	2400	152	1.85	N/A	1280	4GB GDDR5	No	154	<150w	3.0		•	1.2	4.3	11.1	5	•	•	•	•	•	•	•	3yr
<b>FirePro W5000</b>	4096x2160	1***	2 x 1.2	3	1270	80	1.65	N/A	768	2GB GDDR5	No	103	<75w	3.0		•	1.2	4.3	11.1	5	•	•	•	•	•	•	•	3yr
<b>FirePro V7900</b>	2560x1600	N/A**	4 x 1.2	4	1860	464	1.45	1280	N/A	2GB GDDR5	No	160	143w	2.0	Windows 8 Windows 7 Windows Vista Windows XP Linux	•	1.2	4.3	11	5	•	•	•	•	•	•	•	3yr
<b>FirePro V5900</b>	2560x1600	1	2 x 1.2	3	610	154	1.20	512	N/A	2GB GDDR5	No	64	75w	2.0		•	1.2	4.3	11	5	•	•	•	•	•	•	•	3yr
<b>FirePro V4900</b>	2560x1600	1	2 x 1.2	3	768	n/a	0.80	480	N/A	1GB GDDR5	No	64	75w	2.0		•	1.2	4.3	11	5	•	•	•	•	•	•	•	3yr
<b>FirePro V3900</b>	2560x1600	1	1 x 1.2	2	624	n/a	0.65	400	N/A	1GB GDDR3	No	28.8	50w	2.0		•	1.2	4.3	11	5	•	•	•	•	•	•	•	3yr

\* Actual powered measured in worst case scenario  
 \*\* DVI-D via Adapter  
 \*\*\* W5000 DVI option available, with 2x dual-link DVI outputs



# AMD FirePro™ Professional Graphics for Finance and Display Wall Applications

## Reliable and cost-effective multi-display solutions.

**For every need there is an AMD solution.** Featuring a space efficient, low profile design, AMD FirePro™ professional graphics can be easily deployed in a variety of form factors, from small form factor desktops to tower workstations to mobile docking stations.

AMD FirePro™ professional graphics enable set-ups with multiple monitors for industries that demand a maximum in display density. AMD Eyefinity technology increases desktop productivity and simplifies visualization solutions by expanding your visual real estate up to six displays<sup>1</sup> with a single graphics card – an industry first.

- Supports PCI Express (PCI-E) standards (x1 and x16)
- Dedicated dual, quad and six-output channels for crystal clear displays
- Supports various display connectors, such as DisplayPort, DVI and VGA
- Ultimate reliability with estimated lifecycles (MTBF) of up to 500k hours
- Combine multiple AMD FirePro graphics cards in the same system to create large video walls

### AMD FirePro™ 2270 (Dual Output)

The first low-profile, passively cooled dual-output AMD graphics card supporting all three industry standard display technologies—DisplayPort, DVI and VGA.



### AMD FirePro™ 2460 (Quad Output)

Designed for financial and corporate multi-display users. The first low profile, quad mini-DisplayPort capable solution available.



### AMD FirePro™ W600 (Six Output)

The industry's most powerful solution for multi-monitor display walls.





# AMD FirePro™ Professional Graphics for Finance and Display Wall Applications

Designed to help IT more easily configure and deploy multi-display set ups for employees. Offering ultra-high resolution graphics with exceptional image quality through a range of industry standard display connectors such as VGA, DVI and DisplayPort, AMD FirePro™ professional graphics make it easy for IT to configure multi-display set ups using any supported monitors they happen to have on-hand.

**AMD FirePro professional graphics are ideal for enabling a variety of dual and quad-display solutions across multiple industries, including:**

Financial Services  
Healthcare  
Transportation  
Public Safety

Digital Signage  
Government and Education  
Control Rooms

AMD FirePro™ professional graphics provides certification for many leading applications, backed up by technical support to provide you with the reliability you deserve.

- The rigorous certification processes of many leading ISVs and OEMs put AMD FirePro™ technology through a battery of simulations and real-world scenarios to help ensure their readiness for demanding professional use.
- AMD Catalyst™ Pro unified drivers deliver not only the stability and reliability that is demanded by professional users, but also the convenience and ease of maintenance that is crucial for the IT team.
- AMD FirePro™ professional graphics are backed by a no-hassle warranty and global technical support services<sup>2</sup>.

MODEL	MAXIMUM RESOLUTION			CONNECTIONS			PERFORMANCE				INTERFACE			FEATURES	
	VGA	DVI	DisplayPort	No. of display outputs	Outputs (Adapters included)	Optional Adapters (not included)	Memory	Cooling	Maximum Power	OS - 32bit & 64bit Support	PCI-E(x16)	PCI-E(x1)	Form Factor	OpenGL	DirectX®
AMD FirePro 2270	1920 x 1200	1920 x 1200	2560 x 1600*	2	DVI/VGA	DisplayPort	512MB DDR3	Passive	15w	Win8/Win7/Vista/XP/Linux	•	•	HH/HL 1 Slot	4.3	11
ATI FirePro 2460	1920 x 1200*	1920 x 1200	2560 x 1600	4	Mini DisplayPort /DVI	DisplayPort or VGA	512MB GDDR5	Passive	< 20w	Win8/Win7/Vista/Linux	•		HH/HL 1 Slot	4.3	11
AMD FirePro W600	1920 x 1200	1920 x 1200	4096 x 2160	6	N/A	Mini DisplayPort to DVI	2GB GDDR5	Active (fan)	75w	Win8/Win7/Vista/Linux	•		FH/HL 1 Slot	4.3	11.1

[amd.com/firepronextgen](http://amd.com/firepronextgen)

1. AMD Eyefinity technology can support up to six DisplayPort displays using a single enabled AMD graphics card. The number of supported displays varies by card model and board design; confirm specifications with the manufacturer before purchase. Additional hardware may be required. Utilizing DisplayPort 1.2 and Multi-Stream technology-enabled displays, connectors and/or hubs, a single graphics card may support up to two more displays than it has display outputs; limit six displays. Microsoft® Windows® 7, Windows Vista®, or Linux® is required to support more than 2 displays; Windows XP is no longer supported. AMD Eyefinity technology works with applications that support non-standard aspect ratios, which is required for panning across multiple displays. SLS ("Single Large Surface") functionality requires an identical display resolution on all displays. See [www.amd.com/firepro](http://www.amd.com/firepro) or [www.amd.com/eyefinity](http://www.amd.com/eyefinity) for details.

2. Toll free hotline available in United States, Canada.

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# AMD FirePro™ S-Series Server Cards for Data Centers

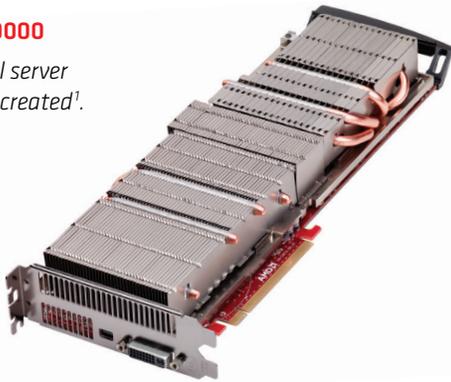
GPU Compute, Virtual Desktop Infrastructure (VDI) and Virtualized Workstations

Designed for use in servers and data center environments, AMD FirePro™ S-Series server cards can tackle compute-centric workflows and accelerate many applications beyond just graphics.

**The Leading Edge of Graphics Virtualization.** AMD FirePro™ technology supports leading virtualization technologies enabling the delivery of graphically accelerated computing experiences to a range of client devices. When a single AMD FirePro™ graphics card is installed in a rack or blade server or PCIe expansion chassis, it can support multiple concurrent user computing sessions. Users have the ability to work seamlessly with business productivity applications, video, graphically rich OS interfaces, as well as professional CAD/CAE and media and entertainment applications.

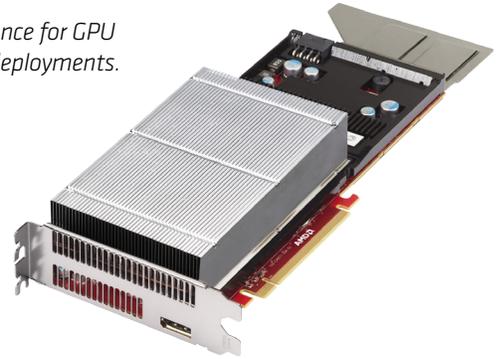
## AMD FirePro™ S10000

*The most powerful server graphics card ever created<sup>1</sup>.*



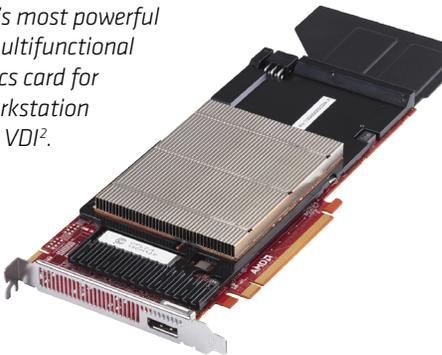
## AMD FirePro™ S9000

*Flexible performance for GPU compute or VDI deployments.*



## AMD FirePro™ S7000

*The industry's most powerful single-slot multifunctional server graphics card for compute, workstation graphics and VDI<sup>2</sup>.*



## AMD FirePro™ R5000

*Enables full workstation computing experiences over the corporate IP network.*





# AMD FirePro™ S-Series Server Cards for Data Centers

GPU Compute, Virtual Desktop Infrastructure (VDI) and Virtualized Workstations

## GPU Compute

AMD FirePro S-Series cards are outfitted with GPU hardware and software features designed specifically to address high-performance workloads and workflows, including application requirements for high single and double floating point performance, ECC Memory support for increased computational accuracy, DirectGMA for low latency data transfer, and several intelligent power monitoring and management technologies unique to AMD.

AMD FirePro S-Series cards are optimized for OpenCL™, the open and cross-platform programming standard used for general-purpose computations. When combined with the AMD APP Acceleration Software Development Kit and AMD supported development tools such as compilers and libraries, developers and customers can take full advantage of AMD FirePro S-Series for GPU compute.

## VDI and Virtualized Workstations

Built on the powerful AMD Graphics Core Next Architecture and with GPU acceleration for mainstream virtualization technologies, AMD FirePro™ S-Series server cards can be tapped to deploy virtual desktops for specialized design and engineering professionals as well as traditional knowledge workers. AMD FirePro S-series cards are capable of delivering high quality graphics, low latency application streaming from the Cloud, as well as enable remote access to user desktops. AMD FirePro S-Series server cards support leading hypervisors from Citrix, Microsoft and VMware.

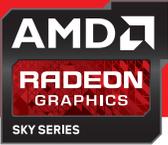
The AMD FirePro family also includes the AMD FirePro™ R5000 remote graphics card, a one of a kind product that is capable of delivering a full workstation class computing experience over the corporate network to users via a PCoIP enabled software or hardware client. Featuring the latest PCoIP host processor from Teradici, the R5000 is capable of delivering uncompromised quality of graphics and multi-media on par with a physical desktop, including multi-monitor support.

MODEL	PERFORMANCE									FEATURE						DISPLAY			
	Compute Performance		Stream Processors	Memory (GDDR5)	ECC	Memory Bandwidth (GB/s)	PCoIP Host Processor	Maximum Power	PCIe® Support	OpenCL™	OpenCL	DirectX®	AMD PowerTune <sup>3</sup>	AMD ZeroCore Power <sup>3</sup>	AMD RapidFire	Ethernet Port	Warranty	DVI	DisplayPort 1.2
	Single Precision (TFLOPS)	Double Precision (TFLOPS)																	
<b>FirePro S10000</b> [Passive Cooling]	5.91	1.48	2x1792	6GB or 12GB	Yes	2x240	No	375W	3.0	1.2	4.3	11.1	•	•	No	3yr	1	1 Mini DP	
<b>FirePro S9000</b>	3.23	.806	1792	6GB	Yes	264	No	225W	3.0	1.2	4.3	11.1	•	•	No	3yr		1	
<b>FirePro S7000</b>	2.4	.152	1280	4GB	No	154	No	150W	3.0	1.2	4.3	11.1	•	•	No	3yr		1	
<b>FirePro R5000</b>	1.3	.792	768	2GB	No	102.4	1 TERA2	150W	3.0	1.2	4.3	11.1	•	•	1	3yr		2x Mini DP <sup>4</sup>	



[amd.com/firepro](http://amd.com/firepro)

1. AMD FirePro™ S10000 delivers 1.48 TFLOPS peak double precision floating point performance, and Nvidia's highest performing card in the market as of January 14, 2013 is the Tesla K20X with 1.31 TFLOPS peak double precision. Visit <http://www.nvidia.com/object/tesla-servers.html> for Nvidia product specs. FP-71  
 2. AMD FirePro™ S7000 delivers 2.4 TFLOPS of peak single precision floating point performance, compared to Nvidia Tesla M2075 that is capable of 1.03 TFLOPS peak single precision. As of October 2013, Nvidia doesn't offer a single-slot server product. Visit <http://www.nvidia.com/object/tesla-servers.html> for Nvidia product specs. FP-58  
 3. AMD PowerTune and AMD ZeroCore Power are technologies offered by certain AMD Radeon™ and AMD FirePro™ 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.  
 4. Can drive up to two local displays plus an additional two remote displays, for a total of four displays; requires a Dell Wyse P45 or other Teradici TERA2 compatible thin or zero client for remote displays. For more information visit <http://www.teradici.com/where-to-buy/all-pcoip-products.php>.  
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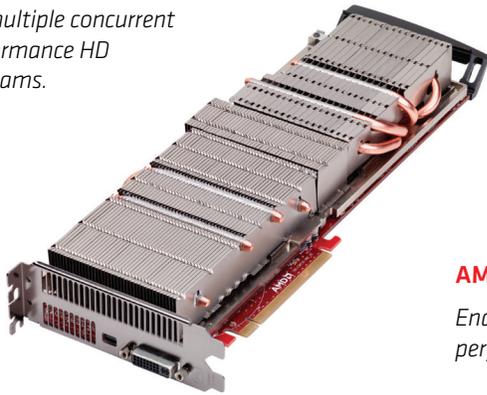
# AMD Radeon™ Sky Series Graphics Cards for Cloud Gaming

Designed to address the emerging needs of the Cloud Gaming market, AMD Radeon Sky Series graphics cards enable service providers to stream PC and console-quality gaming experiences to virtually any device, anywhere.

**The AMD Radeon™ advantage.** Raise the settings, increase the resolution and play your favorite games. Gamers streaming from the cloud can achieve the full AMD Radeon™ gaming experience they've come to know and love on their desktops but now on any device they choose.

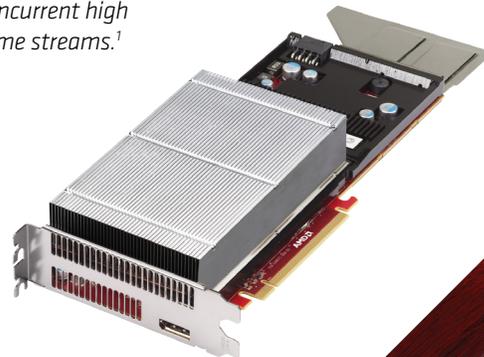
## AMD Radeon™ Sky 900

*Enables multiple concurrent high performance HD game streams.*



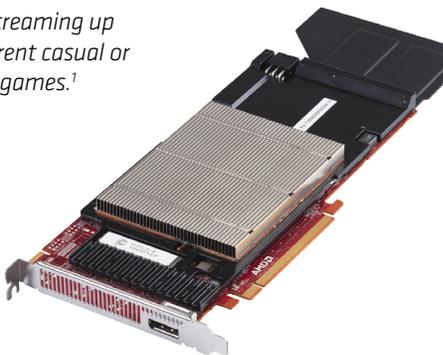
## AMD Radeon™ Sky 700

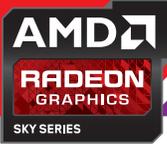
*Enables up to six concurrent high performance HD game streams.<sup>1</sup>*



## AMD Radeon™ Sky 500

*Capable of streaming up to six concurrent casual or mainstream games.<sup>1</sup>*





# AMD Radeon™ Sky Series Graphics Cards for Cloud Gaming

## Cloud Gaming

AMD Radeon™ Sky Series graphics cards feature AMD's award-winning Graphics Core Next Architecture for spectacular gaming performance and power efficiency. Equipped with the latest technologies, including PCIe® 3.0 support, DirectX® 11.1 support, and AMD RapidFire technology, the sky's the limit for cloud gaming. With AMD Radeon™ Sky Series cloud gaming service providers can maximize existing infrastructure and resources to support even more simultaneous game streams ranging from social and casual games to AAA titles.

## AMD RapidFire Technology

"Secret sauce" is an elusive quality that makes something distinctive or special. It's hard to put your finger on, but you know it when you see it. When it comes to AMD Radeon™ Sky series graphics for cloud gaming, our secret sauce is AMD RapidFire technology.

AMD RapidFire technology is a combination of hardware and software that enables cloud gaming partners to benefit from an open API that simplifies the manipulation of key hardware controls to provide HD visual quality, minimal latency and optimal network bandwidth resulting in a compelling and responsive gaming experience from any device over the internet. In line with AMD's commitment to industry standard APIs, like OpenCL™, DirectX® and OpenGL, an industry standard API for cloud gaming will help to align the industry around one platform and drive continued innovations that benefit the industry at large.

AMD RapidFire leverages certified cloud gaming middleware from 3rd parties, such as from CiiNOW, G-cluster Global, Leap Computing and Ubitus, to simplify the manipulation of key hardware controls and provide HD visual quality, minimal latency and optimal network bandwidth resulting in a compelling and responsive cloud gaming experience to virtually any device, anywhere.

MODEL	PERFORMANCE					FEATURES								DISPLAY		
	Stream Processors	Memory (GDDR5)	Memory Bandwidth (GB/s)	Maximum Power	PCIe® Support	OpenCL™	OpenGL	DirectX®	AMD PowerTune <sup>2</sup>	AMD ZeroCore Power <sup>2</sup>	AMD RapidFire	AMD FirePro™ Driver	AMD Radeon™ Driver	Warranty (Years)	DVI	DisplayPort 1.2
<b>Sky 900</b>	3584 (2 x1792)	6GB	2x240	300W	3.0	1.2	4.3	11.1	•		•	No	Yes	3	1	1 Mini DP
<b>Sky 700</b>	1792	6GB	264	225W	3.0	1.2	4.3	11.1	•	•	•	No	Yes	3		1
<b>Sky 500</b>	1280	4GB	154	150W	3.0	1.2	4.3	11.1	•	•	•	No	Yes	3		1



[amd.com/radeonsky](http://amd.com/radeonsky)

1. Test conducted at AMD measuring the ability of a Colfax CX 1250-N4 1U rack mount server with CiiNOW Cumulus Cloud Services version 2.0 running on an AMD Opteron™ 6380 16 core server processor with one AMD Radeon Sky Series model 700 or one Sky Series Model 500, 32GB RAM, and video driver 12.10.171 to stream to games simultaneously. At 60 FPS and 720p resolution, three streams were achieved; at 30 FPS and 720p, six streams were achieved. Three games: LEGO® Batman™, Harry Potter™ Years 1-4, and Devil May Cry; six games: Trine, LEGO® Batman™, LEGO® Harry Potter™ Years 1-4 and Years 5-7, Far Cry 3, and CardBoard Castle. FP-77

2. AMD PowerTune and AMD ZeroCore Power are technologies offered by certain AMD Radeon™ and AMD FirePro™ 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.

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