



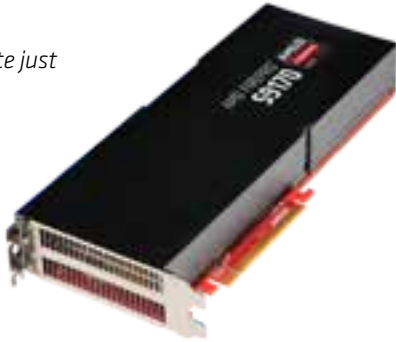
AMD FirePro™ S-Series Server Cards for Data Centers

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 power virtual machines and enable graphics accelerated desktop experiences, or tackle compute-centric workloads and accelerate many applications beyond just graphics.

AMD FirePro™ S9170

The best GPU for compute just got better.



AMD FirePro™ S9150

The most powerful server GPU card ever built.¹



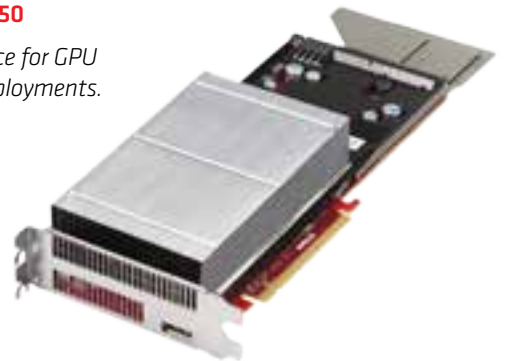
AMD FirePro™ S9100

Purpose built for HPC.



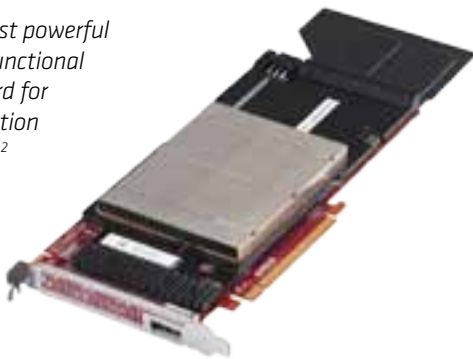
AMD FirePro™ S9050

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.²



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 support AMD STREAM technology, a set of 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, bi-directional low latency data transfers, and more.

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 support AMD SKY technology and 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 are compatible with leading virtualization technologies 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		GCN Stream Processors	Memory (GDDR5)	ECC Memory Support	Memory Bandwidth (GB/s)	PCoIP Host Processor	Maximum Power	PCIe® Support	OpenCL™	OpenCL	DirectX®	AMD PowerTune¹	AMD ZeroCore Power¹	AMD STREAM	AMD SKY	Ethernet Port	Warranty	DVI
Single Precision (TFLOPS)	Double Precision (TFLOPS)																		
FirePro S9170	5.24	2.62	2816	32GB	External	320	No	275W	3.0	2.0	4.4	N/A	•	•		No	3yr	N/A	N/A
FirePro S9150	5.07	2.53	2816	16GB	External	320	No	235W	3.0	2.0 ⁵	4.4	12	•	•		No	3yr	N/A	N/A
FirePro S9100	4.22	2.11	2560	12GB	External	320	No	225W	3.0	2.0 ⁵	4.4	12	•	•		No	3yr	N/A	N/A
FirePro S9050	3.23	.806	1792	12GB	Internal/External	264	No	225W	3.0	1.2	4.4	12	•	•	•	No	3yr		1
FirePro S9000	3.23	.806	1792	6GB	Internal/External	264	No	225W	3.0	1.2	4.4	12	•	•	•	No	3yr		1
FirePro S7000	2.4	.152	1280	4GB	No	154	No	150W	3.0	1.2	4.4	12	•	•	•	No	3yr		1
FirePro R5000	1.3	.079	768	2GB	No	102.4	1 TERA2	150W	3.0	1.2	4.4	12	•	•	•	1	3yr		2x Mini DP ⁶

in.amdfireprohub.com/products/sseries/

1. AMD FirePro™ S9150 max power is 235W and delivers up to 2.53 TFLOPS peak double and up to 5.07 peak single precision floating point performance. Nvidia's highest performing server cards in the market as of June 2014 are the Tesla K40, max power of 235W, with up to 143 TFLOPS peak double and up to 4.29 peak single, and the K10, max power 225W, with up to 4.58 TFLOPS peak single and 190 GFLOPS peak double precision. Visit <http://www.nvidia.com/object/tesla-servers.html> for Nvidia product specs. FP-97

2. AMD FirePro™ S10000 delivers up to 5.91 TFLOPS of peak single precision and 1.48 TFLOPS of peak double precision floating point performance, compared to Nvidia Tesla K10 that is capable of up to 4.58 TFLOPS of peak single precision and 190 GFLOPS double precision peak floating point performance. Visit <http://www.nvidia.com/object/tesla-servers.html> for Nvidia product specs. Comparison as of 10/31/12. FP-65

3. 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

4. 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.

5. OpenCL 1.2 conformance expected for S9150 and S9100. AMD plans to release OpenCL 2.0 drivers for enabled AMD FirePro™ S9150 server cards in Q4 2014; conformance testing is planned at that time. Previous generation AMD FirePro™ products may not support OpenCL 2.0. OpenCL and the OpenCL logo are trademarks of Apple Inc. used by permission by Khronos.

6. Can drive up 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/product-finder/zero-clients>.