AMD FirePro™ S9050
# High-Performance Server Graphics

Powerful, multifunctional server graphics card for compute, workstation graphics and VDI.

Key Features:

- Passive cooling solution for server environments
- 12GB ultrafast GDDR5 memory
- 384-bit memory interface
- Up to 264 GB/s memory bandwidth
- Massively parallel architecture designed for GPU compute
- 1,792 stream processors
- Up to 3.23 TFLOPS of single-precision floating point performance
- Up to 806 GFLOP of double-precision floating point performance
- Error correcting code (ECC) memory support (internal and external)
- Compatible with virtualization technologies from VMware, Citrix and Microsoft
- Maximum power consumption 225W
- AMD PowerTune technology[1]
- AMD STREAM technology[2]
- AMD SKY technology[2]
- OpenCL™, DirectX® and OpenGL support
- Support for SMBus temperature reporting at boot up
- Removable retention bracket
- PCIe® x16 bus interface, PCIe 3.0 compliant
- Full height/full length dual-slot form factor
- Support for Microsoft Windows 8.1, Windows® 7 and Linux (64- and 32-bit)
- FCC, CE, C-Tick, BSMI, KCC, UL,VCCI, RoHS and WEEE compliance
- Designed, built and tested by AMD
- Planned minimum two-year life cycle
- Limited three-year warranty
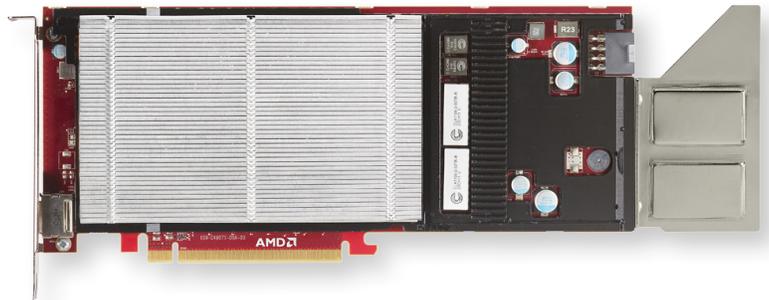
IT departments are faced with many challenges: doing more with less resources, configuring computing solutions to meet a variety of end-user needs, reigning in time spent on system support and maintenance, preventing data leakage, and supporting multiple operating systems and application versions. AMD FirePro™ S-series server GPUs are designed to help IT meet these challenges and more.

AMD FirePro S9050 server GPUs are multifunctional solutions capable of tackling compute-intensive workloads, or helping IT transition end users from physical PCs to remote desktops with exceptional graphics performance. With AMD FirePro S9050, there is only one solution for IT to maintain, update and stock to meet demanding centralized computing needs.

## GPU-accelerated compute-intensive workloads

Each AMD FirePro S9050 server GPU is capable of delivering up to 3.23 TFLOPS of peak single-precision and up to 806 GFLOPS of peak double-precision floating-point performance, at a maximum power consumption of 225 watts. For customers undertaking projects with intense processing and accuracy requirements, like computational fluid dynamics and structural mechanics, numeral analytics and molecular dynamics, AMD FirePro S9050 GPUs feature full error correcting code (ECC) memory support on internal and external memory.

GPU-accelerated visual cloud computing

The AMD FirePro S9050 server GPU is also compatible with leading virtualization technologies from VMware, Microsoft and Citrix and is capable of accelerating remote desktops, virtualized desktops and applications in the data center for both knowledge workers and traditional workstation power users.

Features	Benefits
AMD Graphics Core Next (GCN) Architecture	The world's first 28 nm GPU architecture, GCN is designed for high utilization, high throughput and multitasking
3.23 TFLOPS of Peak Single-Precision Compute Performance	Helps speed up time required to complete single-precision operations used within Video Effects and Rendering, Signal Processing, Transcoding and Digital Rendering applications where high performance takes precedence over accuracy.
806 GFLOPS of Peak Double-Precision Compute Performance	Helps speed up time required to complete double-precision operations used within Computational Fluid Dynamics, Structural Mechanics, Reservoir Simulation and Aerodynamics applications, where numerical precision is mission critical.
Error Correcting Code (ECC) Memory Support	Helps ensure the accuracy of computations by correcting single or double bit errors as a result of naturally occurring background radiation. Full internal and external memory support.
12GB GDDR5 Memory	Helps improve overall workload speed and system responsiveness, especially when working with large amounts of data.
AMD PowerTune Technology[1]	AMD PowerTune technology is an intelligent system that performs real-time analysis of applications that utilize a GPU. In the event that an application is not making the most of the power available to the GPU, AMD PowerTune can improve that application's performance by raising the GPU's clock speed by up to 30% – automatically.
AMD STREAM Technology[2]	Powers the ecosystem that enables AMD FirePro S-series server cards to be used for compute-intensive workflows leveraging the massively parallel processing power of AMD GPUs, and accelerate many applications beyond just graphics. OpenCL™ support and GPU-optimized OpenCL libraries enables developers to access the power of GPU compute through an industry standard, non-proprietary interface.
AMD SKY Technology[2]	Powers the ecosystem that enables AMD FirePro S-series server GPUs to be used to power visual cloud applications in commercial workflows, and enables graphically rich and highly responsive remote computing experiences.
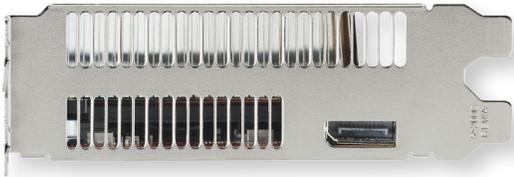
AMD FirePro™ S9050 Display Output

For more information, please visit
www.amd.com/firepro