



Key Features:

- · Application optimizations and certifications
- 16GB GDDR5 GPU memory
- 512-bit memory interface
- 320 GB/s memory bandwidth
- Direct graphics memory access (DirectGMA)
- Six Mini DisplayPort 1.2a outputs
- AMD Eyefinity multidisplay technology
- 4K display resolution (up to 4096x2160) at 60Hz without MST
- 2,816 stream processors (44 CUs)
- 5.24 TFLOPS peak single-precision
- 2.62 TFLOPS peak double-precision
- AMD HD3D Pro support1 (via stereoscopic 3-pin mini DIN)
- PCIe® 3.0 compliant, x16 bus interface
- OpenCL™, DirectX®, and OpenGL support
- 275W maximum power consumption
- · Discreet active cooling solution
- Full-height/full-length dual-slot form factor
- Planned minimum three-year lifecycle
- · Limited three-year warranty
- Support for Microsoft Windows® 10, Windows® 8.1, Windows® 7, and Linux® (32- and 64-bit)
- FCC, CE, C-Tick, BSMI, KCC, UL, VCCL, RoHS and WEEE compliance

AMD FirePro™ W9100 workstation graphics cards are designed for the next generation of 4K workstations. With industry-leading graphics, compute power, and ultrahigh resolution multidisplay capabilities, video, design, and engineering professionals can work at a whole new level of detail, speed, responsiveness, and creativity.

Unprecedented Memory Performance

AMD FirePro™ W9100 workstation graphics is the first and only graphics card to offer 16GB of ultra-fast GDDR5 memory.² It features a 512-bit memory interface and 320 GB/s bandwidth. With massive memory performance at your fingertips, you can load entire data sets or large 4K files into internal memory. With DirectGMA support, direct access to the memory helps ensure low-latency trans fers to and from the GPU.

Unrivaled Compute Prowess, OpenCL™ 2.0 Ready

AMD FirePro W9100 graphics cards are designed to support OpenCL 2.0.4 Tap into the parallel computing power of its GPU and get up to 2.62 TFLOPS of peak double-precision floating-point performance to accelerate compute-intensive tasks.

Ultimate 4K Multidisplay Workflows

With the ability to support up to six 4K displays via six Mini DisplayPort outputs,³ the AMD FirePro W9100 graphics card is the ideal single-GPU solution for the next generation of ultra-high resolution visualization environments. The AMD FirePro W9100 graphics card also supports 10-bit color and low-latency connectivity via DirectGMA to several third-party SDI Video I/O devices.

Features	Benefits
AMD Graphics Core Next architecture	Efficiently balances compute tasks with 3D workloads, enabling multitasking designed to optimize utilization and maximize performance.
16GB GDDR5 GPU memory	With a 512-bit memory interface and 320 GB/s of memory bandwidth, users can edit 4K video, layer in multiple effects, and color correct on the fly, or load massive assemblies and data sets and manipulate them in real time.
Multi-GPU support	Combine up to four AMD FirePro W9100 graphics cards in a single system and leverage the combined processing power to turn your next-generation workstation into a personal supercomputer.
AMD Eyefinity multidisplay technology support	With six Mini DisplayPort outputs and support for DisplayPort 1.2, the AMD FirePro W9100 can actually drive up to six 4K displays without DisplayPort 1.2 MST hubs ³ . The ability to run up to six 4K displays lets you visualize every detail of your project in new and exciting ways. That's nearly 50 million pixels at your command.
5.24 TFLOPS of peak single-precision floating-point performance	Helps speed up time required to complete single-precision operations used within simulations, video enhancement, signal processing, video transcoding, and digital rendering applications where high performance takes precedence over extreme accuracy.
2.62 TFLOPS of peak double-precision floating-point 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. AMD FirePro W9100 is the first graphics card to break the 2.0 TFLOPS double-precision barrier. ⁵
DisplayPort 1.2a and Adaptive-Sync support	Simultaneously outputs multiple independent audio streams and display content at resolutions beyond standard HD (maximum resolution of 4096 x 2160). Adaptive-Sync enables FreeSync technology from AMD that allows GPU control of display refresh rates for tear-free and jitter-free image quality when rotating models or viewing video content. ⁶
DirectGMA and SDI support	Removes CPU bandwidth and latency bottlenecks and optimizes communication between GPUs within a system, and third-party devices like SDI I/O cards. DirectGMA bypasses any need to traverse the host's main memory, reducing CPU utilization, and avoid redundant transfers over PCIe®, resulting in high-throughput, low-latency data transfers.
Framelock/Genlock support	Ensures accurate and consistent video synchronization to external sources or multiple GPUs in different systems; requires ATI FirePro™ S400 synchronization module.
Error Correcting Code (ECC) memory support	ECC memory helps ensure the accuracy of computations by correcting single- or double-bit errors as a result of naturally occurring background radiation. ECC enabled only on GPU memory.













www.amd.com/firepro

- AMD HD3D is a technology designed to enable stereoscopic 3D support in software applications such as Computer Aided Design and Digital Content Creation. Additional hardware (e.g., 3D-enabled panels, 3D-enabled glasses/emitter, Blu-ray 3D dive) and/or software (e.g., Blu-ray 3D discs, 3D middleware, software applications) are required for the enablement of stereoscopic 3D. Not all features may be supported on all components or systems check with your component or system manufacturer for specific model capabilities and supported technologies.

 AMD FirePro" W910D features 16GB GDDRS memory, Nvidia's highest memory card in the market as of August 2015 is the Quadro M600O with 12GB GDDRS memory. Visit http://images.nvidia.com/content/quadro/product-literature/line-card/12611_ProGraphicsLineCard_GENERIC_JUNIS_US_FNL_HR, pdf for Nvidia product specs. FP-163
 Requires 4K displays and content; performance dependent on file size. AMD Eyrien type contents are content to the content; performance dependent on file size. AMD Eyrien type contents to the content performance dependent on file size. AMD Eyrien type contents the content performance dependent on file size. AMD Eyrien type contents the content performance dependent on file size. AMD Eyrien type contents the content performance dependent on file size of the content performance d
- 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 for full details.

 AMD OpenCL 2.0 drivers are now available for AMD FirePro W5100, W7100, W8100 and W9100 graphics cards; conformance expected. Previous-generation AMD FirePro products may not support
- OpenCL 2.0.
- OpenCL 2.0. AMD FirePro* W9100 delivers 2.62 TFLOPS peak double precision floating point performance, and Nvidia's highest-performing card in the market as of April 2014 is the Quadro K6000 with 1.72 TFLOPS peak double precision. Visit http://www.nvidia.com/content/PDF/line_card/6660-nv-prographicssolutions-linecard-july13-final-lr.pdf for Nvidia product specs. FP-88. FreeSync is an AMD technology designed to reduce or eliminate screen tears in games and videos by allowing the monitor's refresh rate to be controlled by and synchronized to the graphics card. Requires DisplayPort 1.2a-compliant monitors that support DisplayPort Adaptive-Sync and an AMD FirePro W5100, W700, W8100 or W9100 graphics card with forthcoming FreeSync-enabled driver. Support for use with multiple monitors planned. Confirm supported technologies with system manufacturer before purchase.

