

AMD FirePro[™] W4100 Professional Graphics

In a class of its own

Key Features:

- Application optimizations and certifications
- AMD Graphics Core Next (GCN) GPU architecture
- Four Mini DisplayPort outputs
- DisplayPort 1.2a support
- AMD Eyefinity technology¹
- 4K display resolution (up to 4096 x 2160)
- 512 stream processors
- 645.1 GFLOPS peak single precision
- 2GB GDDR5 memory
- 128-bit memory interface
- Up to 72GB/s memory bandwidth
- PCIe[®] 3.0 compliant
- OpenCL[™], DirectX[®] and OpenGL support
- 50W maximum power consumption
- Discreet active cooling solution
- Low profile single-slot form factor
- Planned five-year life cycle
- Limited three-year warranty
- Support for Microsoft Windows 8.1, Windows[®] 7 and Linux (32-/64-bit)
- FCC, CE, C-Tick, BSMI, KCC, UL, VCCI, RoHS and WEEE compliance



The AMD FirePro[™] W4100 professional graphics card represents a completely new class of product – one that provides you with great graphics performance and display versatility while housed in a compact, low-power design.

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Increase your productivity by working across up to four high-resolution displays with AMD Eyefinity technology.¹ Manipulate 3D models and large data sets with ease thanks to 2GB of ultrafast GDDR5 memory. With a stable driver that supports a growing list of optimized and certified applications, the AMD FirePro W4100 is uniquely suited to provide the performance and quality you expect, and more, from a professional graphics card.

Performance

Get solid, midrange performance with the AMD FirePro W4100, delivering CAD performance that is up to 100% faster than the previous generation². Equipped with 2GB of ultrafast GDDR5 memory with a 128-bit memory interface, the AMD FirePro W4100 delivers up to 72GB/s of memory bandwidth, helping improve application responsiveness to your workflows. Accelerate your 3D applications with 512 stream processors and enable more efficient data transfers between the GPU and CPU with PCIe[®] 3.0 support.

Innovation

The AMD FirePro W4100 is equipped with industry-leading AMD Eyefinity technology which enables a highly immersive and unrivaled multitasking experience across up to four displays¹, powered by a single AMD FirePro W4100 graphics card. See your designs in more detail with support for up to 4K resolution via DisplayPort 1.2a. The AMD FirePro W4100 has unique power monitoring and management technologies such as AMD ZeroCore Power technology and AMD PowerTune technology³, giving you great performance while consuming less than 50W of power.

Quality

AMD works with leading software vendors to certify more than 100 applications across the entire AMD FirePro[™] product family, to ensure compatibility and reliable performance users can count on. Every AMD FirePro driver is rigorously tested and optimized for a wide variety of professional graphics applications to ensure optimal performance and stability. Unlike consumer graphics that are built and sold by multiple partners, AMD FirePro W4100 graphics cards are designed and built exclusively by AMD, delivering consistent quality, performance and reliability.

Features	Benefits
Certified Applications	The AMD FirePro [™] professional graphics family is certified on more than 100 different applications for improved performance and reliability, including the most popular design and engineering and media and entertainment applications.
Optimized Drivers	AMD FirePro [™] professional graphics driver versions are released several times each year and include performance and feature improvements. Every version undergoes a minimum of 16 consecutive weeks of testing conducted by three dedicated quality groups. AMD quality groups perform both manual and automated testing using the most stressful scenarios our engineers are able to create, plus many challenging ones from our ISV partners and OEM customers.
Graphics Core Next (GCN) Architecture	The AMD FirePro W4100 is based on the AMD Graphics Core Next (GCN) architecture, designed to effortlessly balance GPU compute and 3D workloads efficiently.
2GB GDDR5 Memory	Equipped with 2GB of ultra-fast GDDR5 memory, the W4100 can accelerate applications and process computationally complex workflows with ease.
AMD Eyefinity Technology Support	Industry-leading multidisplay technology enabling highly immersive and unrivaled multi-tasking experience across up to four displays ¹ , powered by a single AMD FirePro [™] W4100 graphics card.
OpenCL™ 1.2 Support	Let professionals tap into the parallel computing power of modern GPUs and multicore CPUs to accelerate compute- intensive tasks. The AMD FirePro W4100 supports OpenCL [™] 1.2, allowing developers to take advantage of new features that give GPUs more freedom to do the work they are designed to do. OpenCL 1.2 conformance expected.
Energy-efficient Design	AMD FirePro W4100 supports unique power monitoring and management technologies, and has a maximum power consumption of 50 watts. AMD PowerTune technology dynamically optimizes GPU power usage and AMD ZeroCore Power technology significantly reduces power consumption at long idle ³ .
AMD ZeroCore Power Technology	AMD ZeroCore Power technology leverages AMD's leadership in notebook power efficiency to grant our desktop GPUs the ability to power down when they are not actively in use, also known as the "long idle state" ³ .
AMD PowerTune Technology	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 ³ .
Future-ready for 4K	Equipped with four discrete mini DisplayPort outputs with DisplayPort 1.2a support and six display engines, the AMD FirePro W4100 can drive up to three 4K displays at 60 Hz or drive up to four 4K displays at 30 Hz ¹ . 4K displays and content required.









- AMD Eyefinity technology supports up to six DisplayPort" 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 for full details. AMD FirePo" W4100 outperforms AMD FirePo" V3900 on the CAD application viewsets in SPECviewperf^e 12, including Creo-01 (100% faster), Catia-04, SNX-02 and SW-03. AMD lab test system configuration: Intel E5-1660 3.3GHz, 16GB RAM, Win7 64bit, AMD 14.3D beta. FP-104 AMD PowerTune and AMD ZeroCore Power are technologies offered by certain AMD FirePo" products, which are designed to intelligently manage GPU power consumption in response to certain GPU load conditions. Not all products 1.
- 2.
- З. feature all technologies - check with your component or system manufacturer for specific model capabilities.

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SAPPHIRE PGS (Professional Graphics Solutions) is a business unit within SAPPHIRE Technology for Professional Graphics. It provides various types of professional graphics display solutions for workstation and professional clients. SAPPHIRE PGS supports the full range of 3D professional applications for professional users. For industrial customers, SAPPHIRE PGS integrates display related graphics application solutions for broadcasting, digital signage, medical, surveillance, ATC (Air Traffic Control) and other markets. SAPPHIRE PGS is focused on providing our customers with highly appropriate solutions and outstanding pre and after sales consultancy and services.