

AMD FIREPRO™ PROFESSIONAL GRAPHICS OPTIMISED FOR CAD/CAM/CAE



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FIREPRO
GRAPHICS

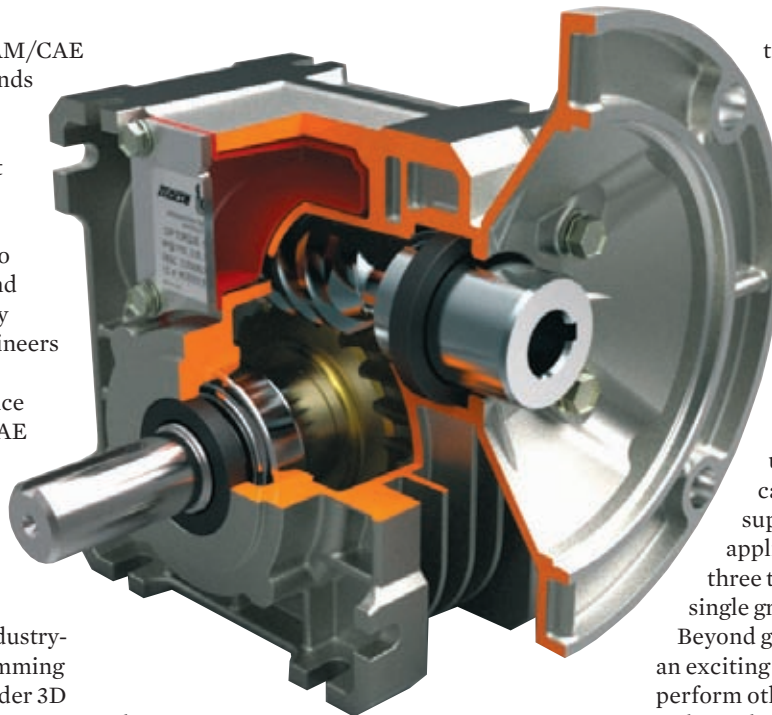
AMD

FIREPRO FOR PROFESSIONALS

AMD FirePro graphics are specifically designed for professional users of CAD/CAM/CAE software

Modern CAD/CAM/CAE software demands powerful graphics technology, but there is so much more to this than raw 3D performance out-of-the-box. AMD FirePro is a professional hardware and software graphics technology designed specifically for engineers and designers. It is tuned to deliver optimised performance inside leading CAD/CAM/CAE applications and offers levels of reliability and image quality that cannot be matched by consumer graphics cards.

AMD FirePro supports DirectX and OpenGL, the industry-standard application programming interfaces (APIs) used to render 3D graphics. However, unlike consumer cards, AMD FirePro can also use advanced API features that support technologies like RealView, which is used to visualise real-world materials inside SolidWorks.



Model rendered in KeyShot. Courtesy of Chad Holton

Reliability is also a hallmark of AMD FirePro graphics cards. AMD works with all the leading CAD/CAM/CAE Independent Software Vendors (ISVs)

to ensure that professional engineers and designers work inside a stable and high performance workstation-class graphics environment.

In terms of products, AMD has a huge family of FirePro cards catering for all types of professional users, from those using entry-level 3D CAD, right up to high-end design visualisation and digital mockup software.

AMD FirePro also offers unique multi-monitor capabilities with AMD Eyefinity, supporting advanced multi-application design workflows with three to six monitors – all from a single graphics card.

Beyond graphics AMD FirePro also has an exciting future, with huge potential to perform other computationally intensive tasks such as rendering or simulation. The emergence of the OpenCL compute language means Graphics Processing Units (GPUs) can be used alongside CPUs to significantly boost performance.

PERFORMANCE



All CAD/CAM/CAE software is different. That's why AMD works tirelessly with all the major Independent Software Vendors (ISVs) to help engineers and designers navigate complex 3D models smoothly on screen. An ongoing process, AMD FirePro users can benefit from driver optimisations throughout the lifetime of a product.

RELIABILITY



Stability plays an essential role in maintaining productivity in advanced engineering workflows. AMD works closely with software developers so FirePro cards and drivers are certified for a wide range of CAD/CAM/CAE applications. This also helps ensure that what you see on screen is exactly what you are designing in your CAD system.

MULTI DISPLAY



AMD Eyefinity is a unique multi-monitor technology that allows up to six displays to be powered by a single FirePro graphics card. Displays can be arranged side by side on a desk to enable advanced multi-application workflows or be organised in a 3 x 2 array to create a massive visual workspace for digital mockup or design visualisation.

CHILD'S PLAY WITH FIREPRO

Climbing, swinging, riding, rocking, balancing and jumping: just some of the activities you can do in a Wicksteed playscape. These play zones are such a hit with youngsters because they reflect and incorporate customer feedback — children are frequently consulted through user group projects.

Wicksteed's in-house graphics design facility is one of the most advanced in the industry with nine graphics specialists using Autodesk 3ds Max. Designers bring play worlds to life by incorporating local features and sensitively blending each playscape into the



surrounding environment with careful use of colour and layout.

As the models Wicksteed creates are both extensive and detailed, they are often quite large. Graphics designer Phil Cox explains: "I was working on one model in which there were trees and hills as well as our equipment and the file size was 235MB. Every time I tried to move the model around on the screen to look at it from different angles, my whole system froze completely and I had to switch my machine off."

Knowing the pressure under which the department works, Wicksteed's reseller Micro Concepts suggested using AMD professional graphics and Phil therefore conducted a benchmark to compare an ATI FirePro 7800 from AMD with his existing card.

"There was a huge improvement in my ability to move the model around the screen with the ATI card. The model

THE NEW GENERATION: FIREPRO V5900 AND V7900

The most recent introductions to AMD's professional graphics family are the FirePro V5900 and FirePro V7900. These powerful cards are designed specifically for users of mid-range and high-end CAD/CAM/CAE software.

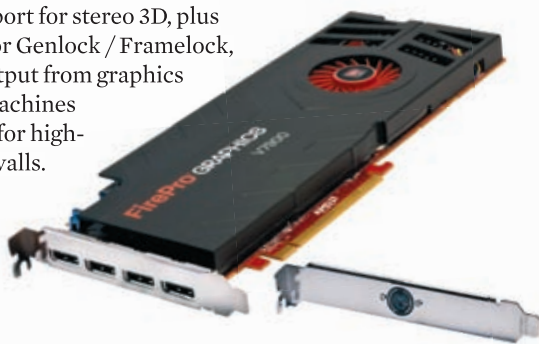
The FirePro V5900 supports up to three monitors through two DisplayPort 1.2 and one dual link DVI outputs and features 512 Stream processors and 2GB GDDR5 memory. This large memory capacity is designed to help those working with complex datasets, particularly in applications such as SolidWorks, CATIA, Alias and Vero VISI, where geometry is loaded into GPU memory using Vertex Buffer Objects (VBOs) - see 'The importance of GPU memory' on page v for more information.

Looking to the future, large memory could also help those looking to take advantage of GPU compute in OpenCL-based rendering or simulation applications which will be coming on stream later this year (see page viii).

The FirePro V7900 is AMD's high-end card for users of design visualisation software or CAD applications such as CATIA that are more able to make use of the additional GPU processing power as they are not so limited by the speed of a workstation's CPU.

The card features 1,280 Stream processors and, like the V5900, 2GB GDDR5 memory. It features four DisplayPort 1.2 outputs, which means it can also be used to drive a 2 x 2 powerwall or 4k projector. Other high-end features include support for stereo 3D, plus an optional add-on for Genlock / Framelock, where the display output from graphics cards in individual machines can be synchronised for high-performance powerwalls.

The AMD FirePro V7900 features a daughter card that can be used for stereo 3D



The large memory capacity is designed to help those working with complex datasets in VBO-based applications



THE AMD FIREPRO GRAPHICS CARD FAMILY

AMD FirePro graphics cards offer something for every type of user of CAD/CAM/CAE software. The FirePro V5900 is an excellent proposition for mid-range CAD with support for up to three monitors, while the FirePro V7900 boosts performance for high-end CAD and design visualisation and supports up to four displays. The FirePro V9800 can support up to six high definition monitors to drive a high-performance 3D powerwall.

ENTRY-LEVEL (2D & 3D CAD)



AMD FirePro V3800
512MB DDR3 memory
400 stream processors
2 supported displays
1 x DisplayPort
1 x DVI



AMD FirePro V4800
1GB GDDR5 memory
400 stream processors
3 supported displays
2 x DisplayPort
1 x DVI

MID-RANGE (3D CAD/CAM/CAE)



AMD FirePro V5900
2GB GDDR5 memory
512 stream processors
3 supported displays
2 x DisplayPort 1.2
1 x DVI

HIGH-END (3D CAD, DESIGN VIZ & DIGITAL MOCK-UP)



AMD FirePro V7900
2GB GDDR5 memory
1,280 stream processors
4 supported displays
4 x DisplayPort 1.2
Ideal for powerwalls



AMD FirePro V8800
2GB GDDR5 memory
1,600 stream processors
4 supported displays
4 x DisplayPort
Ideal for powerwalls



AMD FirePro V9800
4GB GDDR5 memory
1,600 stream processors
6 supported displays
6 x Mini DisplayPort
Ideal for powerwalls

FOR MORE INFORMATION ABOUT AMD'S FIREPRO GRAPHICS FAMILY, VISIT WWW.AMD.COM/UK/FIREPRO



never froze as I panned across and zoomed in and out. I could run animations without hesitation. Previously I'd been turning off colour to allow my computer to run more easily, but doing that makes it harder to see detail so I spent my time switching colour on and off. The new card gave me so much more power that I could leave all the colours on the screen which meant my workflow was much better."

Andy Prentice, a fellow graphics designer, experienced similar benefits: "I'm working regularly with files up to 300MB in size and the ATI FirePro 7800 card is great for rendering scenery in 3ds Max. When I develop a site model I want things to move as smoothly as possible so that I can get a good idea of what is going on. The card provides superb processing power for visualisation. It speeds up colouring and shading, switching between views and moving objects around the screen. It is definitely a lot more fluid and quicker to respond.

OPTIMISING PERFORMANCE

AMD works closely with software developers to ensure users get the most out of its hardware

Moulu' coffee roasting and grinding machine. Courtesy of Jennie Morley



For professional 3D it is not enough to simply have a powerful Graphics Processing Unit (GPU). To really get the most out of the high-performance graphics cards, drivers need to be optimized and tuned for individual CAD/CAM/CAE applications. This helps ensure that designers and

engineers are making full use of the graphics card's computational resources and that all-important frame rates are maintained when manipulating complex 3D models on screen.

Driver optimisation is a collaborative process and AMD works closely with all the leading Independent Software

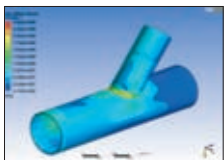
Vendors (ISVs) to help get the best 3D performance out of their OpenGL and DirectX applications.

It's an ongoing process and the performance benefits are passed onto customers for free over the lifetime of all AMD FirePro products. For example, with its recent 8.83.5.3 driver, AMD delivered significant performance improvements to SolidWorks, DS CATIA, Autodesk Maya and Autodesk Inventor.

AMD's FirePro Catalyst driver is intelligent and the end user does not need to worry about choosing the correct profile settings. It monitors which CAD/CAM/CAE application is being used and adjusts the driver profile accordingly.

3D optimisation does not end with the driver. AMD also has a dedicated team that helps ISVs optimise the graphics engines at the heart of their 3D applications. For example, AMD has helped ISVs implement new graphics technologies, such as Vertex Buffer Object (VBO) which helps boost real-time 3D performance.

FOR SIMULATION



AMD FirePro is tuned for manipulating 3D models in simulation software from

Ansys (pictured), MSC.Software, Simulia and many others. Beyond 3D graphics, FirePro can also be used alongside CPUs to massively accelerate simulation solve times (see page viii). The cards are already helping boost performance in OpenCL-based CAE software such as DEM Solutions' EDEM.

FOR CAM



AMD works closely with many of the leading Computer Aided Manufacturing

(CAM) software developers to improve 3D graphics performance, including Vero and Planit. With Vero VISI Series (pictured) and Planit's EdgeCAM, for example, AMD's FirePro team was instrumental in implementing Vertex Buffer Objects (VBOs) to significantly boost 3D performance.

FOR DESIGN VIZ



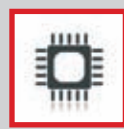
Design visualisation software is able to make use of all available GPU resources, so

high-end FirePro cards help smooth manipulation of large 3D models. To further boost performance in 3ds Max download AMD's FirePro plug-in. AMD is also working with other leading developers on new OpenCL-based software that will accelerate render times using CPUs and GPUs.

FINDING THE RIGHT BALANCE

AMD's FirePro is only one part of a 3D CAD/CAM/CAE workstation. To get the most out of the graphics card it needs to be balanced well with all of the other components in the workstation. Here are some tips to help you choose processor, memory and Operating System.

PROCESSOR (CPU)



3D performance in CAD/CAM/CAE software is closely tied into the speed of the CPU. As a result, to get the most out of your AMD FirePro graphics card, it is often important to partner it with a high GHz multi-core processor.

A quad core processor is a good all-round choice for CAD. The multiple CPU cores can boost performance in other

areas of your system, such as drawing production, rendering, simulation or CAM.

For more advanced workflows, where rendering, CAM or simulation software is used frequently, a dual processor workstation can be a good choice. Two processors can support advanced multi-tasking, where multiple processor intensive tasks can be carried out at the same time. However, it should be noted that while rendering software can make

use of every bit of processing power, CAD and simulation software can be limited in the number of CPU cores it can use.

While the CPU currently plays a key role in most computational tasks, there is a growing trend to use Graphics Processing Units (GPUs) for compute intensive tasks, such as simulation or rendering. With this in mind some design and engineering workflows may soon benefit from a single CPU matched with a powerful GPU.

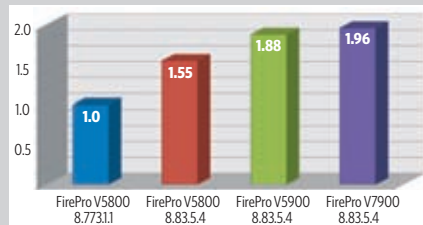
ACCELERATING 3D CAD

With AMD FirePro, 3D performance improves with both new hardware and new drivers. Here we show the performance benefits of the new FirePro V5900 and V7900 over the previous generation V5800. We also highlight how the V5800 improved over its lifetime comparing old driver (8.773.1.1) to new (8.83.5.4).

Test machine: Dell Precision T5500, Xeon W5580 (3.2GHz), 12GB 1,333MHz DDR3 RAM, Windows 7 Pro x64 SP1.

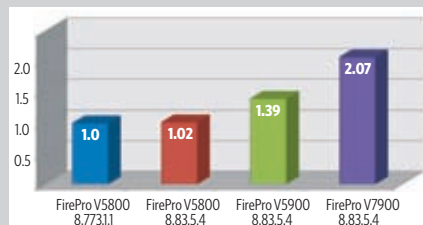
Autodesk Inventor

3D performance in Inventor, a DirectX 10 application, has always been largely dictated by the speed of the CPU, but AMD's new 8.83.5.4 driver has some clever optimisations. With Autodesk's new Product Design Suite, a 2GB graphics card, such as the FirePro V5900, should help multiple application workflows. **Chart: HTC dataset (shaded + edges) tested in Inventor 2011.**



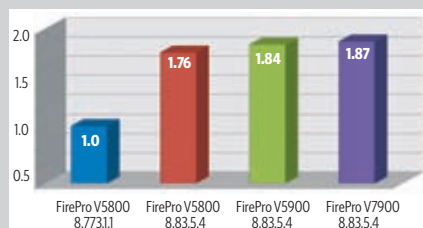
DS CATIA

Out of all of the major CAD applications, CATIA benefits the most from powerful GPUs. It uses VBOs which means those using huge 3D models will benefit most from having 2GB of GPU memory. VBOs can be switched on/off with the help of AMD's CATIA Graphic Optimizer tool. **Chart: Peugeot 807 model (shaded + edges) tested in CATbench (CATIA V5R19).**



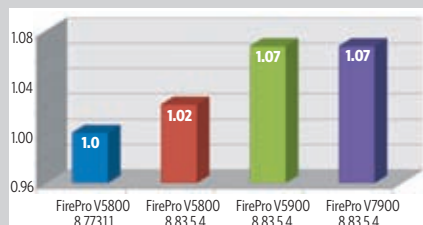
DS SolidWorks

AMD's new 8.83.5.4 driver has some impressive optimisations for SolidWorks. This is demonstrated by the huge performance boost experienced with the V5800. As SolidWorks uses VBOs, having lots of memory will be important when multiple datasets are loaded at the same time. **Chart: Camera model (RealView) tested in SolidWorks 2011.**



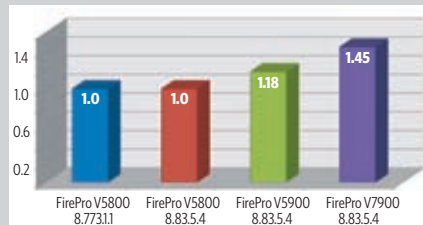
PTC Pro/E Wildfire

As an application, graphics performance in Wildfire 5 is fairly restricted by the speed of the CPU so more powerful graphics cards have fewer benefits. However, PTC's brand new design application, Creo, has a new graphics engine that may be able to harness the additional power of cards like the V7900. **Chart: OCUS 5.1 benchmark (Advanced Shading) in Wildfire 5.0.**



Siemens PLM NX

As with any high-end CAD software, datasets in NX can be very big, putting a significant load on the graphics card, particularly when 'Studio Mode' is enabled. For example, loading up a single engine block assembly takes up 800MB on its own, making a good case for lots of on-board GPU memory. **Chart: Large Assembly (static wireframe) in Siemens NX 7.5.**



THE IMPORTANCE OF GPU MEMORY

With model sizes and multi-application workflows on the rise and more software using Vertex Buffer Object (VBO) technology, having lots of graphics card memory has never been more important.

VBO is an OpenGL-based technology specifically designed to boost performance in professional 3D software. It has been implemented in key CAD/CAM applications including DS CATIA (pictured), SolidWorks, Autodesk Alias and Vero VISI Series.

VBOs allow 3D geometry to be loaded, stored and processed on the graphics card. This means that when a model is displayed on screen the geometric data does not need to move back and forth over the PCI Express bus. This helps minimise the instances when the GPU has to wait for the CPU (as it is often tied up with other tasks) leading to an increase in real-time 3D performance.

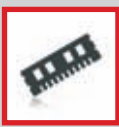
The downside of VBOs is that it can use a lot of GPU memory. Huge assemblies eat up resources and when multiple parts, assemblies and applications are loaded at the same time it has a cumulative effect.



To help avoid running out of GPU memory — which can easily happen on older generation cards and also with non-VBO applications — AMD has recently upped the minimum specification of its mid-range and high-end FirePro cards. 2GB of memory is now standard on the V5900 and V7900 and AMD believes this should be sufficient for most demanding workflows.

But how do you know if you're reaching the limit? AMD offers a free Memory Viewer to assess GPU memory usage. It provides real time feedback on the amount of graphics memory being consumed by all applications on the system and helps users pinpoint potential bottlenecks.

MEMORY (RAM)



Memory requirements are growing in CAD/CAM/CAE workstations and 8GB is now considered 'entry-level' with 16GB or more often needed to run multiple applications at the same time, while also loading up complex datasets.

To address more than 3GB of memory a 64-bit Operating System is required (see right). To improve system stability Error Code Checking (ECC) is often recommended and this is standard in high-end workstations. Non-ECC memory is more common in entry level machines.

OPERATING SYSTEM (OS)



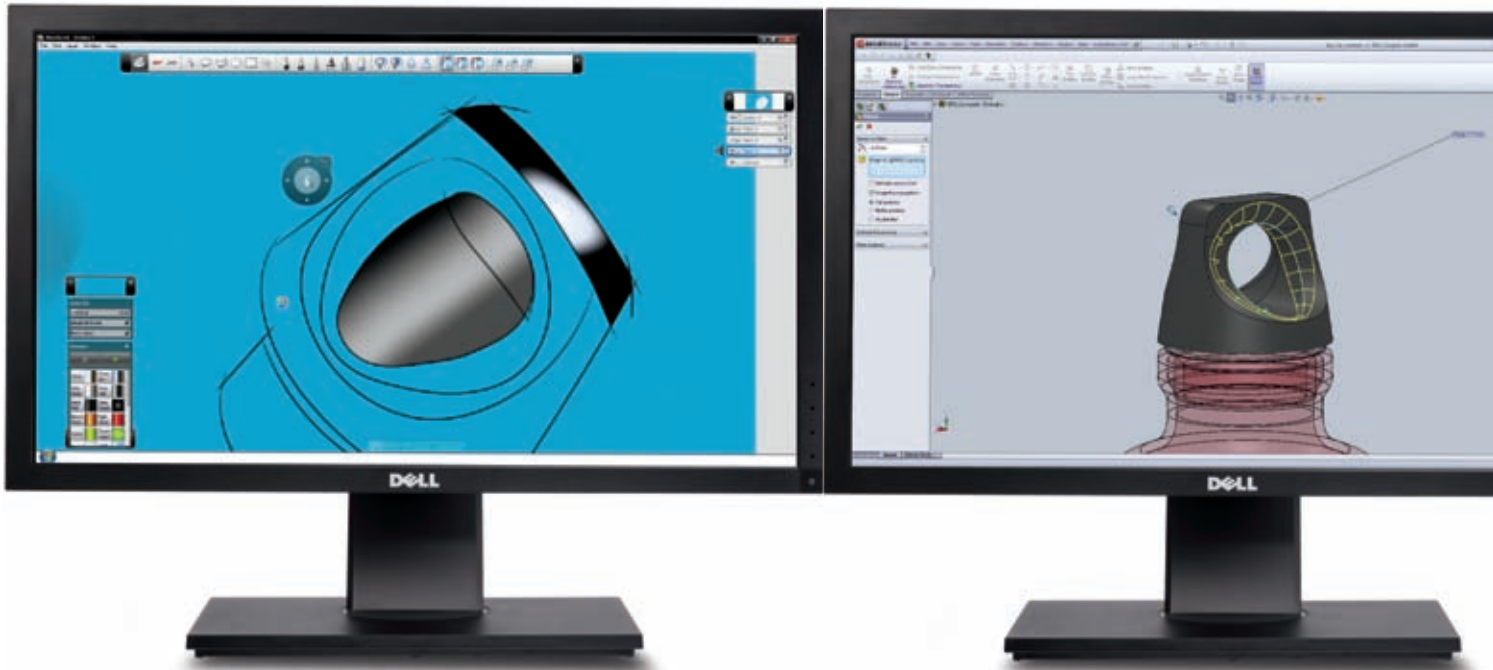
A 64-bit Operating System is required to address more than 3GB of memory. While Windows XP is still used in some firms, Windows 7 is able to handle multi-tasking more efficiently, better supporting advanced engineering workflows. Reduced support for CAD/CAM/CAE software and workstation hardware on Windows XP make an even stronger case for investing in a modern OS. It is also important to note that AMD Eyefinity multi-monitor technology (see page vi) is not supported on Windows XP.

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Courtesy of Dassault Systèmes

EXPANDING YOUR DESKTOP

AMD Eyefinity, a unique multi-display technology, accelerates huge extended desktops from a single GPU



AMD Eyefinity is a unique multi-monitor graphics technology from AMD, which enables users to run up to six high-resolution displays from a single graphics card. Monitors can sit side by side on a desk or be mounted on a wall or stand to create a massive visual workspace.

Multi monitor technology is nothing new, and many CAD/CAM/CAE users already deploy two displays side by side. However, in order to have accelerated 3D on more than two displays, two graphics cards are typically required. This can lead to configuration and power challenges and also adds to the overall cost of the workstation. AMD Eyefinity overcomes these issues by providing an easy to

configure multi-monitor solution from a single graphics card. It offers the flexibility to use different combinations of monitors and resolutions so users can expand their investment in Eyefinity at their own pace.

For engineers and designers, Eyefinity offers two primary usage scenarios. The first is where individual applications are given their own dedicated display. This enables true multi-tasking as 3D professionals have everything they need – a whole project's worth of software and data – right at their fingertips. The second is when AMD Eyefinity is used to generate a huge visual workspace or powerwall.

Dedicating individual monitors for specific tasks can offer huge productivity benefits. This means all relevant project data can be visible at the same time,

multiple results can be compared side by side, and time is not wasted 'Alt / Tabbing' between applications. This is particularly relevant to modern CAD/CAM/CAE workflows where engineers and designers use multiple applications. Examples include, part and assembly modelling, simulation and rendering, collaboration and PDM – not forgetting email, spreadsheets and Web browsing.

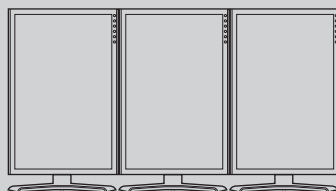
Eyefinity can also help bring down the cost of powerwalls, making large-scale visualisation accessible to companies of all sizes. Even with four low-cost HD monitors incredible detail can be revealed across an entire model. Firms can also host group digital mockup or design / review sessions on 4k projectors where styling and form and fit can be assessed and refined.

RECOMMENDED AMD EYEFINITY CONFIGURATIONS



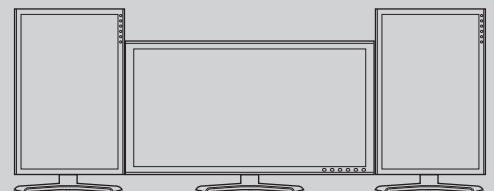
1 Three monitors: landscape (3 x 1)

One extended desktop up to 7,680 x 1,600 resolution. Supported on AMD FirePro V4800 and above.



2 Three monitors: portrait (3 x 1)

One extended desktop up to 4,800 x 2,560 resolution. Supported on AMD FirePro V4800 and above.



3 Three monitors landscape and portrait (3 x 1)

One hi-res 2,560 x 1,600 resolution display flanked by two portrait monitors of any resolution. Supported on AMD FirePro V4800 and above.

From conceptual sketching to design evolution and rendering, AMD Eyefinity can support advanced multi-application workflows



KEEPING BOTH EYES ON THE ROAD

Kirkham Motorsports, a manufacturer of aluminium-bodied Roadster cars, is a convert to AMD Eyefinity. With a single AMD FirePro V8800 card the US firm has been able to accelerate its CAD/CAM workflows across three mixed resolution monitors. Its lead designer runs SolidWorks on the main display, SurfCAM on a second and uses the third screen to monitor live webcam video feeds of its shop floor CNC machines.



"We love that there is only one graphics card in the workstation to run all these monitors," says Steve Kirkham, manager, Kirkham Motorsports.



We just jumped from using two monitors to three, and we've already noticed how much freer we are in our design work



DESIGN/REVIEW ON POWERWALLS

AMD Eyefinity technology is helping drive down the cost of powerwalls used for design/review or digital mockup. In the past this required two or more graphics cards, but with AMD Eyefinity everything can be handled from a single AMD FirePro card. The FirePro V7900 or V8800 can drive four displays in a 2 x 2 array or a 4k projector (4,000 pixels of horizontal resolution). The FirePro V9800 can drive up to six displays in a huge 3 x 2 array with resolutions up to 7,680 x 3,200.

Dassault Systèmes (DS) is a key proponent of the technology. Its R & D visualisation team has successfully tested huge five million polygons datasets in CATIA V5 and V6 with a FirePro V9800 powering a video wall with six HD (1,920 x 1,200 resolution) LCD screens.

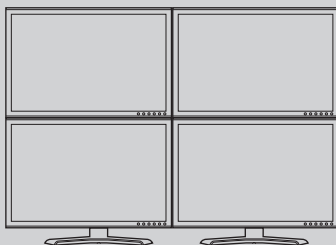
"Moving from one screen to six was very easy and we achieved very good performance and speed without the need to modify our application," says Christophe Delattre, head of the DS R & D visualisation team. "This is clearly going to have a beneficial impact on our customers and their ability to conduct collaborative design reviews on power walls and within virtual reality rooms."



Courtesy of Dassault Systèmes and PSA Peugeot Citroën

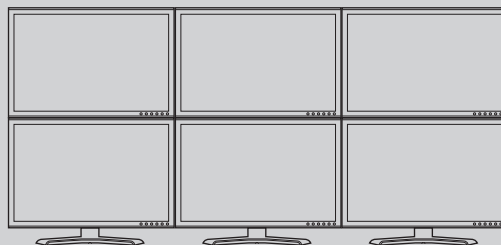
DISPLAYPORT 1.2

Boasting the latest DisplayPort 1.2 technology AMD's FirePro V5900 and V7900 will soon be able to drive even more screens from a single graphics card – up to six displays each. DisplayPort 1.2 compatible monitors will be able to be daisy-chained, or an MST Hub will be able to be used to support older displays through video standards such as DVI and VGA.



4 Four monitor array (2 x 2)

A powerwall for design/review up to 5,120 x 3,200 resolution. Supported on AMD FirePro V7900 and above.



5 Six monitor array (3 x 2)

A giant powerwall for presentations and design/review – up to 7,680 x 3,200 resolution. Only supported on AMD FirePro V9800.

AMD FIREPRO ON THE ROAD

Professional 3D graphics is also available inside the latest mobile workstations from Dell and HP

AMD FirePro is not just for desktop workstations. With FirePro Mobility, AMD's professional 3D graphics technology also powers the latest high-performance mobile workstations.

The two leading products in the AMD FirePro mobile family are the mid-range FirePro M5950 Mobility Pro, which features 480 Stream processors and 1GB GDDR5 memory, and the high-end FirePro M8900 Mobility Pro, which boasts 960 Stream processors and 2GB GDDR5 memory. Both cards also offer advanced multi-display capabilities with AMD Eyefinity technology.

The AMD FirePro M5950 Mobility Pro provides mid-range 3D graphics inside three leading mobile workstations: the Dell Precision M4600, the HP EliteBook 8560w and the HP EliteBook 8760w.

Meanwhile for users of high-end 3D CAD or design visualisation software the AMD FirePro M8900 Mobility Pro is available as an option inside the new Dell Precision M6600 mobile workstation.

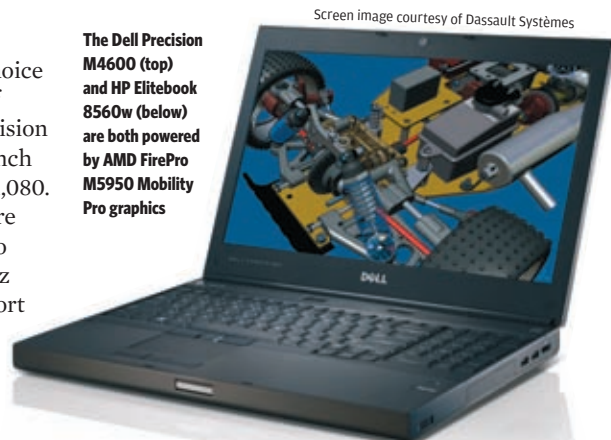
DELL PRECISION M4600 & M6600

The Dell Precision M4600 features a choice of 15.6-inch displays with resolutions of 1,366 x 768 up to 1,920 x 1,080. The Precision M6600 features a choice of larger 17.3-inch displays from 1,600 x 900 up to 1,920 x 1,080. Both machines offer the latest multi-core mobile processors and capacity for up to 32GB of 1,333MHz or 16GB of 1,666MHz memory. AMD Eyefinity provides support for up to three simultaneous displays when undocked and five total displays when docked.

HP ELITEBOOK 8560W AND 8760W

The HP Elitebook 8560w features a choice of 15.6-inch displays with resolutions from 1,600 x 900 up to 1,920 x 1,080. The HP Elitebook 8760W increases screen size to 17.3 inches with the same range of resolutions. Both machines feature the latest multi-core mobile processors and capacity for up to 32GB of 1,333MHz memory. AMD Eyefinity Technology supports up to five independent displays when using an HP Advanced Docking station.

The Dell Precision M4600 (top) and HP Elitebook 8560w (below) are both powered by AMD FirePro M5950 Mobility Pro graphics



Screen image courtesy of Dassault Systèmes



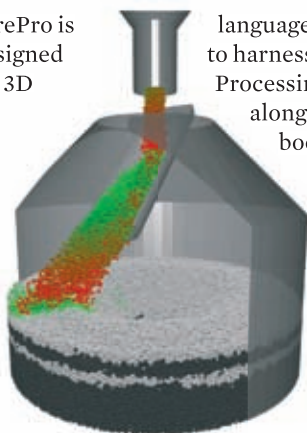
Screen image courtesy of SolidWorks

BEYOND GRAPHICS: OPENCL SIMULATION & RENDERING

While AMD FirePro is primarily designed to accelerate 3D graphics, as each card

boasts hundreds of massively parallel Stream processors there is also huge potential to perform other computationally intensive tasks, such as rendering or simulation.

The emergence of the OpenCL compute



language is now making it possible to harness the power of Graphics Processing Units (GPUs) and use them alongside CPUs to significantly boost performance.

A number of engineering simulation software developers already support OpenCL or will support it in the near future. These include Altair Engineering, Dassault Systèmes Simulia, MSC Software

and ESI Group, with software ranging from Finite Element Analysis (FEA) to manufacturing simulation.

The performance gains can be huge: DEM Solutions recently reported that the OpenCL implementation of its EDEM simulation engine (pictured right) employing AMD FirePro professional graphics runs up to 12 times faster than on quad-core CPUs.

Meanwhile, Optis, the developer of RTLab and VRLab, is just one of the software developers using OpenCL for real-time ray trace rendering.

Blast furnace image courtesy of DEM Solutions

REMOTE CONTROL

AMD offers two key remote graphics solutions that are designed to help safeguard data, reduce power and IT admin costs and make better use of compute resources.

For entry-level CAD the ATI FirePro RG220 combines an integrated graphics card with hardware-based display compression and IP transmission. The

card works by compressing dual-display graphic data at the host and outputting it over a standard IP network to a remote thin client device.

A similar client/server principle applies to AMD's FirePro V7800P, which has been certified with Dell PowerEdge M610x blade server running Microsoft's RemoteFX. This software- and GPU-centric technology

uses a feature of Remote Desktop Services in Windows Server 2008 R2 SP1 to deliver multiple numbers of accelerated Windows 7 desktops to remote users with thin client devices. RemoteFX is only compatible with DirectX-based applications, such as Autodesk Inventor or 3ds Max. It does not support OpenGL the 3D graphics API which is used in most other CAD software.

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