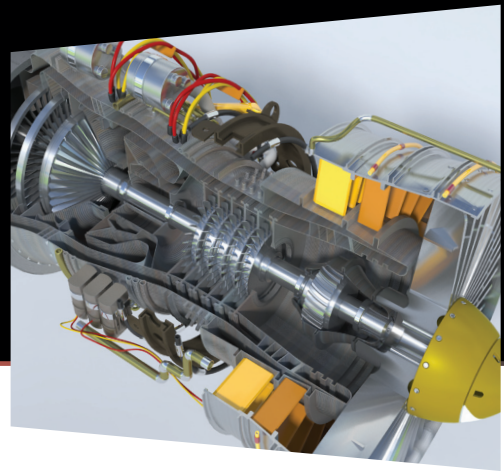




ATI FirePro™ V8700

Workstation Graphics Accelerator



Dominate Your Design™



ATI FirePro™ V8700 Workstation Graphics Accelerator

Accelerating application performance at the mid range

- Full 30-bit display pipeline producing more than one billion colors. (10-bit per RGB component)¹
- Display Port output for driving the latest generation of LCD panels
- AutoDetect dynamically optimizes performance for multi-application workflow
- Multi-View Display enables two 3D displays with independent display resolution, refresh rate and display rotation settings
- High Dynamic Range (HDR) rendering with 8-bit, 10-bit and 16-bit per RGB color component support provides a wide spectrum of color, creating natural lighting and shading effects
- Industry-Leading application performance results from partnering with ISVs to tune code specifically for ATI FirePro™ 3D graphics accelerators
- Hardware acceleration of DirectX® 10.1 & OpenGL® 2.1 advanced features delivers great performance, scalability and reliability
- Optimized and Certified for many major Computer Aided Design (CAD) and Digital Content Creation (DCC) applications ensure a level of reliability on a wide range of professional operating environments²

¹ Thirty-bit monitor required for full 30-bit display

² For a complete list of qualified applications, go to <http://ati.amd.com/products/workstation/certified.html>

Next Generation Graphics

Introducing the ATI FirePro™ V8700 workstations graphics accelerator from AMD. This ultra high-end workstation solution with 1GB frame buffer memory comes with industry highest number of shader engines (800) and GDDR5 memory technology. V8700 workstation graphics accelerator to features two DisplayPort outputs and one Dual-Link DVI-I output. With a full 30-bit display pipeline, the ATI FirePro V8700 graphics accelerator is ideally suited for users who work with large models and shader-intensive applications offering a large frame buffer for complex and large data sets offering accurate color reproduction and superior visual quality.

Based on AMD's latest generation GPU with 800 unified shader units, the ATI FirePro V8700 ultra parallel processing architecture maximizes throughput by automatically directing graphics horsepower where it's needed. Intelligent management of computational resources enables enhanced utilization of the GPU to enable real-time rendering of complex models and scenes while increasing frame rates when animating.

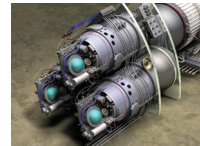
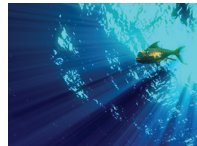
The ATI FirePro V8700 features 2 DisplayPort connectors, 1 Dual-Link DVI-I, and 1 Stereo-sync output. In addition, with native multi-card support, users can see more and do more using four displays being driven by two ATI FirePro products in the same workstation.

ATI FirePro workstation graphics accelerators are thoroughly tested and certified with major Computer Aided Design (CAD) and Digital Content Creation (DCC) applications, ensuring a level of reliability not found in consumer graphics products.

Innovation and Reliability from a Technology Leader

ATI FirePro accelerators have been engineered to deliver innovation and reliability for a wide range of professional operating environments, including Windows® XP, Windows Vista and Linux. The unified driver, which supports all ATI FirePro workstation products, helps reduce the total cost of ownership by simplifying installation, deployment and maintenance.

In addition, ATI FirePro products incorporate a unique AutoDetect technology. As users open new 3D applications, or move between them, optimized ATI FirePro graphics driver settings are automatically configured for maximum performance, no matter what the user's workflow demands. simplifying installation, deployment and maintenance.



More Power, Memory, Stability, and Flexibility

ATI FirePro V8700 professional graphics accelerators feature 512MB of dedicated on-board memory to enable maximum productivity and unprecedented performance. To provide added flexibility, multi-card support is available enabling two ATI FirePro cards to drive up to four accelerated 3D displays.



ATI FirePro™ V8700

Workstation Graphics Accelerator

Product Overview

Features

- Powered by advanced ATI FirePro Graphics Processor Unit (GPU) with Unified Shaders
- 800 unified shader units
- Full Shader Model 4.1 support
- 1GB graphics memory
- High Dynamic Range (HDR) rendering
- Full 30-bit precision display pipeline (10 Bit per RGB component)
- Advanced support for 8-bit, 10-bit, and 16-bit per RGB color component
- PCI Express® 2.0 compliant

System Requirements

- PCI Express-based workstation with available ×16 lane graphics slot
- 350-Watt power supply or greater (assumes fully loaded system)
- 512MB of system memory
- Installation software requires CD-ROM drive

Display Capabilities

- Two DisplayPort Outputs
- Dual Link DVI-I output supports digital or analog display
- Independent multi-monitor resolution and refresh rate selection
- VGA analog support¹

ATI Warranty and Support

- Three year limited product repair / replacement warranty
- Direct toll free phone and email access to dedicated workstation technical support team²
- Advanced parts replacement option

API and OS Support

- OpenGL® 2.1 with OpenGL Shading Language
- Microsoft® DirectX® 10.1
- Windows® XP, Windows XP64, Windows Vista and Windows Vista64
- Linux® 32 and Linux 64³

- VGA output supported through DVI-I to VGA adapter included with product
- Toll free hotline available in North America
- Linux drivers can be downloaded from AMD website

For more information,
visit ati.amd.com/firepro



Features	Benefits
Unified Shader Architecture	Intelligent management of computation resources enables real-time rendering of more complex and realistic images
AutoDetect Technology	As a user moves between applications, or opens new ones, the graphics driver settings are automatically configured for maximum performance
Full 30-bit Display Pipeline (10 bit per RGB)	Enables four times more color values than competitive 8-bit products for more accurate color reproduction and superior visual fidelity
High Dynamic Range (HDR) Rendering	Up to 16-Bit per RGB color component enables a wider spectrum of color creating natural lighting and shading effects
Multi-View Display	With a Dual Link DVI output and DisplayPort output, Multi-View enables two 3D displays with independent display resolution, refresh rate, and display rotation settings
Full Shader Model 4.1 Support	Create more complex geometry and scenes without taxing the CPU
Certification	There is a high level of assurance when purchasing a configuration that is reliable, provides the performance necessary for professional 2D or 3D graphic needs and expands to include integrated AMD expert support.
DirectX 10.1 and OpenGL 2.1 Advanced Features	Great performance, scalability and reliability

Product Comparison	V3600	V3700	V3750	V5600	V5700	V7600	V7700	V8600	V8650	V8700
Graphic Processing Unit										
Shader Processing Units	120	40	320	120	320	320	320	320	320	800
Full 30-bit Display Pipeline	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stream Computing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Memory										
Configuration	256MB	256MB	512MB	512MB	512MB	512MB	512MB	1GB	2GB	1GB
Bandwidth (GB/sec)	16	15.2	22.4	35	28.8	51	72	108	108	108.8
Display Capabilities										
Color Depth	8, 10, 16-bit	8, 10, 16-bit	8, 10, 16-bit	8, 10, 16-bit	8, 10, 16-bit	8, 10, 16-bit	8, 10, 16-bit	8, 10, 16-bit	8, 10, 16-bit	8, 10, 16-bit
Dual Link DVI Connectors	2	2	1	2	1	2	1	2	2	1
DisplayPort Output	-	-	2	-	2	-	1	-	-	2
HD Component Video Output	-	-	-	-	-	1	1	1	1	1
Stereo 3D Output	-	-	-	-	-	1	1	1	1	1
Maximum Display Port Resolution	-	-	2560x 1600	-	2560x 1600	-	2560x 1600	-	-	2560x 1600
Maximum Dual Link Resolution	2560x 1600	2560x 1600	2560x 1600	2560x 1600	2560x 1600	2560x 1600	2560x 1600	2560x 1600	2560x 1600	2560x 1600
Maximum Single Link Resolution	1920x 1200	1920x 1200	1920x 1200	1920x 1200	1920x 1200	1920x 1200	1920x 1200	1920x 1200	1920x 1200	1920x 1440