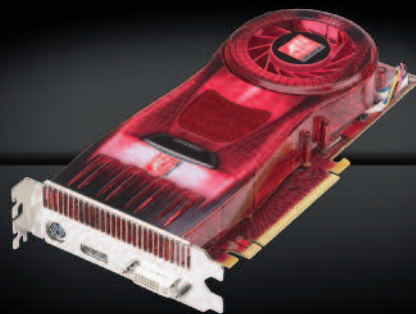




Innovation
Performance
Productivity



ATI FireGL™ Workstation Graphics Accelerators

Maximizing Productivity

Image provided courtesy of Youngwoong Jang.



The Next Generation of ATI FireGL™

Introducing the all new series of ATI FireGL workstation graphics accelerators from AMD. With options ranging from the industry's first 2GB frame buffer at the ultra high-end, to the full-featured 256MB entry-level solution, this new family of ATI FireGL products is designed to deliver blistering performance with many top software application.

Based on a next generation Unified Shader architecture with up to 320 processors in the graphics processing unit (GPU), these cards maximize 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.

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

Innovation and Reliability from a Technology Leader

The ATI FireGL™ product line has 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 FireGL™ workstation products, helps reduce the total cost of ownership by simplifying installation, deployment and maintenance.

In addition, ATI FireGL™ products incorporate AMD's unique AutoDetect technology. As users open new 3D applications, or move between them, optimized ATI FireGL™ graphics driver settings are automatically configured for maximum performance no matter what the workflow.

To further leverage your graphics card investment, stream computing applications can take advantage of the massive parallel processing capability of the GPU for compute-intensive tasks such as physics, structural analysis and fluid dynamics.

Unprecedented Visual Fidelity with a 10-bit Display Pipeline

Designed with a 10-bit display pipeline and support for High Dynamic Range output, ATI FireGL™ professional graphics accelerators can produce over one billion colors for the most vibrant visual fidelity. ATI FireGL™ cards feature two Dual Link enabled DVI outputs, capable of generating a multi-monitor desktop of over 5000 pixels wide⁴.

Featuring native multi-card support, users can see more and do more with four displays being driven by two ATI FireGL™ cards in the same workstation. HD component output as well as quad buffered stereoscopic 3D output are available on high-end and ultra high-end models offering added levels of realism for specialty applications.









All ATI FireGL™ workstation graphics accelerators feature AutoDetect for optimized performance regardless of your workflow and are certified for many major CAD and DCC applications

⁴See product comparison chart for specific model details



Superior Power, Memory, Stability and Flexibility

ATI FireGL™ workstation graphics accelerators range from 256 MB all the way up to 2 GB of dedicated on-board memory to enable maximum productivity and unprecedented performance. To provide added flexibility, multi-card support is now available enabling two ATI FireGL™ cards to drive four accelerated 3D displays.

						
MODEL NUMBER	V3600	V5600	V7600	V7700	V8600	V8650
Manufacturer Suggested Retail Price (US \$)	249	599	999	1099	1899	2799
Shader Processing Units	120	120	320	320	320	320
Memory Framebuffer Size	256 MB	512 MB	512 MB	512 MB	1 GB	2 GB
Memory Bandwidth	16 GB/sec	35 GB/sec	51 GB/sec	72 GB/sec	108 GB/sec	108 GB/sec
PCI Express™ 2.0 ¹	Compatible	Compatible	Compatible	Compliant	Compatible	Compatible
Required Number of Slots	1	1	2	2	2	2
Recommended Minimum System Power Supply ²	350 W	350 W	450 W	450 W	650 W	650 W
Additional Power Connector	None	None	6 or 8-pin	6 or 8-pin	6 & 8-pin	6 & 8-pin
Dual Link DVI Output	2	2	2	1	2	2
Dual DisplayPort™ Outputs	•	•	•	1	•	•
HD Component Video Output ³	•	•	1	1	1	1
Stereo 3D Output	•	•	1	1	1	1
Maximum Dual Link DVI Resolution	3840 x 2400	3840 x 2400	3840 x 2400	3840 x 2400	3840 x 2400	3840 x 2400
Maximum Dual Connector Resolution	5120 x 1600	5120 x 1600	5120 x 1600	5120 x 1600	5120 x 1600	5120 x 1600
Retail Part Number	100-505507	100-505511	100-505508	100-505505	100-505518	100-505509
OpenGL® 2.1, DirectX® 10.1 Support	Yes	Yes	Yes	Yes	Yes	Yes

¹ At PCI Express 1x throughput rates

² Based on typical workstation configuration

³ With supplied adapter

SEGMENT	CARD	MARKET*	MODEL SIZE
Ultra High End	ATI FireGL™ V8650	High-end DCC, Medical	Massive datasets & textures, whole scenes, multiple rigs
Ultra High End	ATI FireGL™ V8600	High-end DCC, CAD, Medical	Massive datasets & textures, whole scenes, multiple rigs
High End	ATI FireGL™ V7700	CAD, DCC	Large datasets & textures
High End	ATI FireGL™ V7600	CAD, DCC	Large datasets & textures
Mid Range	ATI FireGL™ V5600	CAD, DCC	Average datasets & models
Entry Level	ATI FireGL™ V3600	CAD	Simple datasets & models

* For a complete list of qualified applications, go to <http://ati.amd.com/products/workstation/SVCertsFireGL.pdf>

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 10-bit Display Pipeline

Enables four times more color values than competitive 8-bit products for more accurate color reproduction and superior visual fidelity.⁴

High Dynamic Range (HDR) Rendering

Up to 16-Bit per RGB color component enables a wide spectrum of color creating natural lighting and shading effects.

Multi-View Display

With Dual Link DVI and DisplayPort outputs, Multi-View enables two 3D displays with independent display resolution, refresh rate, and display rotation settings.

Full Shader Model 4.0 Support

Allows the user to create complex geometry and scenes without taxing the CPU.

Certification

There is a high level of assurance when purchasing a configuration that is reliable, which provides the performance necessary for professional 2D or 3D graphic needs, and which includes integrated AMD expert support⁵

DirectX10.1 and OpenGL 2.1 Advanced Features

Great performance, scalability and reliability.

⁴Ten-bit monitor required for viewing full 10-bit image quality.

⁵Some conditions apply. Visit this link for details: <http://support.ati.com/ics/support/default.asp?deptID=894>

For more information, please visit ati.amd.com/FireGL

ATI FireGL™ Graphics Accelerators. No Boundaries



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Primary cover image provided by Youngwoong Jang. Other images provided courtesy of Lumiscaphe, PTC, Redway3D, Barco, Works Zebra and Fausto De Martini.

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