



# ATI FirePro™ V5800

Professional Graphics



## Command Your Creations



- **Outstanding performance for the 3D mid-range segment**
- **2.5X computing capability over prior generation<sup>2</sup>**
- **Support both dual-link DVI and DisplayPort connectivity<sup>4</sup>**
- **ATI Eyefinity capable graphics card<sup>1</sup>**
- **Drive up to 3 independent 30" displays<sup>4</sup> — 12.3 million pixels<sup>6</sup>**
- **1GB GDDR5 memory**
- **High Dynamic Range (HDR) rendering with 8-bit, 10-bit, and 16-bit per RGB color component support**
- **Scalable ultra parallel processing architecture with 800 stream processors**
- **AutoDetect technology instinctively optimizes performance for multi-application workflow**
- **Hardware acceleration of DirectX<sup>®</sup> 11 & OpenGL<sup>®</sup> 3.2 advanced features**
- **Optimized and certified for many major CAD and DCC applications**
- **PCI Express<sup>®</sup> 2.0 compliant**

### Perfect balance of price and performance in a single slot, full height/full length form factor

Introducing the ATI FirePro™ V5800 workstation graphics card from AMD. This mid-range workstation solution featuring ATI Eyefinity technology<sup>1</sup> and 1GB of ultra high speed GDDR5 memory and more than double the computational power of previous-generation products.<sup>2</sup> It is an excellent combination of price and performance. The ATI FirePro™ V5800 is ideally suited for CAD and DCC users who work with medium to large models. The native 30-bit display pipeline in the GPU provides accurate color reproduction and superior visual quality.<sup>3</sup>

Based on a new generation GPU with 800 stream processors, the ATI FirePro™ V5800 ultra parallel processing architecture helps 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.

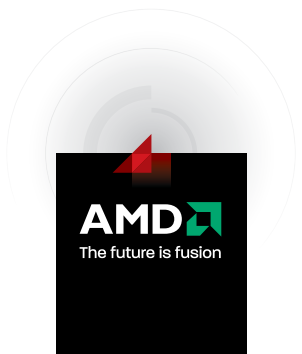
The ATI FirePro™ V5800 features three independent outputs<sup>4</sup> (two DisplayPort and one dual-link DVI) with ATI Eyefinity technology<sup>1</sup> support, providing improvement to productivity at a much lower acquisition and operating cost than multi-card solutions. In addition, with native multi-card support, users can see more and do more using up to six displays being driven by two ATI FirePro™ V5800 cards in the same workstation.<sup>4,5</sup>

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

### Innovation and Reliability from a Technology Leader

Besides the new and ground breaking ATI Eyefinity technology<sup>1</sup>, ATI FirePro™ cards have been engineered to deliver innovation and reliability for a wide range of professional operating environments, including Microsoft<sup>®</sup> Windows<sup>®</sup> 7, Windows<sup>®</sup> XP, Windows Vista<sup>®</sup> and Linux<sup>®</sup>. The unified driver, which supports all ATI FirePro™ 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, ATI FirePro™ graphics driver settings are automatically configured for optimized performance of supported applications, no matter what the user's workflow demands.





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## Professional Graphics

Features	Benefits
ATI Eyefinity Technology	Advanced multi-display technology delivering highly immersive graphics/computing experience with innovative display capabilities supporting massive desktop workspaces <sup>1</sup>
AutoDetect Technology	As a user moves between applications, or opens new ones, the graphics driver settings are automatically configured for optimized performance
Full 30-bit Display Pipeline	Enables more color values than 24-bit products for more accurate color reproduction and superior visual fidelity <sup>2</sup>
Multi-View Display	With two DisplayPort and one dual-link DVI outputs, Multi-View enables up to three displays with independent display resolution, refresh rate, and display rotation settings <sup>4,1</sup>
Full Shader Model 5.0 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 and provides the performance necessary for professional 3D graphics needs
DirectX® 11 and OpenGL® 3.2 Advanced Features	Great performance, scalability and reliability
OpenCL™ 1.0	Industry standard API - Open, multiplatform development platform for enabling broad adoption of heterogeneous computing <sup>7</sup>

Ordering Information	
Retail SKU	
Part Number	100-505605
UPC Code	727419415156
Retail Package Weight	1.50 lbs (0.68 Kg)
Retail Package Dimensions	11.5 x 9.5 x 2.87 in (29.21 x 24.13 x 7.30 cm)

<sup>1</sup> ATI Eyefinity technology can support multiple displays using a single enabled ATI FirePro™ professional graphics card; the number of supported displays varies by card model. Microsoft® Windows® 7, Windows Vista®, or Linux® is required in order to support more than 2 displays. Depending on the card model, native DisplayPort™ connectors and/or certified DisplayPort™ active or passive adapters to convert your monitor's native input to your card's DisplayPort™ or Mini-DisplayPort™ connector(s) may be required. See [www.amd.com/firepro](http://www.amd.com/firepro) for details.

<sup>2</sup> Based on 800 stream processors for ATI FirePro™ V5800 vs. 320 stream processors for ATI FirePro™ V5700.

<sup>3</sup> Thirty-bit monitor required for full 30-bit display.

<sup>4</sup> Each ATI FirePro V5800 professional graphics card supports up to three independent displays, using the two DisplayPort connectors and the one dual-link DVI connector (cables not included).

<sup>5</sup> Specific power, chassis space, connector, and resource requirements may apply. Check with system manufacturer to see if dual cards are supported.

<sup>6</sup> 2560 x 1600 resolution required for full 12.3 million pixel resolution.

<sup>7</sup> OpenCL™ compliant driver and SDK release scheduled in 2010.

<sup>8</sup> Linux® drivers can be downloaded from [support.amd.com](http://support.amd.com).

<sup>9</sup> Second DVI output supported through one included single-link DP to DVI adapters, dual-link and additional single-link adapters sold separately.

<sup>10</sup> VGA output supported through one included DP to VGA adapter, additional adapters sold separately.

<sup>11</sup> Toll free hotline available in North America.



For more information, visit [www.amd.com/firepro](http://www.amd.com/firepro)

Product Specifications	
<b>GPU</b>	
Stream Processors	800
Memory Interface	128-bit
<b>Memory</b>	
Size/Type	1GB GDDR5
Bandwidth (GB/s)	64.0
<b>Display Outputs</b>	
DisplayPort	2 Standard
Dual-link DVI	1
Max Resolution	2560x1600 @ 60Hz
<b>API/Feature/OS Support</b>	
DirectX®	11.0
OpenGL®	3.2
Shader Model	5.0
ATI Eyefinity Technology Support <sup>1</sup>	Yes
ATI CrossFire™ Pro Support <sup>5</sup>	Yes
ATI FirePro™ S400 Synchronization Module Support (for Framelock/Genlock)	Yes
Stream Computing	Yes (OpenCL™ 1.0 <sup>7</sup> )
OS Support	Microsoft® Windows® 7, Windows® XP, Windows Vista®, Linux® <sup>8</sup> (32-bit or 64-bit)
<b>Thermal/Power/Form Factor</b>	
Max Power	75 W
Slot(s)	1
Form Factor	Full Height / Full Length
Support Energy Star® 5.0 Compliance	Yes
Bus Interface	PCI Express® 2.0 x16
<b>Additional Details</b>	
System Requirements	→ 512MB of system memory → CD-ROM drive (or internet access) for software installation → Power supply w/75W for graphics
Retail Package Contents	→ ATI FirePro™ V5800 professional graphics card → Installation CD with drivers and documentation → Quick Start Reference Guide → One DP to DVI (single-link) adapters <sup>9</sup> → One DVI to VGA adapter <sup>10</sup> → One ATI CrossFire™ Pro connection cable
ISV Certifications	Many major CAD and DCC applications (visit <a href="http://ati.amd.com/products/workstation/certified_graphics_accelerators.html">http://ati.amd.com/products/workstation/certified_graphics_accelerators.html</a> for complete listing)
Warranty and Support	→ Three year limited product repair / replacement warranty → Direct toll free phone and email access to dedicated workstation technical support team <sup>11</sup> → Advanced parts replacement option