

**FIREPRO**  
GRAPHICS

AMD

# AMD FirePro™ V7800P

PROFESSIONAL GRAPHICS



## KEY FEATURES:

- Specially designed for use in rackmount servers, blade servers and PCIe® expansion chassis
- Passive thermal energy efficient design helps minimize power costs
- Single-slot solution provides deployment flexibility
- Optimized for professional graphics applications
- Massively parallel architecture for GPU compute
- Designed and thoroughly tested by AMD
- Planned minimum three year lifecycle
- Limited three year warranty

## AMD's First Multifunctional Server Solution for Compute, Professional Graphics and VDI

IT departments are faced with many challenges: doing more with less resource, configuring computing solutions to meet the needs of various user segments, reigning in time spent on system support and maintenance, and preventing data leakage.

AMD FirePro™ V7800P professional graphics are designed to help IT meet these challenges and more.

AMD FirePro V7800P professional graphics offer the same features and benefits as the ATI FirePro V7800 in a passively cooled form factor ideal for server environments. Delivering ultra-fast performance, superb visual quality and massively parallel processing power, AMD FirePro V7800P professional graphics can help IT minimize operating costs and time spent on servicing individual systems, increase asset utilization density and secure critical data.

Coupled with a single unified driver, AMD FirePro V7800P professional graphics offers IT a flexible and scalable solution capable of supporting traditional professional graphics applications for CAD and Digital Content Creation (DCC), Remote Graphics and Virtual Desktop Infrastructure (VDI) deployments, rendering farms and High Performance Computing implementations. With AMD FirePro V7800P professional graphics there is only one solution for IT to maintain, update and stock to meet multiple centralized computing needs.

### GPU Compute for High Performance Computing

AMD FirePro V7800P professional graphics are designed to meet the demanding performance and reliability requirements of High Performance Computing (HPC) clusters that scale to thousands of nodes. Its massively parallel architecture, featuring 1,440 stream processors, is capable of tackling the most demanding

compute-intensive, data-parallel tasks. For companies undertaking projects with intense processing requirements, like computational fluid dynamics and structural mechanics, numeral analytics and molecular dynamics, the AMD FirePro V7800P offers maximum performance in an energy efficient, single-slot configuration.

AMD FirePro V7800P professional graphics and the current family of AMD professional graphics solutions support OpenCL™ 1.1, OpenGL 4.1 and DirectX® 11.

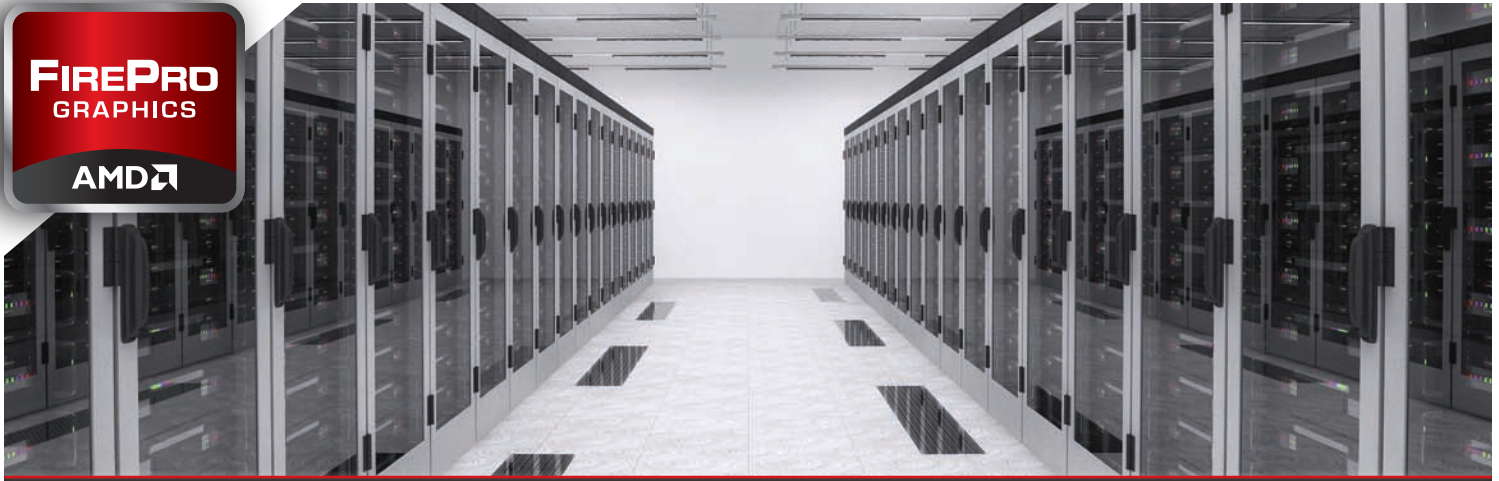
### The Leading Edge of Graphics Virtualization

AMD FirePro professional graphics support leading virtualization technologies enabling the delivery of graphically accelerated computing experiences to a range of client devices. When a single AMD FirePro V7800P professional graphics card is installed in a rack or blade server or PCIe expansion chassis, it can support multiple concurrent user computing sessions – including rich media like full-motion video and 3D applications. All users need to connect is a PC client device or a zero client portal. No special hardware is required at each end user's workspace – just a display, keyboard and mouse. Users have the ability to work seamlessly with business productivity applications, video, graphically rich OS interfaces, as well as professional CAD and DCC applications.

AMD FirePro V7800P professional graphics are also capable of supporting government contractors, medical professionals, designers and engineers who work with more specialized applications and/or work with sensitive information.

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FEATURES	BENEFITS
Passive Cooling	<ul style="list-style-type: none"> <li>→ Simplifies thermal design for servers</li> <li>→ Silent operation</li> <li>→ Deployment flexibility</li> </ul>
Unified Driver Architecture	One driver spans the entire family of AMD FirePro™ professional graphics, helping to simplify maintenance and system administration
Scalable Ultra Parallel Processing Architecture	Enables revolutionary floating-point performance across a wide range of computing applications: <ul style="list-style-type: none"> <li>→ 400 GFLOPS of Double Precision</li> <li>→ 2.0 TFLOPS Single Precision</li> </ul>
Application Optimization	AMD FirePro professional graphics are optimized for professional graphics applications and support applications built on key industry standards



PRODUCT SPECIFICATIONS	
Memory	
Size/Type	2GB GDDR5
Output Connectivity	
Display Output	Features single DisplayPort 1.1 connector
Adapters	One DisplayPort to DVI (single link)
API and OS Support	
API Support	OpenGL 4.1 DirectX® 11 (including DirectCompute) OpenCL™ 1.1
General OS Support	Microsoft® Windows Server® 2008 R2 SP1, Microsoft® Windows® XP, Microsoft® Windows® Vista, Windows® 7 and Linux® 14 <sup>1</sup> (32-bit or 64-bit)
Power Consumption and Form Factor	
Max Power	138W
Slots and Bus Interface	One, PCIe® 2.1 x16
Form Factor	Full height / full length
Additional Details	
System Requirements	<ul style="list-style-type: none"> <li>→ 512MB of system memory</li> <li>→ Power supply with 150W for graphics and one 2x3 pin power connector</li> <li>→ Available PCIe® x16 slot</li> <li>→ Microsoft® Windows Server® 2008 R2 SP1, Microsoft® Windows® XP, Windows Vista®, Windows® 7 or Linux® 14 (32-bit or 64-bit)</li> </ul>
Warranty and Support	<ul style="list-style-type: none"> <li>→ Three year limited product repair/replacement warranty</li> <li>→ Direct toll free phone and email access to dedicated workstation technical support team<sup>2</sup></li> <li>→ Advanced parts replacement option</li> </ul>
Regulatory Compliance	FCC, CE, C-Tick, BSMI, KCC, UL, VCCI, RoHS and WEEE



Windows Server™ 2008



<sup>1</sup> Linux drivers can be downloaded from support.amd.com.  
<sup>2</sup> Toll-free phone service available in U.S. and Canada only, email access is global.

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

