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ATI FirePro V8800 2GB Graphics Card   WL051AA

Introduction

Introducing the ATI FirePro V8800 workstations graphics accelerator from AMD: this high end workstation solution features ATI Eyefinity Technology, 2GB of ultra high speed GDDR5 memory and more than double the computational power of previous generation products. With its large frame buffer and full 30-bit display pipeline, the ATI FirePro V8800 is ideally suited for users who work with large data sets or shader-intensive applications and who demand accurate color reproduction and superior visual quality.

Based on a new generation GPU with 1600 Stream Processors, the ATI FirePro V8800 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 extremely complex models and scenes.

Performance and Features

- Features four DisplayPort outputs driven by ATI Eyefinity* technology, offering an unprecedented multitude of display configurations including:
    - Multi-monitor desktop of over 10,000 pixels wide
    - Driving 4k projectors
    - Delivering combinations of portrait and landscape orientations
    - Driving virtual prototyping and video wall scenarios with multiple projectors
- Workstation quality and performance for the high end market
- Scalable ultra parallel processing architecture with 1600 Stream cores providing 2.7 teraflops of single-precision performance and 544 gigaflops of dual-precision performance
- Full 30-bit Display Pipeline enables four times more color values than 24-bit products
- Multi-View enables four 3D displays with independent display resolution, refresh rate, and display rotation settings

*Eyefinity technology supported on Win7, Vista, and Linux.

Compatibility

The ATI FirePro V8800 is supported on the Z800 Personal Workstation.

Service and Support

The ATI FirePro V8800 has a three-year limited warranty or the remainder of the warranty of the HP product in which it is installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Parts and labor are available on-site within the next business day. Telephone support is available for parts diagnosis and installation. Certain restrictions and exclusions apply.

Technical Specifications

Form Factor	4.38 in (H) x 10.5 in (L) Dual Slot
Graphics Controller	ATI FirePro V8800 Graphics Card
Bus Type	PCI Express x16, Generation 2.0
Memory	2GB GDDR5 SDRAM
Connectors	4x DisplayPort outputs
	Includes two DP to DVI adapters
Maximum Resolution	Up to four digital displays at resolutions up to 2560 x 1600 @ 60Hz or up to four analog displays at resolutions up to 1920 x 1200 @ 60Hz (165 MHz dot clock)
	NOTE: This card supports up to four displays with Vista, Win7, or Linux, up to two displays with XP.
RAMDAC	400 MHz DAC, 10-bits per channel
Image Quality Features	• 4 independent outputs with ATI Eyefinity1 technology support (More information at www.amd.com/us/products/technologies/eyefinity/) • Full 30-bit display pipeline for more accurate color reproduction superior image quality2 • Advanced video capabilities, including high fidelity gamma, color correction and scaling • Dedicated hardware (UVD2) for H.264, VC-1, and MPEG2 decode
Shading Architecture	• Support for Full Shader Model 5.0 • Dynamic load balancing and resource allocation for vertex, geometry, and pixel shaders • Common instruction set and texture unit access supported for all types of shaders • Dedicated branch execution units and texture address processors • Anti-aliases Shaders and Textures as well as Polygon Edges
Supported Graphics APIs	DirectX 11, OpenGL 3.2, OpenCL 1.0 and full implementation of DirectCompute 11. (OpenCL™ compliant driver and SDK release scheduled in 2010)
Available Graphics Drivers	Genuine Windows 7 Professional (64-bit and 32-bit) Genuine Windows Vista Business (64-bit and 32-bit) Microsoft Windows XP Professional (64-bit and 32-bit)
	HP qualified drivers may be preloaded or available from the HP support Web site: http://welcome.hp.com/country/us/en/support.html
	Linux drivers available directly from AMD at www.amd.com
Parallel Processor Cores	1600 stream processors (2.7 TFLOPS single-precision and 544 GFLOPS dual-precision performance)
Power consumption	208 Watts
	NOTE: Dual FirePro V8800's require an 1110 PSU.