

Overview

Model

ATI FirePro V5700 512MB Graphics Card

VY947AA

Introduction

Introducing the ATI FirePro™ V5700 workstations graphics accelerator from AMD. This midrange workstation solution with 512MB of frame buffer memory is among the industry's first 3D workstation graphics accelerators to feature two DisplayPort output. With a full 30-bit display pipeline producing more than one billion colors (10-bit per RGB component). The ATI FirePro V5700 is ideally suited for applications that benefit from accurate color reproduction and superior visual quality.

Based on a new generation GPU with 320 unified shader units, the ATI FirePro V5700 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 V5700 features two DisplayPort outputs and a Dual Link enabled DVI output, together generating a multi-monitor desktop of over 5000 pixels wide from a single accelerator. In addition, with native multi-card support, users can see more and do more using up to 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.

Performance and Features

- Full 30-bit display pipeline producing more than one billion colors. (10-bit per RGB component)*
- DisplayPort 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 OpenGL® 2.1 & DirectX® 10.1 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 environments

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

Compatibility

The ATI FirePro V5700 is supported on the following HP Personal Workstations: Z200, Z400, Z600, Z800, and xw4600.

Service and Support

The ATI FirePro V5700 has a one-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	4.40 inches (H) × 6.70 inches (L) (11.18 cm (H) × 17.02 cm (L))
Graphics Controller	ATI FirePro V5700 Graphics Board
Bus Type	PCI Express x16, Generation 2.0
Memory	512 MB GDDR3 SDRAM unified graphics memory
Connectors	2 DisplayPort, 1 Dual-Link DVI-I. One DisplayPort to DVI adapter included ('DVI to VGA', 'DisplayPort to VGA' and 'DisplayPort to Dual Link DVI' adapters available as an accessory)
Maximum Resolution	<ul style="list-style-type: none">• Two DisplayPort outputs drive two digital displays up to 2560 x 1600• One dual-link DVI-I output drives one digital display at resolutions up to 2560 x 1600 @ 60Hz or one analog display at resolutions up to 2048 x 1536 @ 85Hz
	NOTE: This card supports up to two displays.
Shading architecture	Full Shader Model 4.0 <ul style="list-style-type: none">• 320 Stream Processing Units• 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
Supported graphics APIs	OpenGL 3.0 DirectX 10.1
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) Red Hat Enterprise Linux WS4 (64-bit and 32-bit) <i>* WS4 not supported on Z200 & Z200 SFF</i> Red Hat Enterprise Linux 5 Desktop/Workstation (64-bit and 32-bit) SUSE Linux Enterprise Desktop 11 (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
Power consumption	56 Watts

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