

Overview

AMD FirePro W4300 4GB Graphics



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T7T58AA

Overview

INTRODUCTION

The AMD FirePro™ W4300 workstation graphics card delivers impressive performance, superb visual quality, and outstanding multi-display capabilities all in a single-slot, low profile, and <50W solution. It is an excellent mid-range solution for professionals who work with CAD & Engineering and Media & Entertainment applications.

The AMD FirePro W4300 features four display outputs and AMD Eyefinity technology support to allow up to six DisplayPort 1.2a capable monitors from a single graphics card via DisplayPort Multi-Streaming (see Note 1). Also, the AMD FirePro W4300 is loaded with 4GB of ultra-fast GDDR5 memory.

PERFORMANCE AND FEATURES

- AMD Graphics Core Next (GCN) architecture designed to effortlessly balance GPU compute and 3D workloads efficiently
- Segment leading compute architecture yielding up to 1.43 TFLOPS peak single precision
- Optimized and certified for leading workstation ISV applications. The AMD FirePro™ professional graphics family is certified on more than 100 different applications for reliable performance.
- GeometryBoost technology doubles the processing rate of geometry data
- Four (4) native display DisplayPort 1.2a (with Adaptive-Sync) outputs with 4K resolution support
- Up to six display outputs using DisplayPort 1.2a and MST compliant displays, HBR2 support
- AMD Eyefinity technology (see Note 1) support managing up to 6 displays seamlessly as though they were one display
- FreeSync display technology enabling GPU control of the display refresh rate for tear-free display updates
- AMD PowerTune and AMD ZeroCore Power technologies that allow for state of the art dynamic power management of the GPU
- 4GB of high speed GDDR5 memory
- PCI Express® 3.0 compliant

COMPATIBILITY

The AMD FirePro W4300 is supported on the following HP Z Workstations:

- Z240, Z440, Z640, Z840

SERVICE AND SUPPORT

The AMD FirePro W4300 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

TECHNICAL SPECIFICATIONS

Form Factor	Low Profile, single slot (6.6" x 3.118") Full Height, single slot (6.6" x 4.725")
Graphics Controller	AMD FirePro W4300 graphics GPU Frequency: 930Mhz Memory Clock Speed: 1500Mhz GPU: 768 Stream Processors organized into 12 Compute Units Power: <50 Watts Cooling: Active
Bus Type	PCI Express® x16, Generation 3.0
Memory	4GB GDDR5 memory Memory Bandwidth: up to 96 GB/s Memory Width: 128 bit
Connectors	4x Mini Display Port 1.2 connectors with HBR2 and MST support. Factory Configured: No video cable adapter included After market option kit: No video cable adapter included Additional DisplayPort-to-VGA, DisplayPort-to-HDMI, or DisplayPort-to-DVI adapters are available as Factory Configuration or Option Kit accessories.
Maximum Resolution	DisplayPort: - 4096x2160 @24bpp (3 x 4K @ 60Hz, 4 x 4K @ 30Hz)
Image Quality Features	Advanced support for 8-bit, 10-bit, and 16-bit per RGB color component. High bandwidth scaler for high quality up and downscaling Incorporated Adaptive-Sync enables FreeSync™ technology from AMD that allows GPU control of display refresh rates for tear-free and jitter-free image quality when rotating models or viewing video content. (Requires FreeSync compliant displays)
Display Output	Max number of monitors supported using DisplayPort 1.2a: - 4 direct attached monitors - 6 using DP 1.2a with MST and HBR2 enabled monitors Monitor chaining from a single DisplayPort (subject to a max of 6 total monitors across all outputs, requires use of DisplayPort enabled monitors supporting MST and HBR2): - one 4096x2160 display - two 2560x1600 displays - four 1920x1200 displays
Shading Architecture	Shader Model 5.0

Technical Specifications

Supported Graphics APIs OpenGL 4.4
 OpenCL 2.0
 DirectX 12.0

Available Graphics Drivers Windows 10 (64-bit and 32-bit)
 Windows® 7 (64-bit and 32-bit)
 Linux

HP qualified drivers may be preloaded or available from the HP support Web site:
<http://welcome.hp.com/country/us/en/support.html>

- Notes**
- AMD Eyefinity technology supports up to six DisplayPort™ monitors on an enabled graphics card. Supported display quantity, type and resolution vary by model and board design; confirm specifications with manufacturer before purchase. To enable more than two displays, or multiple displays from a single output, additional hardware such as DisplayPort-ready monitors or DisplayPort 1.2 MST-enabled hubs may be required. A maximum of two active adapters is recommended for consumer systems. See www.amd.com/eyefinityfaq for full details.
 - Configurations of two FirePro W4300 graphics cards in HP Z440 Workstation require the HP Z440 Fan and Front Card Guide Kit, configurable from the factory (CTO PN: G8T99AV) or as an Aftermarket Option (AMO PN: J9P80AA).
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Summary of Changes

Date of change:	Version History:		Description of change:
	From v1 to v2	Added	

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