

### Overview

### AMD FirePro W4300 4GB Graphics



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T7T58AA

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## 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.

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## 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

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## COMPATIBILITY

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

- Z240, Z440, Z640, Z840

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## 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.

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### Technical Specifications

#### TECHNICAL SPECIFICATIONS

<b>Form Factor</b>	Low Profile, single slot (6.6" x 3.118") Full Height, single slot (6.6" x 4.725")
<b>Graphics Controller</b>	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
<b>Bus Type</b>	PCI Express® x16, Generation 3.0
<b>Memory</b>	4GB GDDR5 memory Memory Bandwidth: up to 96 GB/s Memory Width: 128 bit
<b>Connectors</b>	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.
<b>Maximum Resolution</b>	DisplayPort: - 4096x2160 @24bpp (3 x 4K @ 60Hz, 4 x 4K @ 30Hz)
<b>Image Quality Features</b>	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)
<b>Display Output</b>	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
<b>Shading Architecture</b>	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](http://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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