RADEON PRO

Radeon™ Pro WX 7100 Workstation Graphics
The World's Fastest Single-Slot Workstation Graphics Card[1], Ready for VR

The new Radeon™ Pro WX 7100 graphics card is the world's most powerful single-slot workstation GPU[1] and is designed for VR and the immersive computing era. VR, or Virtual Reality, is emerging as the next major industry inflection point for Design & Manufacturing as well as Media & Entertainment workflows. The Radeon Pro WX 7100 delivers the performance needed to drive user experiences to this next level of immersion.

Performance Redefined

Based on AMD's new Polaris architecture, the Radeon Pro WX 7100 delivers up to 5.73 TFLOPS of compute performance, making it the world's most powerful, single-slot workstation graphics card.[1] Equipped with 8GB of ultra-fast GDDR5 memory, the Radeon™ Pro WX 7100 easily handles large and complex models and datasets, providing the necessary performance needed for today's demanding workloads.

Features for a Truly Immersive Experience

Users can harness the power of the Radeon™ Pro WX 7100 graphics and drive 4K displays at 60Hz, for an ultra-high resolution design experience. If 4K displays aren't immersive enough, then jump into the new world of VR design - leveraging AMD's LiquidVR™ Technology - and enjoy liquid-smooth visual performance and ultra-high frame rates. Experience realistic virtual designs and interaction like never before.

Quality You Can Trust

Radeon™ Pro WX is the embodiment of innovation and design within the Radeon Technologies Group.

Great care is taken into crafting each product to ensure quality and reliability are at the highest of standards. We are proud to stand behind our three year limited warranty (see details at **www.amd.com/Warranty**) and optional seven year extended limited warranty also available (see details and requirements at **www.amd.com/ExtendedWarranty**).
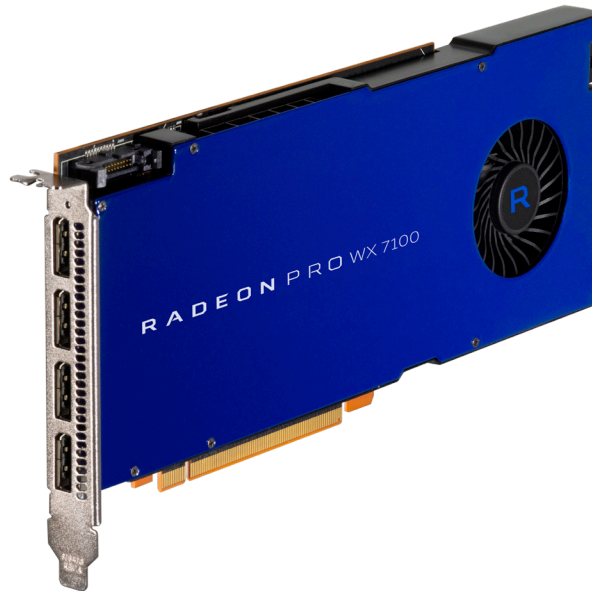
The Radeon™ Pro WX 7100 GPU: The World's Fastest Single-Slot Workstation Graphics Card[1]

Key Features:

- Application Optimizations
- 8GB GDDR5 GPU Memory
- 256-Bit Memory Interface
- Direct Graphics Memory Access (DirectGMA)
- Four DisplayPort Outputs (Ready For DisplayPort 1.4 HDR)[6]
- AMD Eyefinity Multidisplay Technology
- 2304 Stream Processors (36 CUs)
- 5.73 TFLOPS Peak Single-Precision Compute Performance
- OpenCL™, DirectX®, OpenGL, and Vulkan™ support
- 130W TDP Maximum Board Power Consumption
- Full-Height/Full-Length Single-Slot Form Factor
- 3 Year Limited Warranty (see details at www.amd.com/Warranty)
- Optional 7 Year Extended Limited Warranty (see details and requirements at www.amd.com/ExtendedWarranty).
- Support for Microsoft Windows® 10, Windows® 7, and Linux® (64-Bit)
- FCC, CE, C-Tick, BSMI, KCC, UL, VCCL, RoHS and WEEE Compliance

Feature	Benefits
4TH GENERATION GRAPHICS CORE NEXT (GCN) GPU ARCHITECTURE	The Radeon™ Pro WX 7100 graphics card is based on the fourth-generation of Graphics Core Next (GCN) GPU architecture and, like its predecessor, can perform graphic and arithmetic instructions in parallel.
RADEON™ VR READY CREATOR[4]	Enable extraordinary performance and world-class innovation with Radeon™ VR Ready Creator products like the Radeon™ Pro WX 7100. Empower VR content creators and experience designers with amazingly powerful and capable development tools in the AMD LiquidVR™ SDK.[4]
AMD LIQUIDVR™ TECHNOLOGY	AMD is making VR as comfortable as possible by lowering motion-to-photo latency. Enhance design realism and maintain ultra-immersive VR presence. Enjoy liquid-smooth visual performance and ultra-high frame rates – and cross over to the other side of realistic virtual environments and interaction.
10-BIT COLOR	Native support for 10-bits per color channel for color-critical tasks. Driving an effective 30-bits per pixel, the Radeon™ Pro WX 7100 is great for any workload requiring that level of detail and color precision.
HDR READY	High dynamic range (HDR) capability enables visuals that closely match what is familiar to the human eye.[3]
5K DISPLAY SUPPORT	Drive up to two, 5K (5120x2880 pixel resolution) dual-cable displays @ 60 Hz, or a one, single-cable 5K display @ 60 Hz.
UP TO 5.73 TFLOPS PEAK SINGLE-PRECISION FLOATING POINT PERFORMANCE	Helps speed up time required to complete single precision operations used within Video Effects and Rendering, Signal Processing, Transcoding and Digital Rendering applications where high performance takes precedence.
MULTI-GPU SUPPORT	Combine up to four Radeon™ Pro WX 7100 workstation graphics cards in a single desktop system and leverage the combined processing power for personal supercomputing or to work with multiple 4K video streams in real-time, layer in effects, make color corrections and edits on the fly.
8GB GDDR5 MEMORY	Allow users to work at extreme levels of speed and responsiveness. With a 256-bit memory interface, users can edit 4K video, layer in multiple effects and color correct on the fly, or load massive assemblies and data sets and manipulate them in real time.
DIRECTGMA AND SDI SUPPORT	Removes CPU bandwidth and latency bottlenecks, and optimizes communication between GPUs within a system and third party devices like SDI I/O cards. DirectGMA bypasses any need to traverse the host's main memory, reducing CPU utilization, avoiding redundant bus transfers, and resulting in high throughput, low latency data transfers.
4K ACCELERATED ENCODE/DECODE	Multi-stream hardware H.265 HD encode/decode for power-efficient and quick video encoding and playback.
ENERGY EFFICIENT DESIGN	Radeon™ Pro WX 7100 graphics card supports unique power monitoring and management technologies, and has a maximum power consumption of 130 watts. AMD PowerTune technology dynamically optimizes GPU power usage and AMD ZeroCore Power technology significantly reduces power consumption at idle.[5]

To learn more about Radeon Pro, please visit: **radeon.com/wx**

1. Based on single precision floating point performance. As of August 25, 2016, the Radeon™ Pro WX 7100 graphics card is a single-slot board that delivers up to 5.73 TFLOPS of single-precision floating point performance at maximum clock speed, and the fastest NVIDIA single-slot board is the NVIDIA Quadro M4000, with a peak single-precision floating point performance of 2.5 TFLOPS. See http://www.nvidia.com/content/pdf/line_card/5409_nv_prographicssolutions_linecard_feb13_hr.pdf RPW-6

2. 3 Year Limited Warranty (see details at www.amd.com/Warranty) + Optional 7 Year Extended Limited Warranty (see details and requirements at www.amd.com/ExtendedWarranty)

3. HDR content requires that the system be configured with a fully HDR-ready content chain, including: graphics card, monitor/TV, graphics driver and application. Video content must be graded in HDR and viewed with an HDR-ready player. Windowed mode content requires operating system support.

4. Radeon VR Ready Creator Products are select Radeon Pro and AMD FirePro™ GPUs that meet or exceed the Oculus Rift or HTC Vive recommended specifications for video cards/GPUs. Other hardware (including CPU) and system requirements recommended by Oculus Rift or HTC Vive should also be met in order to operate the applicable HMDs as intended. As VR technology, HMDs and other VR hardware and software evolve and/or become available, these criteria may change without notice.

5. AMD PowerTune and AMD ZeroCore Power are technologies offered by certain FirePro™ and Radeon™ Pro products, which are designed to intelligently manage GPU power consumption in response to certain GPU load conditions. Not all products feature all technologies – check with your component or system manufacturer for specific model capabilities. GD-36

6. As of September 2016, certified for DisplayPort™ 1.4 HBR3 and ready for DisplayPort™ 1.4 HDR based on independent verification by DisplayPort™ testing authority. HDR content requires that the system be configured with a fully HDR-ready content chain, including: graphics card, monitor/TV, graphics driver and application. Video content must be graded in HDR and viewed with an HDR-ready player. Windowed mode content requires operating system support. GD-100

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