

WELCOME TO EXCEPTIONAL PERFORMANCE, STABILITY AND RELIABILITY.

An Infographic for Heavy Workload AMD Professional Graphics Performance.

**AMD
RADEON
PRO W6800**



32GB GDDR6 VRAM **128MB** INFINITY CACHE **ECC** SUPPORT **512GB/s** MEMORY BANDWIDTH

17.83TFLOPs PEAK FP32 PERFORMANCE **PCIE® 4.0** 2X PCIE® 3.0 BANDWIDTH

AWARD WINNING AMD RDNA™ 2 ARCHITECTURE

The AMD Radeon™ PRO W6000 Series GPUs feature the meticulously engineered AMD RDNA™ 2 graphics architecture, found within leading games consoles. Engineered from the ground up, the AMD RDNA 2 architecture introduces an array of advanced features and takes professional graphics to the new level of performance and efficiency.

AMD RADEON PRO W6800 PERFORMANCE VS AMD RADEON PRO W5700 **79% BETTER¹**

DESIGNED FOR:

- Complex Visualization
- Realtime Rendering
- UHD Video / Image Editing
- Other Heavy Workloads

CERTIFIED FOR MANY POPULAR PROFESSIONAL SOFTWARE APPLICATIONS

Find the current list of certified applications at: amd.com/Certified

32GB GDDR6 VRAM with ECC Support

Powered by a gigantic 32GB of high speed GDDR6 frame buffer memory with Error Correction Code (ECC) support, the new generation AMD Radeon PRO W6800 graphics expands possibilities for the most demanding manufacturing, design, and creative workloads.

A revolutionary new 128MB AMD Infinity Cache memory level delivers high-bandwidth performance at low power and low latency, while AMD Smart Access Memory support enables even higher levels of performance for systems equipped with select AMD Ryzen™ desktop processors².



DIRECTX® 12 ULTIMATE • VULKAN® 1.2
HEVC/H.265 • H.264 • VP9 • AV1 DECODE³

DISCOVER YOUR SOFTWARE'S FULL POTENTIAL

UP TO 40% BETTER PERFORMANCE AVERAGE THAN THE COMPARABLE NVIDIA® GPU



Lumion 11.0
Relative Performance
(More Is Better)⁴



AMD Radeon PRO GPUs with AMD Radeon Software for Enterprise 20.45 RC20. Nvidia RTX 5000 GPU with Optimal Driver for Enterprise (461.40)

Learn More at: amd.com/RadeonPROW6800

Hardware Raytracing and VRS Support

AMD Radeon PRO W6800 Graphics comes with 60 enhanced Compute Units (CU) featuring high-performance Ray Accelerators, delivering hardware raytracing and Variable Rate Shading (VRS) for visually rich real-time viewports and interactive rendering.

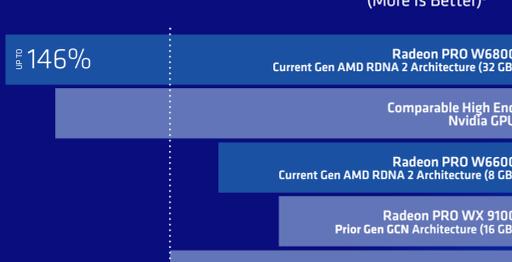
The AMD Radeon™ PRO W6000 Series supports the latest Vulkan® 1.2 and DirectX® 12 API standards allowing professional software to take advantage of the advanced hardware capabilities brought by these modern GPUs.



STREAM PROCESSORS **3840** 60 CUs



SOLIDWORKS Visualize
Relative Performance
(More Is Better)⁵



AMD Radeon PRO GPUs with AMD Radeon Software for Enterprise 20.45 RC20. Nvidia RTX 5000 GPU with Optimal Driver for Enterprise (461.40)

UP TO 110% BETTER AMD HARDWARE GPU ACCELERATION VERSUS GCN ARCHITECTURE



Learn More at: amd.com/RadeonPROW6800



Up to Six 4K UHD Displays

The AMD Radeon PRO W6000 GPU Series of graphics cards deliver exceptional 4K and 8K Ultra High-Definition (UHD) resolution visual experiences to allow more interaction and customization, often demanded by 3D modeling, CAE simulation, animation, and rendering applications.

Driving up to six 4K UHD displays, the AMD Radeon PRO W6800 GPU is the ideal choice for complex multi-stream and multi-channel workflows.

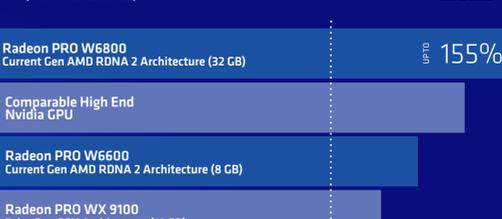
8K & HDR SUPPORTED, AS STANDARD.

UP TO 11% FASTER AI GPU PROCESSING THAN NVIDIA RTX 5000⁶



Learn More at: amd.com/RadeonPROW6800

Topaz Video Enhance AI™
Relative GPU AI Processing Time, High Quality.
(More is Better)⁶



AMD Radeon PRO GPUs with AMD Radeon Software for Enterprise 20.45 RC20. Nvidia RTX 5000 GPU with Optimal Driver for Enterprise (461.40)

AMD RADEON PRO W6800

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¹Testing as of March 23, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 5950X with AMD Radeon™ PRO W6700 / AMD Radeon™ PRO W6800. Benchmark Application: Lumion v11. Topaz Video Enhance AI 2.0.0. Dassault Systèmes SOLIDWORKS™ Visualize 2021 SP3. Performance may vary. RFPW-352

²Smart Access Memory technology enablement requires an AMD Ryzen 6000 series CPU, Ryzen 5000 or 3000 series GPU (including the Ryzen 5 3400G and Ryzen 9 3900X) and an AMD 300 series motherboard with the latest BIOS update. BIOS requires support for ACRCA 1.1.0 or higher. Download latest BIOS from vendor website. For additional information and system requirements, see <https://www.amd.com/en/technologies/smart-access-memory>. CD-81

³HEVC (H.265), H.264, and VP9 acceleration are subject to and not operable without inclusion/installation of compatible HEVC players. CD-81

⁴Testing as of March 23, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 5950X with AMD Radeon™ PRO W6700 / AMD Radeon™ PRO W6800. Benchmark Application: Lumion v11. Topaz Video Enhance AI 2.0.0. Dassault Systèmes SOLIDWORKS™ Visualize 2021 SP3. Performance may vary. RFPW-352

⁵Testing as of March 23, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 5950X with AMD Radeon™ PRO W6700 / AMD Radeon™ PRO WX 9100 / AMD Radeon™ PRO W6600 (pre-production sample) / AMD Radeon™ PRO W6800 (pre-production sample) / Nvidia® RTX 5000. Benchmark Application: Dassault Systèmes SOLIDWORKS™ Visualize 2021 SP3 (Time to complete, second) measuring rendering test time of the Camaro default angle (Poffender low sample) test. Performance may vary based on factors such as driver version and hardware configuration. RFPW-383

⁶Testing as of March 16, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 5950X with AMD Radeon™ PRO W6700 / AMD Radeon™ PRO WX 9100 / AMD Radeon™ PRO W6800 (pre-production sample) / AMD Radeon™ PRO W6600 (pre-production sample) / Nvidia® RTX 5000. Benchmark Application: Topaz Video Enhance AI 2.0.0. tasks Artemis HQ, Lala-HQ and Tesla Detail. Performance may vary based on factors including driver version and system configuration. RFPW-393

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RFPW-2940543

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