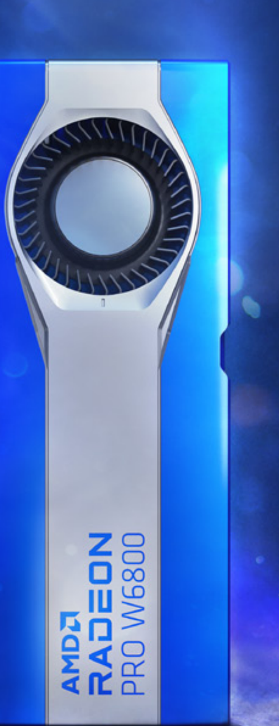
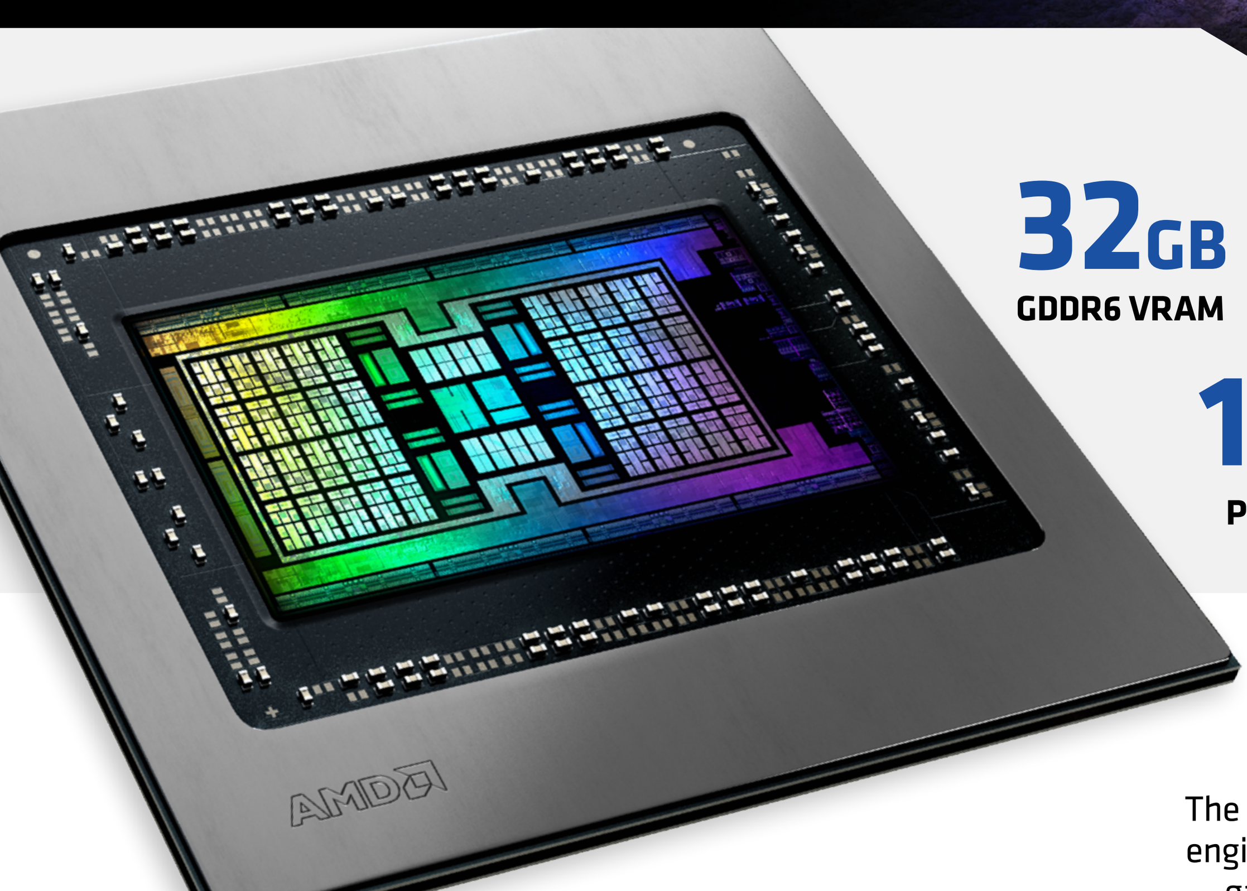
WELCOME TO EXCEPTIONAL PERFORMANCE, STABILITY AND RELIABILITY.

An Infographic for Heavy Workload AMD Professional Graphics Performance.

AMD RADEON PRO W6800

AMD





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% BETTER**[1]

CERTIFIED FOR MANY POPULAR PROFESSIONAL SOFTWARE APPLICATIONS

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

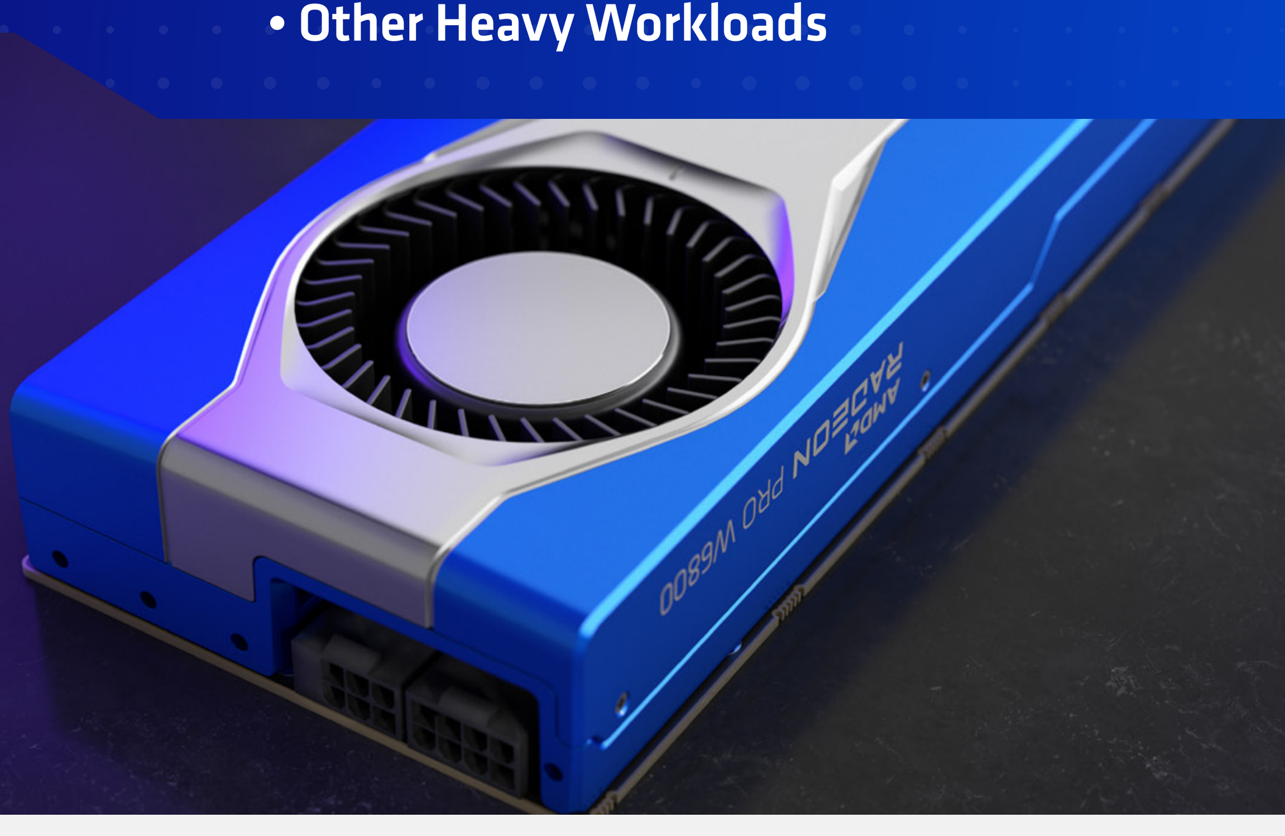
DESIGNED FOR:

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

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.

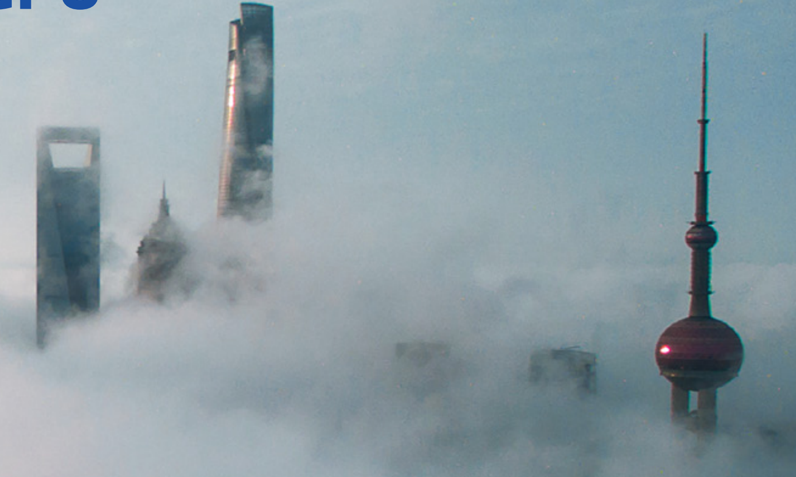
A revolutionary new 128MB AMD Infinity Cache memory level delivers high-bandwidth performance at low power and low latency, while AMD Smart Access Memory support enables even higher levels of performance for systems equipped with select AMD Ryzen™ desktop processors[2].



DIRECTX® 12 ULTIMATE • VULKAN® 1.2
HEVC/H.265 • H.264 • VP9 • AV1 DECODE[3]

DISCOVER YOUR SOFTWARE'S FULL POTENTIAL

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



Learn More at: **amd.com/RadeonPROW6800**

Lumion 11.0
Relative Performance
(More Is Better)[4]

LUMION

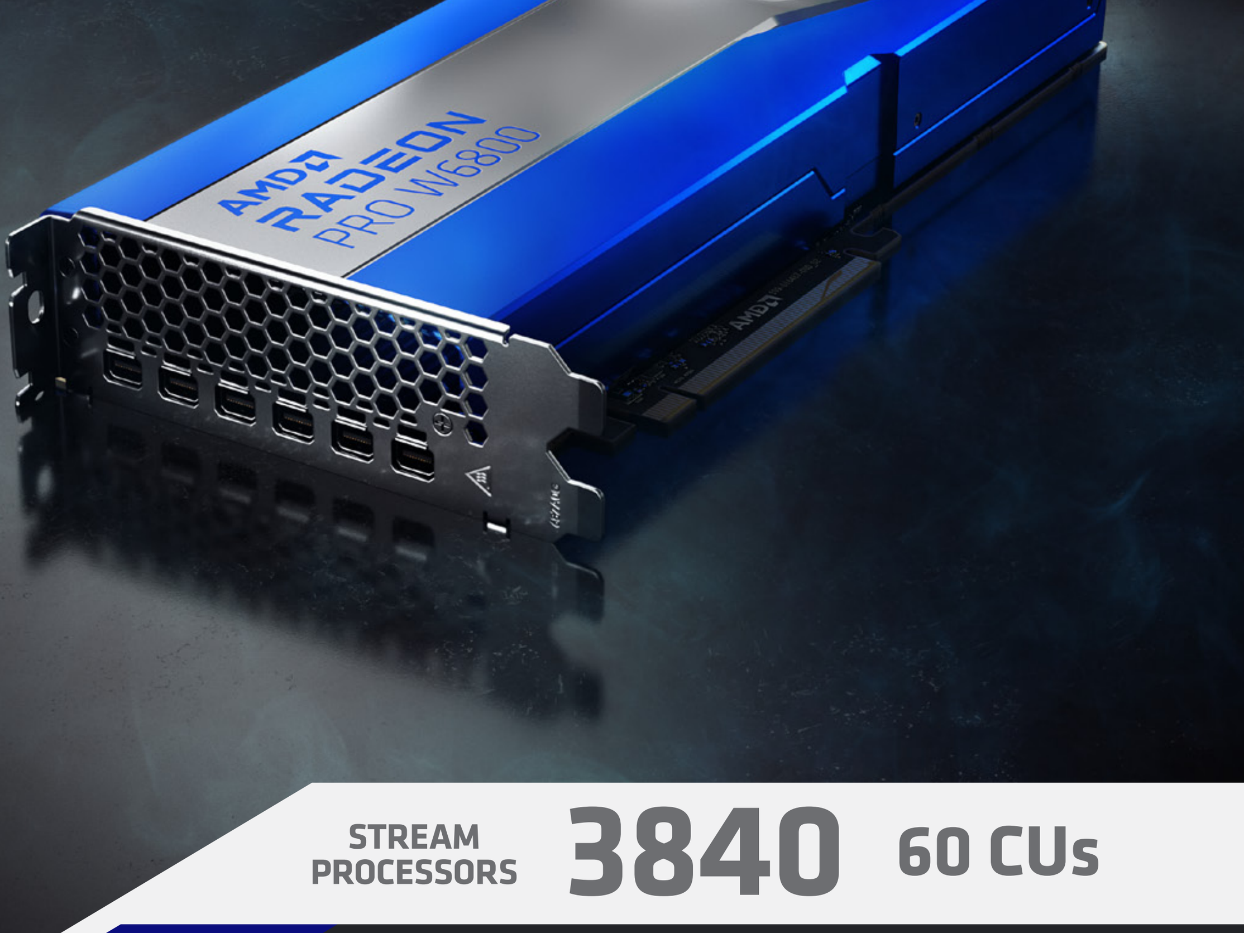
- Radeon PRO W6800 — Current Gen AMD RDNA 2 Architecture (32 GB) — UP TO 358%
- Comparable High End Nvidia GPU
- Radeon PRO WX 9100 — Prior Gen GCN Architecture (16 GB)
- Radeon PRO W5500 — First Gen AMD RDNA Architecture (8 GB)

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

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**

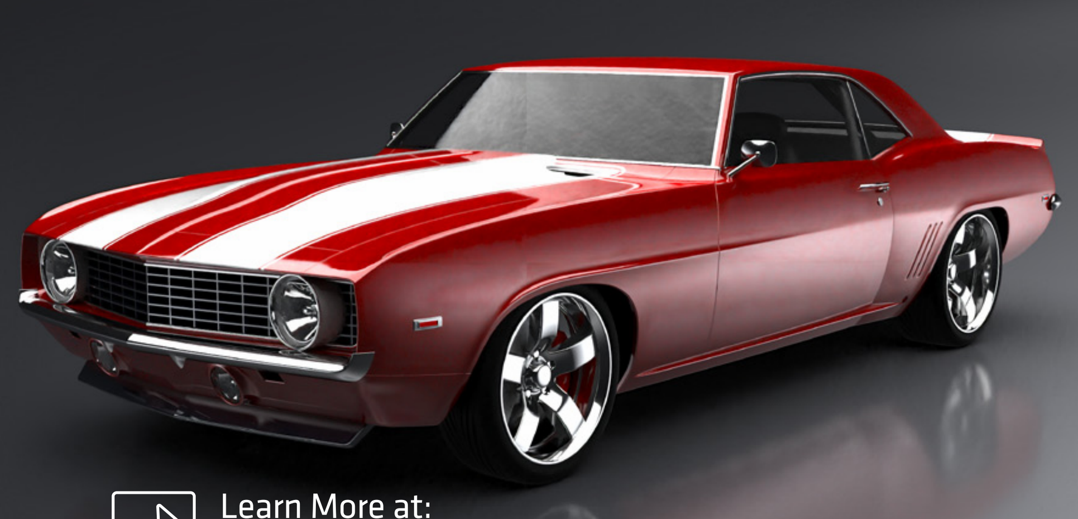
DASSAULT SYSTEMES

SOLIDWORKS Visualize
Relative Performance
(More Is Better)[5]

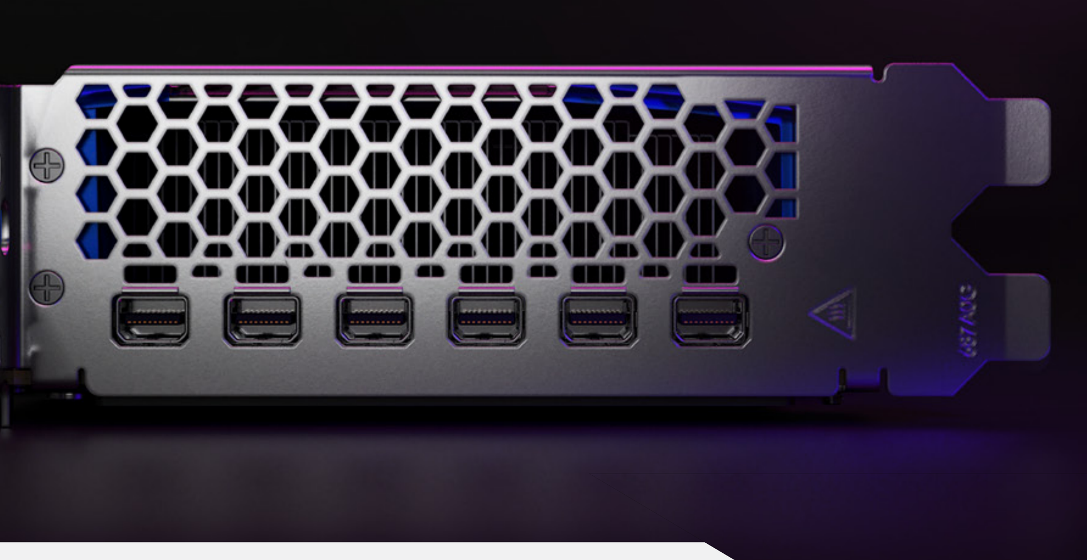
- Radeon PRO W6800 — Current Gen AMD RDNA 2 Architecture (32 GB) — UP TO 146%
- Comparable High End Nvidia GPU
- Radeon PRO W6600 — Current Gen AMD RDNA 2 Architecture (8 GB)
- Radeon PRO WX 9100 — Prior Gen GCN Architecture (16 GB)
- Radeon PRO W5700 — First Gen AMD RDNA Architecture (8GB)

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**



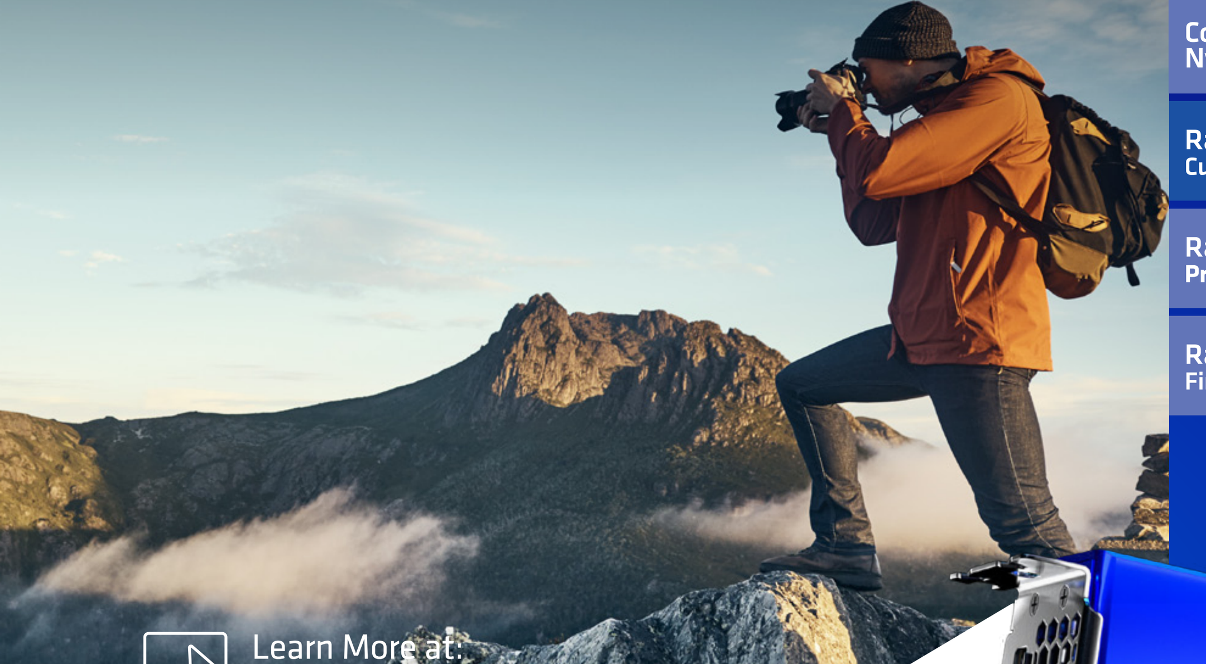
Up to Six 4K UHD Displays

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 5000[6]



Learn More at: **amd.com/RadeonPROW6800**

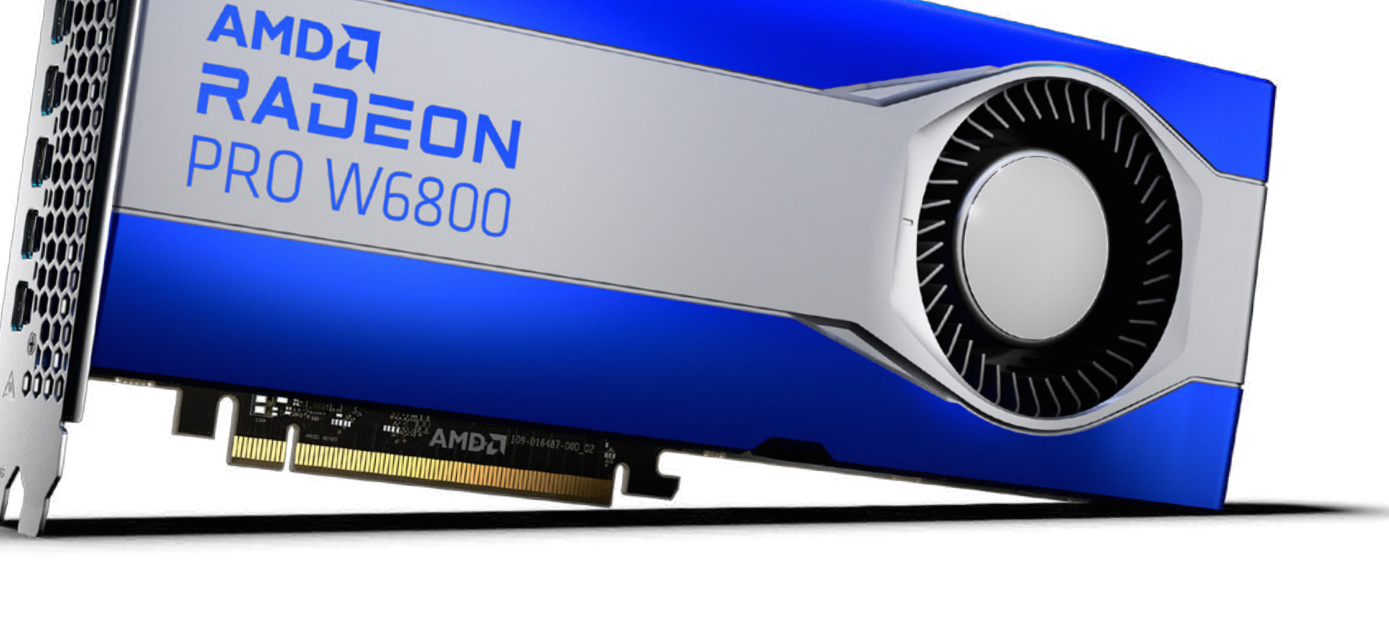
Topaz Video Enhance AI™
Relative GPU AI Processing Time, High Quality.
(More is Better)[6]

TOPAZ LABS

- Radeon PRO W6800 — Current Gen AMD RDNA 2 Architecture (32 GB) — UP TO 155%
- Comparable High End Nvidia GPU
- Radeon PRO W6600 — Current Gen AMD RDNA 2 Architecture (8 GB)
- Radeon PRO WX 9100 — Prior Gen GCN Architecture (16 GB)
- Radeon PRO W5700 — First Gen AMD RDNA Architecture (8GB)

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



Join the conversation on Twitter **@RadeonPRO**

[1] Testing as of March 23, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 5950X with AMD Radeon™ PRO W5700, AMD Radeon™ PRO W6800. Benchmark Applications: Lumion v.11, Topaz Video Enhance AI 2.0.0, Dassault Systèmes SOLIDWORKS® Visualize 2021 SP3. Performance may vary. RPW-362

[2] Smart Access Memory technology enablement requires an AMD Radeon 6000 series GPU, Ryzen 5000 or 3000 series GPU (excluding the Ryzen 5 3400G and Ryzen 3 3200G) and an AMD 500 series motherboard with the latest BIOS update. BIOS requires support for AGESA 1.1.0.0 or higher. Download latest BIOS from vendor website. For additional information and system requirements, see https://www.amd.com/en/technologies/smart-access-memory. GD-178

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

[4] Testing as of March 23, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 5950X with AMD Radeon™ PRO W5500, AMD Radeon™ PRO W5700, AMD Radeon™ PRO WX 9100, AMD Radeon™ PRO W6800 pre-production sample, Nvidia® RTX 5000, at 3840x2160 display resolution. Benchmark Application: Lumion v.11. Results shown based on the average of all benchmark scenes. Performance may vary based on factors including driver version and system configuration. RPW-358

[5] Testing as of March 23, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 9 5950X with AMD Radeon™ PRO W5700 / 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, seconds) measuring rendering test time of the Camaro default angle (ProRender low sample) test. Performance may vary based on factors such as driver version and hardware configuraton. RPW-383

[6] Testing as of March 16, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 5950X with AMD Radeon™ PRO W5700 / AMD Radeon™ PRO WX 9100 / AMD Radeon™ PRO VII / AMD Radeon™ PRO W6600 pre-production sample / AMD Radeon™ PRO W6800 pre-production sample / Nvidia® RTX 5000, at 3840x2160 display resolution. Benchmark Application: Topaz Video Enhance AI 2.0.0, tasks Artemis-HQ, Gaia-HQ and Theia-Detail. Performance may vary based on factors including driver version and system configuration. RPW-359

PID #: 21841543

Professional Graphics for Exceptional Performance with Reliability, Stability and Software Certifications at its Core.

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