

32GB
GDDR6

AMD
RDNA 3

AMD

AMD RADEON™

PRO W7800

FOR HEAVY WORKLOADS

DESIGN INTELLIGENTLY



32GB
Memory



3x
Max Total Data Rate²
of DisplayPort™ 2.1

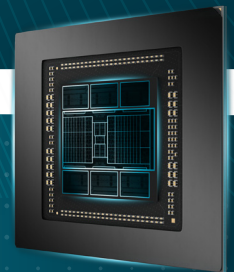


SPECviewperf® Geomean (up to)
1.2x
More Performance³
than Radeon™ PRO W6800

Large 3D models
Efficient multitasking
Heavy RAW media

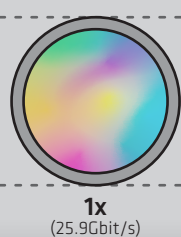
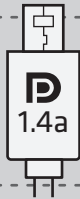
Industry-leading
Radiant colors
Huge displays

Dense geometry
Fluid viewports
Complex datasets

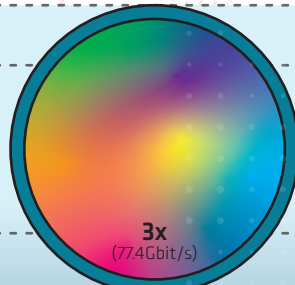
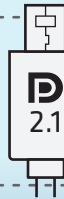


AMD RADIANCE DISPLAY™ ENGINE

First Workstation Graphics with DisplayPort™ 2.1



1x
(25.9Gbit/s)



3x
(77.4Gbit/s)

DisplayPort™ 1.4a

High Frame Rate **8K60** w/ DSC

Accurate Color **8K60** Compressed

Larger Resolutions **8K60** w/ DSC

DisplayPort™ 2.1

8K120 w/ DSC

8K60 Uncompressed

12K120 w/ DSC



Key Features

- 32GB GDDR6 Memory with ECC Support
- NEW** Efficient Chiplet Design
- 2x AI Accelerators per Compute Unit
- 2nd Generation Ray Tracing
- 2x Simultaneous Encode/Decode Streams
- AV1 Encode (**NEW**) & Decode⁴
- NEW** AI Enhanced Video Encode
- NEW** AMD Radiance Display™ Engine
- DisplayPort™ 2.1 with up to 80Gbit/s
- Up to 12K120 display support
- Support for next-gen displays

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TECHNICAL SPECIFICATIONS

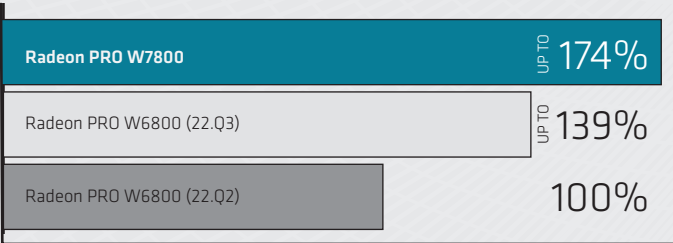
GPU Architecture	AMD RDNA™ 3
Graphics Memory	32 GB GDDR6
Memory Interface	256-bit
Memory Bandwidth	576 GB/s
Error Correcting Code (ECC)	Yes
Peak Single-Precision Performance	45.25 Tflops
Ray Accelerators	70
PCI Express® Support	4.0 Ready (x16) with 3.0 Backward Compatibility
Total Board Power	260 W
Cooling	Active
Board Form Factor	11" (280 mm), Double Slot, Full Height
Display Connectors	DisplayPort™: 3x DP 2.1 & 1x Enhanced Mini DP 2.1
Display Configuration	- 4x 4096 x 2160 (4K DCI) @ 120Hz with DSC - 2x 6144 x 3456 (6K) 12-bit HDR @ 60Hz Uncompressed - 1x 7680 x 4320 (8K) 12-bit HDR @ 60Hz Uncompressed - 1x 12288 x 6912 (12K) @ 120Hz with DSC
Power Connectors	2x8-Pin Power Connectors
Supported Rendering Formats ⁴	- 2x Encode (H265/HEVC, 4K H264) - 2x Decode (H265/HEVC, 4K H264) - 1x Encode & Decode (AV1)
VR and Realtime Ready	Yes
Supported Technologies	- AMD Remote ⁵ Workstation - AMD Radeon™ Media Engine - AMD Software: PRO Edition - AMD Radeon™ VR Ready Creator - AMD EyefinityTechnology ⁶ (Professionals)
Supported APIs	- DirectX®: 12.0 Ultimate - OpenCL™: 2.0 - OpenGL®: 4.6 - Vulkan®: 1.3.2xx
Supported Operating Systems	- Windows 11 - 64-Bit Edition - Windows 10 - 64-Bit Edition - Linux x86_64

PERFORMANCE



Generational Performance

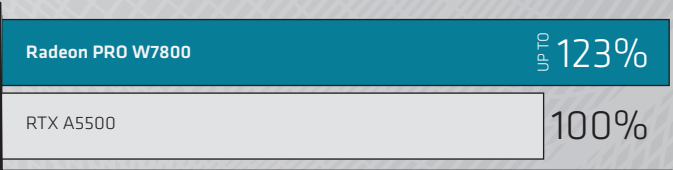
(SPECviewperf® 2020, Relative to Radeon PRO W6800, Higher is Better)



Testing as of February 16, 2023 by AMD Performance Labs on a test system comprised of an AMD Ryzen Threadripper PRO 5975WX, 64GB DDR4-2133Mhz RAM, Windows® 11 Pro build 22621, 64-bit, AMD Radeon™ PRO Software 31.0.14001.45012 with AMD Radeon™ PRO W7900, vs. a system comprised of an AMD Ryzen Threadripper PRO 5945WX, 64GB DDR4-3200MHz RAM, Windows® 10 Pro build 19044, 64-bit, AMD Radeon™ PRO Drivers 22.Q2 and 22.Q3 with AMD Radeon™ PRO W6800 at 1920x1080 display resolution. Benchmark Application: SPECviewperf 2020 V3.1 (Geomean across 3dsmax-07, catia-6, creo-03, energy-03, maya-06, medical-03, snx-04, solidworks-07) Results may vary. RPW-427a

SPECviewperf® 2020 Geomean

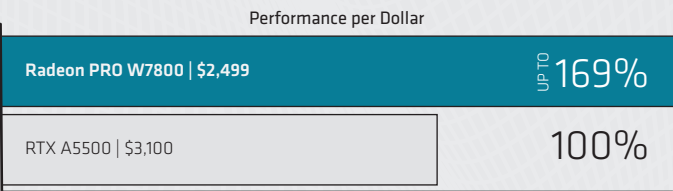
(Relative to RTX A5500, Higher is Better)



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Price Performance Leadership

(SPECviewperf® 2020, Relative to RTX A5500, Higher is Better)



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