











50%

MORE RAY TRACING PERFORMANCE PER CU¹

Higher Quality
Faster Rendering
Beautiful Results



1.5x

MAX TOTAL DATA RATE²

Industry-leading
Radiant colors
Huge displays



24/7

RELIABILITY

Built for demand
Certified performance
Efficient multitasking

KEY FEATURES

8GB GDDR6 Memory

2x Al Accelerators per Compute Unit

2nd Generation Ray Tracing

HVEC / H265 Encode/Decode Support

AV1 Encode (NEW) & Decode3

NEW Al Enhanced Video Encode

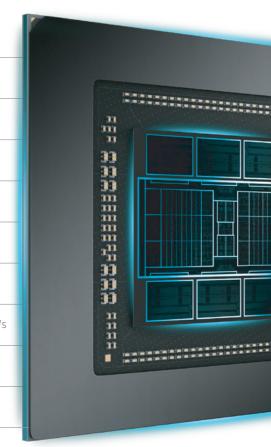
NEW AMD Radiance Display[™] Engine

DisplayPort $^{\rm m}$ 2.1 (UHBR 10) with up to 38.7 Gbit/s

Up to 10K60 w/ DSC display support

Support for next-gen displays

3D Stereo Support

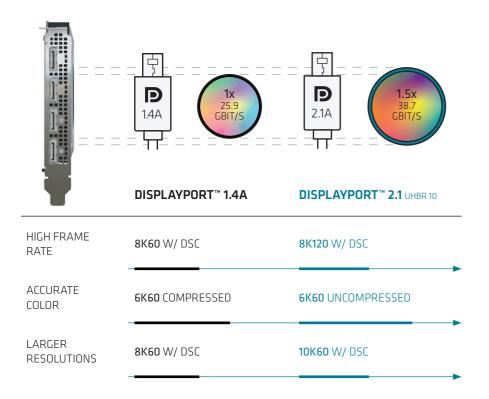






AMD **RADIANCE DISPLAY**™ ENGINE

First Workstation Graphics with DisplayPort™ 2.1



TECHNICAL SPECIFICATIONS

На Ye	rdware Raytracing S
	hography MC 6NM
Rai	y Accelerators
R0 64	
	eam Processors 48
Co:	mpute Units
Sh 64	aders
Pe	ak Half Precision (FP16) formance . 98 TFLOPS
Pei	ak Single Precision (FP32) formance . 99 TFLOPS
Pei	ak Double Precision (FP64) formance TFLOPS

Dedicated Memory Size 8 GB Memory Data Rate 18 Gbps Dedicated Memory Type GDDR6 AMD Infinity Cache™ Yes, 32 MB Memory Interface 128-bit Peak Memory Bandwidth up to 288 GB/s Memory ECC Support No 4K H264 Encode Decode Yes Yes H265/HEVC Encode Decode Yes Yes AV1 Encode Decode Yes Yes	PSU F 350	Recommendation W
18 Gbps Dedicated Memory Type GDDR6 AMD Infinity Cache™ Yes, 32 MB Memory Interface 128-bit Peak Memory Bandwidth up to 288 GB/s Memory ECC Support No 4K H264 Encode Decode Yes Yes H265/HEVC Encode Decode Yes Yes AV1 Encode Decode		
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103 103		

Yes

Yes

No

Form Factor PCIe® Add-in Card AMD Remote⁴ Workstation AMD Radeon™ Media Engine Bus Type **AMD Software: PRO Edition** PCIe 4.0 x8 AMD Radeon™ VR Ready Creator Active AMD EyefinityTechnology⁵ (Professionals) Displays Type(s) 4x DisplayPort™ 2.1 AMD Radeon™ ProRender Display Configurations Software API Support 4x @ 3840x2160px (4K) **DirectX 12 Ultimate** 4x @ 5120x2880px (5K) OpenGL 4.6 2x @ 7680x4320px (8K) Vulkan 1.3.2xx Open CL 2.0 HDR Support Product Family AMD Radeon™ PRO 8K Support Product Line AMD Radeon™ PRO W7000 16KSupport Series Board Height **Desktop Workstation Full Height** Supported Operating Systems Board Length Windows 11 - 64-Bit Edition 9.5" (241 mm) Windows 10 - 64-Bit Edition Board Width Linux x86 64 Single Slot



External Power Connectors 1x6-Pin Power Connectors



PERFORMANCE

Generational Performance

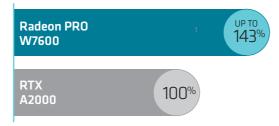
SPECviewperf® 2020, Relative to the Radeon™ PRO W6600. Higher is Better.



RPW-431: Testing as of June 28, 2023, by AMD Performance Labs on a test system comprised of an AMD Ryzen Threadripper PRO 5945WX, 64GB DDR4-2133Mhz RAM, Windows® 11 Pro build 22621, 64-bit, AMD Software: PRO Edition 23.10 RCPI7 with AMD Radeon® PRO W7600, W7500 vs. AMD Software: PRO Edition 23.01 with AMD Radeon® PRO W7600, W7500 vs. AMD Software: PRO Edition 23.01 with AMD Radeon® PRO W7600, W7500 vs. AMD Software: PRO Edition 23.01 with AMD Radeon® PRO W7600, w7500 vs. AMD Software: PRO Edition 23.01 with AMD Radeon® PRO W7600, at 3840x2160 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.) Additional information about the SPEC benchmarks can be found at www.spec. org/gwpg. SPEC® and SPECviewperf® are registered trademarks of the Standan Performance Evaluation Corporation. Results may vary. RPW-431

SOLIDWORKS

4K GPU Composite Score. Relative to the RTX A2000. Higher is Better.



RPW-436: Testing as of June 28, 2023, by AMD Performance Labs on a test system comprised of an AMD Ryzen Threadripper PRO 5945WX, 64GB RAM, Windows® 11 Pro build 22621, 64-bit, AMD Radeon® PRO Software 23:10 RCPI7 with AMD Radeon® PRO W7500, W7500, and vs. similarly configured system with Nvidia Driver 528.95 with Nvidia T1000, RTX A2000 at 3840x2160 display resolution. Benchmark Application: SPECapc® SOLIDWORKS 2022 (4K). Additional information about the SPEC benchmarks can be found at www.spec. org/gwpg. SPEC® and SPECviewperf® are registered trademarks of the Standard Performance Evaluation Corporation. Results may vary. RPW-436

Twinmotion

Relative to the RTX A2000. Lower is Better.



RPW-438: Testing as of June 28, 2023, by AMD Performance Labs on a test system comprised of an AMD Ryzen Threadripper PRO 5975WX, 64GB DDR4 3600MHzz RAM, Windows® 11 Pro build 22621, 64-bit, AMD Radeon™ PRO Software 23.10 n33-230502a-391494e with AMD Radeon™ PRO W7600, W7500, and vs. similarly configured system with Nvidia Driver 528.95 with Nvidia T1000, RTX A2000 at 3840x2160 display resolution. Benchmark Application: Epic Games Twinmotion - CPU Rendering Times, Results may vary, RPW-438.

Blackmagic DaVinci Resolve

4K Media Score, Higher is Better.



RPW-441: Testing as of June 28, 2023 by AMD Performance Labs on a test system comprised of an AMD Ryzen Threadripper PRO 5945WX, 64GBRAM, Windows® 11 Pro build 22621, 64-bit, AMD Radeon™ PRO Software 23.10 RCP17 with AMD Radeon™ PRO W7600, W7500, and vs. similarly configured system with Nvidia Driver 528.95 with Nvidia T1000, RTX A2000 at 3840x2160 display resolution.Benchmark Application: PugetBench for After Effects - GPU Score. Results may vary. RPW-441

1 PW-428: 50% more RAYTRACING performance per CU Based on November 2022 AMD internal performance lab measurement of rays with indirect calls on W7900 GPU vs. W6800 GPU. RPW-428

2 RPW-434: The AMD Radeon™ PRO W7600 graphics card has DisplayPort™ 2.1 with up to 9.675 Gbit/s per lane is 1.5x higher bandwidth vs. DisplayPort 1.4a with up to 8.1 Gbit/s per lane on the AMD Radeon™ PRO W6600. RPW-434

B GD-176: Video codec acceleration (including at least the HEVL (H.265), H.264, VP9, and AVI codecs) is subject to and not operable without inclusion/installation of compatible media players. GD-176

Learn more at www.amd.com/en/technologies/remote-workstation

5 Learn more at www.amd.com/en/technologies/eyefinity-professionals

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