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AMD



AMD RADEON™ PRO W7500 FOR EFFICIENT MAINSTREAM WORKLOADS

GDDR6  
8GB

AMD  
RONA 3

# AMD RADEON™ PRO W7500



## KEY FEATURES

8GB GDDR6 Memory

70W Total Board Power – PCIe powered only

2x AI Accelerators per Compute Unit

2nd Generation Ray Tracing

2x Simultaneous Encode/Decode Streams

AV1 Encode (NEW) & Decode<sup>3</sup>

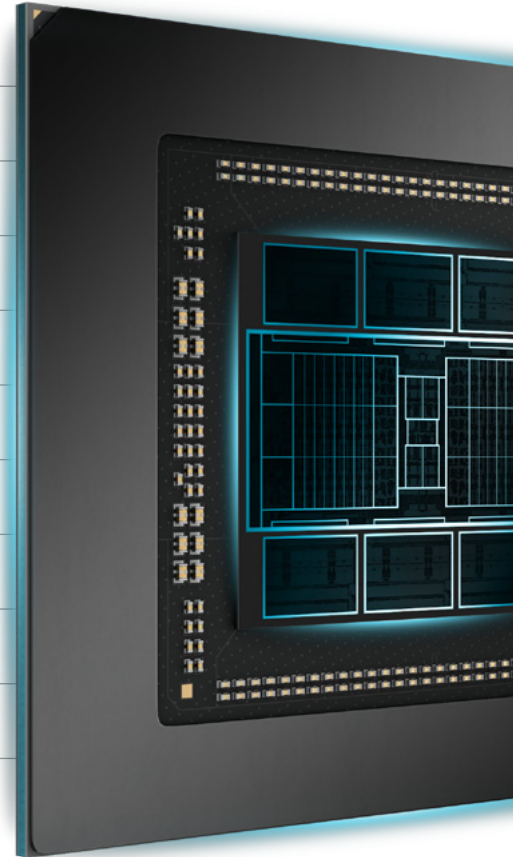
NEW AI Enhanced Video Encode

NEW AMD Radiance Display™ Engine

DisplayPort™ 2.1 (UHBR 10) with up to 38.7 Gbit/s

Up to 10K60 w/ DSC display support

Support for next-gen displays



# 46%

LESS POWER CONSUMPTION  
THAN W6600<sup>1</sup>

High Frame Rate  
Accurate Color  
Larger Resolutions



# 1.5x

MAX TOTAL DATA RATE<sup>2</sup>

Industry-leading  
Radiant colors  
Huge displays



# 24/7

RELIABILITY

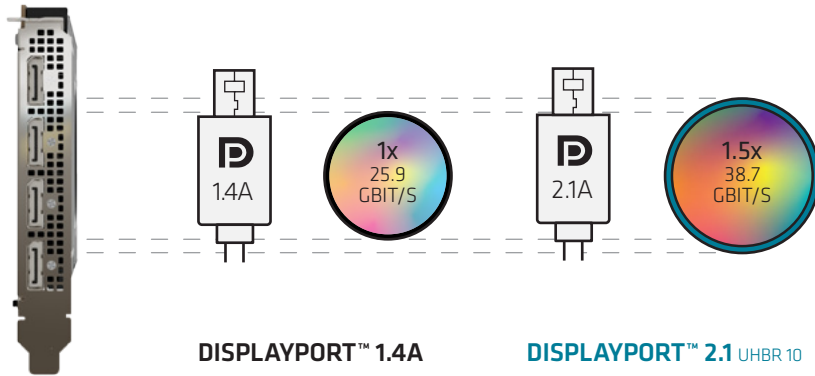
Built for demand  
Certified performance  
Efficient multitasking

# AMD RADEON™ PRO W7500



## AMD RADIANCE DISPLAY™ ENGINE

First Workstation Graphics with DisplayPort™ 2.1



	DISPLAYPORT™ 1.4A	DISPLAYPORT™ 2.1 UHBR 10
HIGH FRAME RATE	8K60 W/ DSC	8K120 W/ DSC
ACCURATE COLOR	6K60 COMPRESSED	6K60 UNCOMPRESSED
LARGER RESOLUTIONS	8K60 W/ DSC	10K60 W/ DSC

## TECHNICAL SPECIFICATIONS

GPU Architecture <b>AMD RDNA™ 3</b>	Total Board Power (TBP) <b>70 W</b>	Form Factor <b>PCIe® Add-in Card</b>	Supported Technologies <b>AMD Remote<sup>4</sup> Workstation</b> <b>AMD Radeon™ Media Engine</b> <b>AMD Software: PRO Edition</b> <b>AMD Radeon™ VR Ready Creator</b> <b>AMD EyefinityTechnology<sup>5</sup> (Professionals)</b> <b>AMD Radeon™ ProRender</b>
Hardware Raytracing <b>Yes</b>	PSU Recommendation <b>350 W</b>	Bus Type <b>PCIe 4.0 x8</b>	Software API Support <b>DirectX 12 Ultimate</b> <b>OpenGL 4.6</b> <b>Vulkan 1.3.2xx</b> <b>Open CL 2.0</b>
Lithography <b>TSMC 6NM</b>	Dedicated Memory Size <b>8 GB</b>	Cooling <b>Active</b>	Product Family <b>AMD Radeon™ PRO</b>
Ray Accelerators <b>28</b>	Memory Speed <b>10.8 MHz</b>	Displays Type(s) <b>4x DisplayPort™ 2.1</b>	Product Line <b>AMD Radeon™ PRO W7000 Series</b>
ROPs <b>64</b>	Dedicated Memory Type <b>GDDR6</b>	Display Configurations <b>4x @ 3840x2160px (4K)</b> <b>4x @ 5120x2880px (5K)</b> <b>2x @ 7680x4320px (8K)</b>	Platform <b>Desktop Workstation</b>
Stream Processors <b>1792</b>	AMD Infinity Cache™ <b>Yes, 32 MB</b>	HDR Support <b>Yes</b>	Supported Operating Systems <b>Windows 11 - 64-Bit Edition</b> <b>Windows 10 - 64-Bit Edition</b> <b>Linux x86_64</b>
Compute Units <b>28</b>	Memory Interface <b>128-bit</b>	8K Support <b>Yes</b>	External Power Connectors <b>None (PCIe Power)</b>
Shaders <b>64</b>	Peak Memory Bandwidth <b>up to 173 GB/s</b>	16K Support <b>No</b>	
Peak Half Precision (FP16) Performance <b>24.38 TFLOPS</b>	Memory ECC Support <b>No</b>	Board Height <b>Full Height</b>	
Peak Single Precision (FP32) Performance <b>12.19 TFLOPS</b>	4K H264 Encode   Decode <b>Yes   Yes</b>	Board Length <b>8.5" (216 mm)</b>	
Peak Double Precision (FP64) Performance <b>.38 TFLOPS</b>	H265/HEVC Encode   Decode <b>Yes   Yes</b>	Board Width <b>Single Slot</b>	
Transistor Count <b>13.3 Billion</b>	AV1 Encode   Decode <b>Yes   Yes</b>		
	3D Stereo Support <b>Yes</b>		

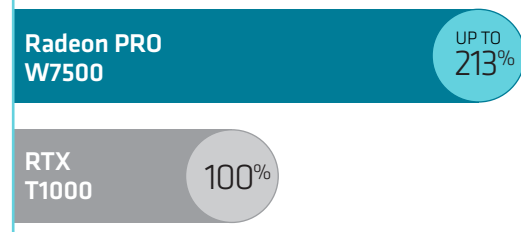
# AMD RADEON™ PRO W7500



## PERFORMANCE

### SOLIDWORKS

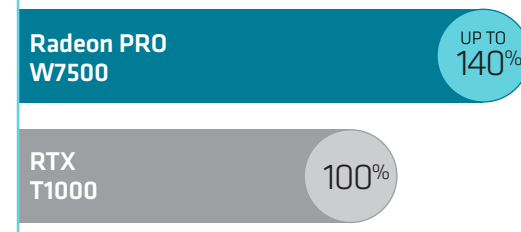
4K GPU Composite Score. Relative to the RTX A2000. Higher is Better.



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 W7600, W7500, and vs. similarly configured system with Nvidia Driver 528.95 with Nvidia T1000, RTX A2000 at 3840x2160 display resolution. Benchmark Application: SPECcap® SOLIDWORKS 2022 (4K). Additional information about the SPEC benchmarks can be found at [www.spec.org/gwpg](http://www.spec.org/gwpg). SPEC® and SPECviewperf® are registered trademarks of the Standard Performance Evaluation Corporation. Results may vary. RPW-436

### PTC Creo

SPECcap® 2023 4K GPU Composite Score, Geomean Score: Higher is Better.



RPW-437: 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 W7600, W7500, and vs. similarly configured system with Nvidia Driver 528.95 with Nvidia T1000, RTX A2000 at 3840x2160 display resolution. Benchmark Application: SPECcap® PTC Creo 3. Additional information about the SPEC benchmarks can be found at [www.spec.org/gwpg](http://www.spec.org/gwpg). SPEC® and SPECviewperf® are registered trademarks of the Standard Performance Evaluation Corporation. Results may vary. RPW-437

### Twinmotion

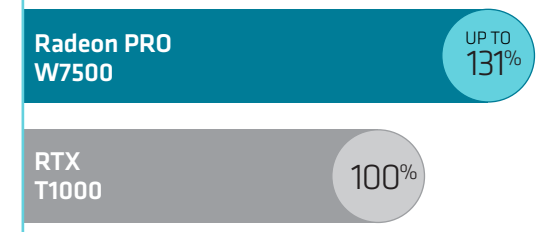
Relative to the RTX A2000. Lower is Better.



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 3600MHz 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 - GPU 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, 64GB RAM, Windows® 11 Pro build 22621, 64-bit, AMD Radeon™ PRO Software 23.10 RCPI7 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

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