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AMD



AMD RADEON™ PRO W7600 FOR MAINSTREAM WORKLOADS

GDDR6
8GB

AMD
RNA 3

AMD RADEON™ PRO W7600



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 AI Accelerators per Compute Unit

2nd Generation Ray Tracing

HVEC / H265 Encode/Decode Support

AV1 Encode (NEW) & Decode³

NEW AI Enhanced Video Encode

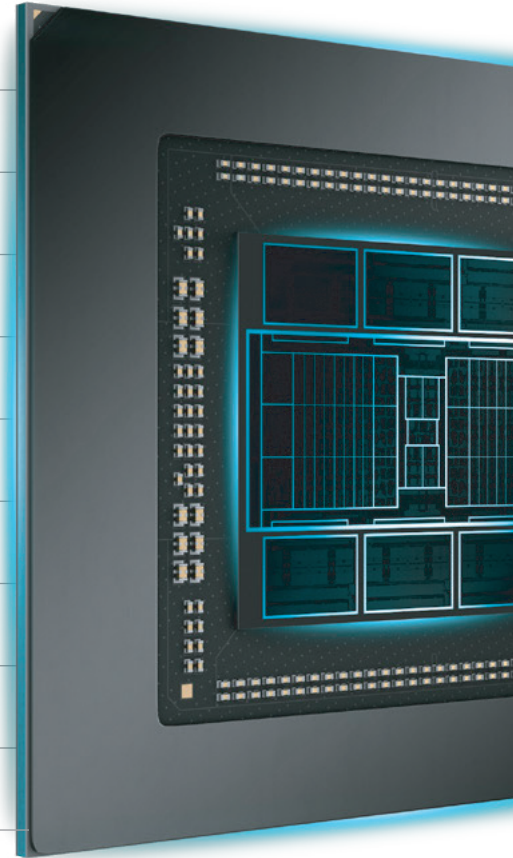
NEW AMD Radiance Display™ Engine

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

Up to 10K60 w/ DSC display support

Support for next-gen displays

3D Stereo Support



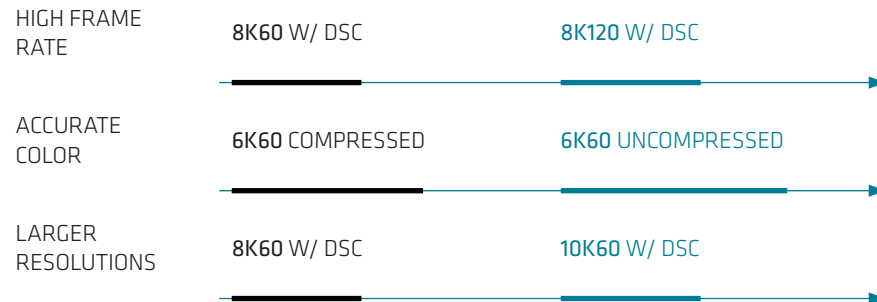
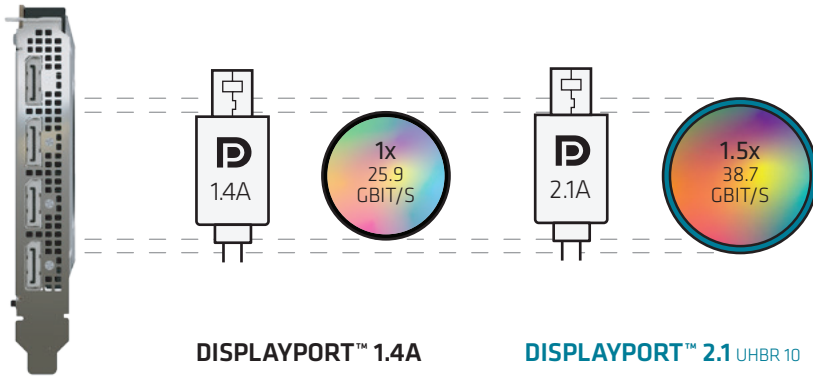
AMD
RADEON
PRO W7600

AMD RADEON™ PRO W7600



AMD RADIANCE DISPLAY™ ENGINE

First Workstation Graphics with DisplayPort™ 2.1



TECHNICAL SPECIFICATIONS

GPU Architecture
AMD RDNA™ 3

Hardware Raytracing
Yes

Lithography
TSMC 6NM

Ray Accelerators
32

ROPs
64

Stream Processors
2048

Compute Units
32

Shaders
64

Peak Half Precision (FP16)
Performance
39.98 TFLOPS

Peak Single Precision (FP32)
Performance
19.99 TFLOPS

Peak Double Precision (FP64)
Performance
.62 TFLOPS

Transistor Count
13.3 Billion

Total Board Power (TBP)
130 W

PSU Recommendation
350 W

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

3D Stereo Support
Yes

Form Factor
PCIe® Add-in Card

Bus Type
PCIe 4.0 x8

Cooling
Active

Displays Type(s)
4x DisplayPort™ 2.1

Display Configurations
**4x @ 3840x2160px (4K)
4x @ 5120x2880px (5K)
2x @ 7680x4320px (8K)**

HDR Support
Yes

8K Support
Yes

16K Support
No

Board Height
Full Height

Board Length
9.5" (241 mm)

Board Width
Single Slot

Supported Technologies
**AMD Remote⁴ Workstation
AMD Radeon™ Media Engine
AMD Software: PRO Edition
AMD Radeon™ VR Ready
Creator
AMD EyefinityTechnology⁵
(Professionals)
AMD Radeon™ ProRender**

Software API Support
**DirectX 12 Ultimate
OpenGL 4.6
Vulkan 1.3.2xx
Open CL 2.0**

Product Family
AMD Radeon™ PRO

Product Line
**AMD Radeon™ PRO W7000
Series**

Platform
Desktop Workstation

Supported Operating Systems
**Windows 11 - 64-Bit Edition
Windows 10 - 64-Bit Edition
Linux x86_64**

External Power Connectors
1x6-Pin Power Connectors

AMD
RADEON
PRO W7600

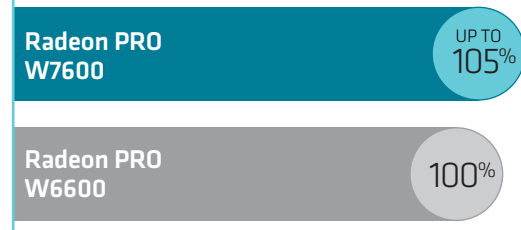
AMD RADEON™ PRO W7600



PERFORMANCE

Generational Performance

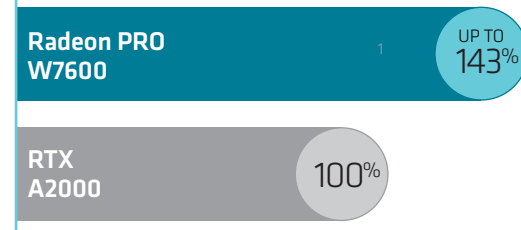
SPECviewperf® 2020, Relative to the Radeon™ PRO W6600. Higher is Better.



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 22H2, 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 W6600 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 Standard 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 22H2, 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: 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

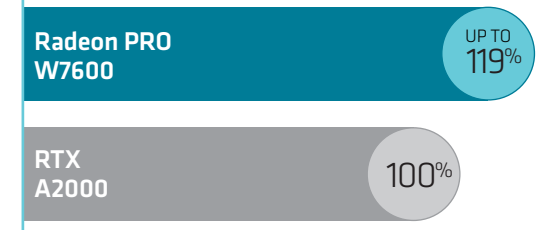
Relative to the RTX A2000. Lower is Better.



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 3600MHz RAM, Windows® 11 Pro build 22H2, 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 22H2, 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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