Our World is Shaped by Workstations








AMD
together we advance_

AMD RADEON PRO

Radeon™ PRO W7000 Series

Accelerating the **workday**

- A focus on efficiency
- Empower next-generation technology
- Offer extraordinary price/performance
- Enhancing stability and reliability

UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

AMD
together we advance_

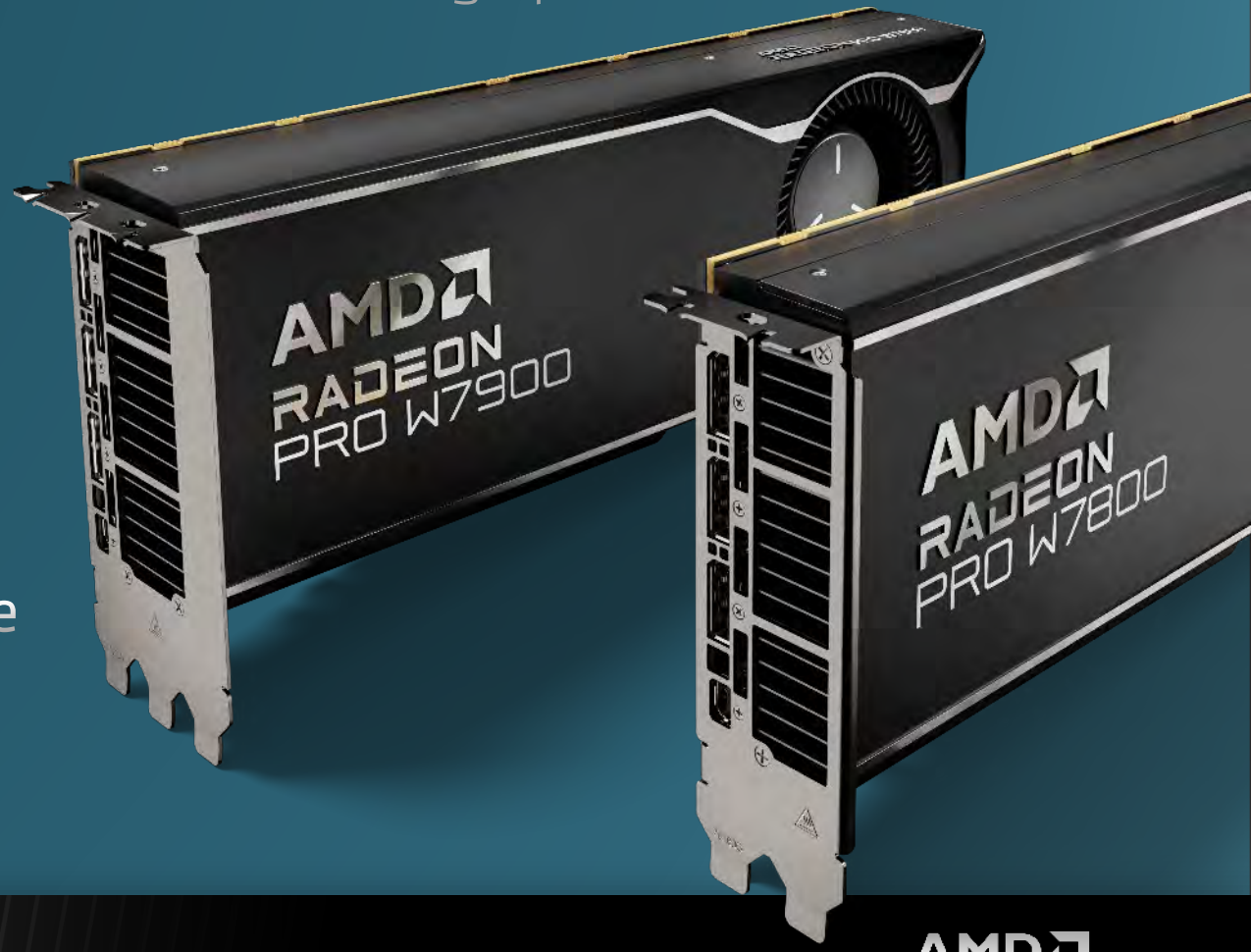
EXTENDING THE W7000 SERIES

Bringing in the next generation of Radeon™ PRO workstation graphics

April 2023:

The Radeon™ PRO W7900 & W7800

- 48GB or 32GB of Memory
- DisplayPort™ 2.1 with UHBR 20
- Introduced the Radiance Display™ Engine
- Innovative Chiplet Technology

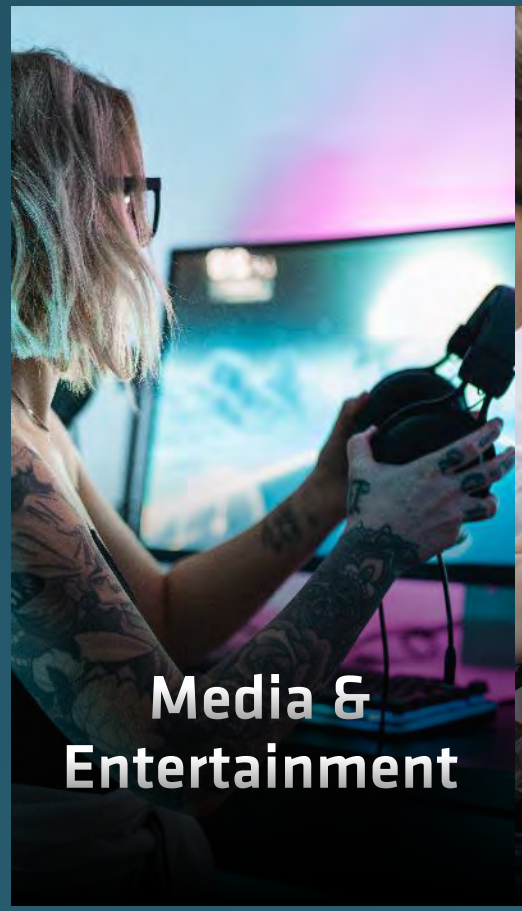


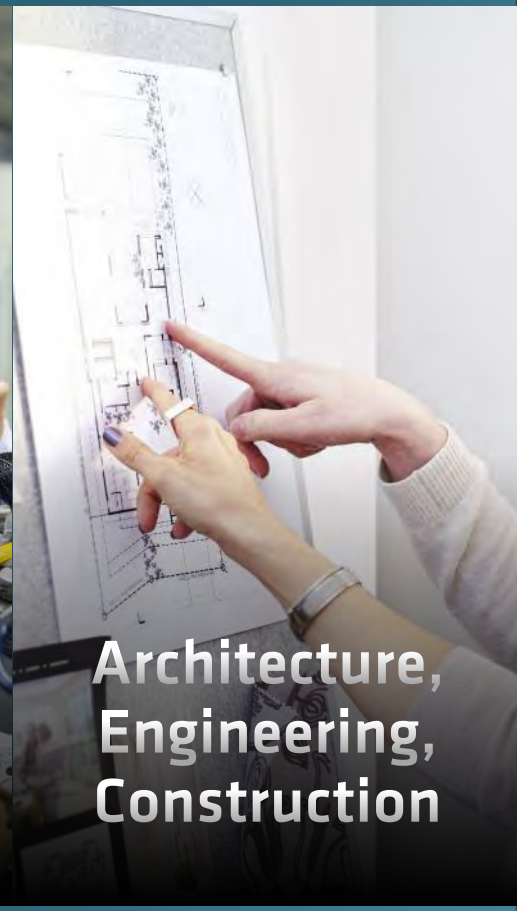
AMD
together we advance_

Mainstream Workloads

Designed to take on **primary challenges** across industries

Powered by AMD RDNA™ 3 Architecture for Modern Professionals

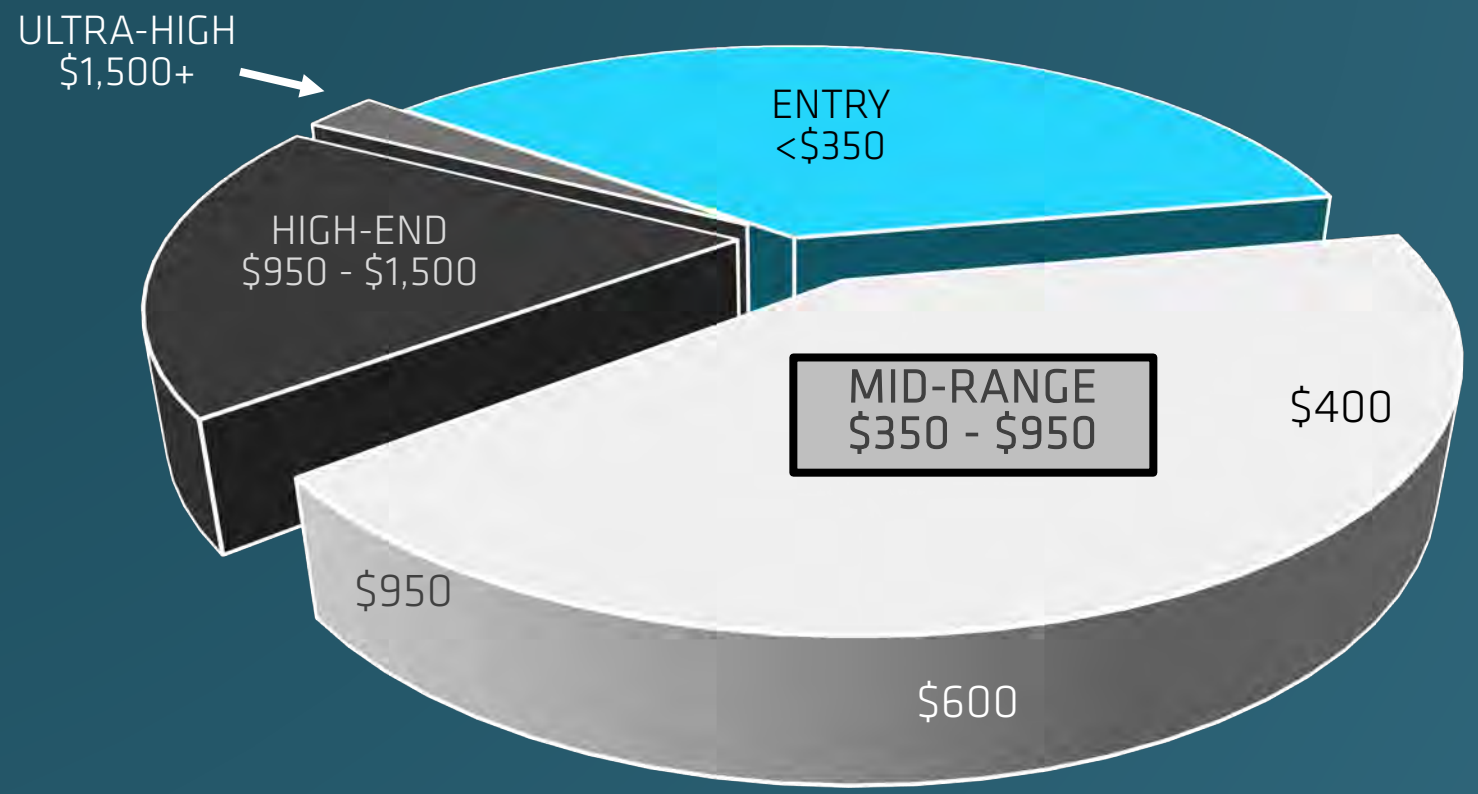




AMD
together we advance_

Understanding the Market Segments

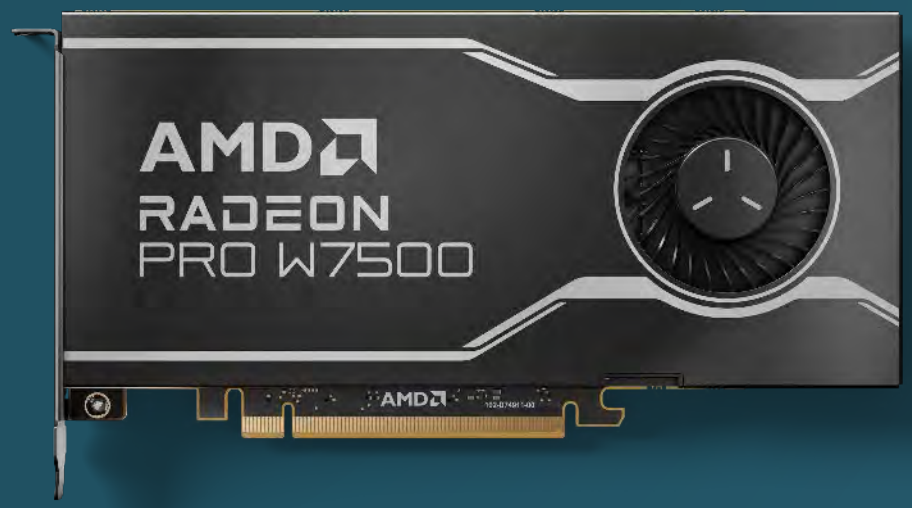
Unit Breakdown: Pro GPU Segments:



Mid-range shipments in Q1.23 represented approximately 42% of total professional add-in card unit shipments. Price bands are based on estimated average street prices (ASPs),
- JPR Workstation Report, Q1'23 Market Quarterly

UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

INTRODUCING:



70W Total Board Power | **8GB** GDDR6 Memory | **12TFLOPS** FP32 Single Precision

$429.00

130W Total Board Power | **8GB** GDDR6 Memory | **20TFLOPS** FP32 Single Precision

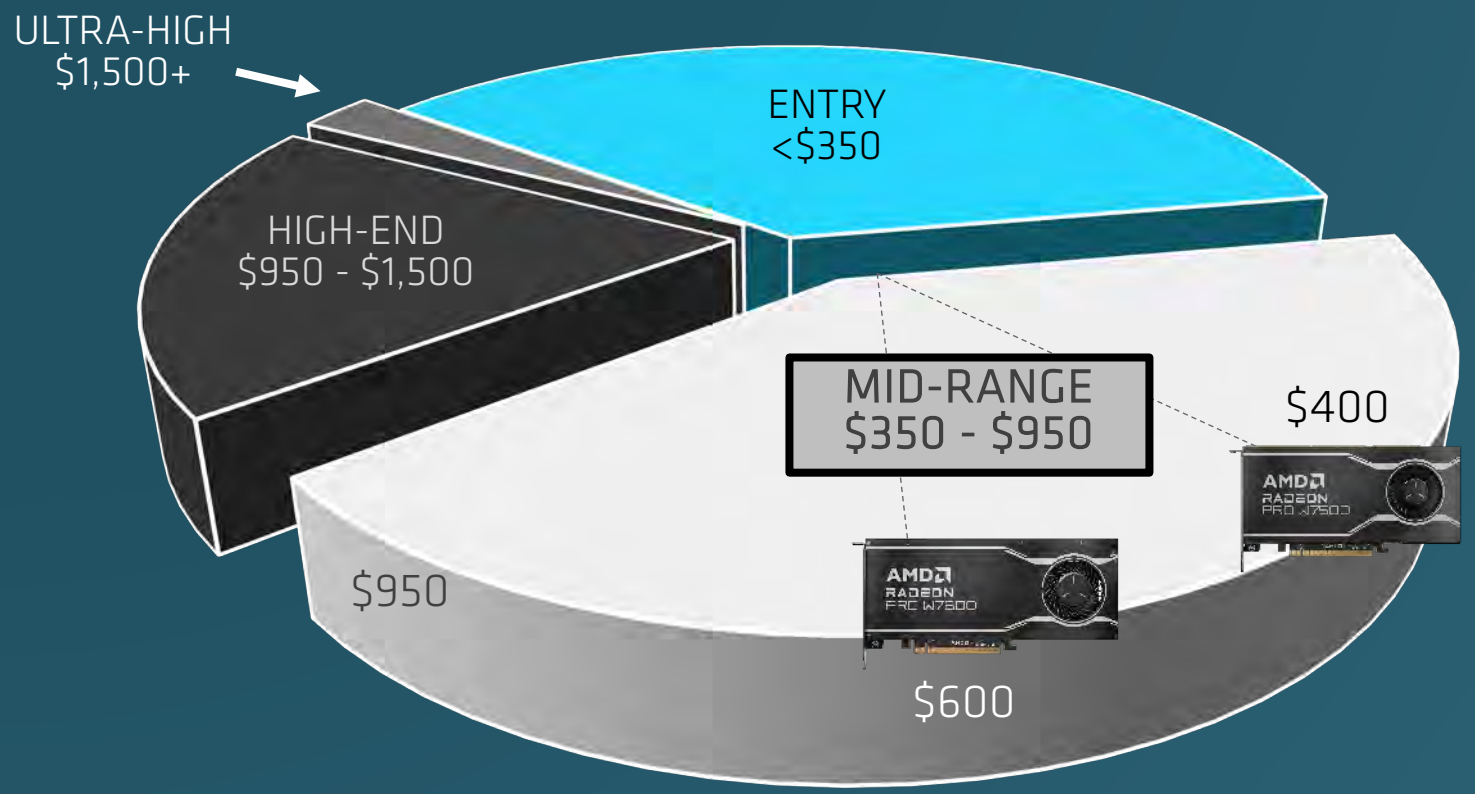
$599.00

AMD USD is suggested e-tail pricing (SEP) as of August 3rd, 2023

AMD RADEON PRO

Listening to the Customers

Unit Breakdown: Pro GPU Segments:



AMD Radeon™ PRO Responds:

- Provide TWO new options for the largest (**mid-range**) market segment
- Address **mainstream** user base with TWO price points
- Offer customers more choices for **medium** workloads

Mid-range shipments in Q1.23 represented approximately 42% of total professional add-in card unit shipments. Price bands are based on estimated average street prices (ASPs), - JPR Workstation Report, Q1'23 Market Quarterly

UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

INTRODUCING

AMD Radeon™ PRO W7600

FOR MEDIUM WORKLOADS

8 GB
128-bit GDDR6

DisplayPort™ **2.1**
Up to 40Gbit/s total bandwidth

32 CUs
AMD RDNA™ 3 Unified CUs (RT+AI)

20 TFLOPS
Peak Single Precision (FP32)

AV1
Encode & Decode

130W
Total Board Power via 6-Pin Connector

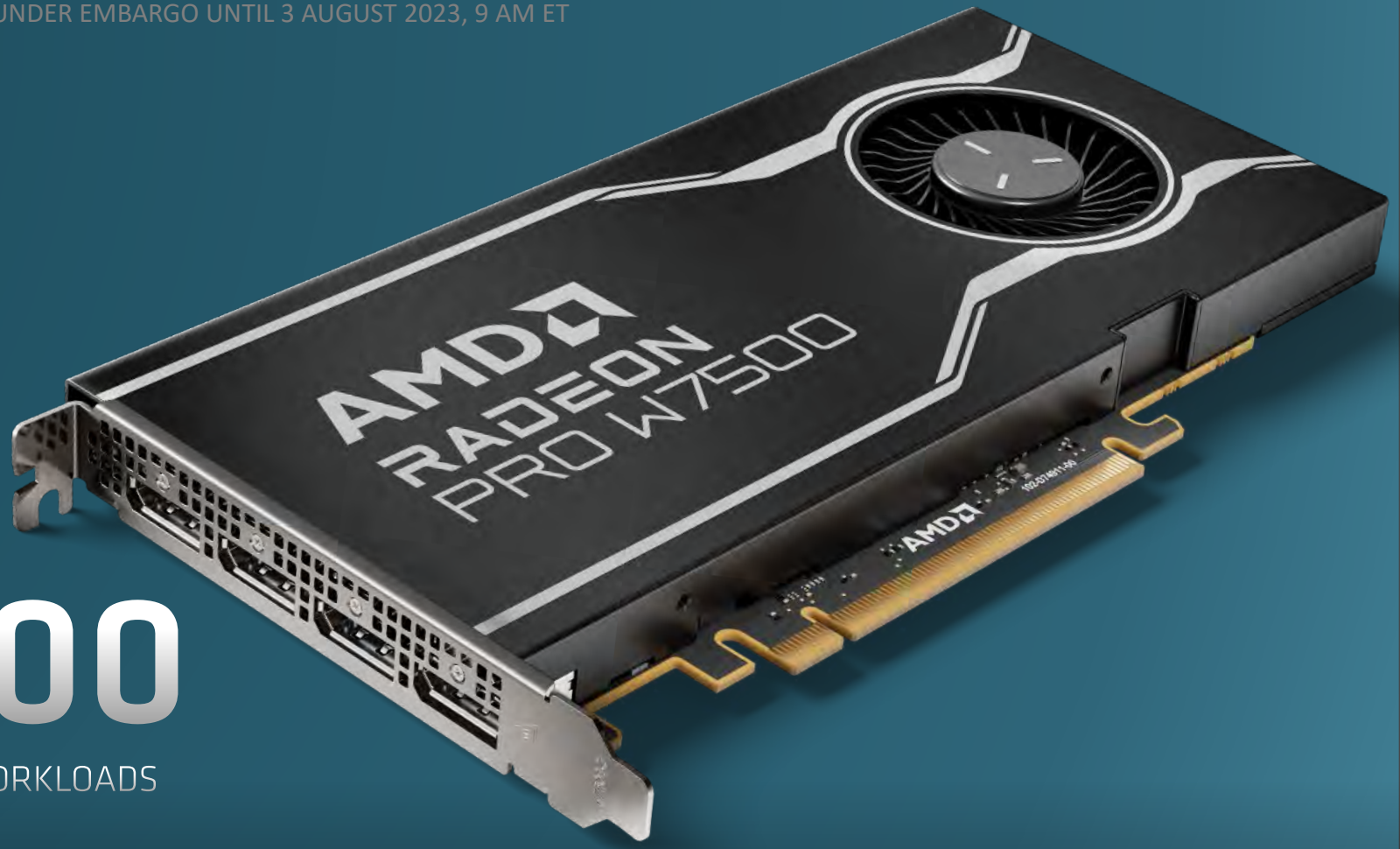
See endnote(s): GD-176

UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

INTRODUCING

AMD Radeon™ PRO W7500

FOR MEDIUM WORKLOADS



8 GB
128-bit GDDR6

DisplayPort™ **2.1**
Up to 40 Gbit/s total bandwidth

28 CUs
AMD RDNA™ 3 Unified CUs (RT+AI)

12 TFLOPS
Peak Single Precision (FP32)

AV1
Encode & Decode

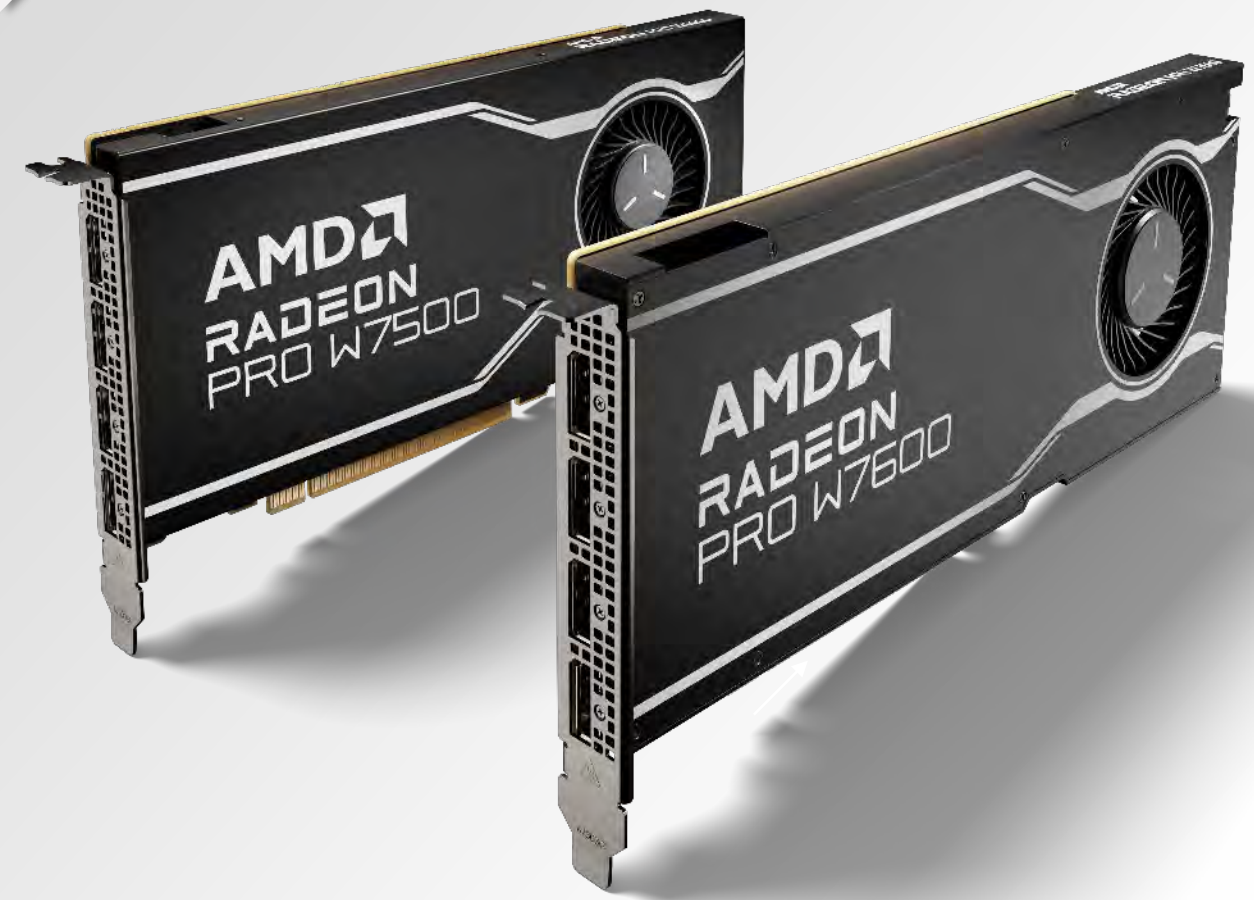
70W
Total Board Power via PCIe Bus

See endnote(s): GD-176

AMD RADEON™ PRO

W7500 & W7600

GEN-TO-GEN COMPARE



UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

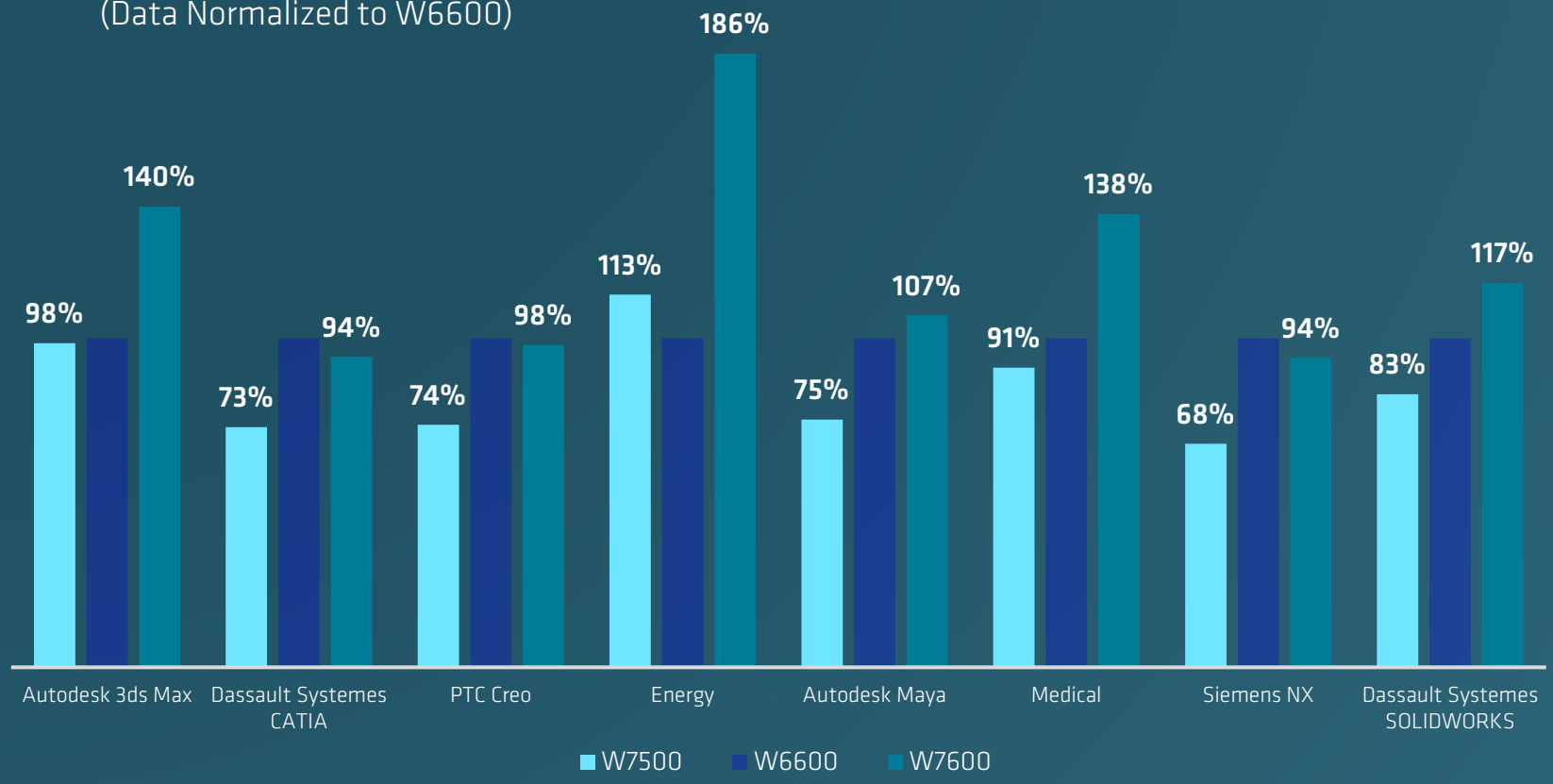
	AMD RADEON™ PRO **W7500**	AMD RADEON™ PRO **W6600**	AMD RADEON™ PRO **W7600**
	RDNA™ 3	**RDNA™ 2**	**RDNA™ 3**
LITHOGRAPHY	**TSMC 6nm**	**TSMC 7nm**	**TSMC 6nm**
COMPUTE UNITS & RAY ACCELERATORS	**28**	**28**	**32**
AI ACCELERATORS	**56**	**28**	**64**
PEAK SINGLE PRECISION PERFORMANCE (FP32)	**12 TFLOPS**	**10 TFLOPS**	**20 TFLOPS**
GDDR6 MEMORY	**8 GB**	**8 GB**	**8 GB**
MEMORY SPEED	**11 Gbps**	**14 Gbps**	**18 Gbps**
MEMORY BUS	**128-bit**	**128-bit**	**128-bit**
TOTAL BOARD POWER	**70 W**	**130 W**	**130 W**
DISPLAYPORT™	**2.1** UHBR 10	**1.4a** HBR 3	**2.1** UHBR 10
AV1 HW. ENCODING	**YES**	**NO**	**YES**
SEP AT LAUNCH	**$429**	**$649**	**$599**

AMD RADEON PRO

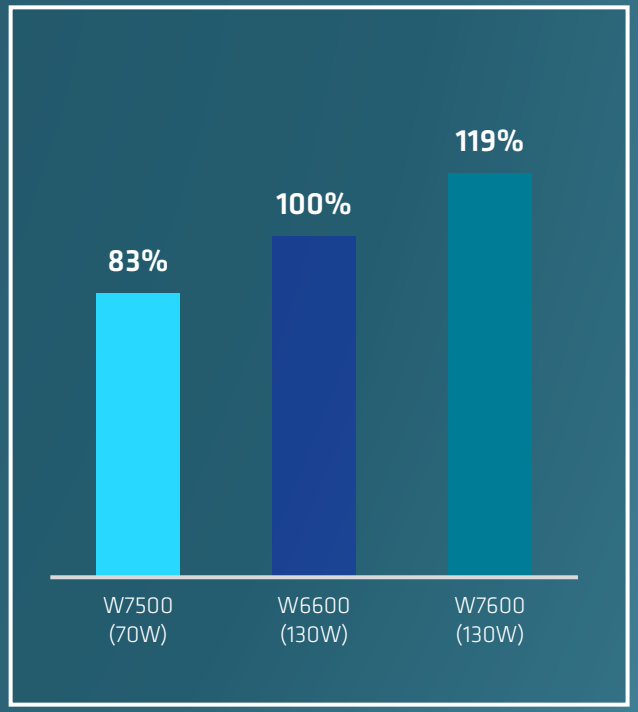
GENERATIONAL COMPARE

SPECviewperf 2020

(Data Normalized to W6600)



Overall Geomean

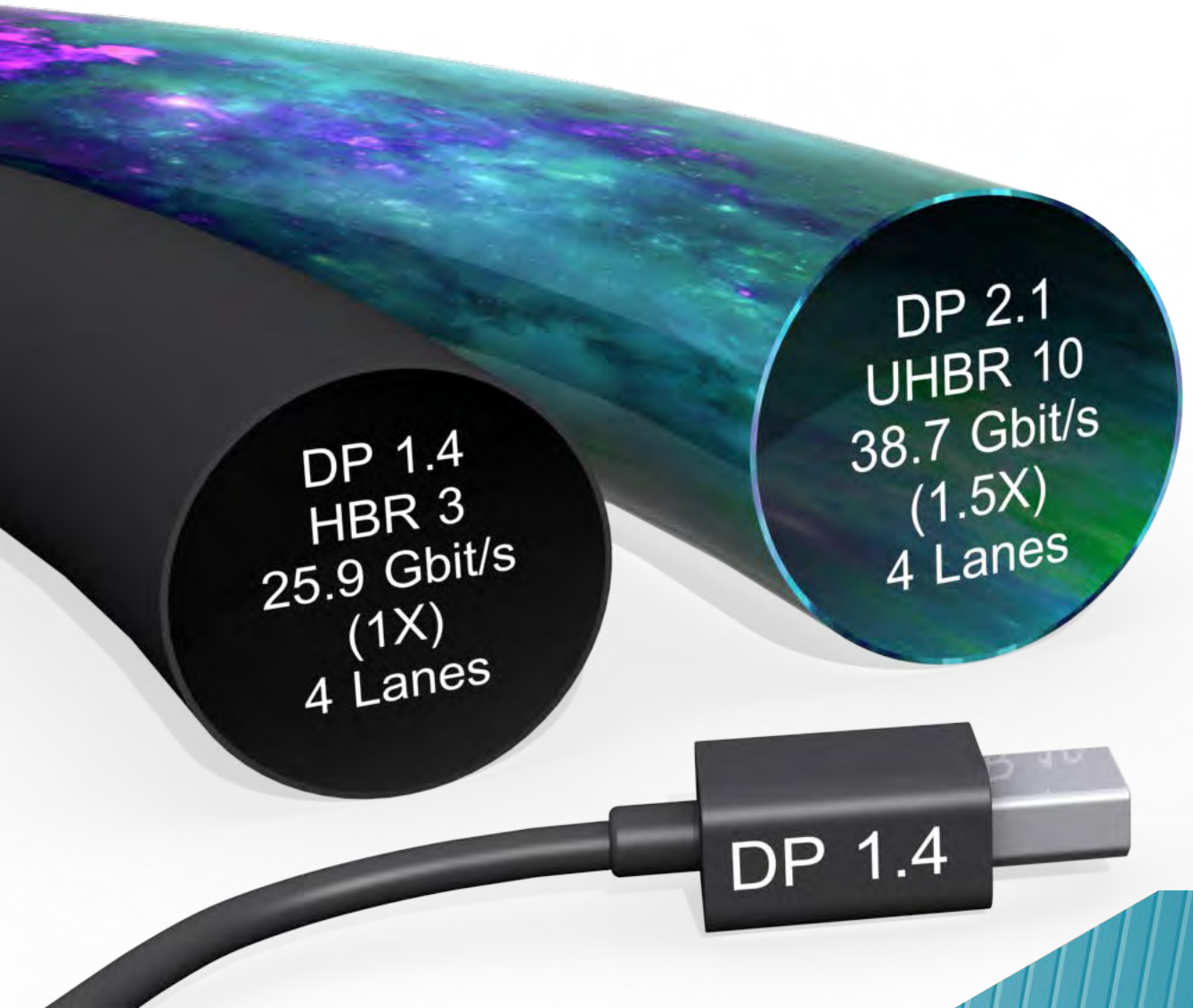


Data Normalized to W6600

See endnote(s): RPW-431

WORLD'S FIRST PRO GPU SERIES WITH DISPLAYPORT™ 2.1

AMD Radiance Display™ Engine



AMD Radeon™ PRO W7500/W7600 both offer UHBR 10 (x4)

Data Rate Determines:

- Refresh Rate
- Pixel Resolution
- Color Bit-Depth

See endnote(s): RPW-432

READY FOR **NEXT-GEN DISPLAYS**

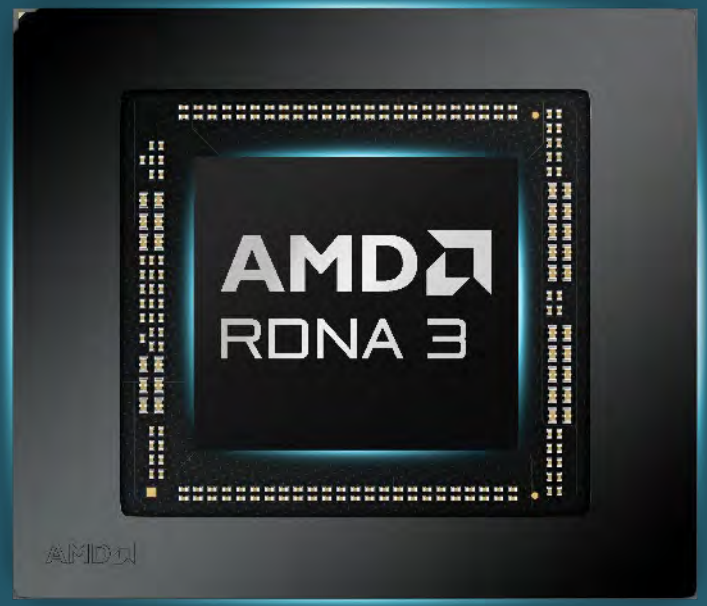
DELL SAMSUNG ASUS
LG EIZO acer

	The Rest DisplayPort™ 1.4	AMD Radeon™ PRO W7000 Series 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

AMD
together we advance_

AMD RDNA™ 3

Expanding encoding and decoding capabilities



- **Simultaneous** Encode/Decode Streams
- **Up to 8K60** AV1 Encode (new) & Decode
- **AI Enhanced** Video Encode (new)
  - Two AI Accelerators per Compute Unit for **up to 2.3x Performance**
  - **Up to 50%** more Raytracing performance per Compute Unit

See endnote(s): RPW-428, 429c, and GD-176

GENERATIONAL IMPROVEMENTS

AMD Radeon™ PRO W7600 vs. Radeon™ PRO W6600

2x

TFLOPS

Accelerated encoding
Enhanced multitasking
Efficient rendering

DP 2.1 (UHBR 10) over DP 1.4

1.5x

Maximum Total Data Rate

Industry leading
Reduced latency
Future-ready displays

2.3x

AMD AI Accelerators

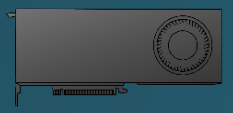
Improved performance
Increased efficiency
Faster processing

See endnote(s): RPW-433, 434, 429c

AMD
together we advance_

AMD RADEON PRO

MID-RANGE COMPETITIVE LANDSCAPE

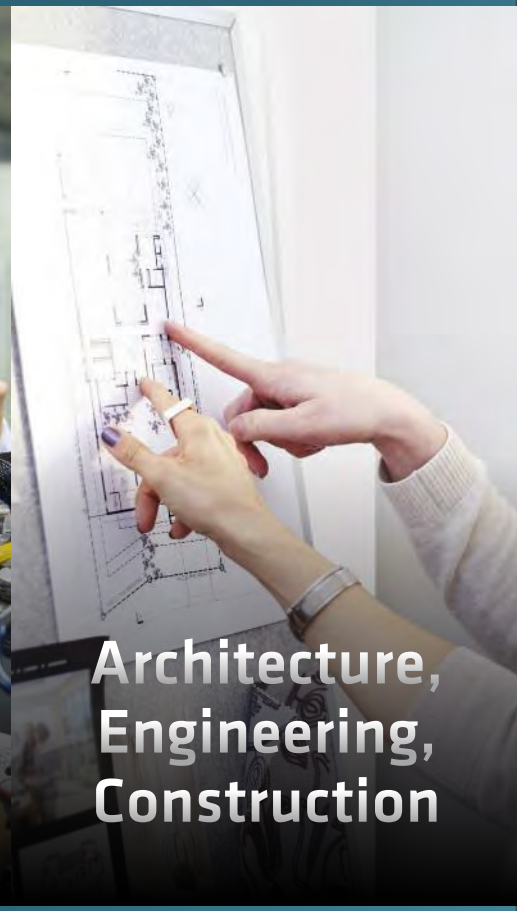
	AMD RADEON PRO W7600	NVIDIA A2000	AMD RADEON PRO W7500	NVIDIA T1000
				
VRAM	**8GB**	**12GB**	**8GB**	**8GB**
SPECviewperf® Geomean (up to)	155.19	99.97	112.83	58.26
DisplayPort™	2.1	1.4	2.1	1.4
Power (TBP)	130W	70W	70W	50W
	$599	**$646**	**$429**	**$424**

AMD prices listed are SEP. CDW USD pricing for individual NVIDIA GPUs as of July 9th, 2023. RPW-430, 435

Engineered for You

Designed to take on **common challenges** across all major industry workflows

Medium Workloads Impact Every Primary Vertical



AMD
together we advance_

UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

3D CAD & VISUALIZATION

3DS MAX®
AUTOCAD®
CATIA
CREO®
EDIFICIOUS
INVENTOR
LUMION
NX™
REVIT®
RHINO®
SOLIDWORKS®
SW VISUALIZE
TWINMOTION
UNREAL® ENGINE
3DS MAX®
AUTOCAD®
CATIA
CREO®
EDIFICIOUS
INVENTOR
LUMION
NX™
REVIT®
RHINO®
SOLIDWORKS®
SW VISUALIZE

CAD/BIM
DIGITAL DOUBLES
ARCHITECTURAL WALKTHROUGHS
DRONE PHOTOGRAPHY
MULTITASKING
PHOTOGRAMMETRY
POINT CLOUDS
PROTOTYPING
REAL-TIME
VR/AR
VISUALIZATION
WALKTHROUGHS
CAD/BIM
DIGITAL DOUBLES
DRONE PHOTOGRAPHY

- Key ISV Certifications
- SMB-Enterprise Support
- Power Efficiency
- RDNA™3 Architecture
  - DX12/Vulkan® HW Ray Tracing
  - AMD Compute Units
- Wireless VR support

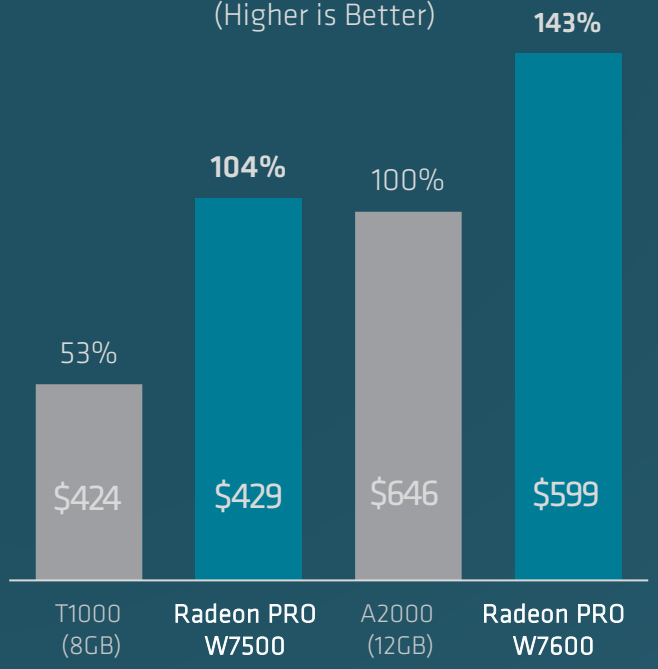
AMD
together we advance_

AMD RADEON PRO

3D CAD & VISUALIZATION

DS SOLIDWORKS®

GPU Composite Score
(Higher is Better)



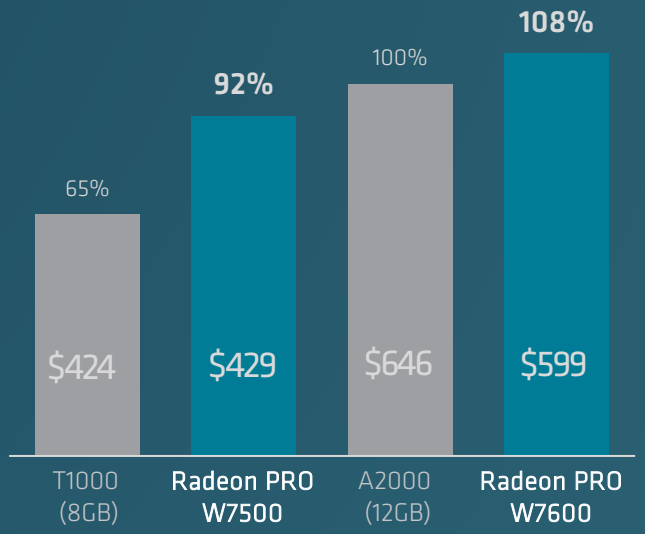
Up to **43%** **Higher** Performance

Normalized to A2000
Based on SPECapc® 2023 for SOLIDWORKS

See endnote(s): RPW-436

PTC Creo®

4K Composite Graphics Score
(Higher is Better)



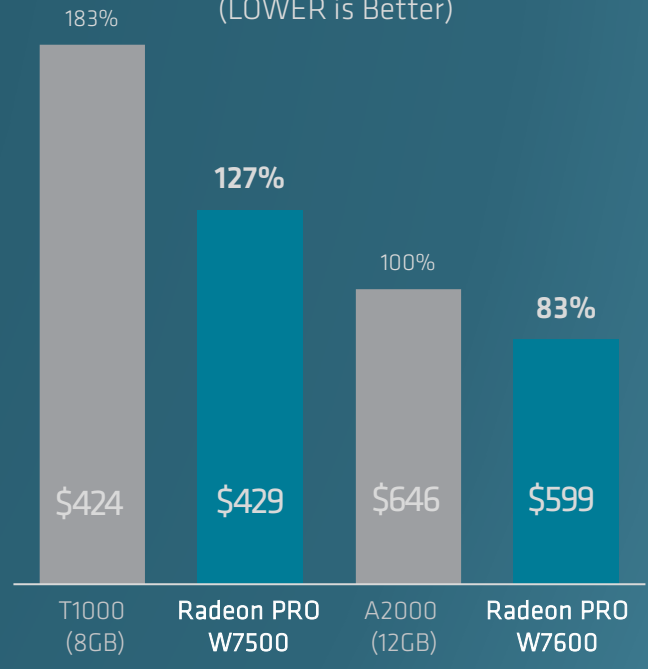
Up to **8%** **Higher** Performance

Normalized to A2000
Based on SPECapc® 2023 for Creo

See endnote(s): RPW-437

Epic Games Twinmotion

GPU Rendering for AEC
(LOWER is Better)



Up to **17%** **Faster** Rendering

Normalized to A2000
Based on Twinmotion Lakehouse Dataset

See endnote(s): RPW-438

UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

DIGITAL PHOTOGRAPHY & VIDEO

ACDSEE
AFTER EFFECTS
ARTRAGE
AVID® MEDIA COMPOSER
DAVINCI RESOLVE®
FUSION
HANDBRAKE
HITFILM
KRITA
LIGHTROOM
MEDIA ENCODER
NUKE
NATRON
PREMIERE PRO
PHOTOSHOP
PAINTER
RED GIANT
SAPPHIRE
TOPAZ VIDEO AI
VEGAS PRO
ACDSEE
AFTER EFFECTS
ARTRAGE
AVID MEDIA COMPOSER
DAVINCI RESOLVE®
FUSION
HANDBRAKE
HITFILM

AUDIO SWEETENING
BATCH PROCESSING
COLOR CORRECTION
COMPOSITING
DIGITAL PAINT
ENCODING
PHOTOGRAPHY
EXPORTING & RENDERING
KEYFRAME ANIMATION
MOTION GRAPHICS
MULTI-CAMERA EDITING
MULTITASKING
PHOTO EDITING
TITLES AND TEXT
TRANSITIONS

- DisplayPort™ 2.1
  - 10/12-bit color support
  - 4K/5K/8K & beyond
- OpenCL 2.2
- Modern Rendering Formats
  - 1x AV1 encode/decode
  - 2x decode H265/HEVC

See Endnote(s): GD-176

AMD Radeon™ PRO
Workstation Guide

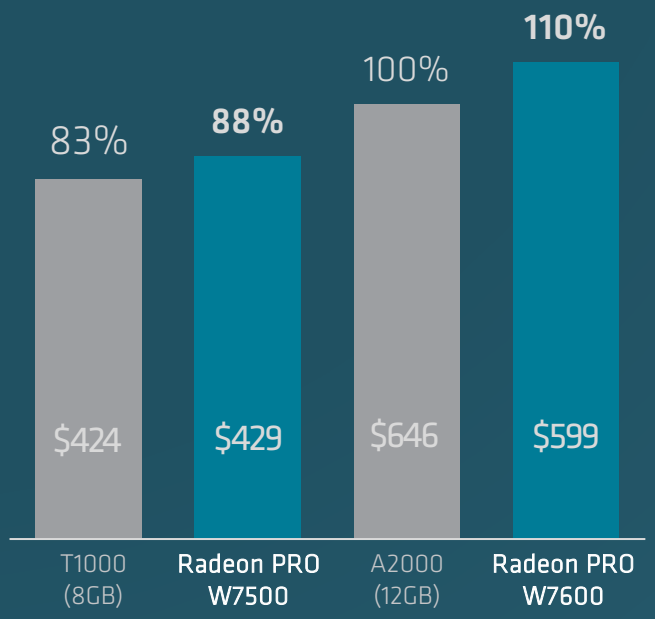
AMD
together we advance_

AMD RADEON PRO

DIGITAL PHOTOGRAPHY & VIDEO

Adobe **Premiere Pro**

GPU Score
(Higher is Better)



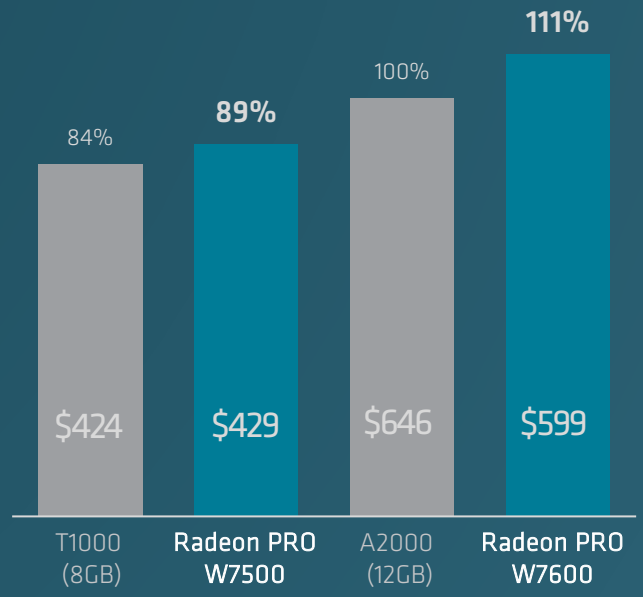
Up to **10%** **Higher** Performance

Normalized to A2000
Based on PugetBench for Premiere® Pro

See Endnote(s): RPW-439

Adobe **After Effects**

GPU Score
(Higher is Better)



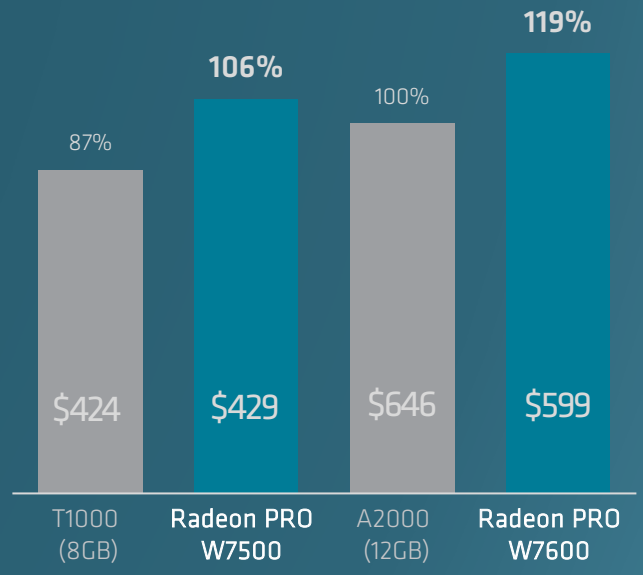
Up to **11%** **Higher** Performance

Normalized to A2000
Based on PugetBench for After Effects

See Endnote(s): RPW-440

Blackmagic **DaVinci Resolve**

4K Media Score
(Higher is Better)



Up to **19%** **Higher** Performance

Normalized to A2000
Based on PugetBench for DaVinci Resolve

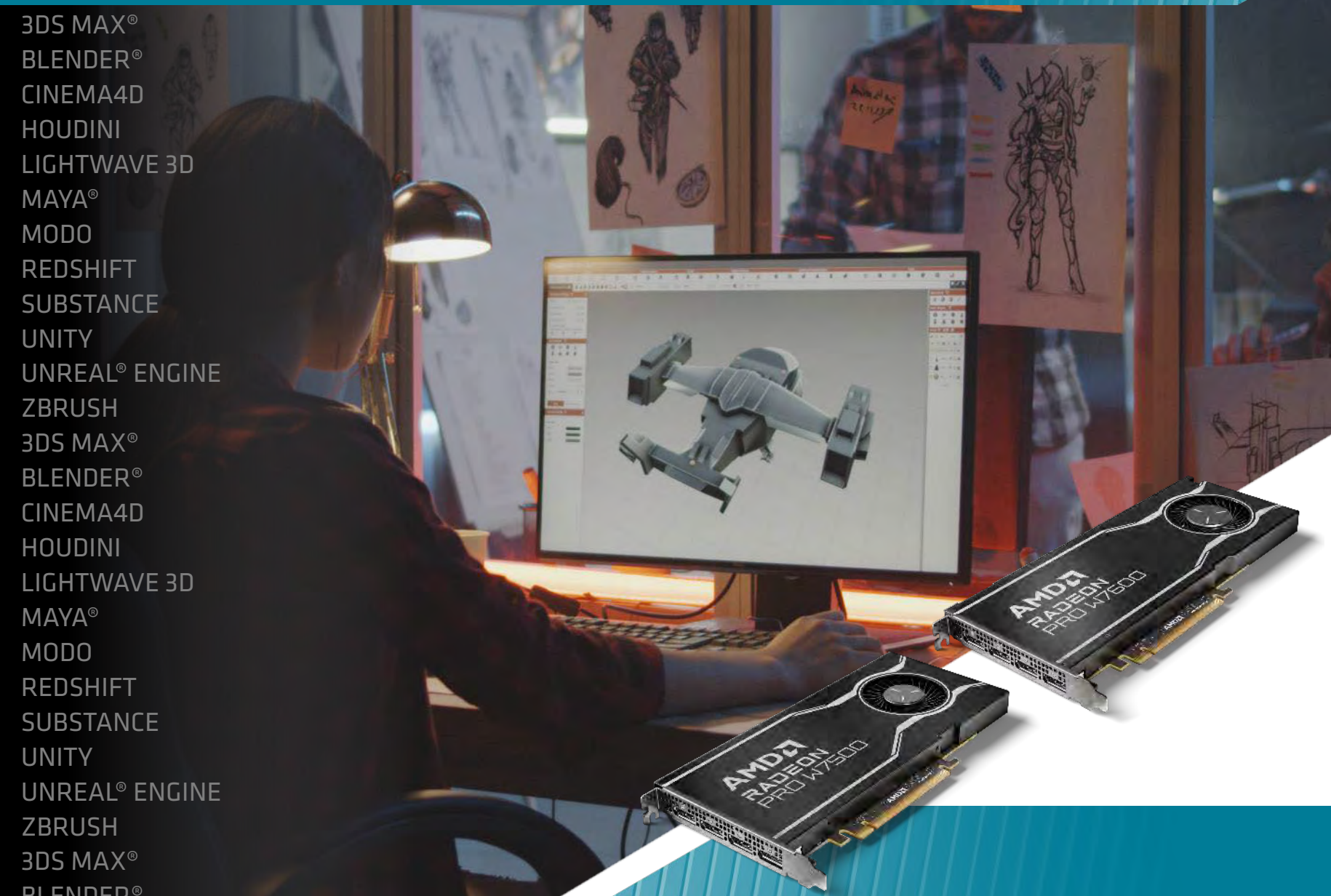
See Endnote(s): RPW-441

UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

3D CONTENT CREATION & ANIMATION

3DS MAX®
BLENDER®
CINEMA4D
HOUDINI
LIGHTWAVE 3D
MAYA®
MODO
REDSHIFT
SUBSTANCE
UNITY
UNREAL® ENGINE
ZBRUSH
3DS MAX®
BLENDER®
CINEMA4D
HOUDINI
LIGHTWAVE 3D
MAYA®
MODO
REDSHIFT
SUBSTANCE
UNITY
UNREAL® ENGINE
ZBRUSH
3DS MAX®
BLENDER®

3D MODELING
ANIMATION
DYNAMICS
LIGHTING
LOOK-DEV
MATERIALS
MULTI-TASKING
PAINTING
PARTICLES
RENDERING
SCULPTING
SIMULATION
SKINNING
SPECIAL EFFECTS
TEXTURING



- DisplayPort™ 2.1
  - 10/12-bit color support
  - 4K/5K/8K & beyond
- Wireless VR
- DX12/Vulkan® ray tracing
- AMD Image Boost
- AMD Viewport Boost
- AMD HIP – Blender®, Redshift
- Windows & Linux support

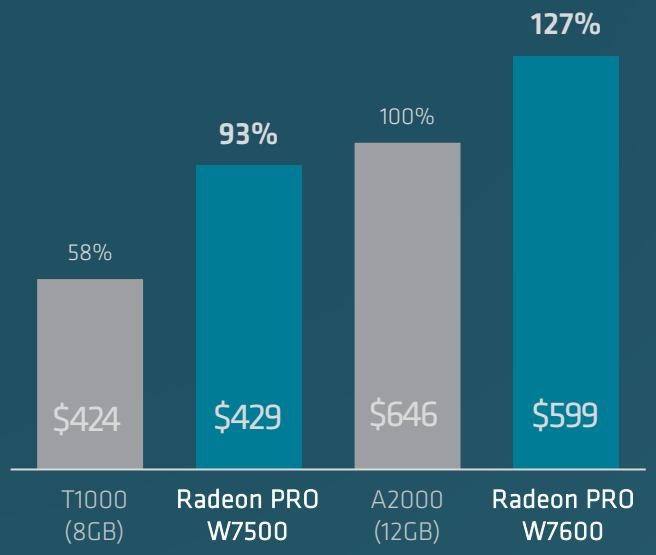
AMD
together we advance_

AMD RADEON PRO

3D CONTENT CREATION & ANIMATION

Autodesk **Maya**

GPU Composite Score
(Higher is Better)



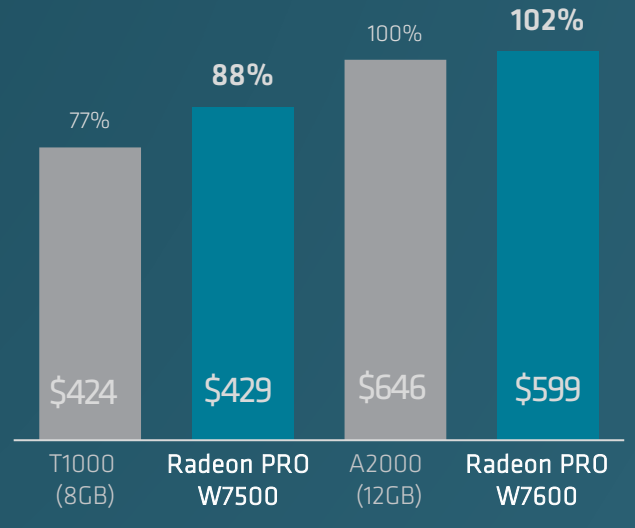
Up to **27%** **Higher** Performance

Normalized to A2000
Based on SPECapc® for Maya 2023 at 4K

See Endnote(s): RPW-442

Autodesk **3ds Max**

GPU Composite Score
(Higher is Better)



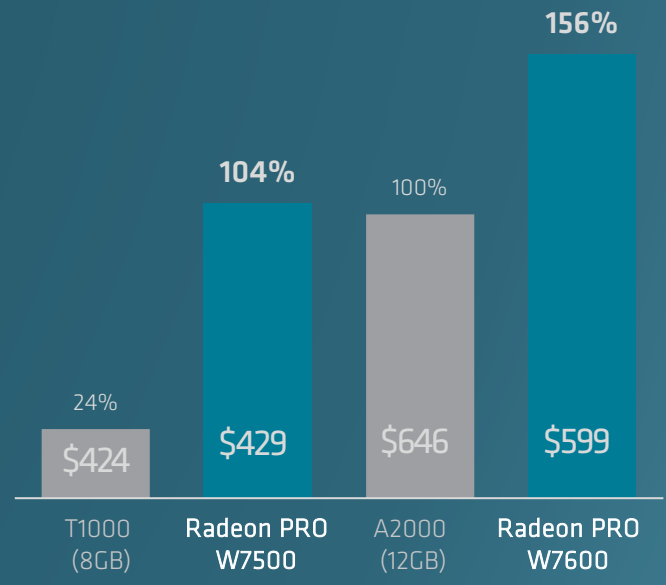
Up to **2%** **Higher** Performance

Normalized to A2000
Based on SPECapc® for 3ds max 2020 at 4K

See Endnote(s): RPW-443

Real-time **Ray Tracing**

Graphics Score (DX12)
(Higher is Better)



Up to **56%** **Higher** Performance

Normalized to A2000
Based on 3D Mark; Port Royal (DX12)

See Endnote(s): RPW-444

UNDER EMBARGO UNTIL 3 AUGUST 2023, 9 AM ET

GENERATIVE & CREATOR A.I. GROWTH

ARTBREEDER
CAFFE
CHAT GPT
DALL-E
DIRECTML
FIREFLY
KERES
LUMEN AI
MXNET
OPENAI
PYTORCH
SENSEI
STABLE DIFFUSION
TENSORFLOW
TOPAZ AI
ARTBREEDER
CAFFE
CHAT GPT
DALL-E
DIRECTML
FIREFLY
KERES
LUMEN AI
MXNET
OPENAI
PYTORCH
SENSEI

DATA ANNOTATION
DATA COLLECTION
DE-NOISING
DEPLOYMENT
HYPERPARAMETER TUNING
MAINTAINENCE
MODEL SELECTION
MODEL TRAINING
MONITORING
PERFORMANCE TRACKING
PREPROCESSING
TESTING
VALIDATION
WEB SCRAPING

AMD ROCm v.5.6

Optimized AI software stack

AMD to Add AMD ROCm™ Platform Support on Select RDNA™ 3 GPUs this Fall

AI Models and Algorithms

PyTorch TensorFlow ONNX

AI Ecosystem optimized for AMD

Libraries
Compilers and Tools
Runtime

AMD ROCm | A proven software stack

AMD Instinct™ GPU

AMD INSTINCT | Leadership performance

- All RDNA 3 GPUs include dedicated AI accelerators
- AMD ROCm
  - v5.6 Released
  - RDNA 3 Support announced for 2023

"Working across multiple displays in SOLIDWORKS® while also prepping for 3D printing is flawless. The new 7000 series Radeon™ PRO cards allow me to multi-task across all my key apps with ease."

- Dr. Adi Pandzic; Ph.D.
- Mechanical Engineer

"Outside of heavy animation rendering, typical day to day production doesn't necessarily require crazy amounts of graphics memory. These new mid-range GPUs give us even more options for our BIM design team."

- Rob Terry; Senior Designer/Manager & 3D Visualization Specialist
- Stantec Architecture

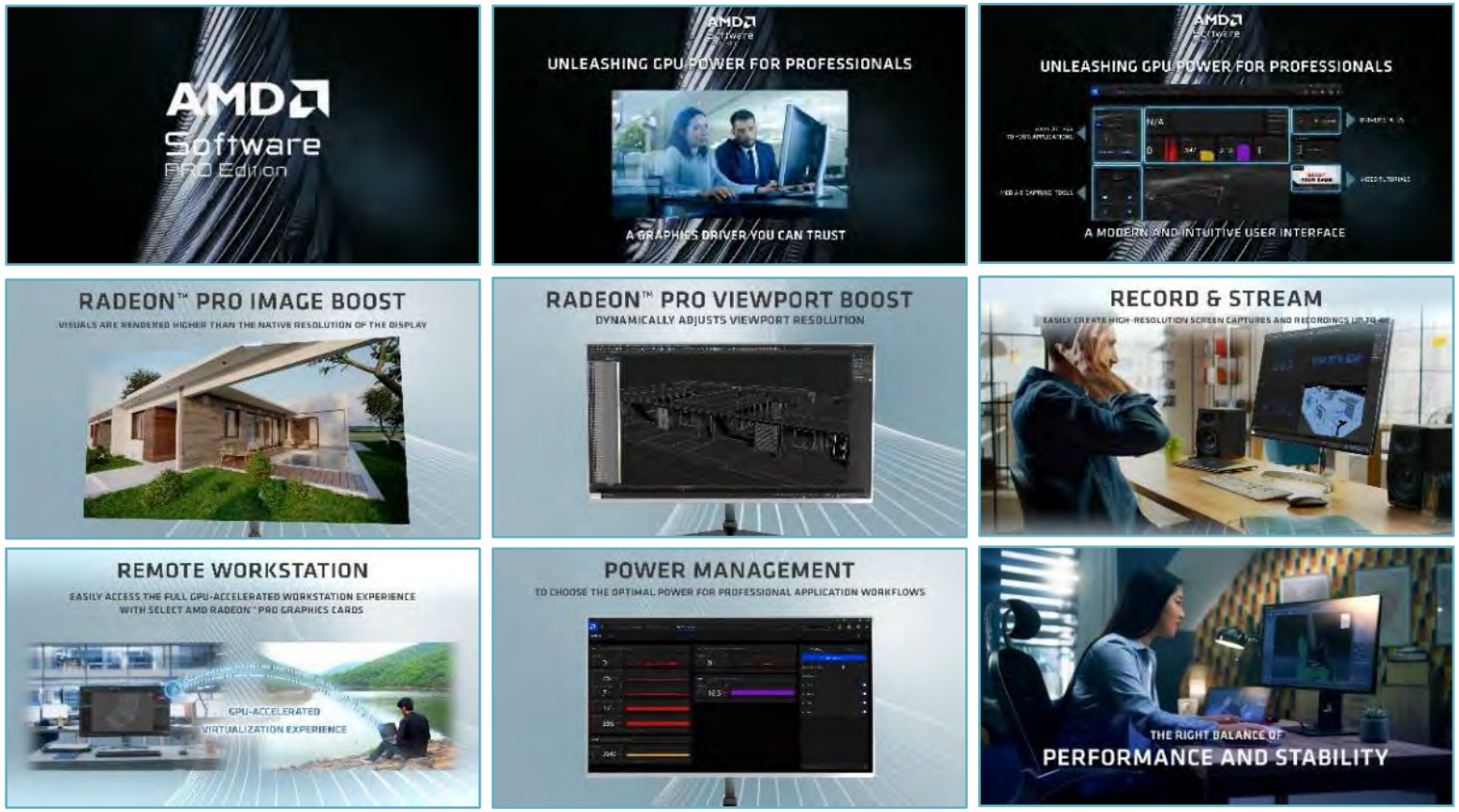
"These two new GPUs allow us to build cost effective systems to roll out to our artists doing the bulk of the asset creation."

- Rich Hurrey; Co-Founder
- Ozone Story Tech

AMD Software: PRO Edition

Features Targeting Professional Users and Workflows

- Modern UI or Headless
- Professional Features
- Regular Driver Updates
- Rethink Power Efficiency
- Focus on Reliability



AMD.com/CERTIFIED

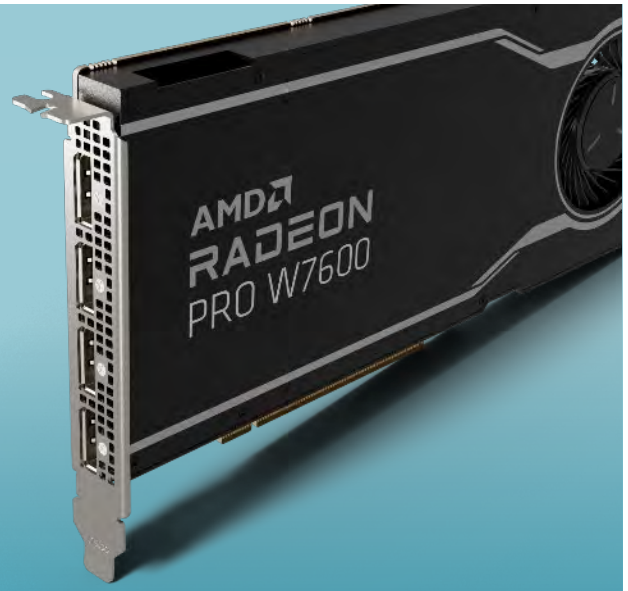
Features Targeting Professional Users and Professional Workflows

- Over 1700 Professional Certifications
- Stable performance on Microsoft Windows® and Linux® platforms
- Rigorous testing with leading ISV and OEM partners

SIEMENS NX · AUTODESK 3DS MAX · SOLIDWORKS · MAYA · Ansys · SOLID EDGE · INVENTOR · FEMAP · AUTODESK REVIT · HEXAGON · AUTOCAD CIVIL 3D · AUTODESK MOTIONBUILDER · Bentley MicroStation · AUTOCAD · Bentley CONTEXT CAPTURE · + More...

EXTENDING THE PRO ECOSYSTEM

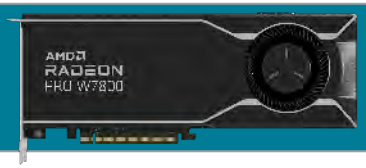
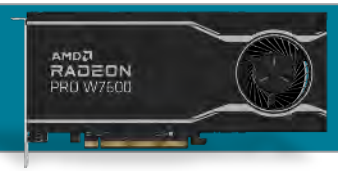
AMD Ryzen™ Threadripper PRO
5000 WX-Series
PROCESSORS



AMD Radeon™ PRO
W7000-Series
GRAPHICS

AMD Software:
PRO Edition™
SOFTWARE

THE RADEON™ PRO W7000 SERIES

	GDDR6 MEMORY	TFLOPS (FP32)	COMPUTE UNITS & RAY ACCELERATORS	SPECviewperf GEOMEAN (up to)	DISPLAYPORT™ 2.1 BANDWIDTH	POWER (TBP)	LAUNCH SEP PRICE
	48GB	61.3	96	328.9	3X UHBR 13.5 1X UHBR 20	UP TO 295W	$3,999
	32GB	45.3	70	270.5	3X UHBR 13.5 1X UHBR 20	UP TO 255W	$2,499
	8GB	19.9	32	155.2	4X UHBR 10	UP TO 130W	$599
	8GB	12.2	28	112.8	4X UHBR 10	UP TO 70W	$429

AMD prices listed are SEP. RPW-414 and RPW-431

AMD RADEON PRO

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

AMD
together we advance_