AMD Meet the Experts

THE NEWEST FAMILY MEMBER: AMD RADEON™ PRO W6400 GRAPHICS

Thursday, February 10, 2022 | 12:00 PM CST

Agenda

AMD
Meet the Experts

MEET OUR EXPERTS

THE NEWEST FAMILY MEMBER: AMD RADEON™ PRO W6400 GRAPHICS

QUESTION & ANSWER

CLOSING

GARY DAVIS
Senor GTM Manager; Radeon PRO BU
AMD

RYAN SAGARE
Host

How to Use the Console

MEDIA PLAYER

PRESENTATION

SUBMIT A QUESTION

EXPERT BIO

TABLE OF CONTENTS

HELP

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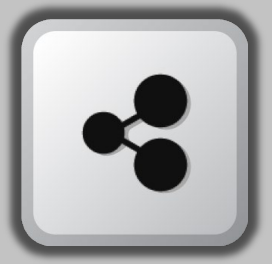

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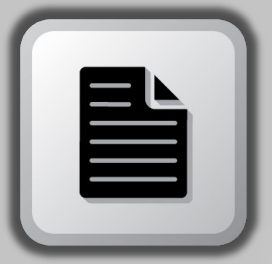


RESOURCES

SUBSCRIBE

GIVE US YOUR FEEDBACK

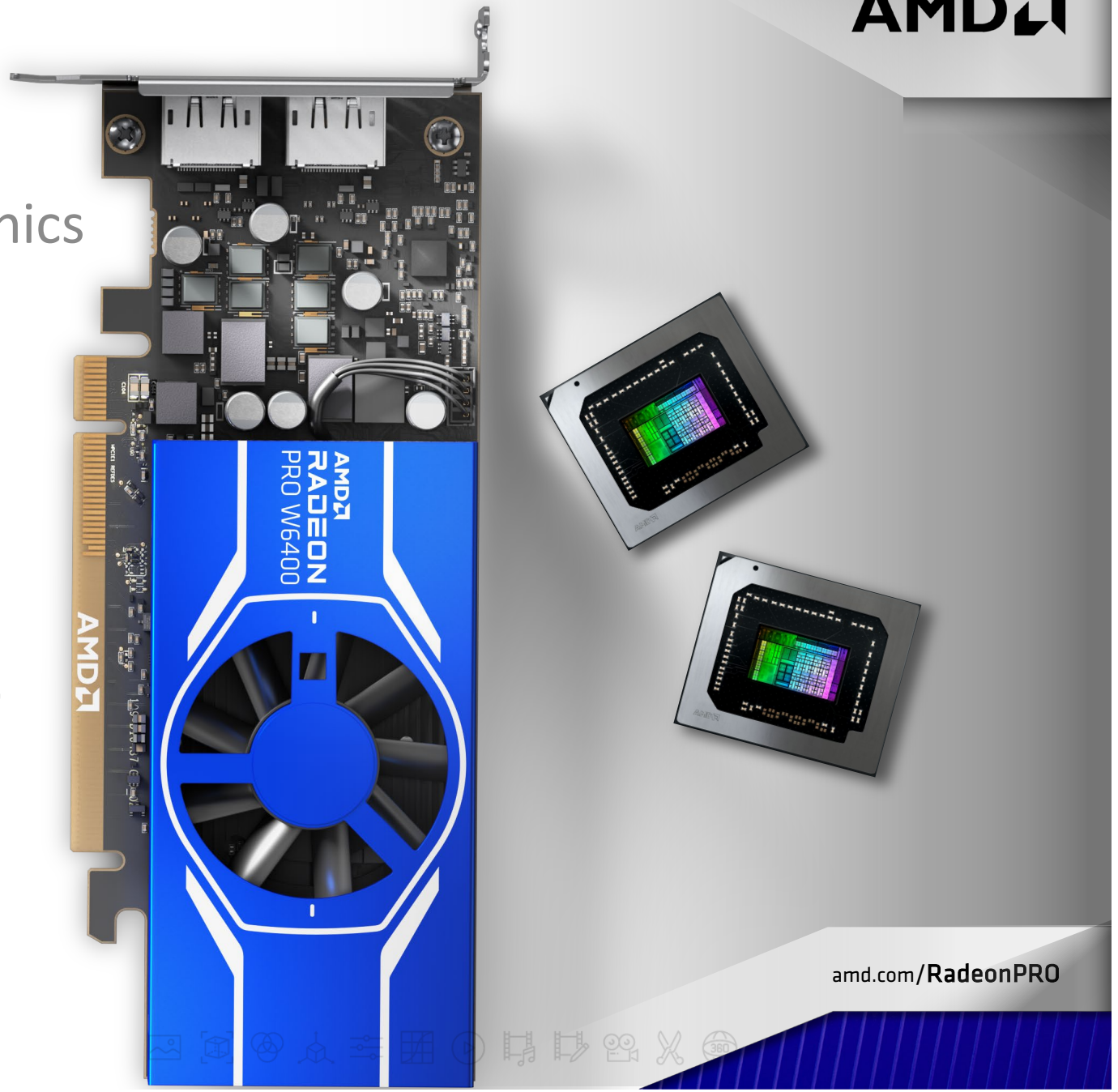
Today’s Meet the Experts Objectives

- Learn about AMD Radeon™ PRO W6400 Graphics specification
- Introduce the AMD Radeon™ PRO W6000M Mobile Series
- Understand the key AMD RDNA™ 2 features
- Review the latest AMD Radeon™ Software Updates

AGENDA

AMD Radeon™ PRO W6000 Graphics Series Update.

Introductions
Radeon™ PRO Momentum
AMD RDNA™ 2 Features
Radeon™ PRO W6400 Series
Software for Professionals



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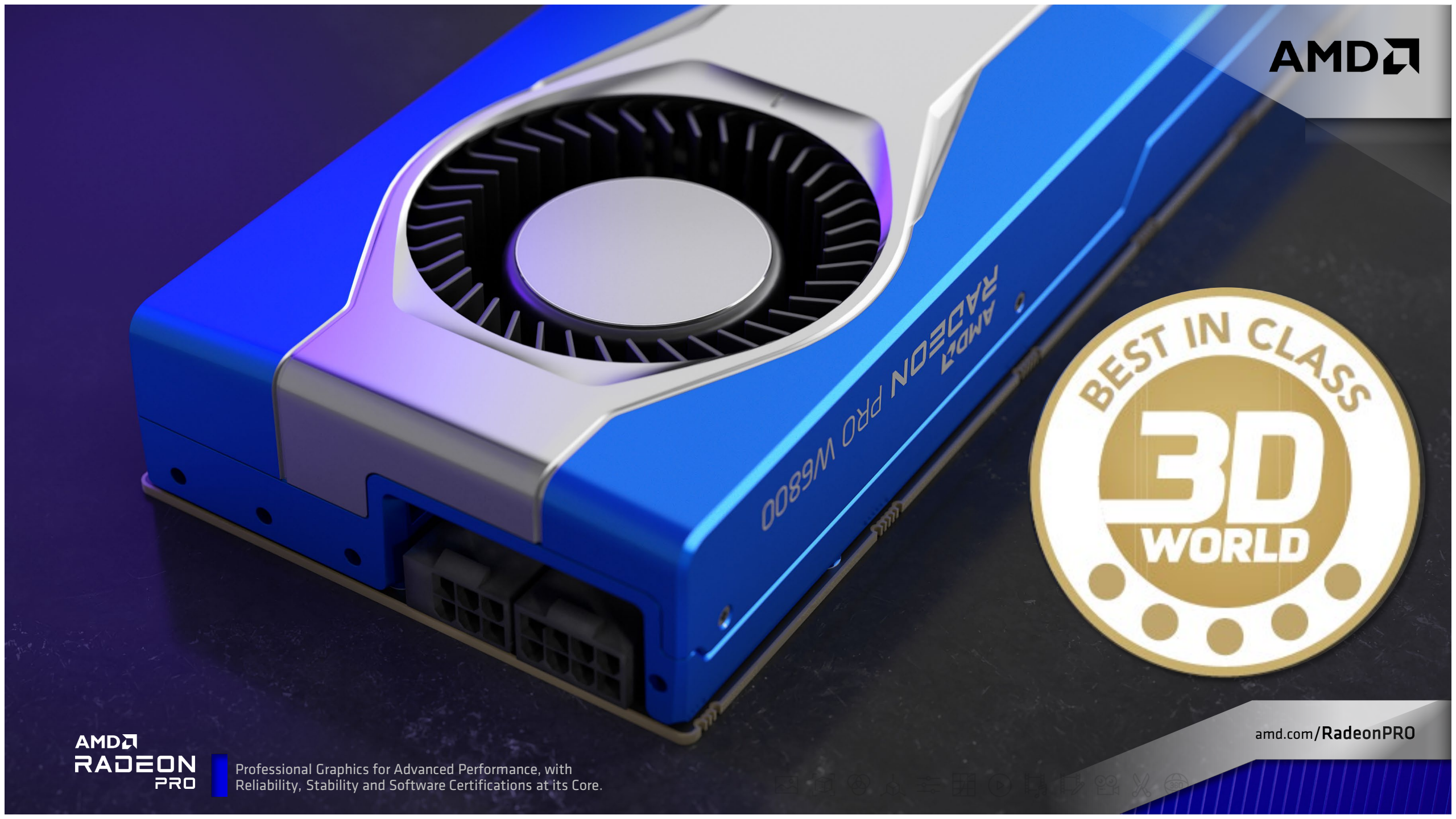
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BEST IN CLASS
3D WORLD
AMD RADEON PRO W6800
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AMD
RADEON
PRO W6600

AECMAGAZINE

“

AT $649, THE AMD RADEON PRO W6600 REPRESENTS EXCELLENT VALUE FOR A CERTIFIED PRO GPU FOR CAD AND BIM SOFTWARE THAT CAN ALSO HANDLE DESIGN VIZ AND VR WORKFLOWS.

GREG CORKE, EDITOR, AEC MAGAZINE.

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AMD

> “...they have blown us away, and we are switching out all our NVIDIA cards for AMD Radeon PRO cards for our CAD, Revit and BIM technicians.”

CHRISTIANS
SURVEY & INSPECTION SOLUTIONS

Chris Jackson, Managing Director,
Infrastructure & Inspection Solutions.

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RDNA 2

"NAVI 2X" AMD RADEON™ PRO GPUs

NEXT-GEN GPU PERFORMANCE

PCIe® 4.0 for up to 50% improvement in performance per watt

Top-to-Bottom GPU Stack from GPU Rendering to 8K M&E Compositing & Editing to Mainstream CAD/AEC

Dedicated Ray Accelerators for Hardware-Based Ray Tracing

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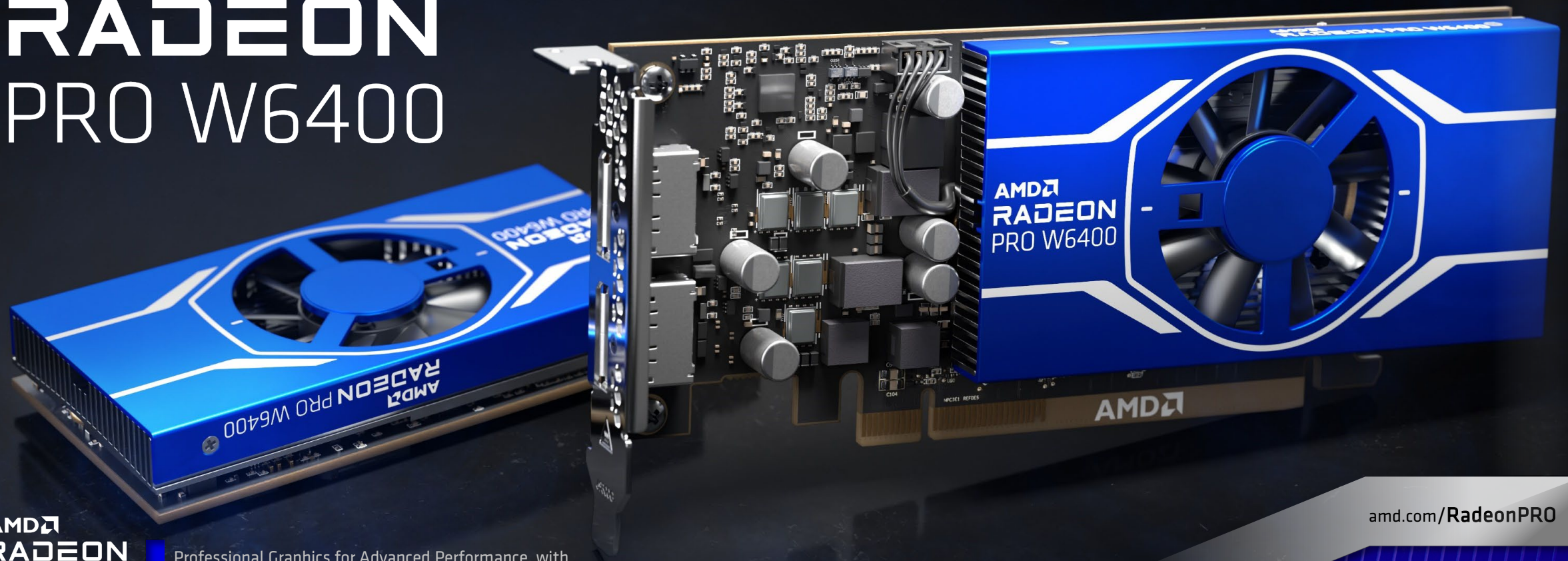
WELCOME TO

AMD RADEON PRO W6400



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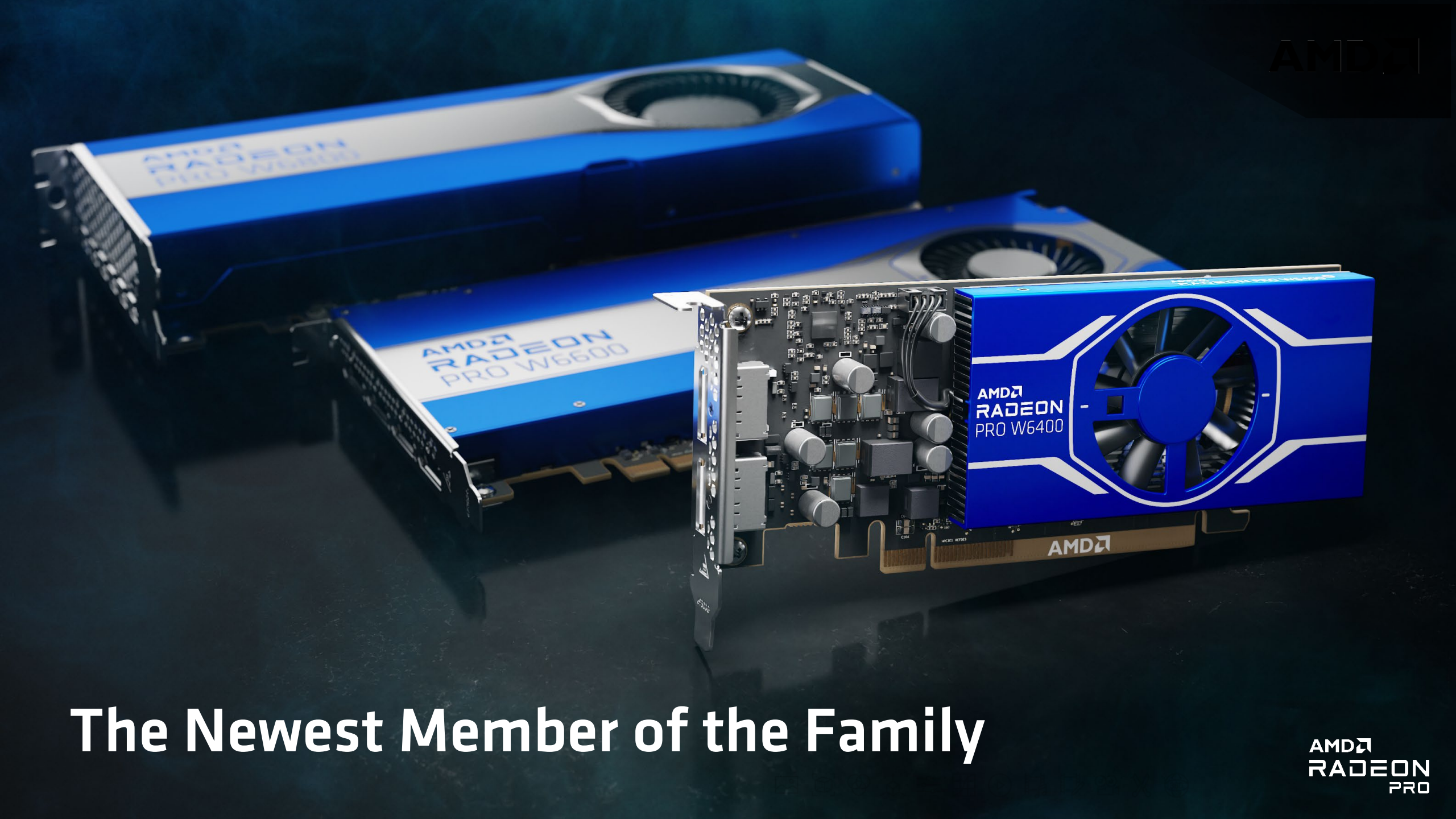

The Newest Member of the Family

AMD RADEON PRO

WELCOME TO

Affordability.
Without.
Sacrifice.

$2249 USD SEP

Heavy to Extreme Workloads

$649 USD SEP

Medium to Heavy Workloads

$229 USD SEP

Light to Medium Workloads

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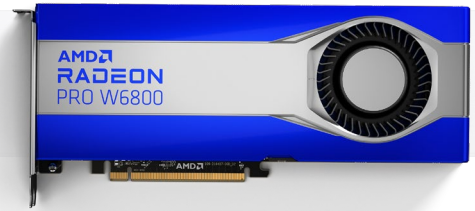
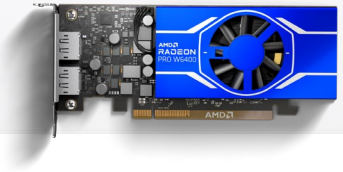
MEET THE FAMILY OF OVERACHIEVERS

AMD Radeon™ PRO W6000 Graphics Series.



AMD Radeon™ PRO W6800 GPU	$2249 SEP	32GB (ECC)	17.83	6x Mini-DisplayPort™	UP TO 250W
	USD PRICING	GDDR6 DEDICATED MEMORY	PEAK PERFORMANCE (FP32) TFLOPS	DISPLAY OUTPUTS	PEAK POWER CONSUMPTION

AMD Radeon™ PRO W6600 GPU	$649 SEP	8GB	10.40	4x DisplayPort™	UP TO 130W
	USD PRICING	GDDR6 DEDICATED MEMORY	PEAK PERFORMANCE (FP32) TFLOPS	DISPLAY OUTPUTS	PEAK POWER CONSUMPTION



AMD Radeon™ PRO W6400 GPU	$229 SEP	4GB	3.54	2x DisplayPort™	UP TO 50W

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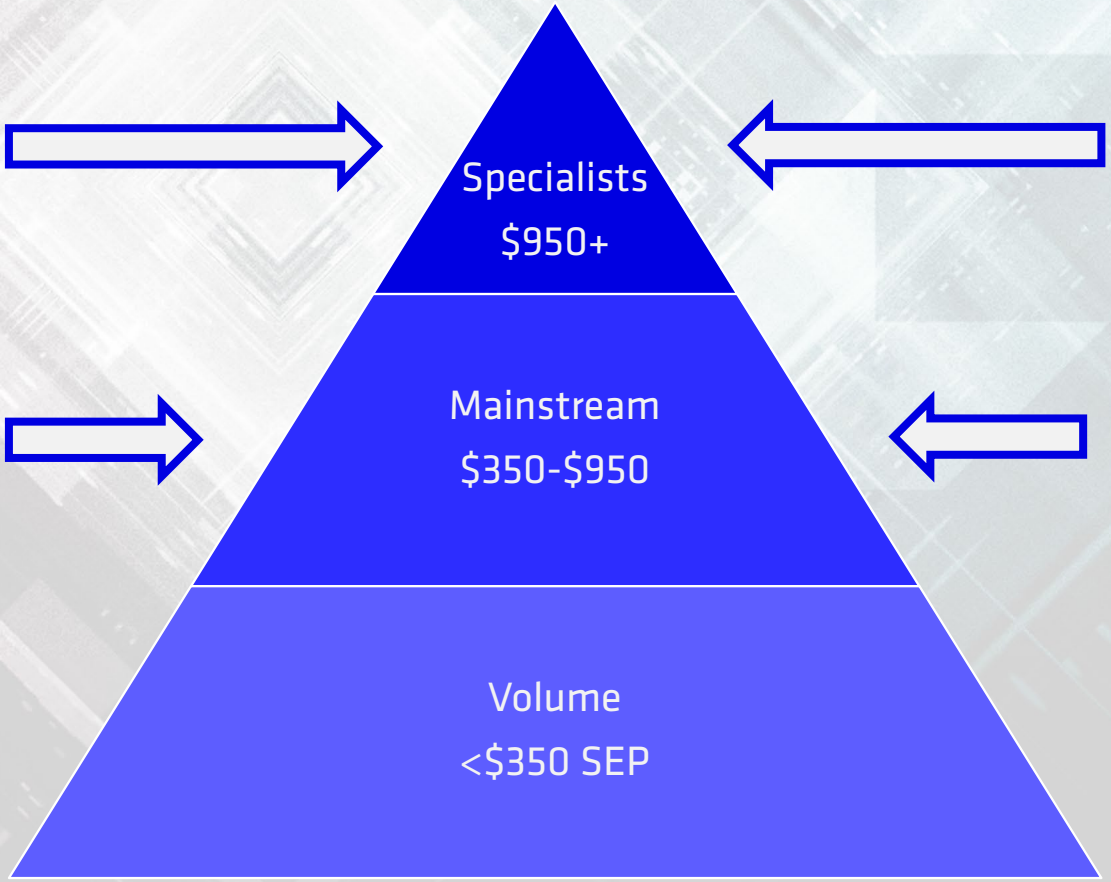
Radeon™ PRO GPU Stack Coverage

Workload Mapping

Radeon PRO W6800 - 32GB

Radeon PRO W6600 - 8GB

Radeon PRO W6400 - 4GB



Heavy/Extreme

Unreal Engine, Lumion, Autodesk Maya & 3ds Max, Unity, SW Visualize, EDEM, Catia, ANSYS, Siemens NX....

Medium/Heavy

Autodesk Inventor, SOLIDWORKS, Siemens NX, Foundry Nuke, Adobe Creative Cloud, Blender....

Light/Medium

Microsoft Office 365, Autodesk AutoCAD, Revit, Trimble SketchUp, Bentley MicroStation...

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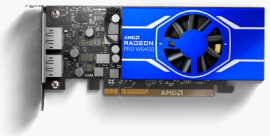
TYPICAL DESKTOP GPU WORKLOADS

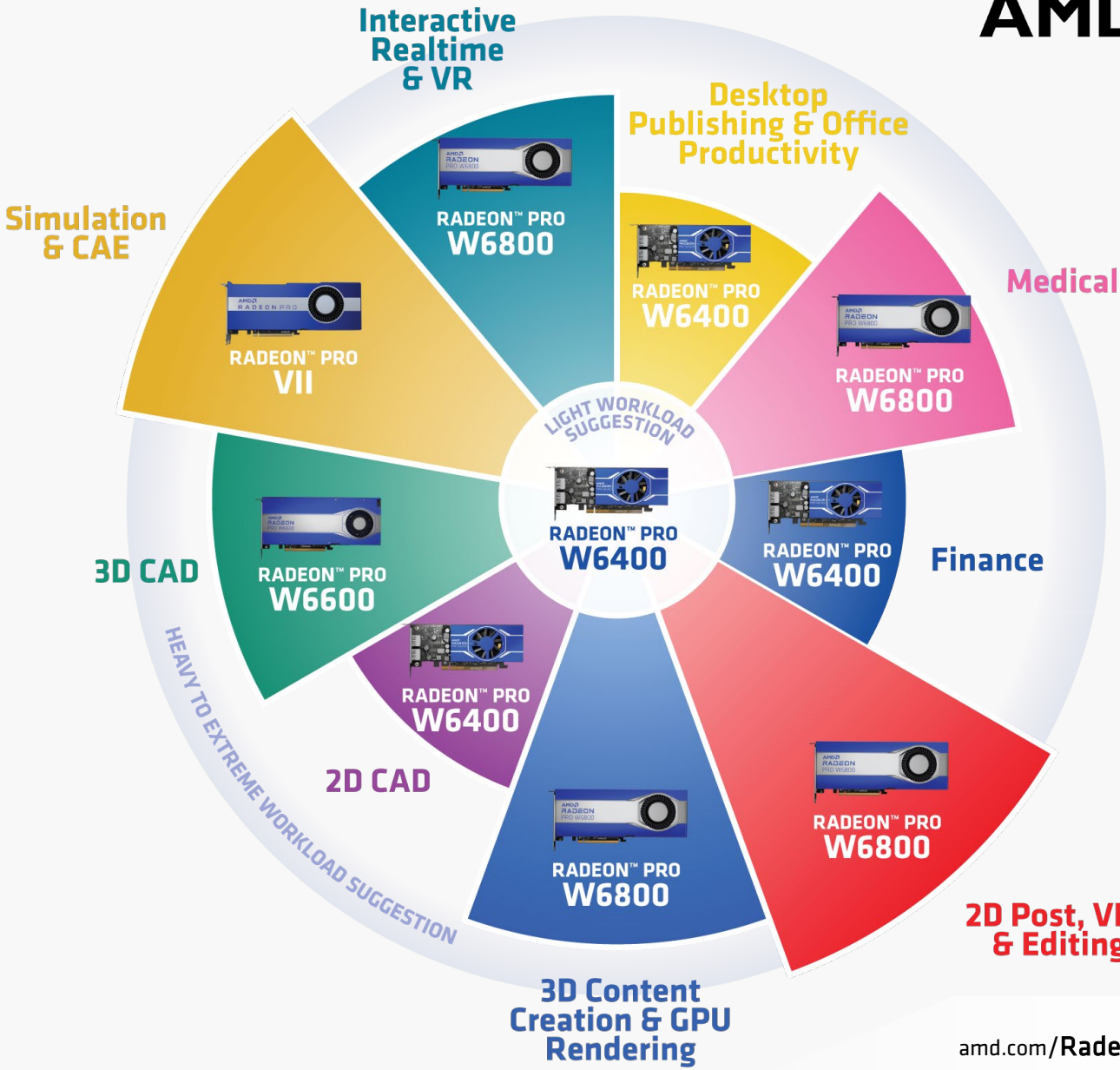
Segment Suggestions.

HEAVY [8K]
GRAPHICS WORKLOADS

MEDIUM [4K]
GRAPHICS WORKLOADS



LIGHT [2K]
GRAPHICS WORKLOADS



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IT PAYS TO KNOW YOUR WORKLOADS

GPU Usage Example.

2K 2K

TYPICAL OFFICE TASKS

EXAMPLE WORKLOAD RATIOS.

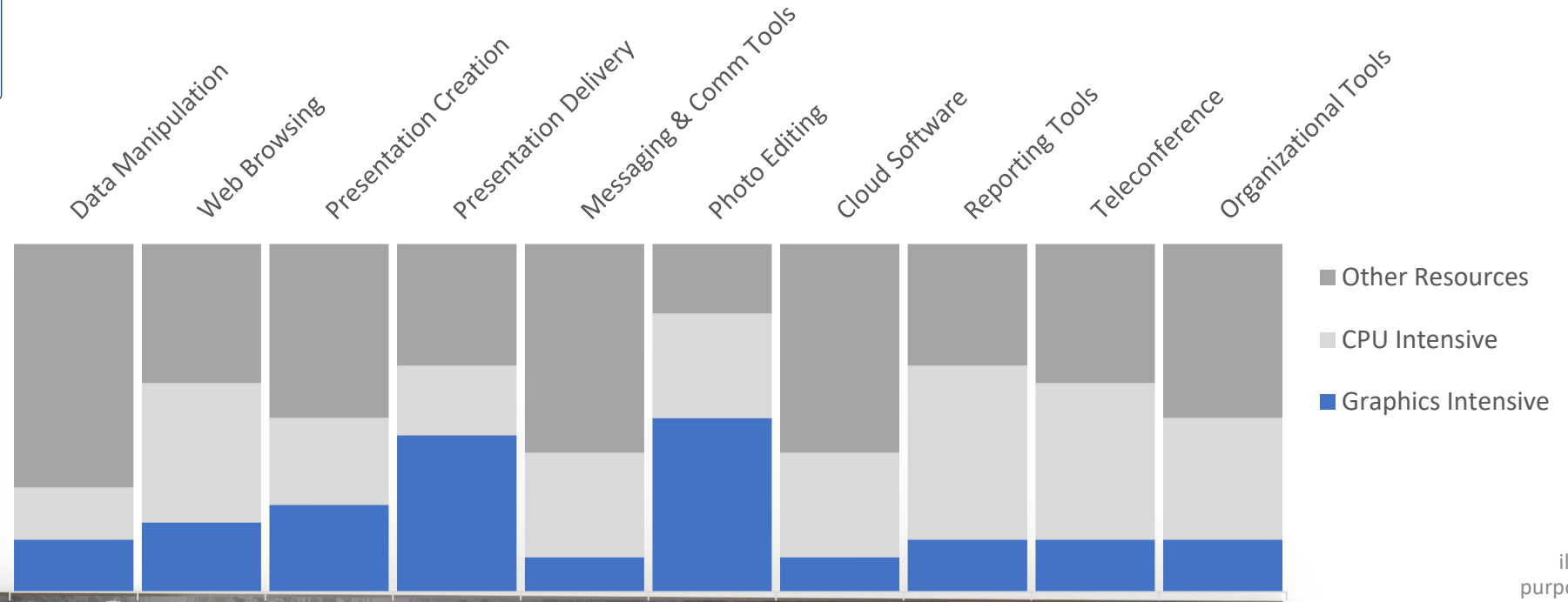
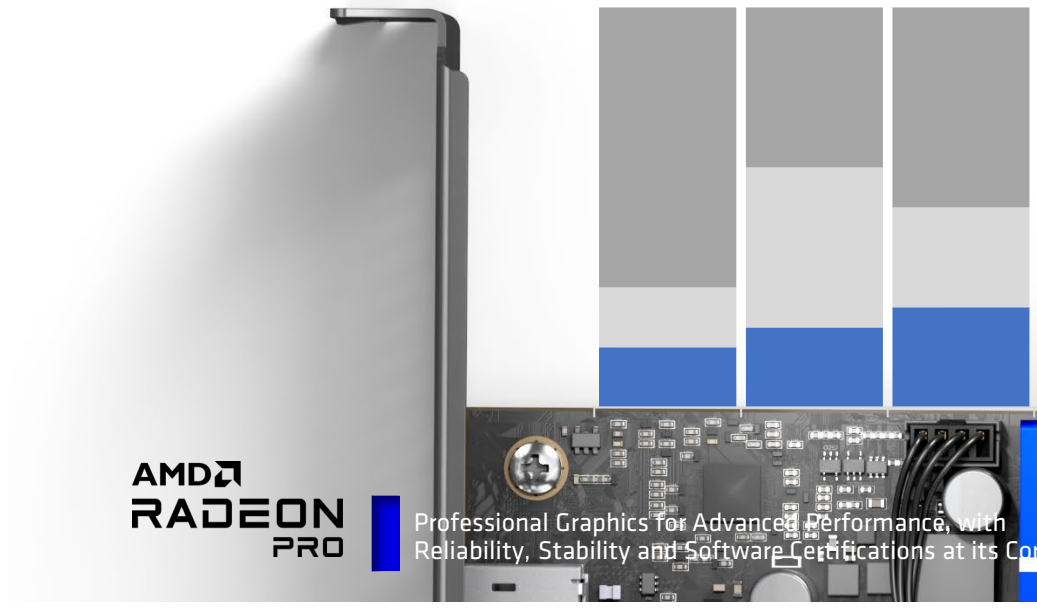


Chart for illustrative purposes only.



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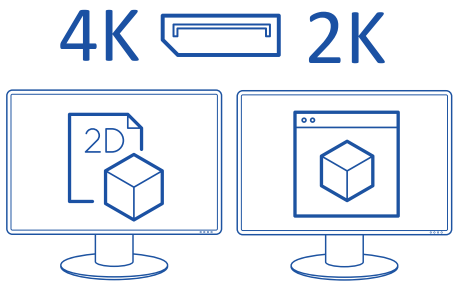
IT PAYS TO KNOW YOUR WORKLOADS

GPU Usage Example.



TYPICAL CAD TASKS

EXAMPLE WORKLOAD RATIOS.

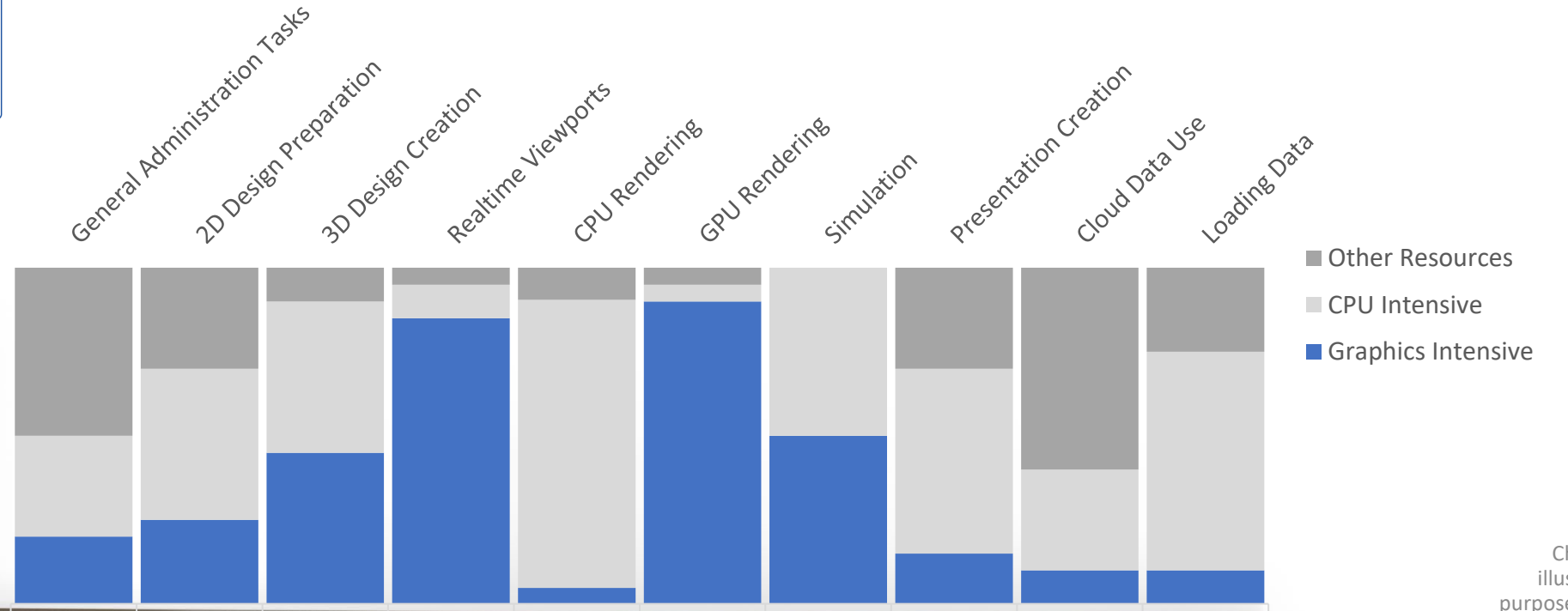


Chart for illustrative purposes only.

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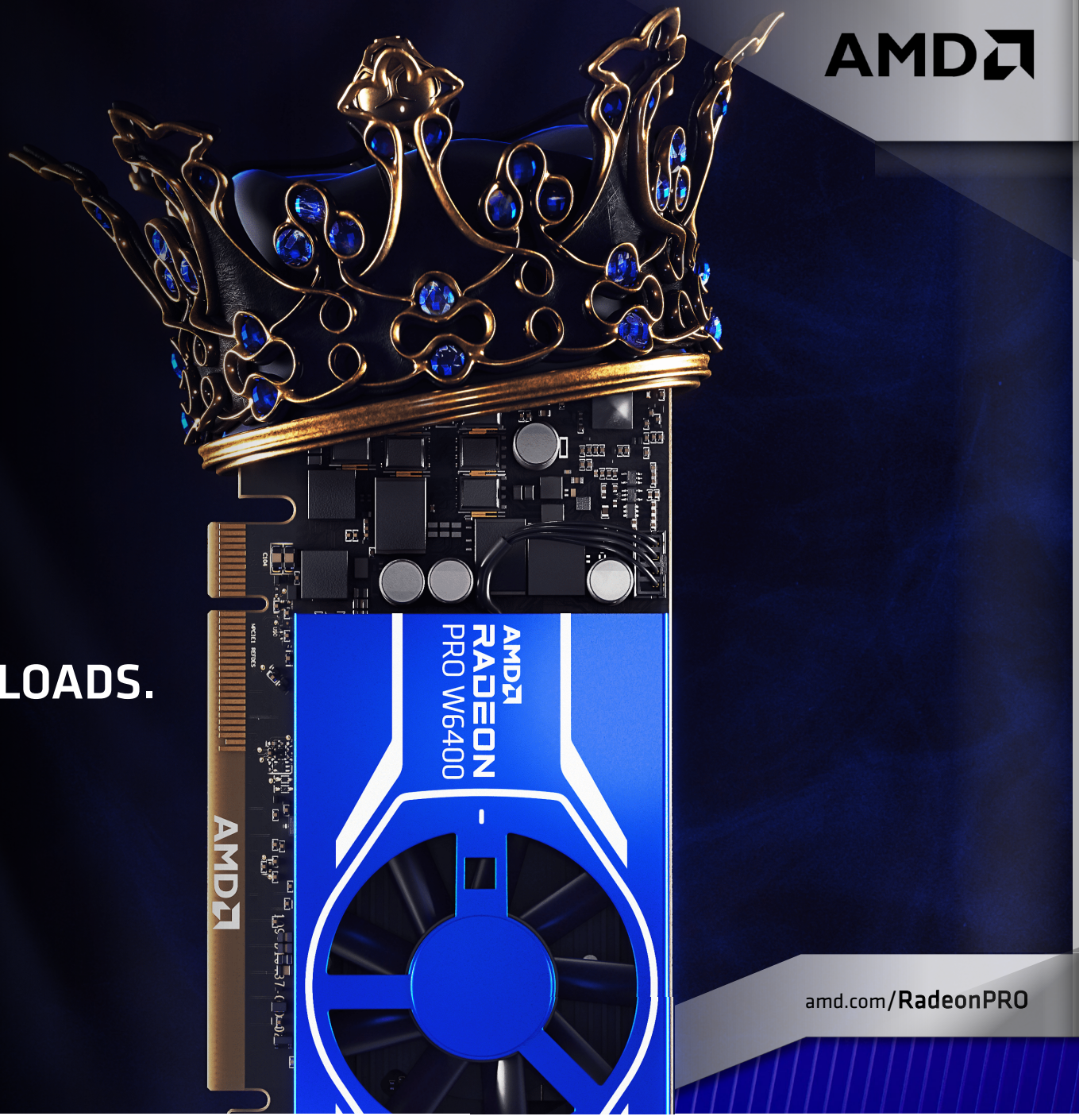
AMD RADEON PRO W6400

BUILT TO BE A KING

OF MODERN MAINSTREAM GPU WORKLOADS.



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YOUR NEW BFF. IN A SFF.

Carefully Condensed.

6.6” (168mm) BOARD LENGTH.

2.7” (69mm)

HALF HEIGHT,

SINGLE SLOT.

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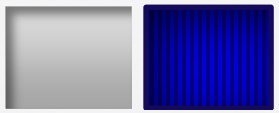
UPGRADED. AND ALWAYS BY YOUR SIDE

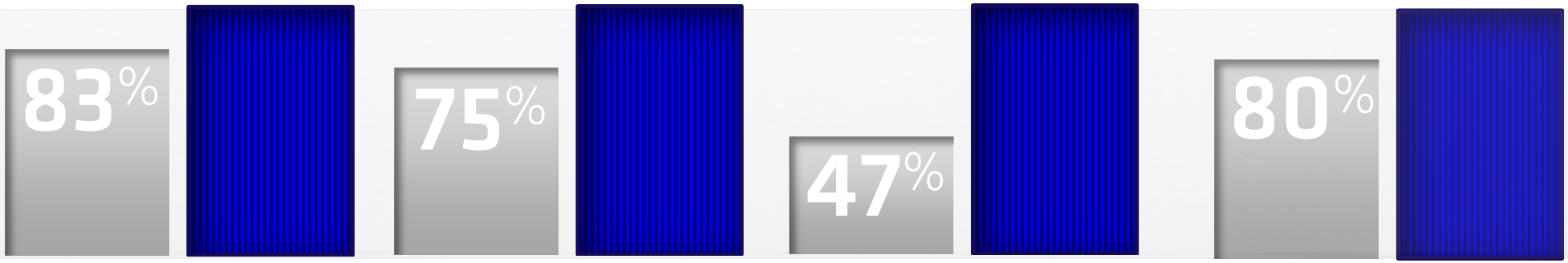
Generational Strides.

	DATE LAUNCHED	USD LAUNCH PRICING	PCIe® GENERATION	DEDICATED MEMORY	PEAK POWER CONSUMPTION	FinFET
AMD Radeon™ PRO W6400 GPU	21Q1	$229 SEP	4.0	4GB GDDR6	UP TO 50W	6nm
AMD Radeon™ PRO WX 3200 GPU	19Q2	$199 SEP	3.0	EQUAL PRIOR GENERATION	EQUAL	14nm



Radeon™ PRO WX 3200 GPU

Radeon™ PRO W6400 GPU



STREAM PROCESSORS

PEAK GB/s BANDWIDTH

PEAK TERAFLOPS PERFORMANCE (FP32)

COMPUTE UNITS

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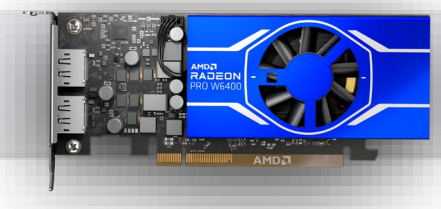
CONTINUING TO OFFER AFFORDABLE PERFORMANCE

AMD vs COMPETITION.



	USD PRICING	GDDR6 DEDICATED MEMORY	PEAK TERAFLOPS PERFORMANCE (FP32)	DISPLAY OUTPUTS	PEAK POWER CONSUMPTION
AMD Radeon™ PRO W6400 GPU	$229 SEP	4GB	3.54	2x Full size Display Port™	UP TO 50W

	USD PRICING	GDDR6 DEDICATED MEMORY	PEAK TERAFLOPS PERFORMANCE (FP32)	DISPLAY OUTPUTS	PEAK POWER CONSUMPTION
NVIDIA T1000	$499 STREET PRICE	4GB	2.50	4x Mini-Display Port™	UP TO 50W

T600 + T1000 Street Pricing is bhphotovideo.com, as of 09 December 2021

Source of Nvidia Specifications is pnypartners.com, as of 09 December 2021.

	USD PRICING	GDDR6 DEDICATED MEMORY	PEAK TERAFLOPS PERFORMANCE (FP32)	DISPLAY OUTPUTS	PEAK POWER CONSUMPTION
NVIDIA T600	$249 STREET PRICE	4GB	1.70	4x Mini-Display Port™	UP TO 40W

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2x FHD DISPLAYS ARE TYPICALLY DESIRED

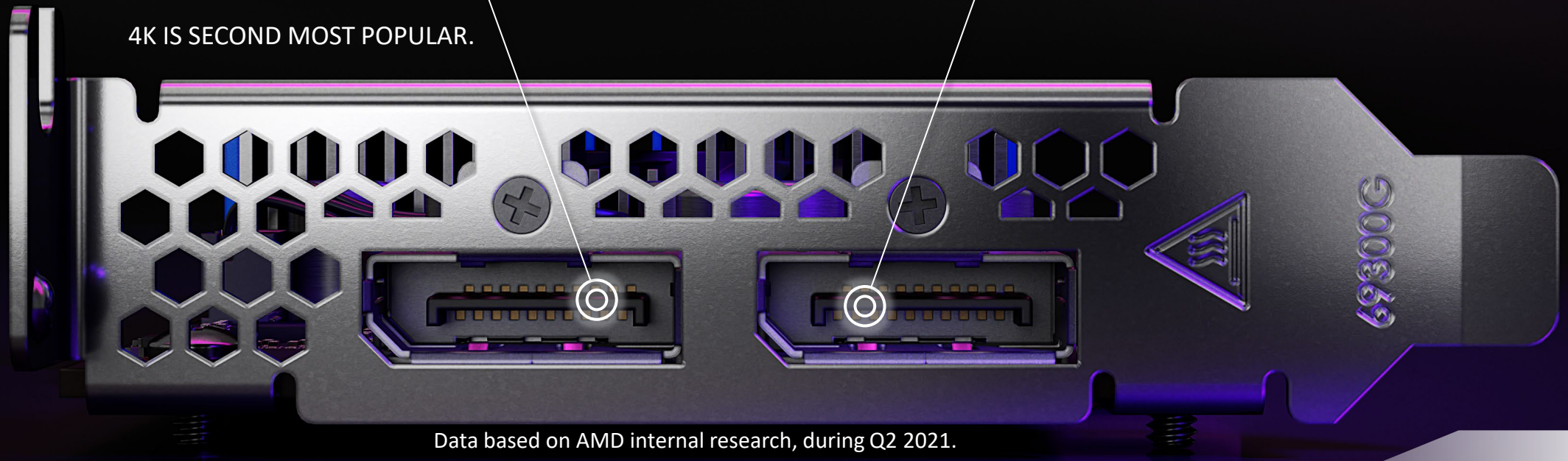
Dual 5K, Single 8K Monitor Ready.

1080p Most Popular PRO 2x Display Setup

4K IS SECOND MOST POPULAR.

Over 1/3 of PRO Users Have 2 Displays

HALF OF PRO USERS HAVE 1 DISPLAY.



Data based on AMD internal research, during Q2 2021.

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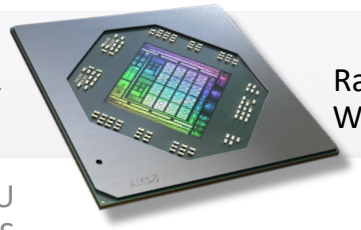
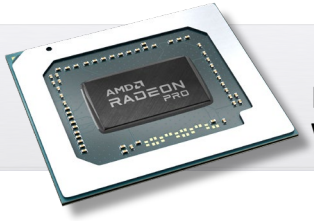
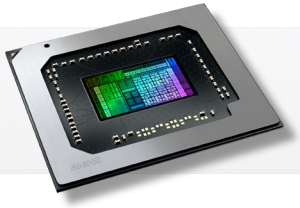
MOBILITY. DEPENDABLE PERFORMANCE.

AMD Radeon™ PRO W6000M Mobile Series.

		TYPICAL GPU WORKLOADS	RAs & CUs	STREAM PROCESSORS	GDDR6 DEDICATED MEMORY	PEAK TFLOPS PERFORMANCE (FP32)	PEAK BANDWIDTH	PEAK POWER CONSUMPTION
HEAVY	 AMD Radeon™ PRO W6600M GPU		28	1792	8GB	10.40	224GB/S	UP TO 90W
MEDIUM	 AMD Radeon™ PRO W6500M GPU		16	1024	4GB	5.30	128GB/S	UP TO 50W
LIGHT	 AMD Radeon™ PRO W6300M GPU		12	768	2GB	3.37	64GB/S	UP TO 35W

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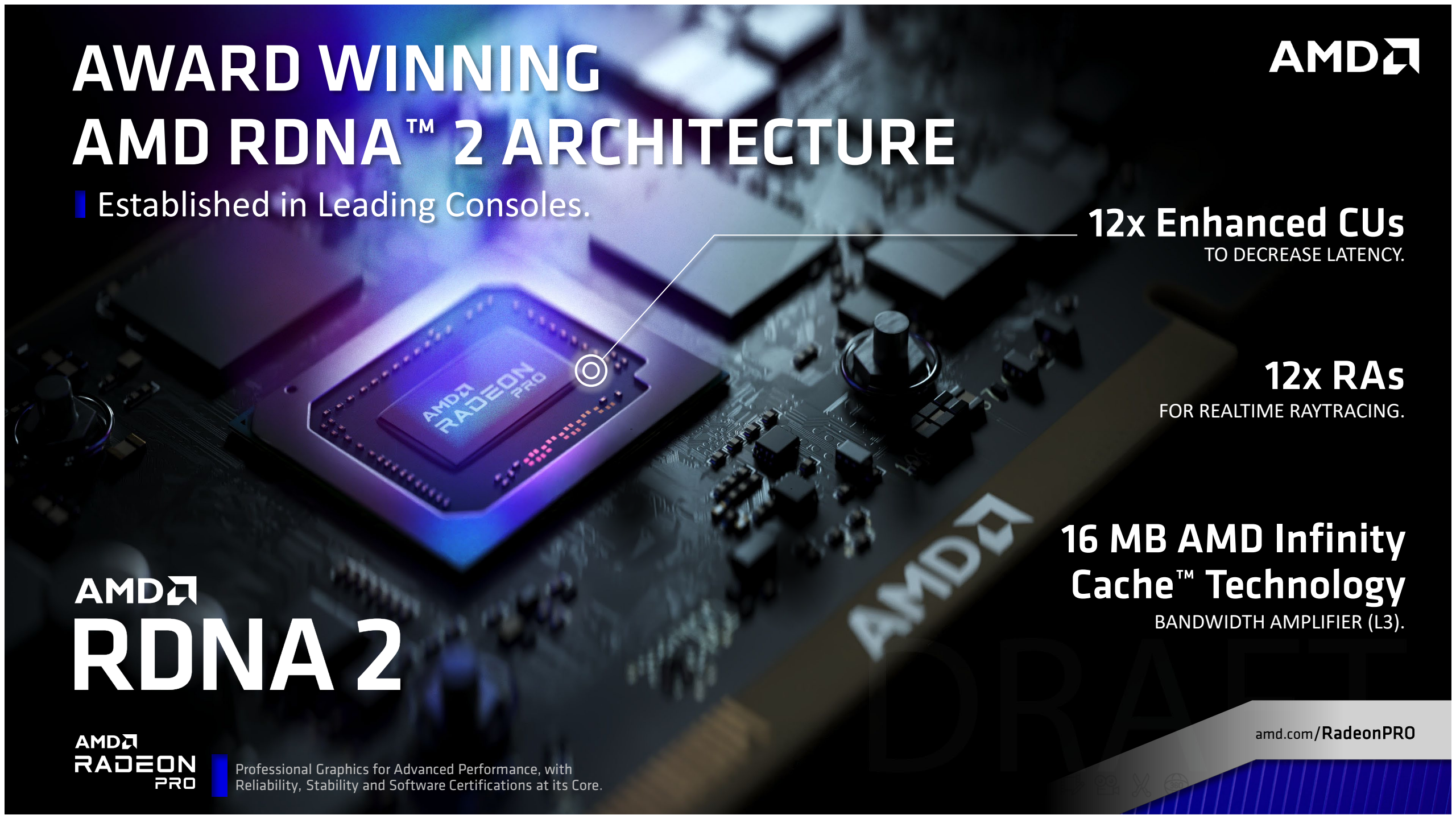
AWARD WINNING
AMD RDNA™ 2 ARCHITECTURE
Established in Leading Consoles.
12x Enhanced CUs
TO DECREASE LATENCY.
12x RAs
FOR REALTIME RAYTRACING.
16 MB AMD Infinity Cache™ Technology
BANDWIDTH AMPLIFIER (L3).
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RDNA 2
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AMD INFINITY CACHE™ TECHNOLOGY

Bandwidth Amplifier.

128MB

256-BIT MEMORY INTERFACE.

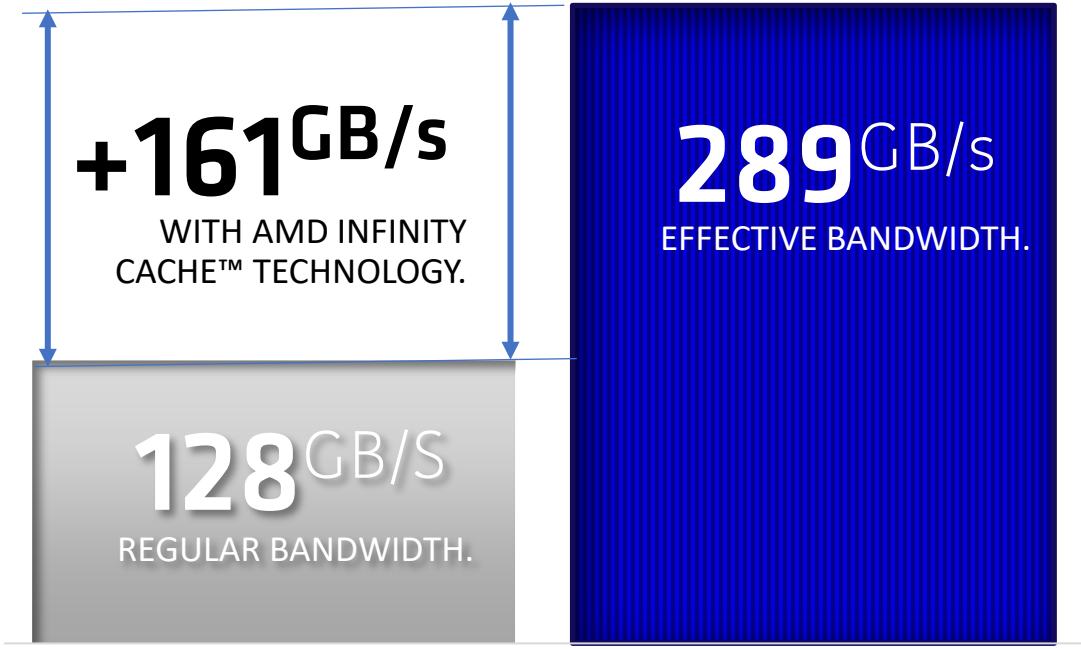
32MB

128-BIT MEMORY INTERFACE.

16MB

64-BIT MEMORY INTERFACE.

L3 Cache



Peak GB/s Memory Bandwidth

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HARDWARE RAYTRACING.
As Standard.

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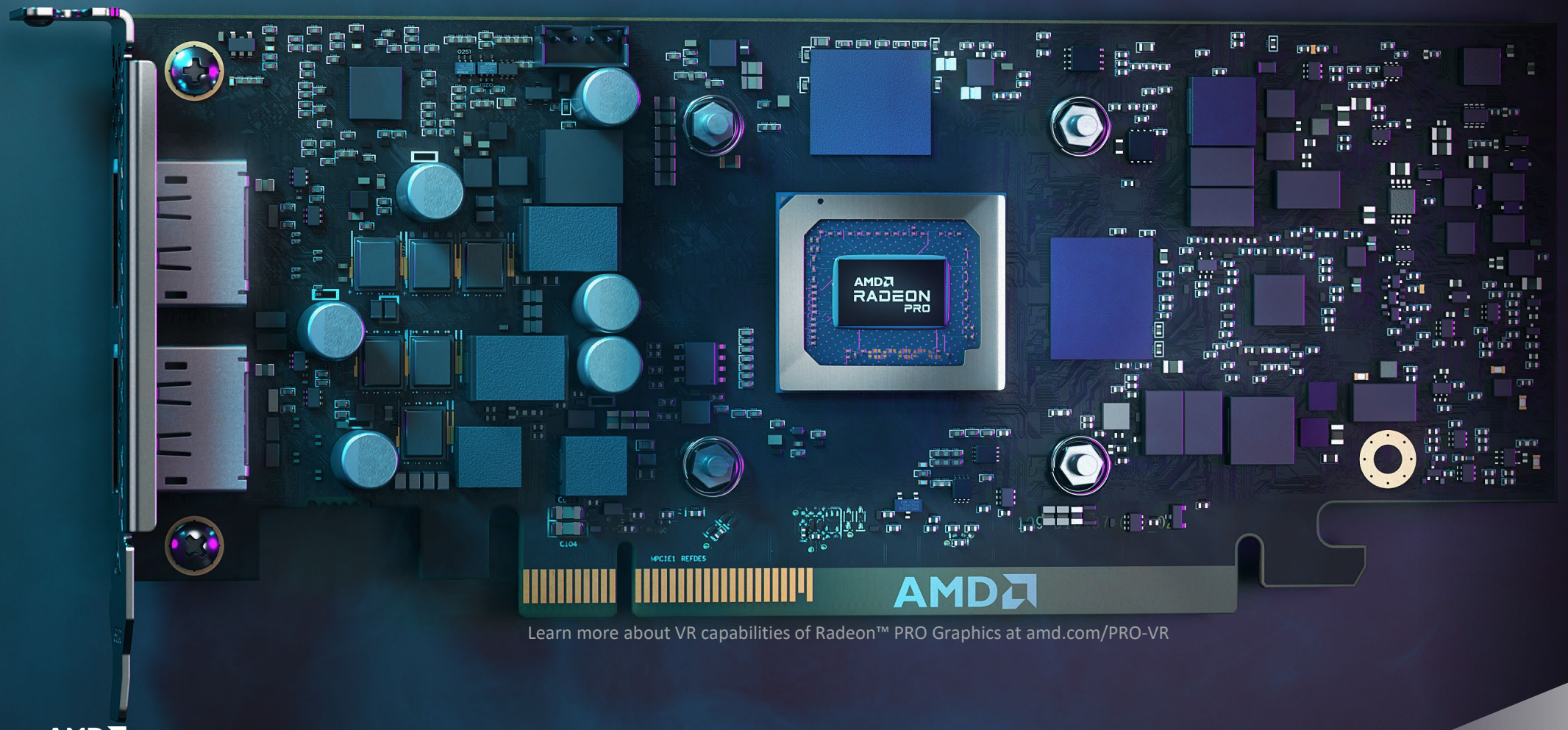

DirectX 12 ULTIMATE

Vulkan

Learn more about VR capabilities of Radeon™ PRO Graphics at amd.com/PRO-VR

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AMD RADEON™ PRO W6400 LAUNCH DAY SUPPORT FOR

Windows 11

3 YR LIMITED WARRANTY

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HORDE OF ISV CERTIFICATIONS
For Popular Applications.
Stability,
Reliability, Dependability
INDUSTRY LEADING, RIGOROUS TESTING PROGRAM.
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WE NEED YOUR HELP

Download the Latest PRO Drivers.

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2/5 of PRO Users are Using Outdated Drivers.

PRE-2021 ENTERPRISE DRIVER RELEASES.

Missing Out on Critical Functionality: AMD Crash Defender.

GOAL OF IMPROVING STABILITY, PRESERVING DATA, & RECOVERING POTENTIAL HANGS. HELPING TO PROTECT YOU.

Data based off extensive AMD internal research, during Q4 2021.

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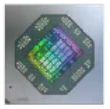
MOVE TO THE NEXT LEVEL

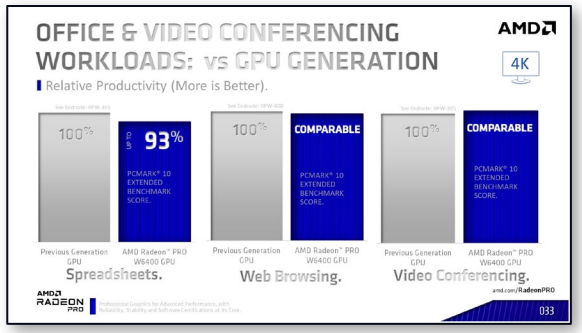
The latest generation of Radeon PRO GPUs offer advanced feature support. The below table is a handy guide for those looking to upgrade existing GPU performance.

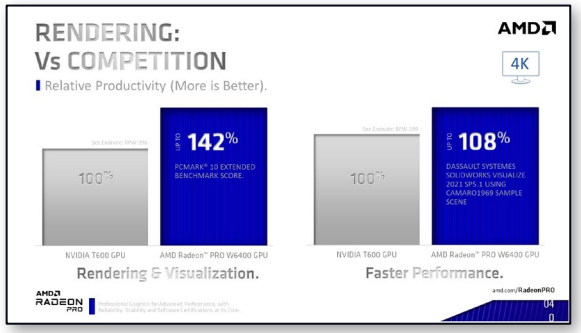
WORKSTATION: Upgrade from	Advance to
AMD Radeon™ PRO WX 8200, WX 9100, FirePro™ W9100	 Radeon™ PRO W6800
NVIDIA Quadro P5000, P6000, RTX 5000, RTX 6000, A5000, A6000	
AMD Radeon™ PRO WX 5100, WX 7100, W5700, W5500, FirePro™ W7100, W8100	 Radeon™ PRO W6600
NVIDIA Quadro P2200, P4000, RTX 4000, A2000, A4000	
AMD Radeon™ PRO WX 2100, 3100, 3200, 4100, FirePro™ W2100, W4100, W4300, W5100	 Radeon™ PRO W6400
NVIDIA Quadro P400, P620, P1000, T400, T600, T1000	

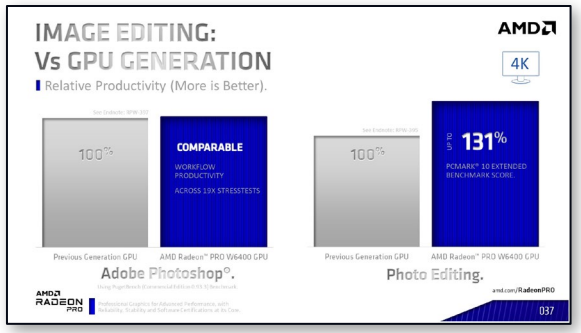
MOBILE: Upgrade from	Advance to
AMD Radeon™ PRO WX 5100, WX 7100, W5500M	 Radeon™ PRO W6600M
NVIDIA Quadro P2200 to P5200, and RTX 3000 to RTX 5000	
AMD Radeon™ PRO WX 3200, 4100	 Radeon™ PRO W6500M
NVIDIA Quadro P1000	
AMD Radeon™ PRO WX 2100, 3100, FirePro™ W4170M, W4190M	 Radeon™ PRO W6300M
NVIDIA Quadro P500, P600	

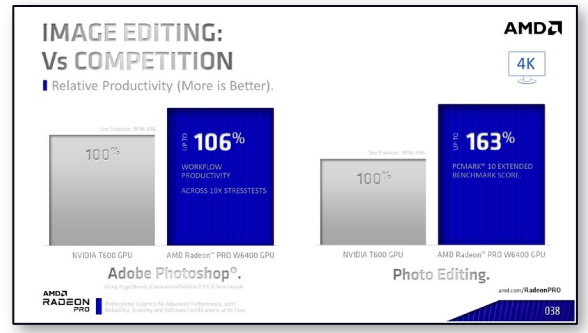
Generational & Competitive Benchmarking on AMD.com

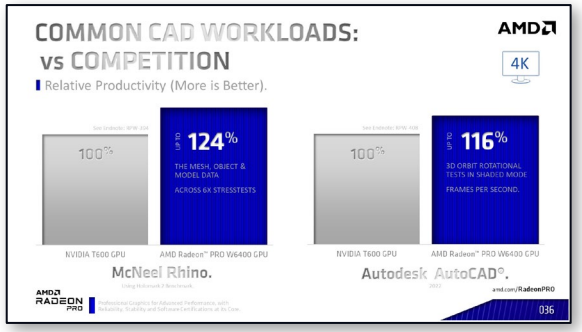
Where the Rubber Meets the Road.

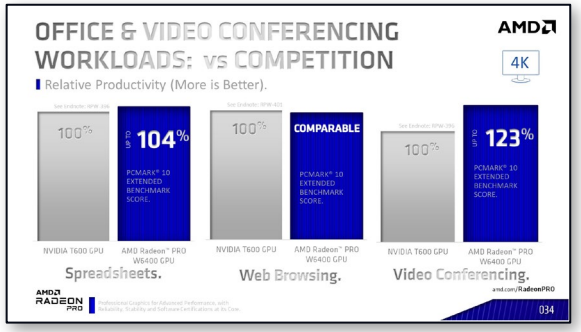


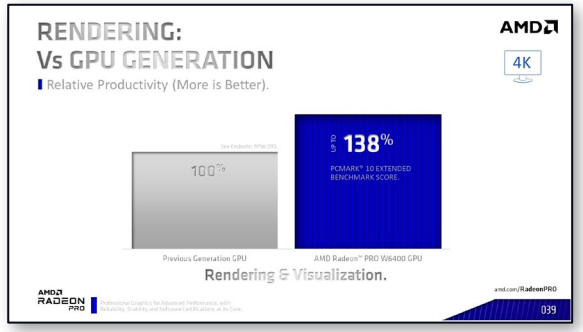


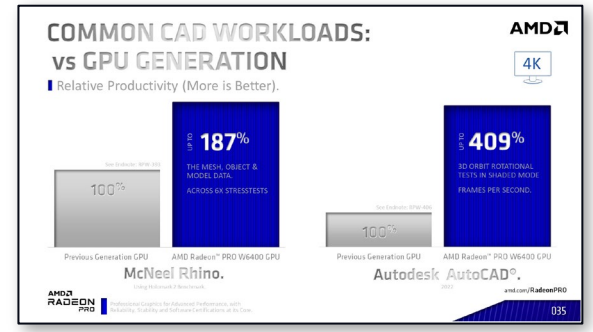












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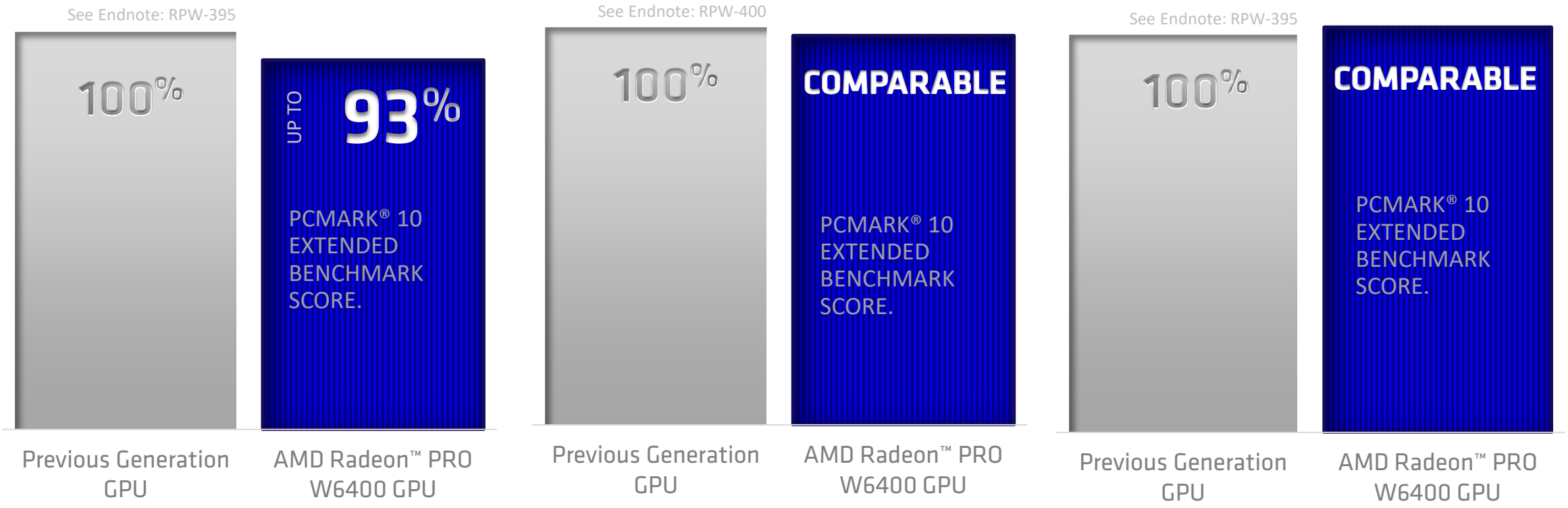
OFFICE & VIDEO CONFERENCING WORKLOADS: vs GPU GENERATION

AMD

4K

Relative Productivity (More is Better).



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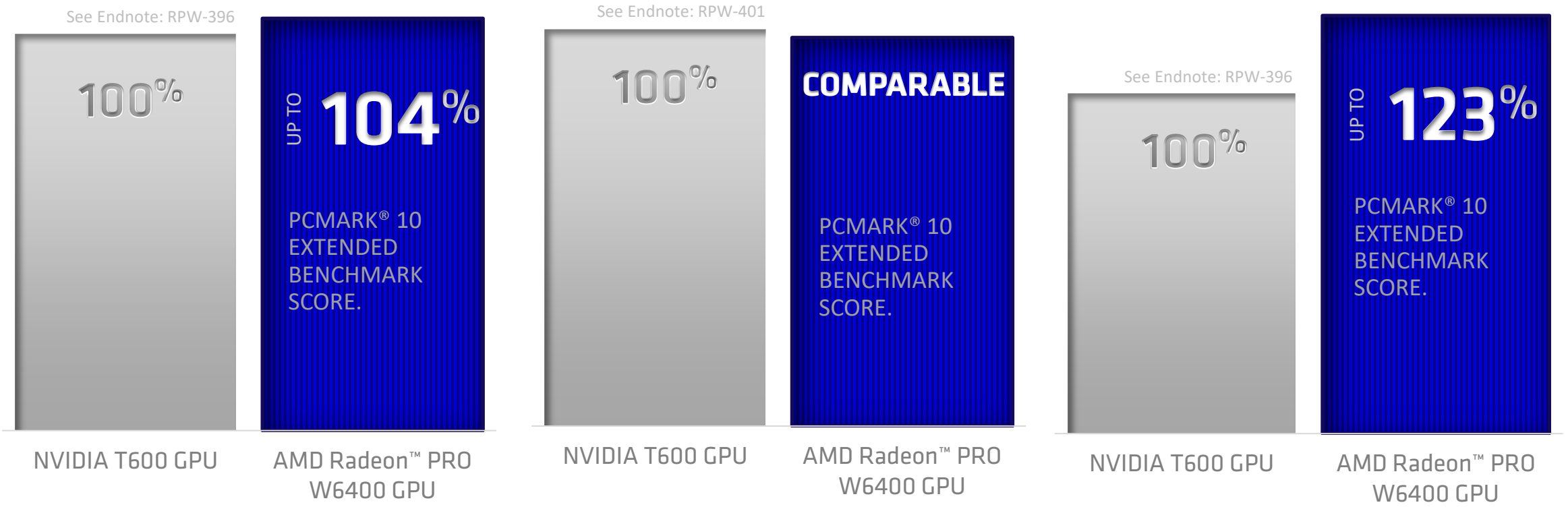
OFFICE & VIDEO CONFERENCING WORKLOADS: vs COMPETITION

AMD

4K

Relative Productivity (More is Better).



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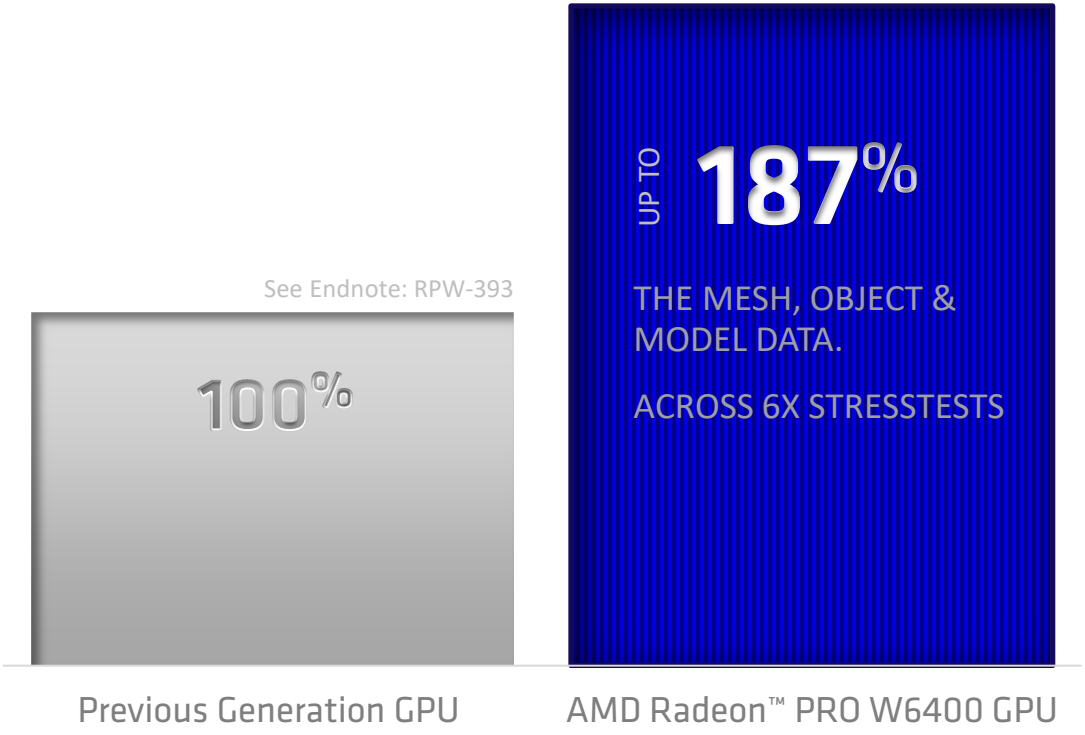
COMMON CAD WORKLOADS: vs GPU GENERATION

AMD

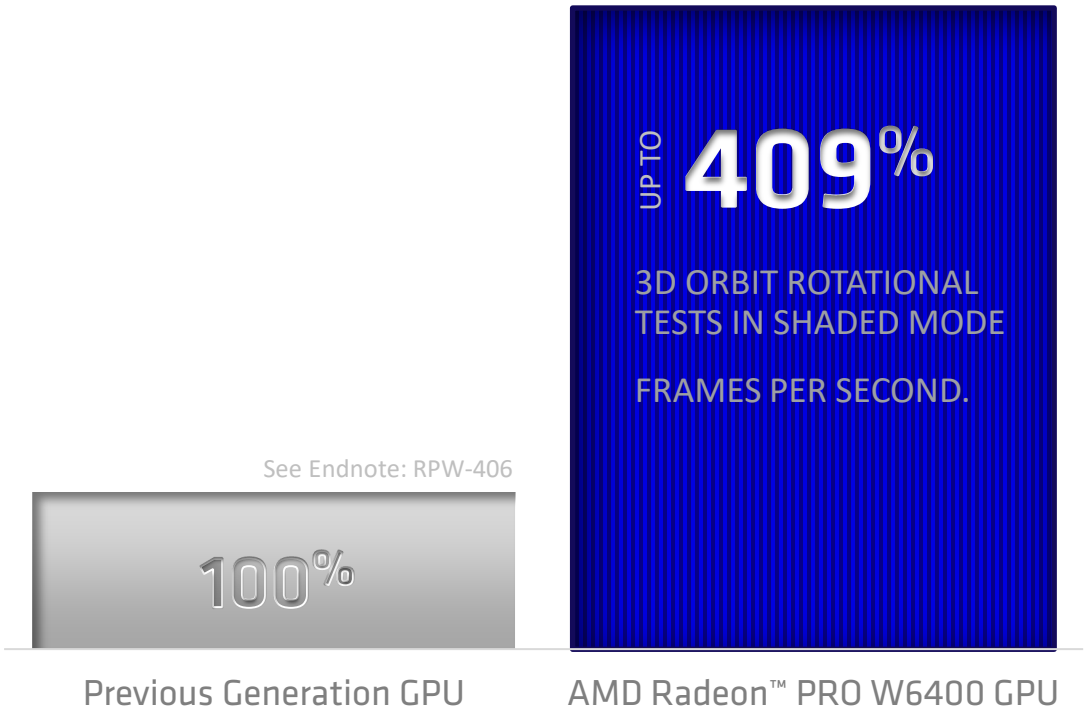
4K

Relative Productivity (More is Better).



McNeel Rhino.

Using Holomark 2 Benchmark.



Autodesk AutoCAD®.

2022

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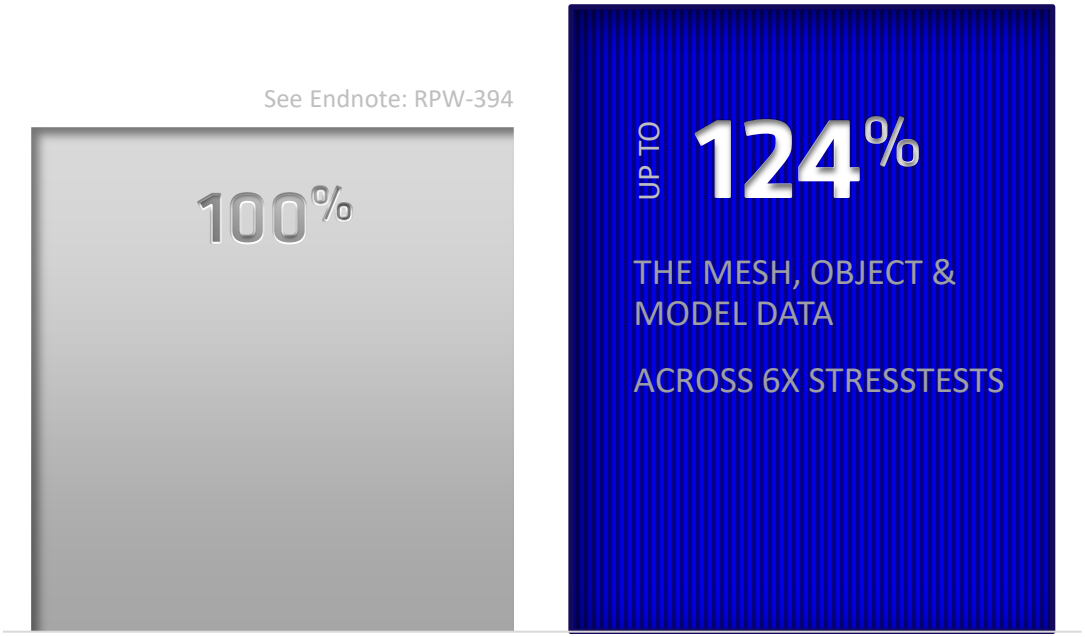
COMMON CAD WORKLOADS: vs COMPETITION

AMD

4K

Relative Productivity (More is Better).

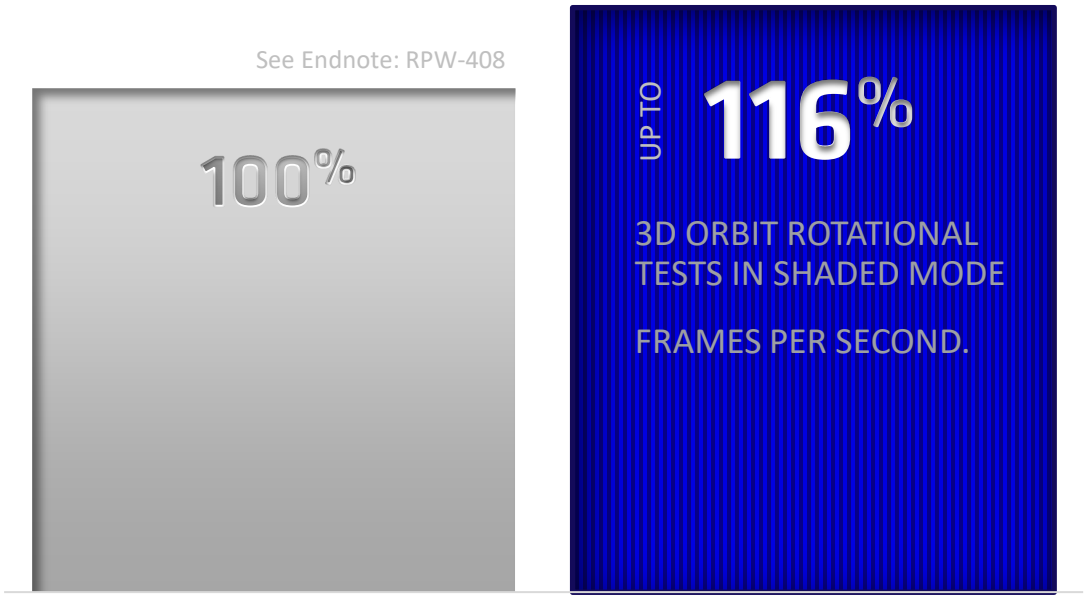
See Endnote: RPW-394



McNeel Rhino.

Using Holomark 2 Benchmark.

See Endnote: RPW-408



Autodesk AutoCAD®.

2022

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IMAGE EDITING: Vs GPU GENERATION

Relative Productivity (More is Better).

4K

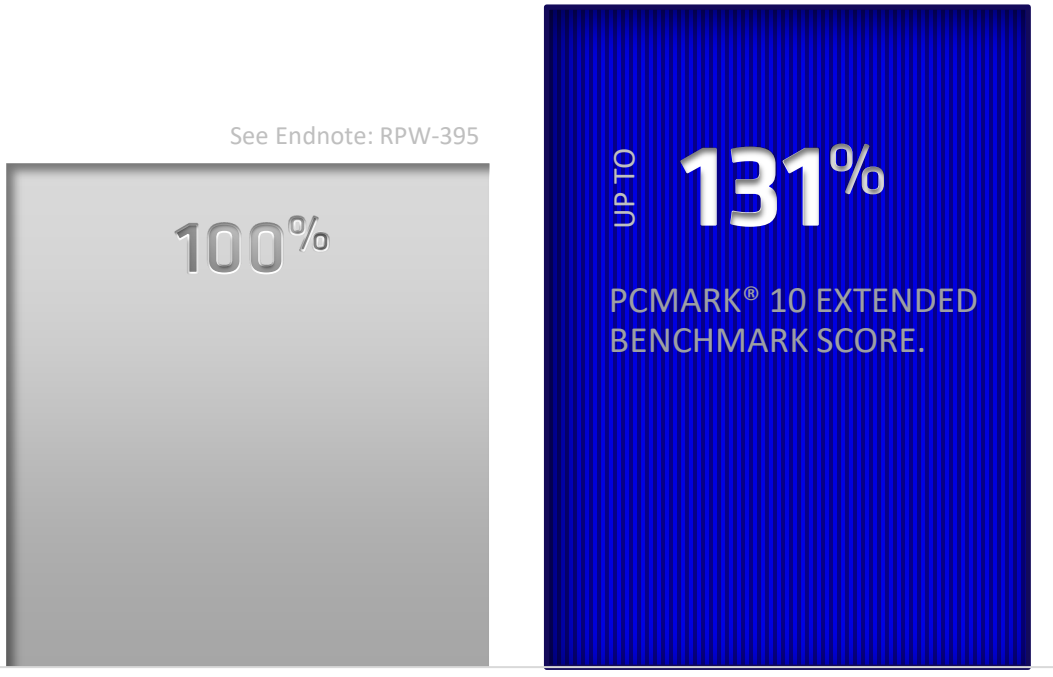
See Endnote: RPW-397

Previous Generation GPU | AMD Radeon™ PRO W6400 GPU

Adobe Photoshop®.

Using PugetBench (Commercial Edition 0.93.3) Benchmark.

See Endnote: RPW-395



Previous Generation GPU | AMD Radeon™ PRO W6400 GPU

Photo Editing.

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IMAGE EDITING: Vs COMPETITION

AMD

4K

Relative Productivity (More is Better).

See Endnote: RPW-398

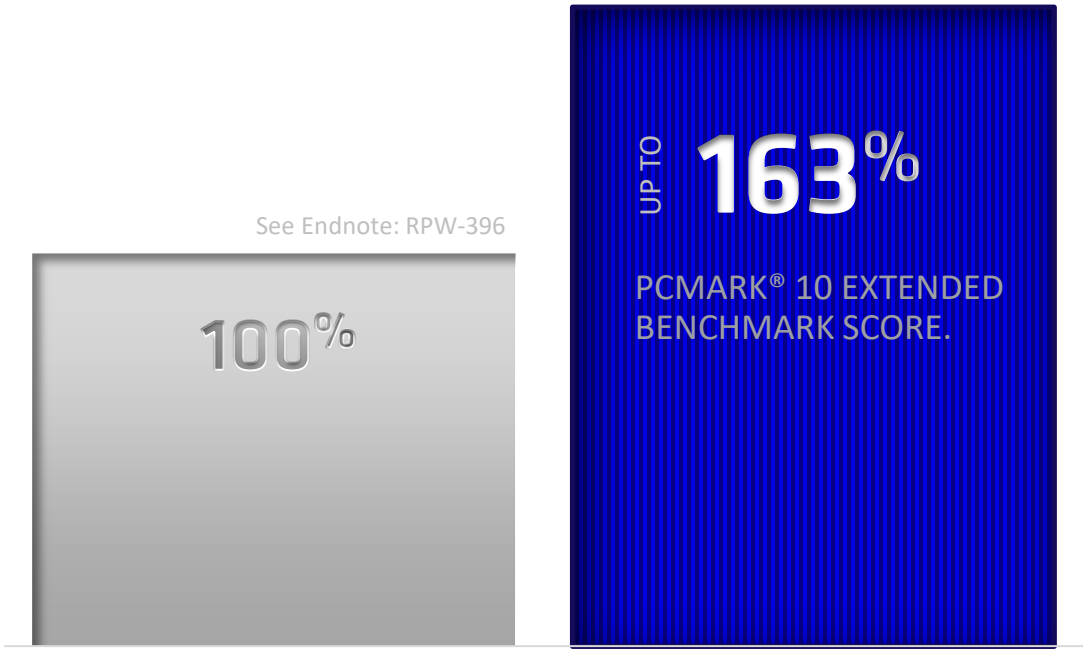
NVIDIA T600 GPU

AMD Radeon™ PRO W6400 GPU

Adobe Photoshop®.

Using PugetBench (Commercial Edition 0.93.3) Benchmark.

See Endnote: RPW-396



NVIDIA T600 GPU

AMD Radeon™ PRO W6400 GPU

Photo Editing.

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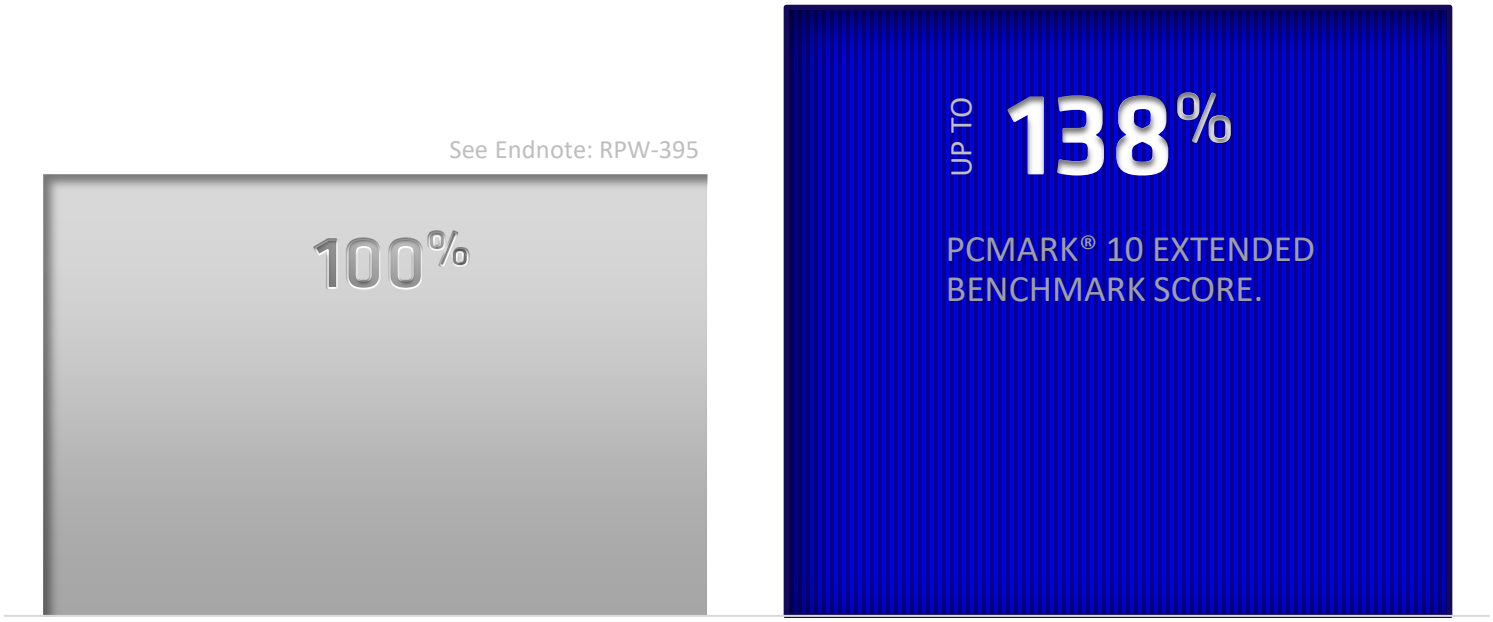
RENDERING:
Vs GPU GENERATION

Relative Productivity (More is Better).

4K

See Endnote: RPW-395



Rendering & Visualization.

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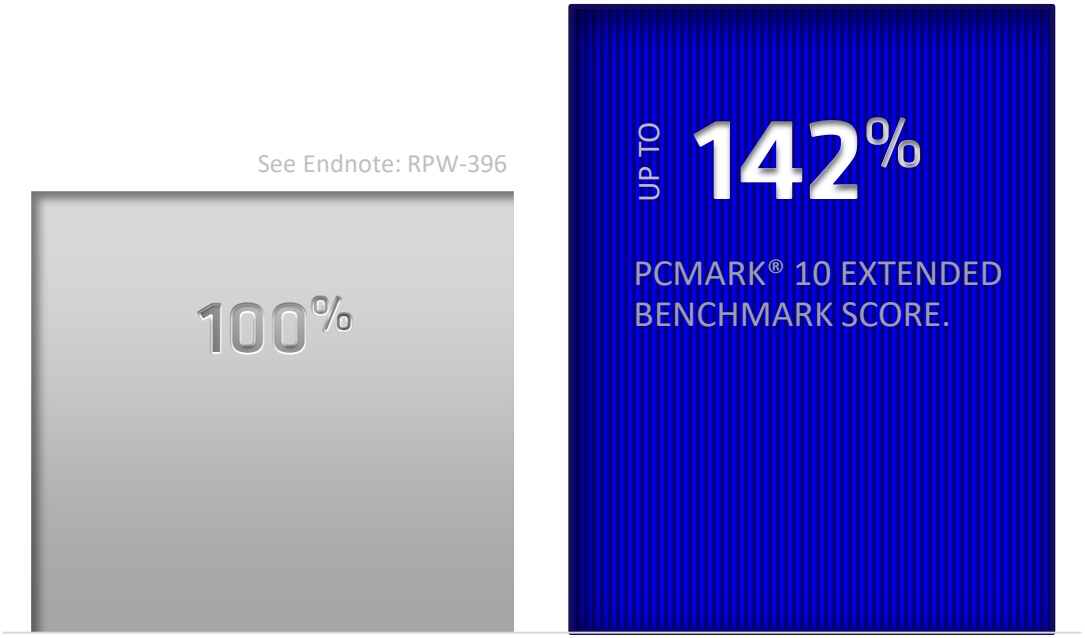
RENDERING:
Vs COMPETITION

AMD

4K

Relative Productivity (More is Better).

See Endnote: RPW-396

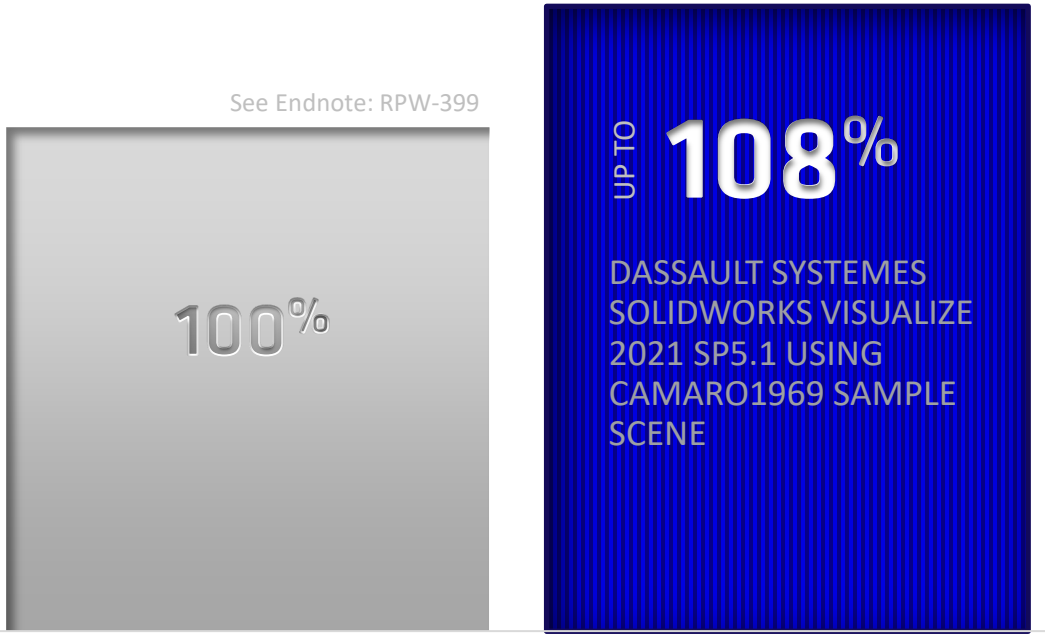


NVIDIA T600 GPU

AMD Radeon™ PRO W6400 GPU

Rendering & Visualization.

See Endnote: RPW-399



NVIDIA T600 GPU

AMD Radeon™ PRO W6400 GPU

Faster Performance.

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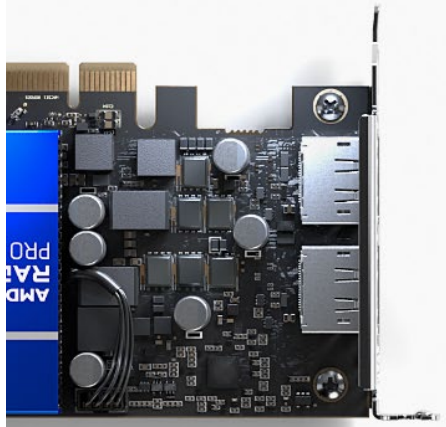
Key Take-Aways:

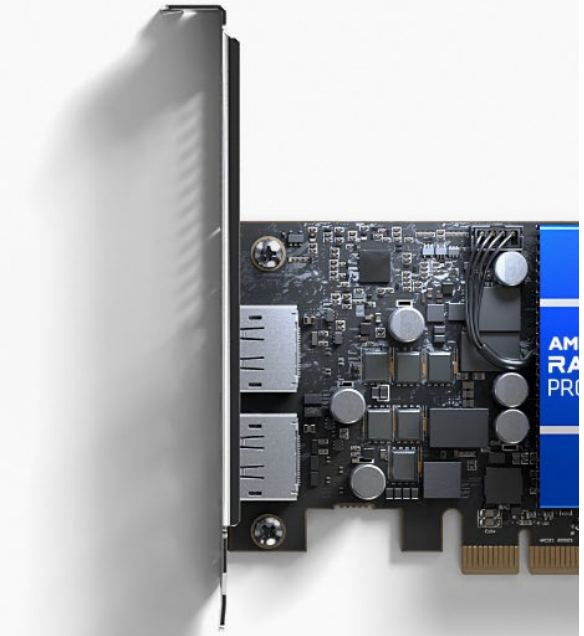
AMD Radeon™ PRO

- Workload-Based Options.
- Established AMD RDNA™ 2 Architectural Gains.
- Affordability While Sacrificing Nothing.
- Winning Awards, Getting Great Reviews.

Radeon PRO Newsletter:
www.AMD.com/ProGpuSignUp



AMD



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ENDNOTES

RPW-393
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, 32 GB system memory, Windows 10 Pro, Radeon PRO W6400 GPU pre-production sample with Radeon PRO Driver 21.40 Pre-release version / AMD Radeon™ PRO WX 3200 GPU with AMD Driver 21.Q3. Benchmark Application: Holomark 2 Benchmark/PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers, production drivers and production silicon. RPW-393

RPW-394
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, 32 GB system memory, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample with AMD Driver 21.40 pre-release version or Nvidia Driver 471.68 with Nvidia T600 GPU. Benchmark Application: Holomark 2 Benchmark. PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers, production drivers and production silicon. RPW-394

RPW-395
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample with AMD Radeon™ PRO Driver 21.40 pre-release version / AMD Radeon™ PRO WX 3200 GPU with AMD Radeon PRO Driver 21.Q3.PC manufacturers may vary configurations, yielding different results. Benchmark Application: PCMark® 10 Extended Benchmark from UL®. Performance may vary based on use of latest drivers, published drivers, and production silicon. RPW-395

RPW-396
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample with AMD Radeon PRO Driver 21.40 Pre-release version or Nvidia Driver 471.68 with Nvidia T600 GPU. PC manufacturers may vary configurations, yielding different results. Benchmark Application: PCMark® 10 Extended Benchmark from UL®. Performance may vary based on use of latest drivers, production silicon, and published drivers. . RPW-396

RPW-397
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, 32 GB system memory, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample AMD Radeon PRO Driver 21.40 pre-release version. / AMD Radeon™ PRO WX 3200 GPU with AMD Radeon PRO driver 21.Q3 PC manufacturers may vary configurations, yielding different results. Benchmark Application: PugetBench (Commercial Edition 0.93.3) for Adobe Photoshop® release 23.0.2 Performance may vary based on use of latest drivers, published drivers and production silicon. RPW-397

RPW-398
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample with AMD Radeon PRO Driver 21.40 pre-release version or Nvidia Driver 471.68 with Nvidia T600 GPU. PC manufacturers may vary configurations, yielding different results. Benchmark Application: PugetBench (Commercial Edition 0.93.3) for Adobe Photoshop® release 23.0.2. Performance may vary based on use of latest drivers, published drivers and production silicon. RPW-398

ENDNOTES

RPW-399
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample with AMD Radeon PRO Driver 21.40 pre-release version or Nvidia Driver 471.68 with Nvidia T600 GPU. Benchmark Application: Dassault Systèmes SOLIDWORKS® Visualize 2021 SP5.1 using "Camaro1969" sample model. PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers, published drivers and production silicon. RPW-399

RPW-400
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample with AMD Radeon PRO Driver 21.40 pre-production version / AMD Radeon™ PRO WX 3200 GPU with AMD Radeon PRO Driver 21.Q3. Benchmark Application: PCMark® 10 Extended Benchmark from UL®, web browsing test. PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers, published drivers and production silicon. RPW-400

RPW-401
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample with AMD Radeon PRO Driver 21.40 pre-release version or Nvidia Driver 471.68 with Nvidia T600 GPU. Benchmark Application: PCMark® 10 Extended Benchmark from UL®. PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers, published drivers and production silicon. RPW-401

RPW-406
Testing conducted by AMD Performance Labs as of December 17, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, Windows® 10 Pro, and AMD Radeon™ PRO W6400 GPU pre-production sample / AMD Radeon™ PRO WX 3200 GPU with AMD Driver 21.40 RC. Benchmark Application: Autodesk AutoCAD® 2022 with file 1414.dwg, 'Drainage Trencher' model courtesy of Mastenbroek.com. Shaded Mode, Rotational Test Average (FPS @ 3840x2160px) PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. RPW-406

RPW-408
Testing conducted by AMD Performance Labs as of December 10, 2021 on a test system comprising Intel XeonW-2125 (Skylake-W) at 4Ghz, Windows® 10 Pro, AMD Radeon™ PRO W6400 GPU pre-production sample with AMD Driver 21.40 RC or Nvidia Driver 471.68 with Nvidia T600 GPU. Benchmark Application: Autodesk AutoCAD® 2022 with file 1414.dwg, 'Drainage Trencher' model courtesy of Mastenbroek.com. Shaded Mode, Rotational Test Average (FPS @ 3840x2160px). PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. RPW-408

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*SEE ENDNOTES GD-163

Resource List

- AMD Radeon PRO W6400 Family Landing Page (AMD.com)
- AMD Radeon PRO Workstation Guide (PDF)
- AMD Radeon PRO W6400 Datasheet (AMD Digital Library)
- AMD Radeon PRO GPU Selector Utility (AMD.com)
- AMD Radeon PRO Certified Drivers (AMD.com)
- AMD Guide to RNDA™ 2 (PDF)

Thank you for joining!

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