WHY CHOOSE RADEON™ PRO GPUS

The Benefits of Professional Graphics Explained.

AMD

Sacrifice Nothing

Today's modern workstation user requires performance, stability, image quality and software certifications for increased productivity. Users across all industries are expected to use more graphically intense applications than ever before, powered by a reliable system that is always ready to go. The entire AMD Radeon™ PRO graphics range answer these needs, but goes further by bringing system power efficiencies, thermal efficiencies, and multitasking leadership, fully backed by robust software. AMD professional GPUs are for those who need performance, durability and high quality components for increased reliability.

Dependability in Critical Applications

At the core of AMD professional graphics is an extensive Independent Software Vendor (ISV) certification and application testing process called the Day Zero Certification Program. This helps ensure you enjoy the latest driver benefits (known as AMD Radeon PRO Software for Enterprise) combined with certifications on the day of GPU driver release.

amd.com/Certified

Engineered for 24/7Use

For most people hardware is only considered when making a new purchase or worse, when something goes wrong. When considering application performance, the GPU should be one of your main priorities. With more software taking advantage of hardware acceleration, the stresses placed on your GPU rise. AMD offers high-performing, affordable GPUs for your workflows, with a commitment to reliability and quality components.

Radeon PRO Graphics are Quality Driven Solutions Designed Primarily for Reliability.

amd.com/RadeonPROW6800
amd.com/RadeonPROW6600
amd.com/RadeonPROW6400

Multitasking Superiority

The accelerated multitasking capabilities of the Radeon PRO GPU range continue to beat competitive GPUs. A typical scenario where you experience these benefits is when the CPU is being heavily tasked (for example multi-threaded rendering) while the GPU is navigating or modelling in another applications viewport. In these real-world scenarios Radeon PRO GPUs will experience a slight decrease in original performance, however provides up to 10x better application performance compared to the equivalent non-AMD GPUs[1]. When deadlines are approaching, this is not when you want your GPU to falter.

SUPPORT FOR
HDR & Ultra-HD Displays
ACROSS THE ENTIRE RANGE

OVER
1592 ISV Certifications
SINCE DAY ZERO PROGRAM LAUNCH[4]

UP TO
3 Year Limited Warranty
ON RADEON PRO GRAPHICS[5]

AMD RADEON PRO

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

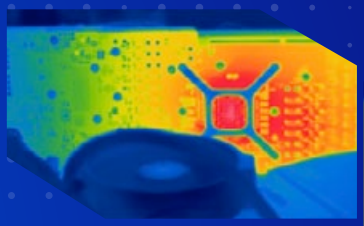
More Pixels. Better Pixels

Radeon PRO GPU's provide a number of unique technologies for modern workflow strains, for example AMD Eyefinity multi-display technology empowers you to have multiple applications and projects across three, four or even six high-resolution monitors all from a single GPU[3]. But more pixels doesn't mean better pixels. AMD Radeon PRO Image Boost allows the GPUs to output a higher resolution and then scale to your lower native display, helping improve sharpness and clarity for making decisions. To learn more visit:

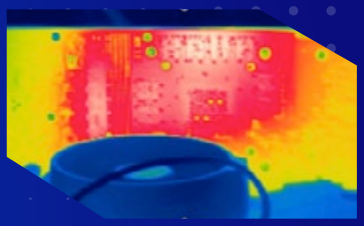
amd.com/Radeon-Pro-Software

Ultra-High Resolutions

All Radeon PRO GPU's support DP 1.4, offering modern monitor compatibility such as 8K UHD and High Dynamic Range support. Depending on the GPU model, it can be equipped with standard DisplayPort™, Mini-DisplayPort (mDP), or a combination. Although both connector types are functionally equivalent, mDP enables higher connector density for more displays.



THERMAL IMAGE EXAMPLE SHOWING AMD RADEON™ PRO VII GPU (ABOVE)



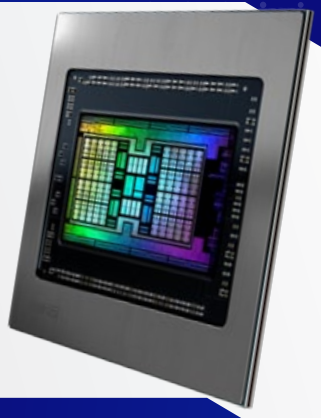
COMPARED TO NVIDIA® QUADRO RTX™ 5000[2] (BELOW) DURING SAME WORKLOAD.

More than a Minimal Design

Heat hot spots can introduce component failure risks. To combat this Radeon™ Pro GPUs use a high-performing fan to help keep the GPU cool, and the elegant design does more than look great, it allows for a more uniform heat spread. Notice how the adjacent thermal images show the evenly spread heat of the AMD GPU (left) which is up to 10% cooler than the competitive equivalent[2]. Also visible is the 'X' shaped clip, added to help protect the ASIC (Application-Specific Integrated Circuit) from shock and vibration.

Knowledge and Expertise

AMD brings its combined CPU and GPU knowledge to every component, providing you a better overall system experience. Advanced GPU technology eases your common project bottlenecks, such as PCIe® 4.0 compatibility and GDDR6 memory found in select Radeon PRO GPUs.



Access for Remote Employees

Access your workstation from virtually anywhere, with no AMD licensing fees and practically no performance penalty with AMD Remote Workstation[5]. Simply run your workstation-based applications on a mobile device of your choice, by remotely connecting to your powerful workstation and compatible Radeon PRO GPU. Learn more at:

amd.com/RemoteWorkstation

Find the Right GPU for You

With GPU options available for desktop-based or mobile workstations, the Radeon PRO GPU range brings the same innovations, and quality into your choice of system form factor. Not sure what GPU is right for you, visit:

amd.com/ProGPUselector

To learn more about AMD professional graphics visit: **amd.com/RadeonPRO**

[1] Testing conducted by AMD Performance Labs as of January 21, 2020 on the AMD Radeon™ Pro W5500 graphics card and AMD Radeon™ Pro Software for Enterprise 20.Q1 and the NVIDIA Quadro® P2200 graphics card with the NVIDIA Quadro® Optimal Driver for Enterprise (ODE) R440 U4 (441.66) driver, on a test system comprising an Intel® Core™ i9-9900K, 32 GB DDR4 RAM, Asus ROG Strix Z390-E Gaming motherboard with BIOS version 0905 at default settings, 512 GB Intel 760p SSD, Windows® 10 October 2018 Update. Benchmark application and derived metric calculation: the SPECviewperf® 13 benchmark sw-04 viewset was run with Autodesk® 3ds Max® 2019 rendering an AMD internal engine 3d model at 1920 x 1080 with continuous iterations using the Arnold CPU renderer to simulate the application workflow performance with multitasking. Calculated the performance when multitasking as a percentage then calculated the ratio between the two percentages. AMD RADEON™ PRO W5500 RESULTS: AMD Radeon™ Pro W5500 SPECviewperf® 13 benchmark sw-04 viewset average test results score: 138.75 AMD Radeon™ Pro W5500 with SPECviewperf® 13 benchmark sw-04 viewset test results score with Autodesk® 3ds Max® 2019 rendering an AMD internal engine 3d model at 1920 x 1080 with continuous iterations using the Arnold CPU renderer simultaneously average: 86.82 Performance when multitasking: 100 + (86.82- 138.75)/138.75*100) = 62.57% of the workflow performance compared to the performance when not multitasking on the AMD Radeon™ Pro W5500 graphics card. NVIDIA QUADRO® P2200 RESULTS: NVIDIA Quadro® P2200 SPECviewperf® 13 benchmark sw-04 viewset average test results score: 139.76 NVIDIA Quadro® P2200 with SPECviewperf® 13 benchmark sw-04 viewset test results score with Autodesk® 3ds Max® 2019 rendering an AMD internal engine 3d model at 1920 x 1080 with continuous iterations using the Arnold CPU renderer simultaneously average: 7.91 Performance when multitasking: 100 + (7.91- 139.76)/139.76*100) = 5.66% of the workflow performance compared to the performance when not multitasking on the NVIDIA Quadro® P2200 graphics card. Difference in performance while multitasking between the AMD Radeon™ Pro W5500 graphics card and the NVIDIA Quadro® P2200 graphics card (62.57/5.66)-1 = ~10.05x average better application workflow performance for the AMD Radeon™ Pro W5500 graphics card. Scores are based on AMD internal lab measurements and may vary. PC manufacturers may vary configurations, yielding different results. Performance may vary based on use of latest drivers. SPEC® and SPECviewperf® are registered trademarks of the Standard Performance Evaluation Corporation. Additional information about the SPEC benchmarks can be found at www.spec.org/gwpg. RPW-274

[2] Testing performed on April 23, 2020 by AMD Performance Labs on a production test system comprised of an AMD Ryzen 5 3600, Windows® 10 1903, AMD Radeon™ Pro VII, AMD Radeon™ Software for Enterprise 20.Q2 Pre-release version/NVIDIA Quadro® RTX, NVIDIA Quadro® Optimal Driver for Enterprise (ODE) R440 U6 (442.5) using AMD Internal Benchmark for thermal stress test inside a 20°C thermally controlled chamber. Results may vary. RPW-321

[3] AMD Eyefinity technology supports up to six DisplayPort monitors on an enabled graphics card. Supported display quantity, type and resolution vary by model and board design. Confirm specifications with manufacturer before purchase. To enable more than two displays, or multiple displays from a single output, additional hardware such as DisplayPort™-ready monitors or DisplayPort 2 MST-enabled hubs may be required. See www.amd.com/eyefinity for full details.

[4] AMD Radeon™ Pro Software for Enterprise has over 1592 ISV applications certifications since the start of the Day Zero Certification Program. Based on AMD internal research as of August 6, 2020, the total number of ISV application certifications for AMD Radeon™ Pro Software for Enterprise drivers (18.Q4 + 19.Q1 + 19.Q2 + 19.Q3 + 19.Q4 + 20.Q1+ 20.Q3) since the start of Day Zero Certification Program (18.Q4 or November 14, 2018) is 1443. Please see https://www.amd.com/en/support/certified-drivers for a complete list of Radeon™ Pro Software certifications. RPS-107

[5] For full details visit https://www.amd.com/en/support/kb/warranty-information/workstation-graphics

[6] Compatible with AMD Radeon™ PRO WX 2100, 3100, 3200, 4100, 5100, 7100, 8200, 9100, and AMD Radeon™ PRO W5500, W5700, W6400, W6600, W6800 and VII GPUs. Remote Workstation functionality requires purchase and installation of Citrix Virtual Apps & Desktops™, HP ZCentral™ Remote Boost, Microsoft® Remote Desktop Services, Teradici® Cloud Access Software or VMware Horizon®. Citrix and Microsoft require Enterprise driver 18.Q4 or newer, VMware requires Enterprise driver 20.Q3 or newer, ZCentral requires Enterprise driver 21.Q2 or newer, Teradici requires Enterprise driver 21.Q3 or newer. RPS-50a

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