AMD RADEON™ PRO W6500M

Welcome to Affordable Performance.

AMD

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MAINSTREAM MOBILE PERFORMANCE. UPGRADED.

The AMD Radeon™ PRO W6500M graphics for Mobile Systems is powered by the same award winning AMD RDNA™ 2 architecture as found in the dedicated graphics cards of the Radeon PRO W6000 series. The powerful mobile graphics contain 4GB of high-performing GDDR6 dedicated memory, hardware raytracing, 16 MB of all new AMD Infinity Cache™ and is ready to support up to 5x demanding Ultra-HD HDR displays with truer colors.

The complete AMD Radeon PRO W6000 range of GPUs are meticulously engineered to deliver ultra-high viewport frame rates, dependability and serious performance for popular professional applications.

- 4GB GDDR6 Memory
- Hardware Raytracing Support
- Ready for Up To 5x Displays. 8K and HDR Support
- Accelerated Multitasking Performance
- PCIe® 4.0 Ready for Advanced Data Transfers
- Certified for Many ISV Applications

GDDR6
4GB

Power Efficient Performance

Engineered from the ground up, the AMD RDNA 2 architecture introduces significant GPU advancements in the form of an enhanced Compute Unit, new visual pipeline, and all new AMD Infinity Cache. AMD RDNA 2 architecture delivers improved performance per watt. This helps enable higher mobile system resolution performance together with vivid visuals, incorporating superior performance and power efficiency.
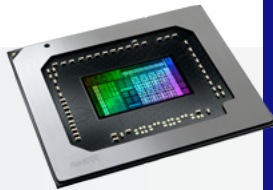
Affordable Realtime Hardware Raytracing

New to the AMD RDNA 2 Compute Unit is the implementation of a high-performance raytracing acceleration architecture known as Ray Accelerators. This specialized hardware handles the intersection of rays directly on the AMD Radeon PRO W6500M for accelerated hardware raytracing.

AMD RADEON VR READY CREATOR

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

To learn more about exceptional performance, visit: **amd.com/RadeonPRO**

Technical Specifications

GPU Architecture	AMD RDNA™ 2
Transistor Count	5.4 Billion (6 nm Process)
Stream Processors	1024 (16 Compute Units)
Hardware Raytracing	Yes (16 Ray Accelerators)
Peak FP16 Throughput (Half Precision)	10.61 Teraflops of Compute Performance
Peak FP32 Throughput (Single Precision)	5.30 Teraflops of Compute Performance
AMD Infinity Cache™ (L3)	16 MB Graphics Cache
Dedicated Graphics Memory	4GB of High-Performance GDDR6
Peak Memory Bandwidth	128GB per Second Transfer Speeds
PCI Express® Support	4.0 Ready (x4) with 3.0 Backward Compatibility
Error Correcting Code (ECC) Support	No
Professional ISV Certification Support	Yes
AMD Secure Processor (ASP)	Yes
VR and Realtime Ready	Yes
Remote Workstation[1] Ready	Yes
8K UHD and HDR Display Support	Yes
10-bit Color Ready for Truer Colors	Yes
Radeon PRO Viewport Boost Support[2]	Yes
AMD EyefinityTechnology Ready[3]	Yes
Video Acceleration[4] (HEVC / H265)	Yes – Decode
Display Connectors	Specific to Laptop Implementation. GPU Supports up to 5x Displays
Supported APIs	DirectX® 12 Ultimate OpenGL® 4.6 OpenCL™ 2.2 Vulkan® 1.2
Total Graphics Power (TGP)	35 to 50 Watts of Power
GPU Form Factor	24 x 28mm
Supported Operating Systems (64-bit)	Microsoft® Windows® 10, Windows® 11, Linux®

Specifications may vary with OEM or partner implementation.

[1] Learn more at www.amd.com/en/technologies/remote-workstation
[2] Learn more at www.amd.com/viewportboost
[3] Learn more at www.amd.com/en/technologies/eyefinity-professionals
[4] Video codec acceleration (including at least the HEVC (H.265), H.264, VP9, and AV1 codecs) is subject to and not operable without inclusion/installation of compatible media players. GD-176

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