

# AMD RADEON™ PRO W6300M

Welcome to Super-Affordable Performance.



## MAINSTREAM MOBILE PERFORMANCE.

The AMD Radeon™ PRO W6300M 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 2GB of high-performing GDDR6 dedicated memory, hardware raytracing, 8 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.

- 2GB 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

## 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 W6300M for accelerated hardware raytracing.



Learn more about VR capabilities of Radeon PRO Graphics at [amd.com/PRO-VR](https://amd.com/PRO-VR)



To learn more about exceptional performance, visit: [amd.com/RadeonPRO](https://amd.com/RadeonPRO)

© 2022 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, AMD Infinity Cache, Radeon, AMD RDNA, and combinations thereof are trademarks of Advanced Micro Devices, Inc. DirectX®, Microsoft® and Windows® are registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. DisplayPort™ is a trademark owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. OpenGL is a trademark of Apple Inc. used by permission by Khronos. OpenGL is a trademark or registered trademark of Hewlett Packard Enterprise in the United States and/or other countries worldwide. PCIe is a registered trademark of PCI-SIG Corporation. Vulkan® is a registered trademark of The Khronos Group Inc. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.

The information contained herein is for informational purposes only and is subject to change without notice. While every precaution has been taken in the preparation of this document, it may contain technical inaccuracies, omissions and typographical errors, and AMD is under no obligation to update or otherwise correct this information. Advanced Micro Devices, Inc. makes no representations or warranties with respect to the accuracy or completeness of the contents of this document, and assumes no liability of any kind, including the implied warranties of non-infringement, merchantability, or fitness for particular purposes, with respect to the operation or use of AMD hardware, software or other products described herein. No license, including implied or arising by estoppel, to any intellectual property rights is granted by this document. Terms and limitations applicable to the purchase or use of AMD's products are set forth in a signed agreement between the parties or in AMD's Standard Terms and Conditions of Sale. GD-18  
PID#: 211151367



AMD  
RADEON  
PRO W6300M

GDDR6  
2GB

## Technical Specifications

GPU Architecture	AMD RDNA™ 2
Transistor Count	5.4 Billion (6 nm Process)
Stream Processors	768 (12 Compute Units)
Hardware Raytracing	Yes (12 Ray Accelerators)
Peak FP16 Throughput (Half Precision)	6.75 Teraflops of Compute Performance
Peak FP32 Throughput (Single Precision)	3.37 Teraflops of Compute Performance
AMD Infinity Cache™ (L3)	8 MB Graphics Cache
Dedicated Graphics Memory	2GB of High-Performance GDDR6
Peak Memory Bandwidth	64 GB per Second Transfer Speeds
PCI Express® Support	4.0 Ready (x 4) 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 Workstation¹ Ready	Yes
8K UHD and HDR Display Support	Yes
10-bit Color Ready for Truer Colors	Yes
Radeon PRO Viewport Boost Support²	Yes
AMD EyefinityTechnology Ready³	Yes
Video Acceleration⁴ (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)	25 Watts of Power
GPU Form Factor	24 x 28mm
Supported Operating Systems (64-bit)	Microsoft® Windows® 10, Windows® 11, Linux®

¹ Learn more at [www.amd.com/en/technologies/remote-workstation](https://www.amd.com/en/technologies/remote-workstation)

² Learn more at [www.amd.com/en/technologies/eyefinity-professionals](https://www.amd.com/en/technologies/eyefinity-professionals)

³ Learn more at [www.amd.com/en/technologies/eyefinity-professionals](https://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.