




# AMD RYZEN™ 6000 SERIES MOBILE PROCESSORS

ULTIMATE PERFORMANCE. PROFESSIONAL EXPERIENCES.

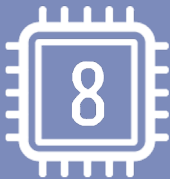
## NEW TECHNOLOGIES FOR RYZEN™ 6000 SERIES PROCESSORS


The next generation of AMD processors for business accelerate productivity, enhance collaboration, and inspire creativity for professional laptop users.



Built on 6nm “Zen 3+” architecture for processor performance leadership, accelerating workplace applications.

AMD Ryzen™ is the only processor family with up to 8 high performance X86 cores for ultrathin notebooks.<sup>1</sup>





Up to 24 hours of battery life based on video playback<sup>2</sup>.

AMD RDNA 2 graphics offer the most powerful AMD integrated graphics ever<sup>4</sup>.

Up to

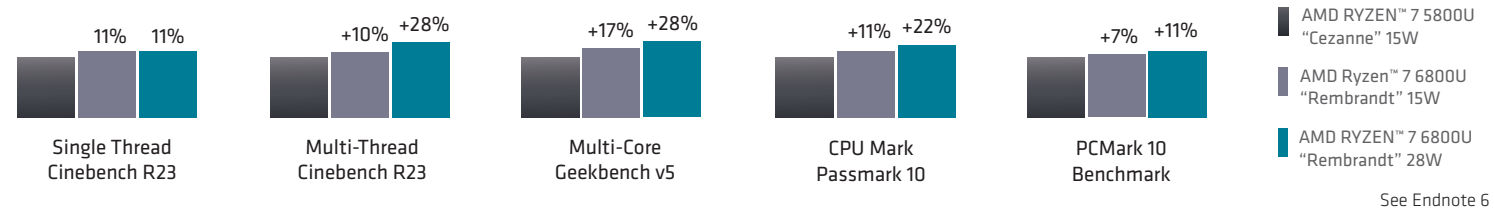
2.0x

FASTER GRAPHICS<sup>3</sup>

## FASTEST PRODUCTIVITY PERFORMANCE FOR ULTRATHIN AMD NOTEBOOKS<sup>5</sup>

AMD Ryzen™ 6000 Series mobile processors offer the fastest productivity performance possible on ultrathin Windows laptops.

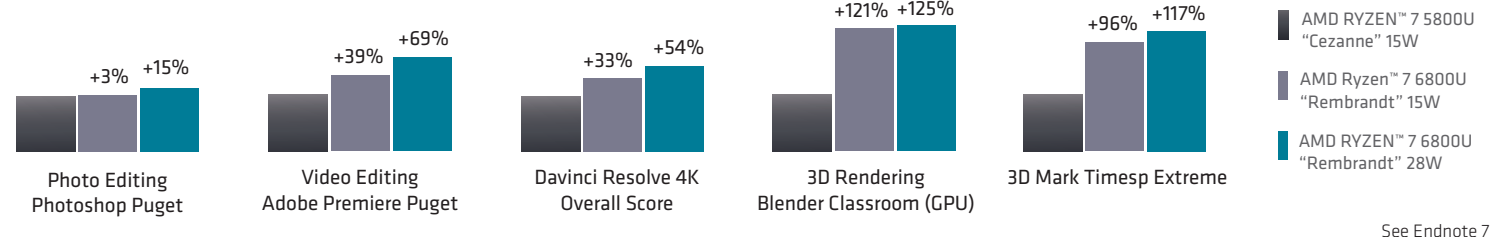
### Ryzen™ 7 compared to Previous Generation



## AMD'S MOST POWERFUL INTEGRATED GRAPHICS FOR PC<sup>4</sup>

AMD Ryzen™ 6000 Series mobile processors offer up to twice the integrated graphics performance as previous generation.

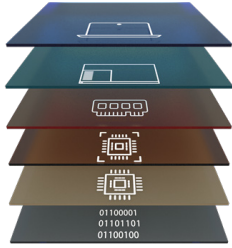
### Ryzen™ 7 compared to Previous Generation



# MODERN SECURITY

Through a modern, multi-layered approach to security, AMD 6000 Series mobile processors help protect your sensitive data from today's sophisticated attacks.

## Available in AMD Ryzen™ 6000 Series



### Microsoft Pluton Security Processor<sup>8,9</sup>

AMD Ryzen™ 6000 series is the world's first x86 processor to integrate Microsoft Pluton security processor<sup>8</sup> for powerful security from chip to cloud.

### AMD Architecture

"Zen 3+" Core architected with a focus on security features

### AMD Secure Processor

Helps secure the processing and storage of sensitive data and trust applications.

# UPGRADE TO PRO

Choose AMD Ryzen™ 6000 Series processors for excellent performance, superb battery life, and modern security features. Upgrade to Ryzen™ PRO processors to add PRO security, PRO manageability, and PRO business ready features.

	AMD Ryzen™ Mobile Processors	AMD Ryzen™ PRO Mobile Processors
Microsoft Pluton Security Processor	•	•
AMD Architecture	•	•
AMD Secure Processor	•	•
Microsoft Secured-core PC		•
AMD PRO security		•
AMD PRO manageability		•
AMD PRO business ready		•

# AMD RYZEN PRO 6000 SERIES COMPETITION COMPARISON

AMD RYZEN	CORES/ THREADS	PROCESS	Architecture	Cache	TDP
Ryzen™ 7 6800U	8/16	6nm	"Zen 3+"	20 MB	15-28W
Ryzen™ 5 6600U	6/12	6nm	"Zen 3+"	19 W	15-28W

INTEL CORE	CORES/ THREADS	PROCESS	CACHE	TDP
i7-1185G7	4/8	10nm	12 MB	28W
i5-1145G7	4/8	10nm	8 MB	28W

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Your source for tools, training, news, reviews, and much more!  
To find out more about AMD Ryzen™ PRO Processors, please visit [www.AMD.com/pro](http://www.AMD.com/pro)

1. Ryzen 5000 series mobile processors will offer up to 8 cores. As of January 2021, this is the most number of cores offered on an AMD or Intel mobile processor. C2M-2  
2. Based on testing by AMD as of 12/14/2021. Battery life evaluated with hours of continuous 1080p local video playback using the h.264 video codec. 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. System configuration: AMD reference motherboard(s), Ryzen™ 7 5800U @ 15W and 2x8GB LPDDR4, Ryzen™ 7 6800U @ 28W and 2x8GB LPDDR5, 1080p eDP PSR display with Varibright at 150 nits, Samsung 980 Pro 1TB SSD, WLAN enabled and disconnected, Windows 11 22000.282, BIOS 103BRC1 (5800U) and 090RC6INT (6800U). Video file: 1920x1080, 23.976 FPS, h.264, RMB-15  
3. Based on testing by AMD as of 12/14/2021. CPU performance evaluated with a geometric mean of 9 multi-threaded content creation and CPU tests. GPU performance evaluated with 3DMark™ Time Spy. System configuration for Ryzen™ 7 5800U CPU/GPU performance: HP ProBook 635 Aero G8 configured with 2x8GB DDR4-3200 (22-22-22), Windows™ 11 22000.282, Samsung 980 Pro 1TB SSD, 15W nominal processor TDP, GPU driver 27.20.21026, BIOS 183. System configuration for Ryzen™ 7 6800U CPU/GPU performance: AMD reference motherboard configured with 4x4GB LPDDR5-6400 (40-39-45-90), Windows™ 11 22000.282, Samsung 980 Pro 1TB SSD, 28W nominal processor TDP, GPU driver 30.0, BIOS TRMD0810. Performance may vary. RMB-13  
4. Based on testing by AMD as of 12/14/2021. Integrated graphics performance leadership represented by 3DMark Time Spy vs. last generation Ryzen™ 7 5800U and competing Intel Core i7 mobile processors. Performance may vary. RMB-6  
5. Based on testing by AMD as of 12/14/2021. Creator and productivity performance based on Cinebench R23 nt leadership on AMD ultrathin laptops with processors rated below 28W TDP. Performance may vary. RMB-26  
6. Testing as of 12/10/2021 by AMD Performance Labs utilizing HP ProBook 635 Aero G8 with AMD Ryzen™ Pro 7 5850U processor, 16 GBBytes RAM - 3200 MHz, Samsung SSD 980 PRO 1TB Drive, AMD Radeon™ Graphics, GPU driver 27.20, with Windows Professional build 22000.282 vs. Mayan CRB with AMD Ryzen™ 7 6850U processor, 16GB RAM - 6400, Samsung SSD 980 PRO 1TB Drive, AMD Radeon™ 680M graphics, GPU driver 30.0, BIOS TRMD0810 with Windows Professional build 22000.282 using the following tests: Cinebench R23 1-thread, Cinebench R23 n-thread, Geekbench v5 Multi-Core Score, Passmark 10 CPU Mark, PC Mark 10 Benchmark. PC manufacturers may vary configurations yielding different results. Results may vary. RMP-14  
7. Testing as of 12/10/2021 by AMD Performance Labs utilizing HP ProBook 635 Aero G8 with AMD Ryzen™ Pro 7 5850U processor, 16 GBBytes RAM - 3200 MHz, Samsung SSD 980 PRO 1TB Drive, AMD Radeon™ Graphics, GPU driver 27.20, with Windows Professional build 22000.282 vs. Mayan CRB with AMD Ryzen™ 7 6850U processor, 16GB RAM - 6400, Samsung SSD 980 PRO 1TB Drive, AMD Radeon™ 680M graphics, GPU driver 30.0, BIOS TRMD0810 with Windows Professional build 22000.282 using the following tests: Puget Photoshop Overall Score, Puget Adobe Premiere Standard Overall Score, Davinci Resolve 4K Overall Score, Blender Bench GPU-Classroom, 3D Mark Timespy Extreme. PC manufacturers may vary configurations yielding different results. Results may vary. PCMark™ is a registered trademark of Futuremark Corporation. RMP-15  
8. As of January 2022, only AMD Ryzen™ 6000 Series processors include the Microsoft Pluton security processor, while AMD Ryzen™ 5000 Series processors and Intel's latest 11th and 12th Gen processors do not. "Microsoft Pluton is a technology owned by Microsoft and licensed to AMD. Microsoft Pluton is a registered trademark of Microsoft Corporation in the United States and/or other countries. Learn more at <https://www.microsoft.com/security/blog/2020/11/17/meet-the-microsoft-pluton-processor-the-security-chip-designed-for-the-future-of-windows-pcs/>" RMB-24  
9. Microsoft Pluton is a technology owned by Microsoft and licensed to AMD. Microsoft Pluton is a registered trademark of Microsoft Corporation in the United States and/or other countries. Learn more at <https://www.microsoft.com/security/blog/2020/11/17/meet-the-microsoft-pluton-processor-the-security-chip-designed-for-the-future-of-windows-pcs/>. GB-202.

"Zen" is a codename only and not an AMD product name.  
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