

The image features the Ryzen logo centered against a dark background with a glowing circuit board pattern. The logo consists of the word "RYZEN" in a bold, white, sans-serif font. The letter "O" is replaced by a circular emblem with a gradient from orange at the top to red at the bottom, and a rough, hand-painted edge. The background is a dark blue/black field with intricate, glowing yellow and orange circuit traces. A large, flowing, ribbon-like shape in shades of orange and red is positioned at the bottom, partially overlapping the circuit pattern.

RYZEN

WHAT WE WILL COVER TODAY

5 Things to Know about AMD

AMD Ryzen™ Mobile Processors

AMD SenseMI Smart Features

Key Things to Remember

The Ryzen logo features the word "RYZEN" in a bold, white, sans-serif font. The letter "Y" is partially enclosed by a circular brushstroke that transitions from orange at the top to red at the bottom. The background is dark with a subtle circuit board pattern in a light brown color.

RYZEN

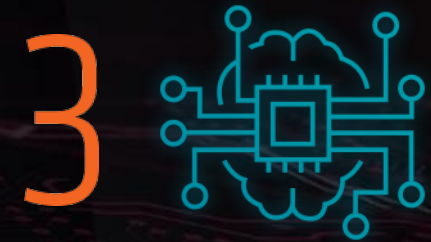
5 Things Everyone Should Know about AMD:



Is in major gaming consoles and home entertainment systems, Microsoft® Xbox One X and Sony PS4™ Pro.



Powers the graphics for Apple iMac with Retina 5k display as well as the Apple Mac Pro.



Is the only company in the world currently engineering both high-end CPU and GPU processors.



Won twice at the prestigious Trusted Reviews Awards 2017: The reader's choice of "Best Tech 2017 Brand of the Year" for AMD and "PC Component of the Year" for the AMD Ryzen™ processors.



A trusted Technology provider for Intel®, Boeing, Samsung and DropBox.

Introducing

AMD RYZEN™ MOBILE PROCESSORS



**Best-in-Class Performance
for Ultrathin Laptops¹**



**Best-in-Class Performance
for Ultrathin Laptops²**



**World's Fastest Processor
for Ultrathin Laptops²**

THE RYZEN™ MOBILE ADVANTAGE

Combining the award-winning technology from AMD Ryzen processors
with the revolutionary graphics of the Radeon™ Vega architecture

RYZEN™ MOBILE ADVANTAGE

PERFORMANCE

- Get desktop-class performance from the **world's fastest processor** for ultrathin laptops with the AMD Ryzen™ 7 2700U ^{3,2}
- Play harder, create faster, multitask like a pro with the **best-in-class** Ryzen™ 5 2500U and Ryzen™ 3 2300U mobile processor^{2,1}
- The AMD Ryzen™ 3 2300U processor offers up to **29% faster system performance** than the 7th Gen FX™ 9800P processor.⁴
- **Faster compute performance** with an AMD Ryzen™ 5 2500U Processor over the Intel i5-8250U.⁵



RYZEN™ MOBILE ADVANTAGE GRAPHICS

- Get **beautiful and stunning visuals** with the new Radeon™ Vega Graphics engine
- **Smooth 1080p gameplay** on the most popular eSports titles with the AMD Ryzen™ 7 2700U⁶
- Stream your favorite shows in **smooth 4K and 1080p**
- Get up to **106% faster graphics performance** with an AMD Ryzen™ 5 2500U Processor over the Intel i5-8250U.⁷
- Up to **85% faster graphics performance** with an AMD Ryzen™ 3 2300U Processor over the Intel i3-7130U.⁸

RYZEN™ MOBILE ADVANTAGE

PRODUCTIVITY

- Processor-level intelligence that **learns and adapts** to your needs⁹
- Get up to **22% better productivity performance** with an AMD Ryzen™ 7 2700U Mobile Processor over the Intel i7-8550U.¹⁰
- **Windows® 10 optimized** so you get the most out of your work and play
- **Incredible battery life and performance** for everything you do in a sleek laptop
- Get up to **34% faster productivity performance** with an AMD Ryzen™ 3 2300U Mobile Processor over the Intel i3-7130U.¹¹

AMD SenseMI Smart Features⁹

RYZEN



Pure Power:

Smart sensors work in concert to optimize power consumption.



Precision Boost 2:

Gracefully supercharges CPU frequencies on one to many cores.



Mobile XFR:

Premium notebook cooling can raise average CPU performance.¹²



Smart Prefetch:

Learning algorithms can improve performance by pre-loading vital data.



Neural Net Prediction:

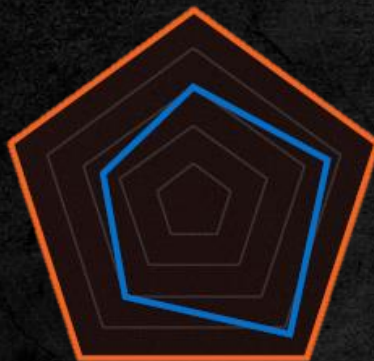
A neural network AI can improve performance by learning your apps.

HOW AMD STACKS UP AGAINST INTEL + NVIDIA DISCRETE GRAPHICS



GRAPHICS PERFORMANCE¹³

+40%



+50%
POWER
EFFICIENCY¹³

+28%
CONTENT
CREATION¹³

+40%

GAMING ON THE GO¹³

+17%

PRODUCTIVITY¹³

GRAPHICS PERFORMANCE¹⁴

+34%



+55%
POWER
EFFICIENCY¹⁴

+11%
CONTENT
CREATION¹⁴

+55%

GAMING ON THE GO¹⁴

+17%

PRODUCTIVITY¹⁴

GRAPHICS PERFORMANCE¹⁵

-17%



+57%
POWER
EFFICIENCY¹⁵

+2%
CONTENT
CREATION¹⁵

+27%

GAMING ON THE GO¹⁵

+12%

PRODUCTIVITY¹⁵

● Ryzen™ 3 2300U ● Intel i3-7100U + Nvidia MX110 2G

● Ryzen™ 5 2500U ● Intel i5-8250U + Nvidia MX130 2G

● Ryzen™ 7 2700U ● Intel i7-8550U + Nvidia MX150

Key things to remember: Reasons your customers will want to buy AMD

World's Fastest.

AMD Ryzen™ 7 2700U is the world's fastest processor for ultrathins.²

Best-in-Class.

AMD Ryzen™ 5 2500U and Ryzen™ 3 2300U delivers best-in-class performance for ultrathins.^{2,1}

Incredible Battery Life.

Get up to 13 hours in a sleek design.¹⁶



Processor-Level Intelligence.

AMD SenseMI technology adapts to you and anticipates your needs.⁹

Ultrathin Gaming.

Introduces smooth 1080p eSports gaming into ultrathin laptops.⁶

Leads the Competition.

The AMD Ryzen™ 7, 5, 3 processors deliver better graphics, compute, and productivity performance.*



THANK YOU

FOOTNOTES

1. Based on testing of the AMD Ryzen™ 3 2300U, AMD Ryzen™ 3 2200U, and Core i3-7130U mobile processors as of 1/12/2018 Performance based on Cinebench R15 nT and 3DMark® Time Spy in order of AMD 2300U, AMD 2200U and Intel 7130U. Cinebench R15 nT results: 466, 372, 291; 3DMark TimeSpy results: 715, 449, 386. 50:50 CPU:GPU weighted relative performance with i3 baseline: Intel i3-7130U = $(291/291*0.5) + (386/386*0.5) = 100\%$; AMD Ryzen 3 2200U = $(372/291*0.5) + (449/386*0.5) = 122\%$; AMD Ryzen 7 2700U = $(466/291*0.5) + (715/386*0.5) = 173\%$. System Configurations: AMD Ryzen™ 3 2300U: AMD Reference Platform, AMD Ryzen™ 3 2300U Mobile Processor with Radeon™ Vega 6 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS3, Graphics driver 23.20.768.0, 05-Dec-2017 AMD Ryzen™ 3 2200U: AMD Reference Platform, AMD Ryzen™ 3 2200U Mobile Processor with Radeon™ Vega 3 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS3, Graphics driver 23.20.768.0, 05-Dec-2017 i3-7130U: HP 8310, i3-7130U with Intel UHD Graphics 620, 8GB Dual Channel (2x4GB) DDR4-2133 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 23.20.16.4901, 12/17/2017 Different configurations and drivers may yield different results. RVM-98
2. “Processor for ultrathin notebooks” defined as 15W nominal processor TDP. Based on testing of the AMD Ryzen™ 7 2700U, AMD Ryzen™ 5 2500U, and Core i7-8550U mobile processors as of 10/6/2017 Performance based on Cinebench R15 nT and 3DMark® TimeSpy in order of AMD 2700U, AMD 2500U and Intel 8550U. Cinebench R15 nT results: 660.5, 606.5, 498.2; 3DMark TimeSpy results: 978, 865, 350. 50:50 CPU:GPU weighted relative performance with i7 baseline: Intel i7-8550U = $(498.2/498.2*0.5) + (350/350*0.5) = 100\%$; AMD Ryzen 5 2500U = $(606.5/498.2*0.5) + (865/350*0.5) = 184\%$; AMD Ryzen 7 2700U = $(660.5/498.2*0.5) + (978/350*0.5) = 206\%$. System configuration: AMD Ryzen™ 7 2700U Processor: HP 83C6, AMD Ryzen™ 7 2700U Processor with Radeon™ Vega 10 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.0, 12-Sep-2017 AMD Ryzen™ 5 2500U Processor: HP 83C6, AMD Ryzen™ 5 2500U Processor with Radeon™ Vega 8 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.0, 12-Sep-2017. i7-8550U: KBL Woody_KL, i7-8550U with Intel UHD Graphics 620, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, MTFDDAV256TBN - M.2 Sata, Windows 10 Pro RS2, Graphics driver 22.20.16.4771, 12-Aug-2017 RVM-26
3. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. Cinebench R15 1T and nT are used to simulate single-thread and multi-thread CPU performance, 3DMark Time Spy is used to simulate graphics performance, PCMark 10 Extended is used to simulate system performance; In Cinebench R15 1T, Cinebench R15 nT, 3DMark Time Spy and PCMark 10 Extended respectively, the 15W TDP mXFR enabled AMD Ryzen™ 7 2700U scored 143, 661, 978, and 3121 while the 65W TDP Intel i5-7600 scored 174, 645, 469, and 3098 for benchmark score comparisons of $143/174 = .82x$, $661/645 = 1.02x$, $978/469 = 2.09x$ and $3121/3098 = 1.01x$. System Configurations: AMD Ryzen™ 7 2700U Processor: HP 83C6, AMD Ryzen™ 7 2700U Processor with Radeon™ Vega 10 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.0, 12-Sep-2017. i5-7600: MSI B250 Gaming M3, i5-7600 with Intel HD Graphics 630 (Integrated), 16GB Dual Channel (2x8GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 15.46.05.4771 RVM-47
4. Based on AMD Performance Labs testing as of 1/3/2018. Performance based on PCMark 10 Extended in order of Ryzen 3 2300U, 7th Gen FX 9800P. PCMark 10 Extended results: 2546, 1907 giving $2546/1907 = 1.34x$, or 134%, or 34% more performance. System Configurations: AMD Ryzen™ 3 2300U: AMD Reference Platform, AMD Ryzen™ 3 2300U Mobile Processor with Radeon™ Vega 6 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS3, Graphics driver 23.20.768.0, 05-Dec-2017 AMD FX™ 9800P: HP 81AA, AMD FX™ 9800P with Radeon™ R7 Mobile Graphics, 8GB Single Channel (1x8GB) DDR4-2133 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.662.4, 19-Jul-2017 Different configurations and drivers may yield different results. RVM-66
5. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. Cinebench R15 nT is used to simulate multi-thread CPU performance; the AMD Ryzen™ 5 2500U scored 606.5, while the Intel i5-8250U scored 540.6 for a benchmark score comparison of $606.5/540.6 = 1.12x$ or 12% faster performance. AMD Ryzen™ 2500U Processor: HP 83C6, AMD Ryzen™ 2500U Processor with AMD Radeon™ Vega 8 Graphics, 8GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.2, 06-Sep-2017. Intel i5-8250U: Swift 3, Intel i5-8250U with Intel UHD Graphics 620, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.20.16.4771, 12-Aug-2017. RVM-30
6. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. Tested game settings are: CS:GO = 1920x1080, DirectX® 9, medium, no MSAA; DOTA 2 = 1920x1080, DirectX® 11, fastest+; League of Legends = 1920x1080, DirectX® 9, medium. The AMD Ryzen™ 7 2700U scored FPS of: CS:GO = 49; DOTA 2™ = 49; League of Legends = 59. System Configuration: AMD Ryzen™ 7 2700U: HP 83C6, AMD Ryzen™ 7 2700U with Radeon™ Vega 10 Processor Graphics, 8GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.2, 06-Sep-2017 RVM-29
7. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. 3DMark Time Spy is used to simulate graphics performance; the AMD Ryzen™ 5 2500U scored 865, while the Intel i5-8250U scored 419 for a benchmark score comparison of $865/419 = 2.06x$ or 106% faster performance. AMD Ryzen™ 2500U Processor: HP 83C6, AMD Ryzen™ 2500U Processor with AMD Radeon™ Vega 8 Graphics, 8GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.2, 06-Sep-2017. Intel i5-8250U: Swift 3, Intel i5-8250U with Intel UHD Graphics 620, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.20.16.4771, 12-Aug-2017. RVM-31

FOOTNOTES

8. Based on AMD Performance Labs testing as of 1/10/2018. Performance based on 3DMark Time Spy in order of Ryzen 3 2300U, i3-7130U. 3DMark Time Spy results: 715, 386 giving $715/386 = 1.85X$, or 185%, or 85% more performance. System Configurations: AMD Ryzen™ 3 2300U: AMD Reference Platform, AMD Ryzen™ 3 2300U Mobile Processor with Radeon™ Vega 6 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS3, Graphics driver 23.20.768.0, 05-Dec-2017 i3-7130U: HP 8310, i3-7130U with Intel UHD Graphics 620, 8GB Dual Channel (2x4GB) DDR4-2133 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 23.20.16.4901, 12/17/2017 Different configurations and drivers may yield different results. RVM-71
9. AMD SenseMI technology is built into all Ryzen processors, but specific features and their enablement may vary by product and platform. Learn more at <http://www.amd.com/en/technologies/sense-mi>.
10. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. PCMark 10 Extended is used to simulate productivity performance; the AMD Ryzen™ 7 2700U scored 3102, while the Intel i7-8550U scored 2533 for a benchmark score comparison of $3102/2533 = 1.22X$ or 22% faster. AMD Ryzen™ 7 2700U: HP 83C6, AMD Ryzen™ 7 2700U with Radeon™ Vega 10 Processor Graphics, 8GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.2, 06-Sep-2017. Core i7-8550U: Acer Spin 5, Core i7-8550U with Intel UHD Graphics 620, 8GB DDR4-2400 RAM, MTFDDAV256TBN - M.2 Sata SSD, Windows 10 Pro RS2, Graphics driver 22.20.16.4771, 12-Aug-2017. RVM-35
11. Based on AMD Performance Labs testing as of 1/3/2018. Performance based on PCMark 10 Extended in order of Ryzen 3 2300U, i3-7130U. PCMark 10 Extended results: 2546, 1898 giving $2546/1898 = 1.34X$, or 134%, or 34% more performance. System Configurations: AMD Ryzen™ 3 2300U: AMD Reference Platform, Ryzen™ 3 2300U Mobile Processor with Radeon™ Vega 6 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS3, Graphics driver 23.20.768.0, 05-Dec-2017 Intel i3-7130U: HP 8310, i3-7130U with Intel UHD Graphics 620, 8GB Dual Channel (2x4GB) DDR4-2133 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 23.20.16.4901, 12/17/2017 Difference configurations and drivers may yield different results. RVM-102
12. mXFR enablement must meet AMD requirements. Not enabled on all notebook designs. Check with manufacturer to confirm “amplified mXFR performance” support. GD-125
13. Testing done by AMD performance labs January 10, 2017 . Using Firestrike @ 1080p, PC Mark Content Creation, Cinebench (nT), DOTA 2 @ 1080p, GPU + Graphics TDP. Ryzen System scored 2000, 2761, 470, 50 fps, 15W respectively. Intel System + Nvidia Graphics scored 1200, 2000, 390, 30 fps, 30W respectively. All scores are an average of 3 runs with the same settings. Ryzen System: Ryzen 3 2300u, 2x4GB DDR4-2400, Radeon Vega, Radeon Driver 17.30, Windows 10. Intel System + Nvidia Graphics: Intel Core i3 7100u (@4.0GHz), 2x4GB DDR4-2667, MX110, Nvidia Driver 390.65, Windows 10. Different configurations and drivers may yield different results. RVM-88
14. Testing done by AMD performance labs January 10, 2017. Using Firestrike @ 1080p, PC Mark Content Creation, Cinebench (nT), DOTA 2 @ 1080p, GPU + Graphics TDP. Ryzen System scored 536, 3076, 606, 67 fps, 15W respectively. Intel System + Nvidia Graphics scored 353, 2752, 506, 30 fps, 33W respectively. All scores are an average of 3 runs with the same settings. Ryzen System: Ryzen 5 2500u, 2x4GB DDR4-2400, Radeon Vega, Radeon Driver 17.30, Windows 10. Intel System + Nvidia Graphics: Intel Core i5 8250u , 2x4GB DDR4-2400, MX130, Nvidia Driver 390.65, Windows 10. Different configurations and drivers may yield different results. RVM-89
15. Testing done by AMD performance labs January 10, 2017 . Using Firestrike @ 1080p, PC Mark Content Creation, Cinebench (nT), Wolfenstein 2 Low settings @ 1080p, GPU + Graphics TDP. Ryzen System scored 990, 3404, 660, 41 fps, 15W respectively. Intel System + Nvidia Graphics scored 1162, 3321, 514, 30 fps, 35W respectively. All scores are an average of 3 runs with the same settings. Ryzen System: Ryzen 7 2700u, 2x4GB DDR4-2400, Radeon Vega, Radeon Driver 17.30, Windows 10. Intel System + Nvidia Graphics: Intel Core i7 8550u , 2x4GB DDR4-2400, MX150, Nvidia Driver 390.65, Windows 10. Different configurations and drivers may yield different results. RVM-90
16. Based on AMD testing as of 10/11/2017. Battery life targets for the AMD Ryzen™ Processor with Radeon™ Graphics assume a fully power-optimized software/hardware solution stack, and the following system configuration: AMD Reference Platform, AMD Ryzen™ 7 2700U, 2x4GB DDR4-2400, graphics driver 17.30.1025, Windows 10 x64 (1703). Assuming a 50 Wh battery capacity, MobileMark 14 battery life for the optimized Ryzen 7 2700U playback is estimated at 13.5 hours. Different configurations and drivers may yield different results. AMD Ryzen™ 7 2700U: AMD Reference Platform, AMD Ryzen™ 7 2700U, 2x4GB DDR4-2400, graphics driver 17.30.1025, Windows 10 x64 (1703) RVM-51
17. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. 3DMark® 11 Performance is used to simulate system performance; the AMD Ryzen™ 7 2700U scored 4357, while the Intel i7-8550U scored 1937 for a benchmark score comparison of $4357/1937 = 2.25X$ or 125% faster and the Intel i7-7500U scored 1743 for benchmark score comparison of $4357/1743 = 2.50X$ or 150% faster. AMD Ryzen™ 7 2700U: HP Envy x360 @25W, AMD Ryzen™ 7 2700U Processor with Radeon™ Vega 10 Graphics, 8GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.2, 06-Sep-2017. Intel Core i7-8550U: Acer Swift 3, Intel Core i7-8550U with Intel UHD Graphics 620 @15W, 16GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.20.16.4771, 12-Aug-2017. Intel Core i7-7500U: HP Envy x360, Intel Core i7-7500U with Intel HD Graphics 620 @15W, 8GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.20.16.4691 , 01-Jun-2017. RVM-12
18. Testing by AMD Performance labs. Cinebench R15 nT is used to simulate multi-thread CPU performance; the AMD Ryzen™ 7 2700U scored 660.50, while the Intel i7-8550U scored 514.17 for a benchmark score comparison of $660.50/514.17 = 1.28X$ or 28% faster and the Intel i7-7500U scored 325.19 for benchmark score comparison of $660.50/325.19 = 2.03X$ or 103% faster. System Configurations AMD Ryzen™ 7 2700U: HP 83C6, AMD Ryzen™ 7 2700U Processor with Radeon™ RX Vega 10 Graphics, 8GB (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.2, 06-Sep-2017 i7-8550U: HP 827F, i7-8550U Processor with Intel UHD Graphics 620 , 8GB Dual Channel (2x4GB) DDR4-2400 RAM, LITEON CA1-8D256-HP , Windows 10 Pro RS2, Graphics driver 22.20.16.4771, 12-Aug-2017 Intel Core i7-7500U: HP Envy x360, Intel Core i7-7500U with Intel HD Graphics 620 @15W, 8GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.20.16.4691 , 01-Jun-2017 PC manufacturers may vary configurations yielding different results. RVM-93

FOOTNOTES

19. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. PCMark 10 Extended is used to simulate system performance; the AMD Ryzen™ 5 2500U scored 2987, while the Intel i5-8250U scored 2814 for a benchmark score comparison of $2987/2814 = 1.06X$ or 6% faster performance. AMD Ryzen™ 2500U Processor: HP 83C6, AMD Ryzen™ 2500U Processor with AMD Radeon™ Vega 8 Graphics, 8GB DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.19.655.2, 06-Sep-2017. Intel i5-8250U: Swift 3, Intel i5-8250U with Intel UHD Graphics 620, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 22.20.16.4771, 12-Aug-2017. RVM-32
20. Based on AMD Performance Labs testing as of 1/10/2018. Performance based on Cinebench R15 nT in order of Ryzen 3 2300U, i3-7130U. Cinebench R15 nT results: 466, 291.43 giving $466/291.43 = 1.60X$, or 160%, or 60% more performance. System Configurations: AMD Ryzen™ 3 2300U: AMD Reference Platform, AMD Ryzen™ 3 2300U Mobile Processor with Radeon™ Vega 6 Graphics, 8GB Dual Channel (2x4GB) DDR4-2400 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS3, Graphics driver 23.20.768.0, 05-Dec-2017 i3-7130U: HP 8310, i3-7130U with Intel UHD Graphics 620, 8GB Dual Channel (2x4GB) DDR4-2133 RAM, Samsung 850 PRO 512GB SATA SSD, Windows 10 Pro RS2, Graphics driver 23.20.16.4901, 12/17/2017 Different configurations and drivers may yield different results. RVM-73
21. Testing done by AMD performance labs January 23, 2017. Using 3DMark Timespy, Ryzen 7 2700U, 2x4GB DDR4-2400, AMD Driver 17.30.1025.1 and Windows 10 scored 990. Intel i7-8550U, 12 GB DDR4, Nvidia MX150, Nvidia driver 390.65 and windows 10 scored 1162. Intel i7-8550U, 2x8GB DDR4-2400, Intel UHD graphics 620, Intel driver 22.20.16.4771 and Windows 10 scored 431. Different configurations may yield different results. RVM-87

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