

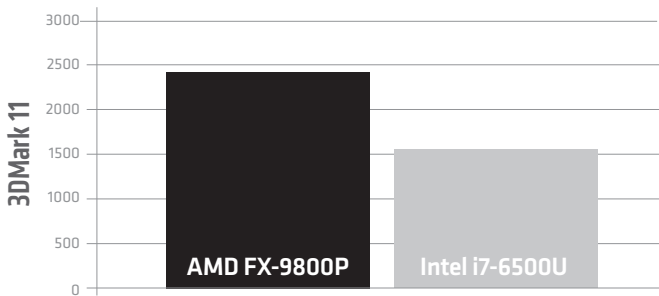
# AMD FX-9800P Quad-Core vs. Intel i7-6500U Dual-Core Battlecard

UP TO

53%

## BETTER GRAPHICS PERFORMANCE

Compared to Intel i7-6500U<sup>1</sup>



The Most Powerful  
Notebook APU -  
Engineered for the  
Ultimate PC Experience

**BETTER GRAPHICS.<sup>1</sup> BETTER OFFICE  
PRODUCTIVITY.<sup>2</sup>**

The new 7th Generation AMD FX APU delivers  
the experience you want:

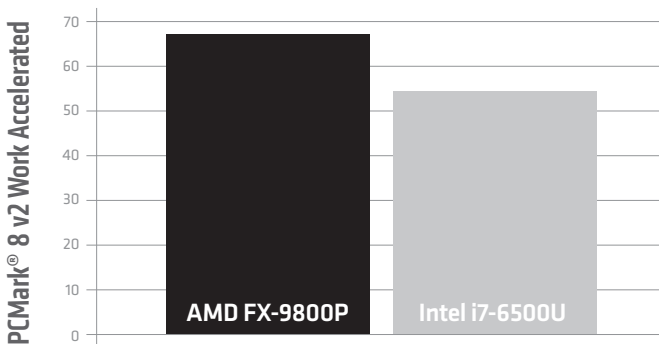
- ▶ Enhanced HD video streaming
- ▶ Best-in-class gaming<sup>3</sup>
- ▶ Watch or edit 4K Videos

UP TO

3%

## BETTER OFFICE PRODUCTIVITY

Compared to Intel i7-6500U<sup>2</sup>



### AMD Advantage:

#### AMD RADEON™ R-SERIES GRAPHICS

Delivering dependable online gaming with DirectX™ 12 support  
that enables the latest games in Windows 10!

#### AMD DUAL GRAPHICS<sup>4</sup>

Push graphics and gaming performance to the extreme with the  
power of two.\*

#### VIRTUAL SUPER RESOLUTION<sup>5</sup>

Visual quality that rivals up to 4K, even on a 1080p display.

#### VP9 STREAMING DECODE<sup>6</sup>

Reduces video file size for smooth and efficient 4K streaming.

\* Requires compatible Radeon™ discrete graphics card.

# POWERING THE PRODUCTS YOU LOVE.

## GREAT FOR:



PHOTO EDITING



MOVIES



GAMING



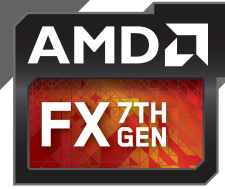
MUSIC



WEB



VIDEO EDITING



7th Generation AMD FX™ APUs provide Quad-Core performance – paired with the same graphics DNA found in the latest game consoles – to enable visuals in up to Ultra HD 4K, enthusiast-level gaming experiences and outstanding productivity from technology engineered to maximize your DirectX® 12 and Windows® 10 experience. From work to play, AMD powers the products you love.



## INCREDIBLE VISUAL EXPERIENCES

- ▶ Superior gaming at home or on the go via Graphics Core Next architecture and support for DirectX® 12 and Vulkan™ APIs.
- ▶ Automatically boost video quality for enhanced color, contrast and resolution for all of your favorite photos with AMD Perfect Picture technology.<sup>7</sup>
- ▶ Smooth, fluid video and long battery life for Ultra HD and silky smooth streaming with HEVC Accelerated Decode.<sup>8</sup>



## WORK FASTER, PLAY LONGER

- ▶ Advanced power management technologies intelligently deliver power when you need it and conserve it when you don't.
- ▶ AMD Turbo Core technology dynamically boosts performance on demand to provide extra performance when you need it most.
- ▶ Set your maximum gaming frame rate with Frame Rate Target Control to help save power, and reduce heat and noise.<sup>9</sup>

## BENCHMARKS

### What is 3DMark?

It's an essential tool used by millions of gamers, hundreds of hardware review sites and many of the world's leading manufacturers to measure PC gaming performance. ([www.3dmark.com](http://www.3dmark.com))

### What is PCMark 8?

Whether you are looking for long battery life, or maximum power, PCMark 8 will help you find the devices that offer the perfect combination of efficiency and performance for your needs. ([www.futuremark.com](http://www.futuremark.com))

For more information, visit [www.amd.com/APU](http://www.amd.com/APU)

1. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. 3DMark 11 Performance is used to simulate gaming performance; the 7th Generation AMD FX™ @15W scored 2424.5 while the Intel® Core i7-6500U scored 1585.75, for a benchmark score difference of 2424.25/1585.75 = 1.53X or 53%. BRN-57. 7th Gen AMD FX™ 9800P: AMD "Gardenia" platform, FX 9800P with AMD Radeon R7 Graphics, 2x4096 DDR4-1866 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 16.101.0.0 2016-01-31 i7-6500U: ASUS X555UA, i7-6500U with Intel(R) HD Graphics 520, 2x4096 DDR3-1600 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 20.19.15.4352 2015-12-14

2. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. PCMark® 8 v2 Work Accelerated is used to simulate system performance; the AMD FX™ 9800P scored 4407.5, while the Intel i7-6500U scored 4275.75 for a benchmark score comparison of 4407.5/4275.75 = 1.03X or 3% more. BRN-62. 7th Gen AMD FX™ 9800P: AMD "Gardenia" platform, FX 9800P with AMD Radeon R7 Graphics, 2x4096 DDR4-1866 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 16.101.0.0 2016-01-31 i7-6500U: ASUS X555UA, i7-6500U with Intel(R) HD Graphics 520, 2x4096 DDR3-1600 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 20.19.15.4352 2015-12-14

3. Testing by AMD Performance labs. PC manufacturers may vary configurations yielding different results. 3DMark® Firestrike Performance is used to simulate graphics performance. The 7th Gen AMD FX™ 9800P scored 1476.25, while the Intel i7-6500U scored 857.5. The 7th Gen AMD A12-9700P scored 1222.25, while the Intel i5-6200U scored 881.75. The 7th Gen AMD A10-9600P scored 1216.5, while the Intel i3-6100U scored 795. The 7th Gen AMD A9-9410 scored 678.5, while the single channel Intel i3-6100U scored 610. The 7th Gen AMD A6-9210 scored 587, while the Intel Pentium 4405U scored 519. The 7th Gen AMD E2-9010 scored 478.25, while the Intel Pentium N3700 scored 256.75. SRN-77. 7th Gen AMD FX™ 9800P: AMD "Gardenia" platform, AMD FX™ 9800P with Radeon™ R7 Graphics, 2x4096 DDR3-1866 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 20.19.15.4352 2015-12-14. 7th Gen AMD A12-9700P: AMD "Gardenia" platform, AMD A12-9700P with Radeon™ R7 Graphics, 2x4096 DDR4-1866 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 16.101.0.0 2016-01-31. i5-6200U: HP EliteBook 840 G3, i5-6200U with Intel® HD Graphics 520, 2x4096 DDR4-2133 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 20.19.15.4331 2015-11-19. 7th Gen AMD A10-9600P: AMD "Gardenia" platform, AMD A10-9600P with Radeon™ R5 Graphics, 2x4096 DDR4-1866 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 16.101.0.0 2016-01-31. i3-6100U: HP Pavilion dv6 Notebook PC, i3-6100U with Intel® HD Graphics 520, 2x4096 DDR3-1600 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 16.101.1501.0 2016-02-29. i3-6100U: HP Pavilion x360 Convertible, i3-6100U with Intel® HD Graphics 520, 1x4096 DDR3-1600 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Enterprise, Graphics driver 20.19.15.4300 2015-09-30. 7th Gen AMD A6-9210: AMD "Gardenia" platform, AMD A6-9210 with Radeon™ R4 Graphics, 1x4096 DDR4-2133 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 16.101.1501.0 2016-02-29. 4405U: HP ProBook 450 G3, 4405U with Intel(R) HD Graphics 510, 2x4096 DDR3-1600 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 20.19.15.4390 2016-02-17. 7th Gen AMD E2-9010: AMD "Gardenia" platform, AMD E2-9010 with Radeon™ R2 Graphics, 1x4096 DDR4-1866 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 16.101.1501.0 2016-02-29. N3700: TOSHIBA Satellite C55-C, N3700 with Intel® HD Graphics, 1x4096 DDR3-1600 RAM, 244GB SSD Drive (Non-rotating), Microsoft Windows 10 Pro, Graphics driver 20.19.15.4320 2015-11-05 BRN-75

4. AMD Radeon™ Dual Graphics requires one of select AMD A-Series APUs plus one of select AMD Radeon™ discrete graphics cards and is available on Windows® 7 and/or Windows 8 OS. Linux OS supports manual switching which requires restart of X-Server to engage and/or disengage the discrete graphics processor for dual graphics capabilities. With AMD Radeon™ Dual Graphics, full enablement of all discrete graphics video and display features may not be supported on all systems and may depend on the master device to which the display is connected. Check with your component or system manufacturer for specific mode capabilities and supported technologies. GD-12

5. AMD Virtual Super Resolution (VSR) feature is designed to render games at higher resolutions and dynamically rescale them for HD displays at higher quality and visual details. Check with your system manufacturer for specific capabilities. GD-8

6. <http://www.webmproject.org/>

7. AMD Perfect Picture is a set of image, video processing and display post-processing technologies designed to provide smooth video playback, advanced de-interlacing, dynamic contrast adjustment, color vibrancy, noise reduction and edge enhancement that provides brilliant colors and sharp images when playing Blu-ray and other content on your PC. AMD Perfect Picture includes AMD Steady Video technology designed to eliminate shakes and jitters during the playback of home video. It is not designed to (a) isolate overlays, logos or captions, or (b) improve the playback of letter boxed, premium/commercial, or interlaced content. AMD Steady Video is recommended for use with videos that contain unwanted shakes and jitters. Users may turn on this technology via the AMD Catalyst Control Center™. GD-63

8. HEVC acceleration is subject to inclusion/installation of compatible HEVC players. GD-81

9. Frame Rate Target Control is an AMD technology designed to reduce heat, noise and power consumption by letting users set a maximum frame rate for their games and applications. Not currently compatible with AMD Dual Graphics multi-GPU configurations. Confirm supported technologies with system manufacturer before purchase. GD-77

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