

2ND GEN AMD RYZEN™ DESKTOP PROCESSORS- GOOD BETTER BEST

YOU CAN DO IT ALL WITH 2ND GEN AMD RYZEN™ DESKTOP PROCESSORS. FROM GAMING, STREAMING, DESIGNING, TO CREATING.

Need a little extra to help bring your imagination to life? See which Ryzen™ processor is right for you:



● = BEST ◐ = BETTER ○ = GOOD

FUNCTIONALITY	RYZEN™ 7 2700X	RYZEN™ 7 2700	RYZEN™ 5 2600X	RYZEN™ 5 2600
CONTENT CREATION (3D rendering, media editing & encoding, and photo editing)	●	●	◐	◐
GAME STREAMING	●	●	◐	◐
SMOOTH TEAR-FREE GAMING	●	◐	●	◐
IN BOX COOLER*	WRAITH PRISM W/RGB LED	WRAITH SPIRE W/RGB LED	WRAITH SPIRE	WRAITH STEALTH

The latest revolutionary AMD multi-threaded processing technology gives you blazing fast performance when you work or play, or do both at the same time.

All 2nd Gen Ryzen processors provide the power needed to do all of this and more:



Multitasking



Watching Videos



VR-Ready Premium



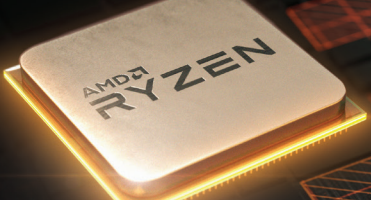
Watchin Web Browsing, Email, and Social Media



Secure Encryption

*Wraith Cooler is included when purchasing a 2nd Gen Ryzen™ processor in a box (PIB), not a pre-configured OEM system.

This chart illustrates relative product positioning on key functionality and is not necessarily an indication of relative performance. Performance may vary by application.



THESE TECHNOLOGIES ARE AVAILABLE FOR ALL 2ND GEN AMD RYZEN™ PROCESSORS

AMD SenseMI Technology

PERFORMANCE THAT THINKS

Every AMD Ryzen™ processor features **AMD SenseMI Technology**, a series of smart “senses” that work together to learn about your applications and tune performance in the blink of an eye.¹



Extended Frequency Range 2 (XFR 2)

Take advantage of premium cooling to improve performance.²



Precision Boost 2

Performance is adjusted in real time to meet demands of your game or workload.



Neural Net Prediction

True Machine Intelligence anticipates your system’s needs, improving workflow and boosting performance.



Pure Power

Sensors monitor CPU temperature, resource usage, and power draw to bring cool and quiet operation.



Smart Prefetch

Algorithms understand your applications and anticipate what data they might need, enabling fast and responsive computing.

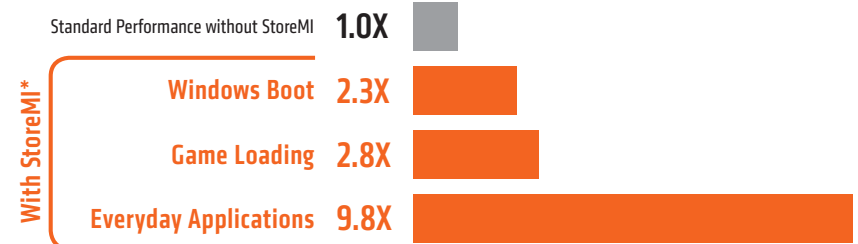


ADVANCED STORAGE ACCELERATION TECHNOLOGY
FREE WITH 2ND GEN AMD RYZEN™ THREADRIPPER PROCESSORS

StoreMI Technology combines the speed of your SSD with the capacity of your Hard Disk for a single, convenient, high-performance storage solution.³

It also helps launch applications an average of 4.58x faster⁴ to help improve your productivity. StoreMI Technology can be installed, upgraded, and reversed at any time and is compatible with any storage device.

Benchmarks^{4,5,6}



Learn more at <https://www.AMD.com/en/technologies/store-mi>

FOR MORE INFORMATION, VISIT AMD.COM/RYZEN

1. 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>. GD-126
2. Overclocking AMD processors, including without limitation, altering clock frequencies / multipliers or memory timing / voltage, to operate beyond their stock specifications will void any applicable AMD product warranty, even when such overclocking is enabled via AMD hardware and/or software. This may also void warranties offered by the system manufacturer or retailer. Users assume all risks and liabilities that may arise out of overclocking AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106
3. As measured by AMD Performance Labs with the Iometer throughput storage test on 3/22/2018. 1MB Read performance of a 7200 RPM Western Digital Black HDD: 139 MBps. 1MB Read performance of a Samsung 850 Pro: 553 MBps. 1MB Read performance of an AMD StoreMI configuration that fuses the aforementioned HDD and SSD into a single virtual storage device: 553 MBps. System configuration: AMD Reference Motherboard + AMD Ryzen™ 7 2700X, 2x8GB DDR4-3200 (16-16-16-36), 128GB Samsung 850 Pro SSD, 1TB Western Digital Black HDD, GeForce GTX 1080 (driver 390.77), Windows® 10 Pro RS3, AMD StoreMI Technology beta. Results may vary by system configuration and driver version. RZ2-13
4. As tested by AMD Performance Labs with the PCMark® 10 application launch sub-test on 3/22/2018. Scores presented in order of HDD vs. AMD StoreMI with HDD+NVMe SSD+RAM (uplift%). Chrome: 4.232 vs. 0.432 (980%/9.8X faster); Writer: 12.06 vs. 1.729 (697%/6.97X faster); GIMP: 5.73 vs. 2.383 (240%/2.4X faster); Firefox: 4.27 vs. 1.19 (359%/3.59X faster). Average of all results: 458%/4.58X faster for AMD StoreMI. System configuration: AMD Reference Motherboard + AMD Ryzen™ 7 2700X, 2x8GB DDR4-3200 (16-16-16-36), 512GB Samsung 960 Pro NVMe SSD, 1TB Western Digital Black HDD, GeForce GTX 1080 (driver 390.77), Windows® 10 Pro RS3, AMD StoreMI Technology beta. Results may vary by system configuration. RZ2-15
5. As tested by AMD Performance Labs in the World of Warcraft® application on 3/22/2018. Test procedure: character selection screen to playable input in the Stormshield zone (Warlords of Draenor expansion). Storage Comparison: HDD vs. AMD StoreMI technology with HDD+NVMe SSD+2GB RAM in a fused virtual drive. Load time(s): 41.37 seconds for HDD, 14.74 seconds for StoreMI configuration (180%/2.8X faster). System configuration: AMD Reference Motherboard + AMD Ryzen™ 7 2700X, 2x8GB DDR4-3200 (16-16-16-36), 512GB Samsung 960 Pro NVMe SSD, 1TB Western Digital Black HDD, GeForce GTX 1080 (driver 390.77), Windows® 10 Pro RS3, AMD StoreMI Technology beta. Results may vary by system configuration. RZ2-14
6. Testing done by AMD performance labs April 23, 2018 using an Ryzen 7 2700X, 2x8GB DDR4-3000, Nvidia Driver 391.35 and Windows 10. PC manufacturers may vary configurations yielding different results. Using BF1 ultra settings @ 1080p, COD: WWII @ 1080p, Far Cry 5 ultra settings @ 1080p, Star Wars Battlefront 2 ultra settings @ 1080p, Destiny 2 Highest settings @ 1080p, Nvidia GTX 1080 scored 131.8 fps, 142.2 fps, 102 fps, 125 fps, 138 fps, respectively. All scores in average FPS and are an average of 3 runs with the same settings. Performance may vary based on use of latest drivers. RZ2-35

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