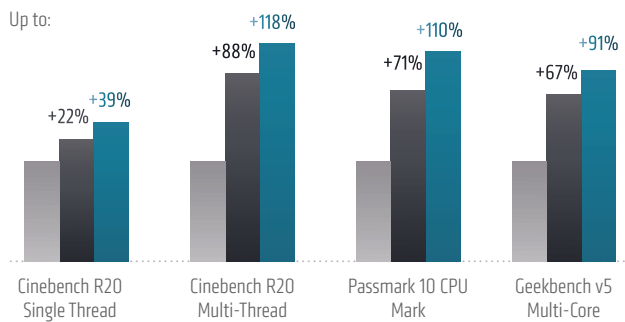


AMD RYZEN™ PRO 5000 SERIES PROCESSORS ELEVATING BUSINESS COMPUTING



Packed with up to 8 high-performance cores, multi-layered security features, and enterprise-grade quality and manageability features, the next generation desktops powered by AMD Ryzen™ PRO 5000 Series processors with new “Zen 3” architecture deliver uncompromised performance and power efficiency.

GENERATIONAL IMPROVEMENT

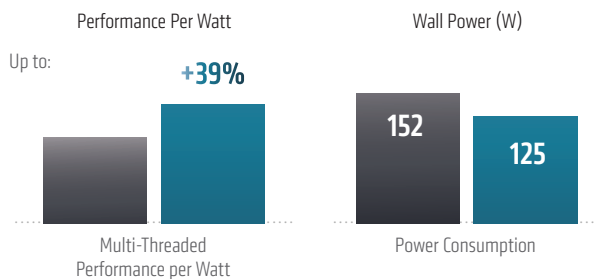


Boasting double-digit uplift in performance over the previous generation, AMD Ryzen™ PRO 5000 Series processors continue to push the limits of modern capability while delivering greater productivity and efficiency.

- AMD Ryzen™ 5 PRO 5650G
- AMD Ryzen™ 5 PRO 4650G
- AMD Ryzen™ 5 PRO 3400G

See endnote 1

SMALL SIZE IS BIG BUSINESS



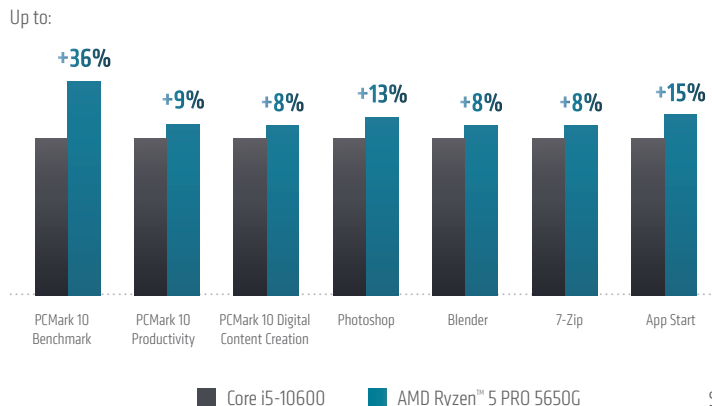
In addition to productivity performance uplifts, the refined “Zen 3” architecture of AMD Ryzen™ PRO 5000 Series processors also sees significant improvements in power efficiency – squeezing greater performance out of every watt.

- Intel Core i7-11700 8C16T
- AMD Ryzen™ 7 PRO 5750G 8C16T

See endnote 2

LEADERSHIP SYSTEM PERFORMANCE

AMD Ryzen™ 5 PRO delivers powerhouse productivity, beating the competition's latest at broad productivity benchmarks, MS office performance, and faster app start up, meaning work gets done faster with AMD powered desktops.



- Core i5-10600
- AMD Ryzen™ 5 PRO 5650G

See endnote 3

AMD PRO ADVANTAGE

AMD PRO VS INTEL VPRO		
Enabled on every PRO processor from AMD	✓	Available only on select Intel processors X
Can manage both AMD & Intel PCs	✓	Can manage only specific Intel vPro systems X
Allows IT managers to build a PC fleet right for their business	✓	Locks IT managers into limited system options X
Built on open industry standards	✓	Intel proprietary X
Equivalent deployment steps and deployment time		

See <https://www.pricedtech.com/AMD/Ryzen-5-PRO-deployment-competitive-combined-0321.pdf>

ADVANCED MULTI-LAYERED SECURITY

AMD PRO security provides innovative layers of defense at the silicon, OS, and platform levels to give IT teams comprehensive security features for the entire system.

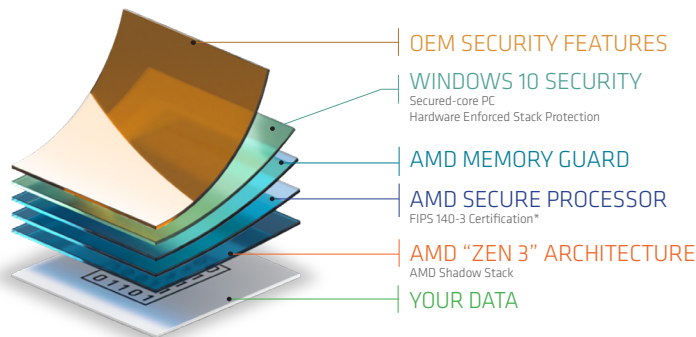
NEW IN AMD RYZEN™ PRO 5000 SERIES

AMD Shadow Stack
delivers a robust security approach to help add protection against control-flow attacks.

Secured-core PC
Deep integration with Microsoft and OEMs to support secure Windows PCs.

FIPS 140-3* Certification
Government encryption standard adopted by private sector as best practice for validating the security of cryptographic hardware.

*FIPS 140-3 implementation under test



BUILT FOR PROFESSIONALS

"Zen 3" architecture delivers higher frequencies, higher instructions per clock, and lower latency

High-performance 8-Core x86 CPU with both 65W and 35W TDP options

See endnote 5



Refined 7nm process technology delivers exceptional performance per watt

AMD PRO technologies:
AMD PRO security
AMD PRO manageability
AMD PRO business ready

PROCESSOR STACK

AMD RYZEN PRO	CORES/THREADS	FREQUENCY	PROCESS	CACHE	TDP	AMD PRO TECHNOLOGIES	INTEL COMPARISON ⁶
G-Series Desktop							
Ryzen™ 7 PRO 5750G	8/16	Up to 4.6/3.8 GHz	7nm	20 MB	65W	✓	Core i7-11700
Ryzen™ 5 PRO 5650G	6/12	Up to 4.4/3.9 GHz	7nm	19 MB	65W	✓	Core i5-11600
GE-Series Desktop							
Ryzen™ 7 PRO 5750GE	8/16	Up to 4.6/3.2 GHz	7nm	20 MB	35W	✓	Core i7-11700T
Ryzen™ 5 PRO 5650GE	6/12	Up to 4.4/3.4 GHz	7nm	19 MB	35W	✓	Core i5-11600T

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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

1.CPD-15: Testing as of 3/9/2021 by AMD Performance Labs utilizing a system with Ryzen 5 3400G processor, Vega 11 Graphics, 16GB RAM - 3200, Samsung 970 Pro Drive with Win Pro vs. Reference Design with AMD Ryzen™ 5 5650G processor, Radeon™ Graphics, 16GB RAM - 3200, Samsung 970 Pro Drive with Win Pro Using the following tests: CineBench R20 1-thread, CineBench R20 n-thread, Cinebench R23 1-thread, Cinebench R23 n-thread, Geekbench v5 (5.3.1) Multi-Core Score (64-bit), Passmark 10 Rating (Overall), Passmark 10 CPU Mark, PCMark™ 10 Benchmark, PCMark™ 10 Extended, PCMark™ 10 Essentials Test Group, PCMark™ 10 Productivity Test Group, PCMark™ 10 Digital Content Creation Test Group, PCMark™ 10 Gimp Cold App Startup (TTC) seconds, PCMark™ 10 APP Performance Overall, PCMark™ 10 App Performance, Word, PCMark™ 10 App Performance, Excel, PCMark™ 10 App Performance, PPT, PCMark™ 10 App Performance, Edge, Puget Photoshop Overall Score, Puget Photoshop General Score, Sysmark 25 Rating (Overall), Sysmark 25 Productivity, Sysmark 25 Creativity, Sysmark 25 Responsiveness, 7zip TotalRating-(MIPS), POV Ray nT (Rendered Average), POV Ray 1T (Rendered Average), Blender Bench CPU-ClassRoom (TTC)-sec. The composite geometric mean score is an average which indicates the typical value of the benchmark results. PC manufacturers may vary configurations yielding different results. Results may vary. PCMark™ is a registered trademark of Futuremark Corporation.CPD-15

2. CPD-13: Testing as of 4/12/2021 by AMD Performance Labs utilizing a system with a Core i7-11700 processor, Intel® UHD Graphics 750, 16GB RAM - 3200, Samsung 970 Pro Drive with Win Pro vs. Gigabyte Board with Core i7-10700 processor, Intel® UHD Graphics 630, 16GB RAM - 2933, Samsung 970 Pro Drive with Win Pro vs. a reference design board with a AMD Ryzen™ 7 5750G PRO processor, Radeon™ Graphics, 16GB RAM - 3200, Samsung 970 Pro Drive with Win Pro. Performance per Watt calculation is based on Cinebench R20nT scores divided by performance per watt of system power consumption measured during testing. PC manufacturers may vary configurations yielding different results. Results may vary. CPD-13

3.CPD-04: Testing as of 3/9/2021 by AMD Performance Labs utilizing Gigabyte Channel Board with Core i5-10600 processor, Intel® UHD Graphics 630, 16GB RAM - 2666, Samsung 970 Pro Drive with Win Pro vs. Reference Design with AMD Ryzen™ 5 5650G processor, Radeon™ Graphics, 16GB RAM - 3200, Samsung 970 Pro Drive with Win Pro Using the following tests: CineBench R20 1-thread, CineBench R20 n-thread, Geekbench v5 (5.3.1) Multi-Core Score (64-bit), Passmark 10 CPU Mark, PCMark™ 10 Benchmark, PCMark™ 10 Digital Content Creation Test Group, PCMark™ 10 Gimp Cold App Startup (TTC) seconds, PCMark™ 10 APP Performance Overall, PCMark™ 10 App Performance, Word, PCMark™ 10 App Performance, Excel, PCMark™ 10 App Performance, PPT, PCMark™ 10 App Performance, Edge, Puget Photoshop General Score, Blender Bench CPU-ClassRoom (TTC)-sec. PC manufacturers may vary configurations yielding different results. Results may vary. PCMark™ is a registered trademark of Futuremark Corporation.CPD-04

5. Testing by AMD performance labs as of 09/01/2020. IPC evaluated with a selection of 25 workloads running at a locked 4GHz frequency on 8-core "Zen 2" Ryzen 7 3800XT and "Zen 3" Ryzen 7 5800X desktop processors configured with Windows® 10, NVIDIA GeForce RTX 2080 Ti (451.77), Samsung 970 Pro SSD, and 2x8GB DDR4-3600. Results may vary. R5K-003

6.This chart illustrates competitive product positioning, is not necessarily an indication of relative performance and may not be to scale for any performance metric. GD-75

"Zen 3" is a codename only and not an AMD product name.

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