

AMD RYZEN™ 5 PRO 5650U SERIES MOBILE PROCESSOR

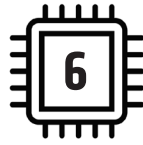


OUTCLASSING THE COMPETITION

DON'T SETTLE FOR LESS - Choose an AMD Ryzen™ 5 PRO over Intel® Core™ i7 for the performance edge.



Built on 7nm “Zen 3” architecture for processor performance leadership and incredible battery life.



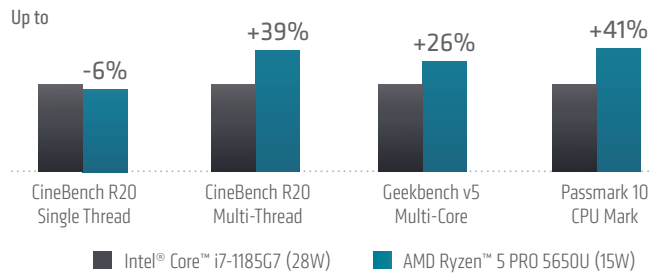
The AMD Ryzen™ 5 PRO 5650U offers the most cores in its class for ultrathin notebooks.¹



Up to 39% higher multi-thread performance vs the competition.²

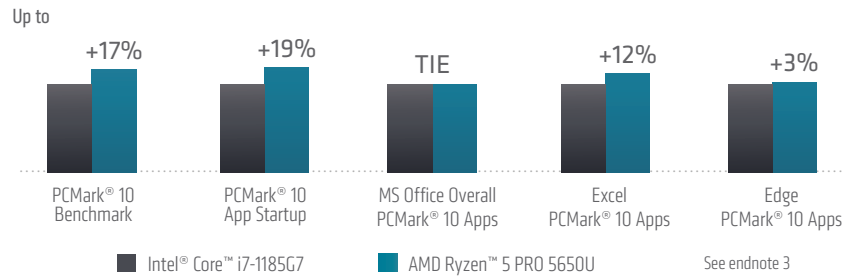
LEADERSHIP CPU PERFORMANCE

Choose AMD Ryzen™ 5 PRO 5650U for 6 cores and 12 threads of pure performance.



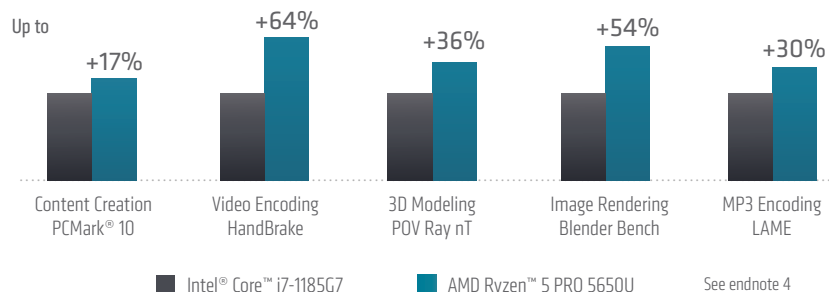
POWERHOUSE PRODUCTIVITY

From app startup to Microsoft Office, get more done faster with the AMD Ryzen™ 5 PRO 5650U.



INSPIRING CREATIVITY

Render, encode, and create faster than the competition with an AMD Ryzen™ 5 PRO 5650U.



THE MOST MODERN 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.

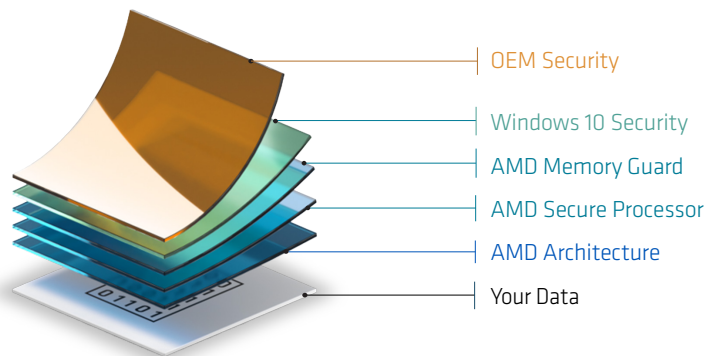
AVAILABLE IN AMD RYZEN™ PRO 5000 SERIES

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

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

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

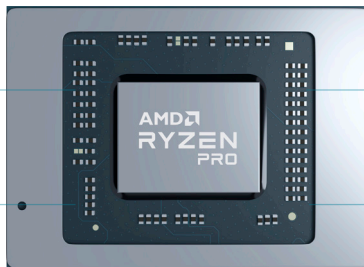
FIPS 140-3 Implementation Under Test



BUILT FOR PROFESSIONALS

“Zen 3” architecture delivers higher frequencies and higher instructions per clock vs previous generation

The only high performance 8-Core x86 CPU



Refined 7nm process technology delivers leadership performance and uncompromising battery life

AMD PRO technologies:

- AMD PRO security
- AMD PRO manageability
- AMD PRO business ready

AMD RYZEN PRO 5000 SERIES VS COMPETITION

AMD RYZEN PRO	CORES/ THREADS	PROCESS	L2 + L3 CACHE	TDP	AMD PRO TECHNOLOGIES
Ryzen™ 7 PRO 5850U	8/16	7nm	20 MB	15W	✓
Ryzen™ 5 PRO 5650U	6/12	7nm	19 MB	15W	✓
Ryzen™ 3 PRO 5450U	4/8	7nm	10 MB	15W	✓

INTEL vPRO	CORES/ THREADS	PROCESS	CACHE	TDP	vPRO
i7-1185G7	4/8	10nm	17 MB	28W	✓
i5-1145G7	4/8	10nm	13 MB	28W	✓

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To find out more about AMD Ryzen™ PRO Processors, please visit www.AMD.com/pro

- Ryzen PRO 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 for thin and light business notebooks (15W - 28W TDP range). CZP-19
- Testing as of 2/24/2021 by AMD Performance Labs utilizing Dell Latitude 5420 with Intel Core i7-1185G7 processor, Intel(R) Iris(R) Xe Graphics, 32 GBytes RAM - 3200 MHz, PC711 NVMe SK Hynix 512GB Drive with Win Pro vs. AMD reference design with AMD Ryzen™ 5 PRO 5650U processor, ATI/AMD Cezanne - Internal GPU, 16GB LPDDR4 RAM - 4266, Samsung 970 Pro 512GB 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. PC manufacturers may vary configurations yielding different results. Results may vary CZP-30
- Testing as of 2/24/2021 by AMD Performance Labs utilizing Dell Latitude 5420 with Intel Core i7-1185G7 processor, Intel(R) Iris(R) Xe Graphics, 32 GBytes RAM - 3200 MHz, PC711 NVMe SK Hynix 512GB Drive with Win Pro vs. AMD reference design with AMD Ryzen™ 5 PRO 5650U processor, ATI/AMD Cezanne - Internal GPU, 16GB LPDDR4 RAM - 4266, Samsung 970 Pro 512GB Drive with Win Pro Using the following tests: PCMark® 10 Benchmark, PCMark® 10 Gimp Cold App Startup (TTC) seconds, PCMark® 10 Applications. PC manufacturers may vary configurations yielding different results. Results may vary. PCMark® is a registered trademark of Futuremark Corporation.CZP-31
- Testing as of 2/24/2021 by AMD Performance Labs utilizing Dell Latitude 5420 with Intel Core i7-1185G7 processor, Intel(R) Iris(R) Xe Graphics, 32 GBytes RAM - 3200 MHz, PC711 NVMe SK Hynix 512GB Drive with Win Pro vs. AMD reference design with AMD Ryzen™ 5 PRO 5650U processor, ATI/AMD Cezanne - Internal GPU, 16GB LPDDR4 RAM - 4266, Samsung 970 Pro 512GB Drive with Win Pro Using the following tests: PCMark® 10 Digital Content Creation Test Group, Hand Brake Apple TV 3 (TTC)-sec, POV Ray nT (Rendered Average), Blender Bench CPU-ClassRoom (TTC)-sec, Lame MP3 Encoder Real Time (TTC)-sec. PC manufacturers may vary configurations yielding different results. Results may vary. PCMark® is a registered trademark of Futuremark Corporation.CZP-32
- 'Most Modern Security' is defined as AMD CPUs with Microsoft Secured-Core PC - Modern Security technology enabled by the system manufacturer. Check with your system manufacturer prior to purchase. CZP-22
- R5K-003 - 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

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