

AMD RYZEN™ 9000 SERIES DESKTOP PROCESSORS

The Ultimate Advanced Processor for Fast Performance.

Built using the latest breakthrough 4nm processor technology, AMD Ryzen™ 9000 Series processors are designed to deliver ultimate efficiency life while remaining cool and quiet.

TARGET AUDIENCE



MAINSTREAM



CREATORS



GAMERS

SELL IT IN 30 SECONDS

INCREDIBLE POWER

- High-performance “Zen 5” core technology¹
- 4nm manufacturing process
- Up to 16 cores and 32 threads
- Incredible performance for both gamers and creators

LEADERSHIP TECHNOLOGIES

- Exclusive technologies and features
- AMD EXPO™ technology² with one-touch memory overclocking for more performance
- AMD Radeon™ AI capabilities

DEPENDABLE LONGEVITY

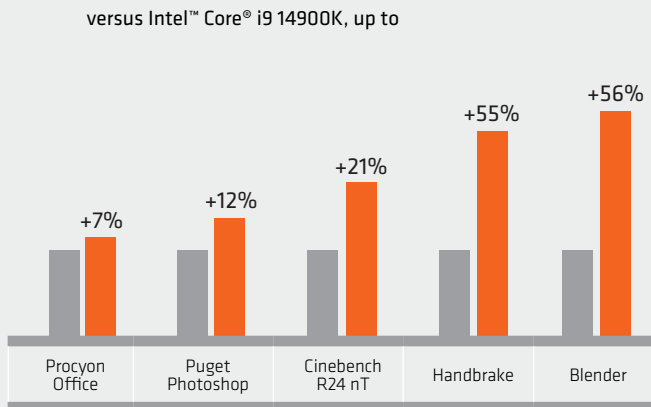
- Platform upgradability to future, next-gen processors
- Fast DDR5 memory speeds
- Incredible bandwidth with PCIe® 5.0

PRODUCT SPECIFICATIONS

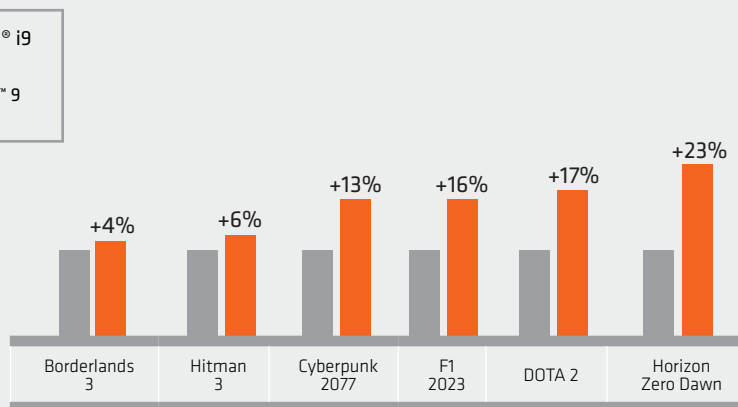
PROCESSOR	CORES/THREADS	TYPICAL TDP	MAX/BASE FREQUENCY (UP TO)	TOTAL CACHE L2 + L3	PCIe® GEN	UNLOCKED FOR OVERCLOCKING? ^{2,3}	COOLER INCLUDED	BUILT-IN AMD RADEON™ GRAPHICS	COMPETITIVE PROCESSOR
AMD Ryzen™ 9 9950X	16/32	170W	5.7 / 4.3 GHz	80 MB	5.0	Yes	No	Yes	Intel Core i9-14900K / 13900KS
AMD Ryzen™ 9 9900X	12/24	120W	5.6 / 4.4 GHz	76 MB	5.0	Yes	No	Yes	Intel Core i9-14900K / 13900K
AMD Ryzen™ 7 9700X	8/16	65W	5.5 / 3.8 GHz	40 MB	5.0	Yes	No	Yes	Intel Core i9-14700K / 13700K
AMD Ryzen™ 5 9600X	6/12	65W	5.4 / 3.9 GHz	38 MB	5.0	Yes	No	Yes	Intel Core i9-14600K / 13600K

AMD RYZEN™ 9 9950X PROCESSOR⁴

versus Intel™ Core® i9 14900K, up to



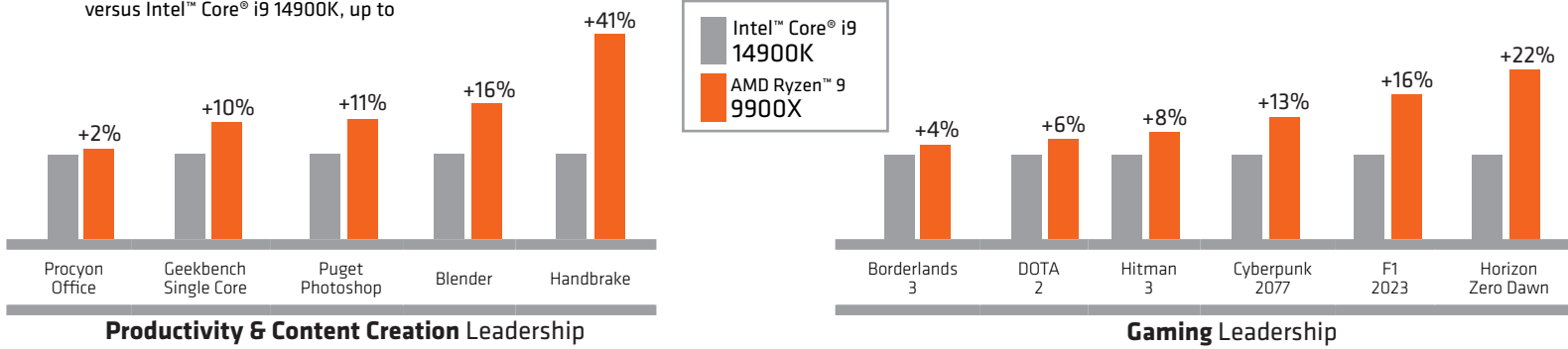
Productivity & Content Creation Leadership



Gaming Leadership

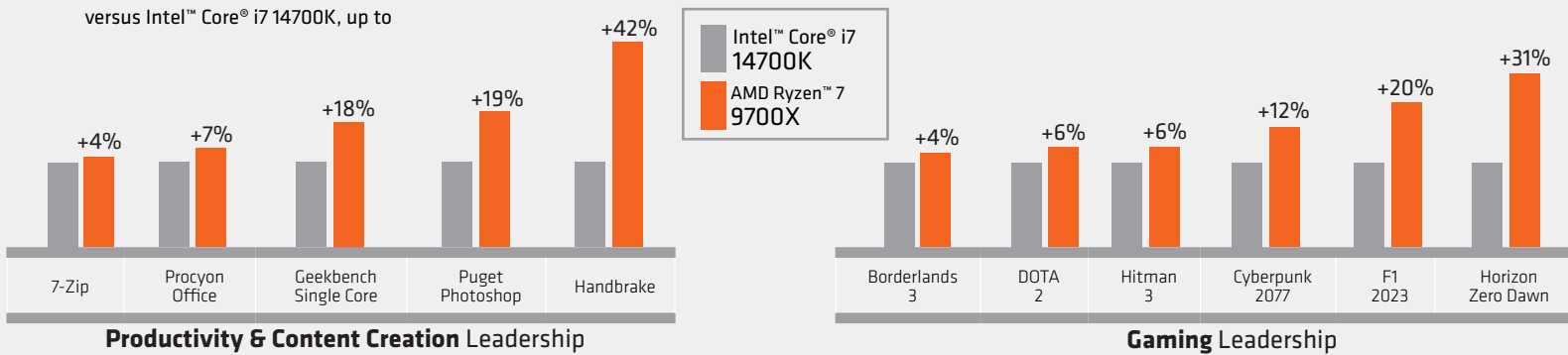
AMD RYZEN™ 9 9900X PROCESSOR⁵

versus Intel™ Core® i9 14900K, up to



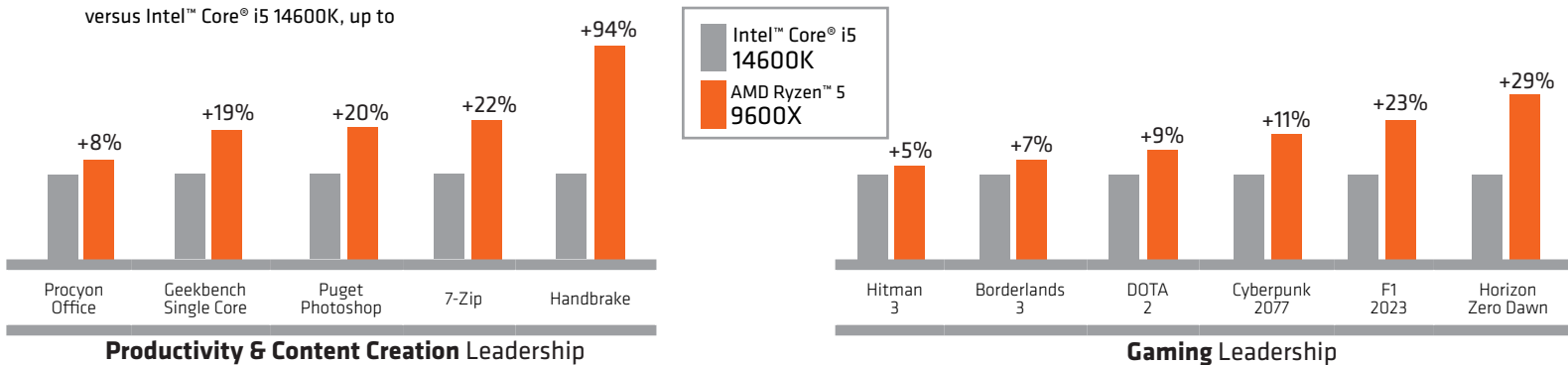
AMD RYZEN™ 7 9700X PROCESSOR⁶

versus Intel™ Core® i7 14700K, up to



AMD RYZEN™ 5 9600X PROCESSOR⁷

versus Intel™ Core® i5 14600K, up to



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- The information contained herein is for informational purposes only, and is subject to change without notice. Timelines, roadmaps, and/or product release dates shown in these slides are plans only and subject to change. "Zen 5" is a codename for AMD architecture, and is not a product name. GD-122
- Overclocking and/or undervolting AMD processors and memory, including without limitation, altering clock frequencies / multipliers or memory timing / voltage, to operate outside of AMD's published specifications will void any applicable AMD product warranty, even when 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 and/or undervolting AMD processors, including, without limitation, failure of or damage to hardware, reduced system performance and/or data loss, corruption or vulnerability. GD-106
- AMD's product warranty does not cover damages caused by overclocking, even when overclocking is enabled via AMD hardware and/or software. GD-26
- Testing as of May 2024 by AMD Performance Labs on test systems configured as follows: AMD Ryzen 9 9950X system: GIGABYTE X670E AORUS MASTER, Balanced, DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63 vs. similarly configured Intel Core i9-14900K system: MSI MEG Z790 ACE MAX (MS-7D86), Balanced, DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63, {Profile=Intel Default} on the following applications/games: 7-zip, Handbrake, LAME, Puget Photoshop (general score), Blender CPU (Classroom), Cinebench 2024 nT, Geekbench 6 nT (Text Processing), PCMark 10, PCMark 10 Extended, Passmark 11 CPUmark, Procyon Office Productivity, Procyon Photo Editing Score, Cyberpunk 2077, Dota2, F1 2023, Ghost Recon Breakpoint, Horizon Zero Dawn, Metro Exodus, League of Legends, Shadow of the Tomb Raider, Wolfenstein Youngblood, Hitman 3, Borderlands 3. System manufacturers may vary configurations, yielding different results. GNR-04
- Testing as of June 2024 by AMD Performance Labs on test systems configured as follows: AMD Ryzen 9 9900X CPU system: GIGABYTE X670E AORUS MASTER, Balanced, DDR5-6000, Radeon RX 7900 XTX GPU, VBS=On, SAM=On, KRACKENX63 vs. similarly configured Intel Core i9-14900K system: MSI MEG Z790 ACE MAX (MS-7D86), Balanced, DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63, {Profile=Intel Default} on the following applications/games: Procyon Office, Geekbench 6.2.1 Single Core, Puget Photoshop (general), Blender (classroom TTC), Handbrake TTC, Borderlands3, Dota2, Hitman3, Cyberpunk2077, F12023, and Horizon Zero Dawn. System manufacturers may vary configurations, yielding different results. GNR-06
- Testing as of June 2024 by AMD Performance Labs on test systems configured as follows: AMD Ryzen 7 9700X CPU system: GIGABYTE X670E AORUS MASTER, Balanced, DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63 vs. similarly configured Intel Core i7-14700K system: MSI MEG Z790 ACE MAX (MS-7D86), Balanced, DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63, {Profile=Intel Default} on the following applications/games: 7-Zip, Procyon Office Productivity, Geekbench 5.4.6 Single Core, Puget Adobe Photoshop, Handbrake, Borderlands3, Dota2, Hitman3, Cyberpunk2077, F12023, and Horizon Zero Dawn. System manufacturers may vary configurations, yielding different results. GNR-07
- Testing as of June 2024 by AMD Performance Labs on test systems configured as follows: AMD Ryzen 5 9600X system: GIGABYTE X670E AORUS MASTER, Balanced, DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63 vs. similarly configured Intel Core i5-14600K system: MSI MEG Z790 ACE MAX (MS-7D86), Balanced, DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63, {Profile=Intel Default} on the following applications/games: Procyon Office Productivity, Geekbench 6.2.1 Single Core, Puget Adobe Photoshop, 7-Zip, Handbrake, Hitman3, Borderlands3, Dota2, Cyberpunk2077, F12023, Horizon Zero Dawn. System manufacturers may vary configurations, yielding different results. GNR-08