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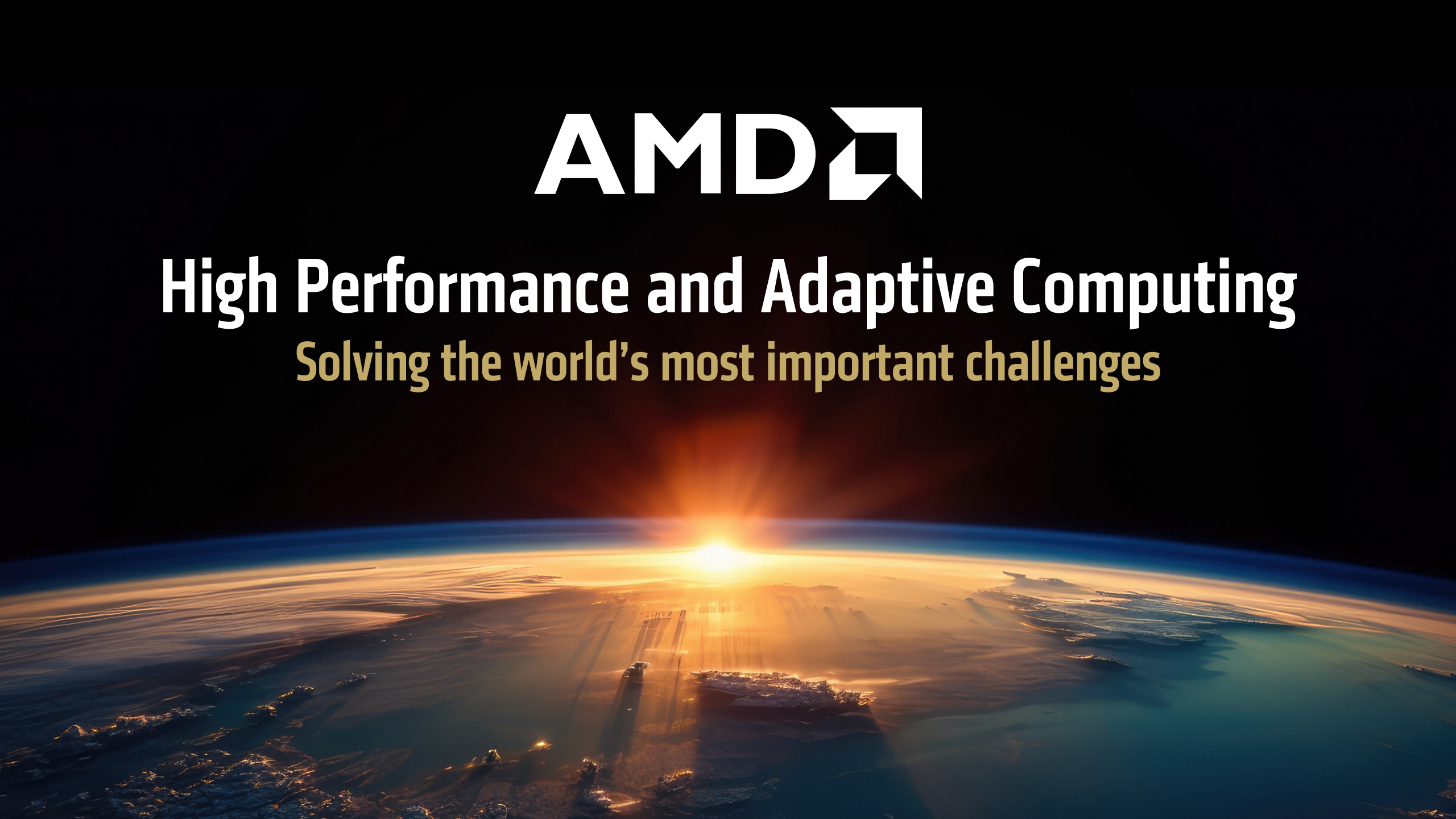
AMD @ CES 2025

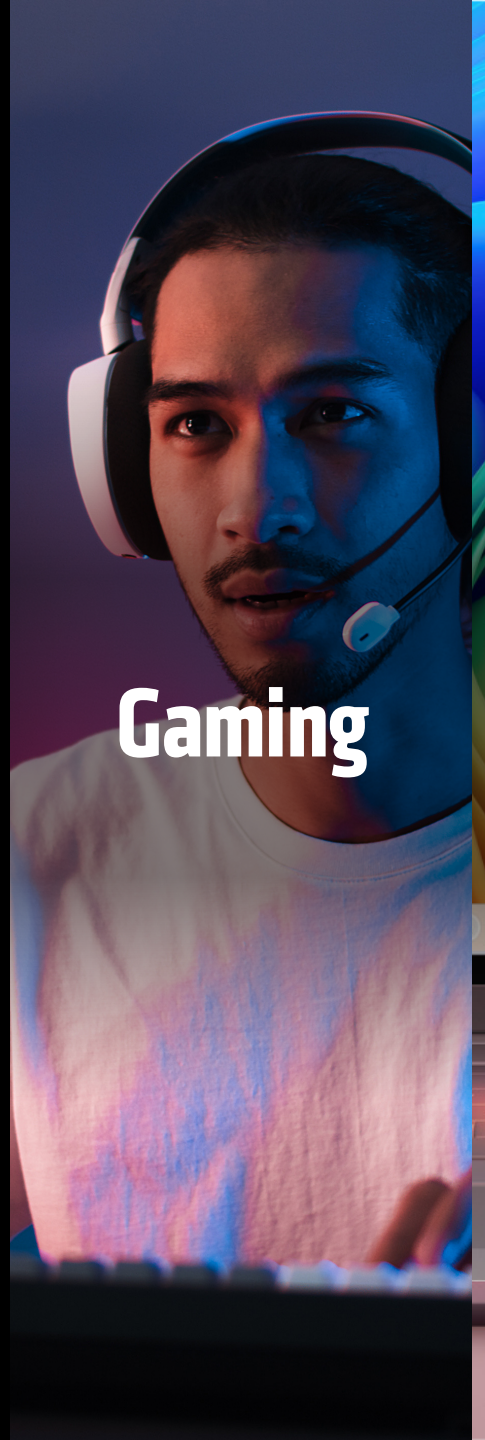
AMD

together we advance_

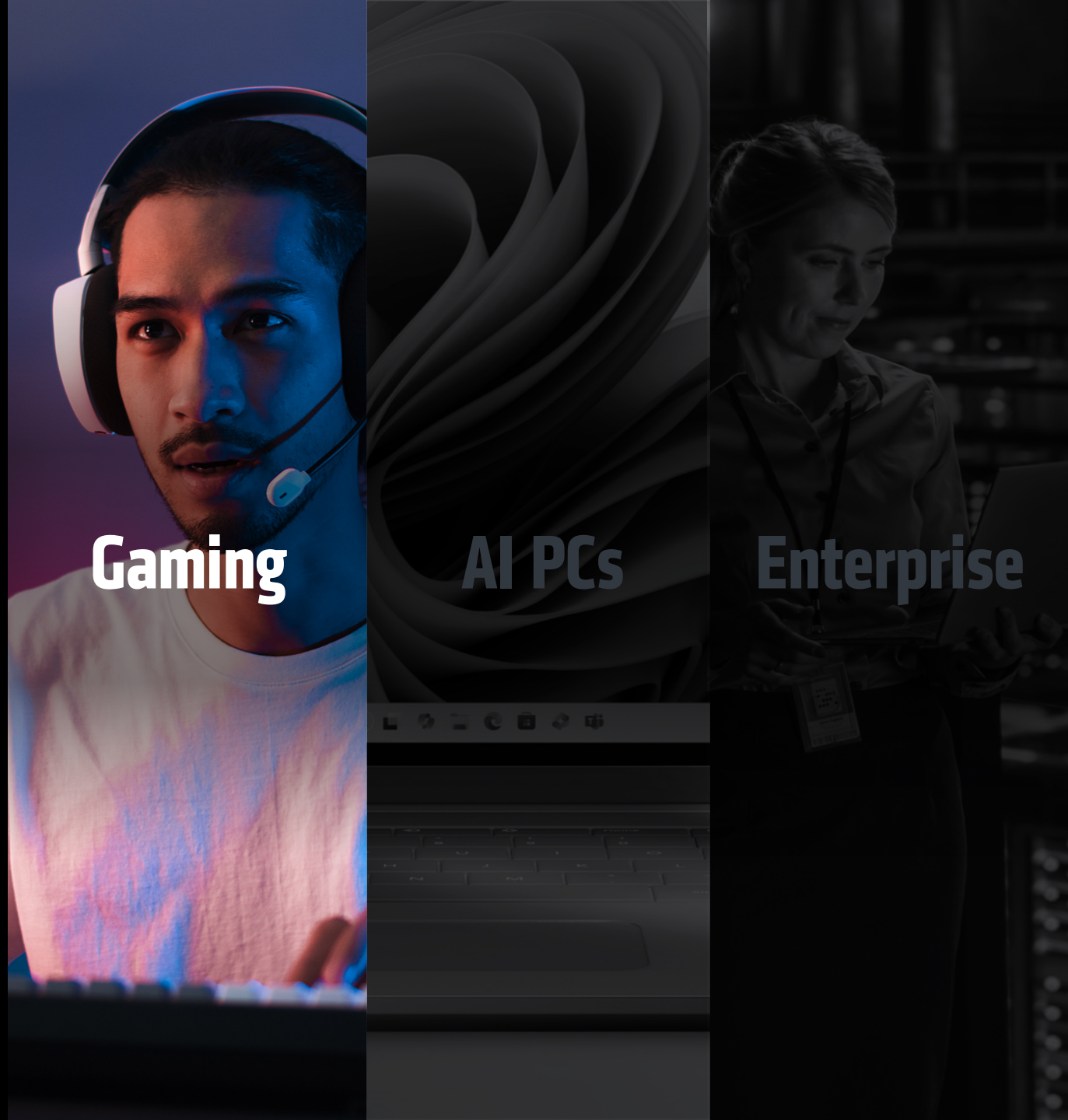

AMD
High Performance and Adaptive Computing
Solving the world's most important challenges

AMD Computing at the heart of modern life

Today at **CES 2025**



Today at **CES 2025**



AMD Ryzen™ 7 9800X3D

The world's best gaming processor on the market

See endnote GNR-21.

“The Ryzen 7 9800X3D is the fastest gaming chip on the market by a large, almost unbelievable margin”

tom’s HARDWARE

“Ryzen 7 9800X3D is indisputably the best processor for gaming you can buy right now…”

tom's HARDWARE

“Ryzen 7 9800X3D is indisputably the best processor for gaming you can buy right now....”

techradar

“The Ryzen 7 9800X3D is the new king of gaming CPUs”

techradar

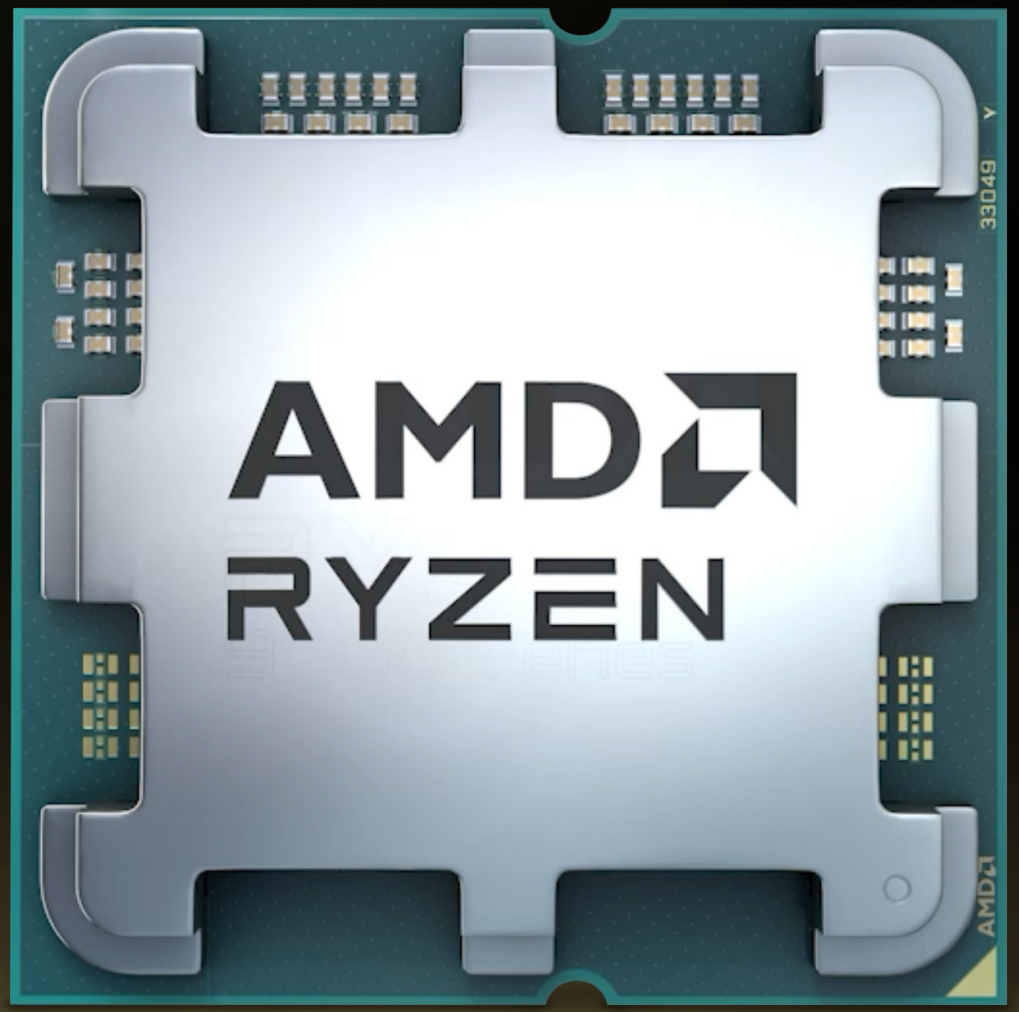
“The Ryzen 7 9800X3D is the new king of gaming CPUs”

PC GAMER

“cements 3D V-Cache as the second most impressive innovation

AMD Ryzen™ 9 9950X3D

Today at **CES 2025**



AMD Ryzen™ 9 9950X3D

16 “Zen 5”
CPU Cores

up to **5.7 GHz**
Max Boost Frequency

144MB total cache
with 2nd Gen AMD V-Cache™ technology

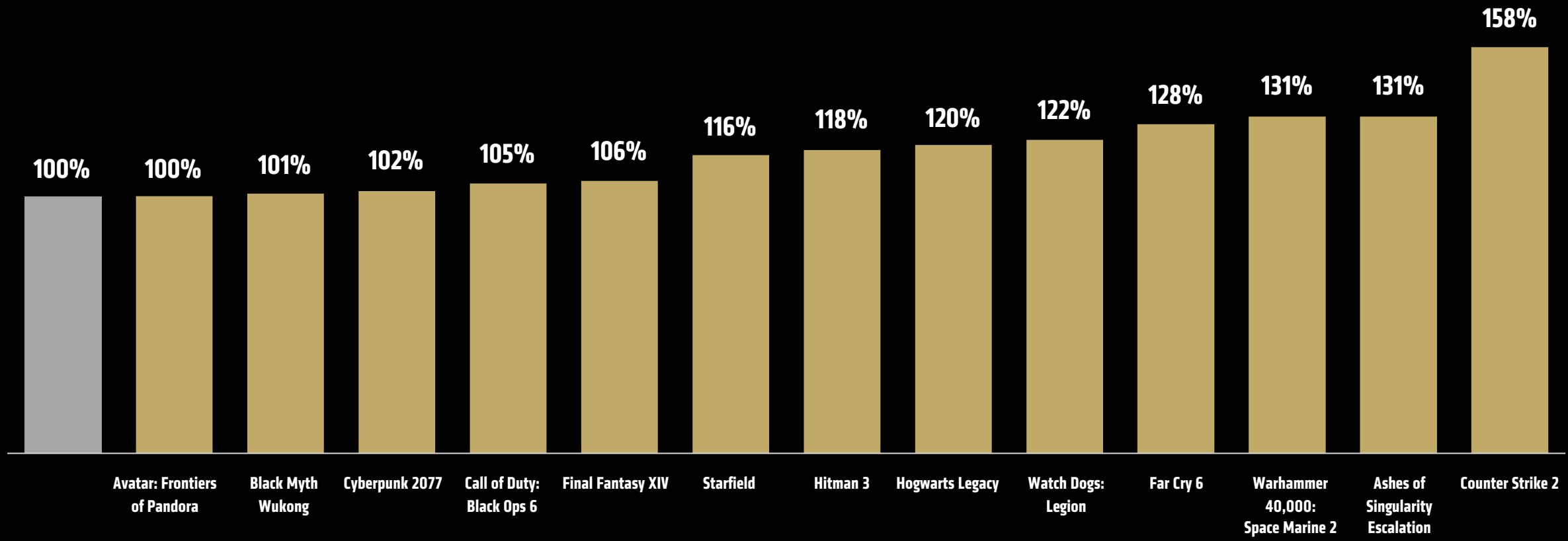
See endnote GD-150.

The world’s best 16-core gaming processor

See endnote GNR-31.

The world's best 16-core gaming processor

Generational game performance



8% average faster based on 40+ games tested

1080p high settings to isolate CPU performance

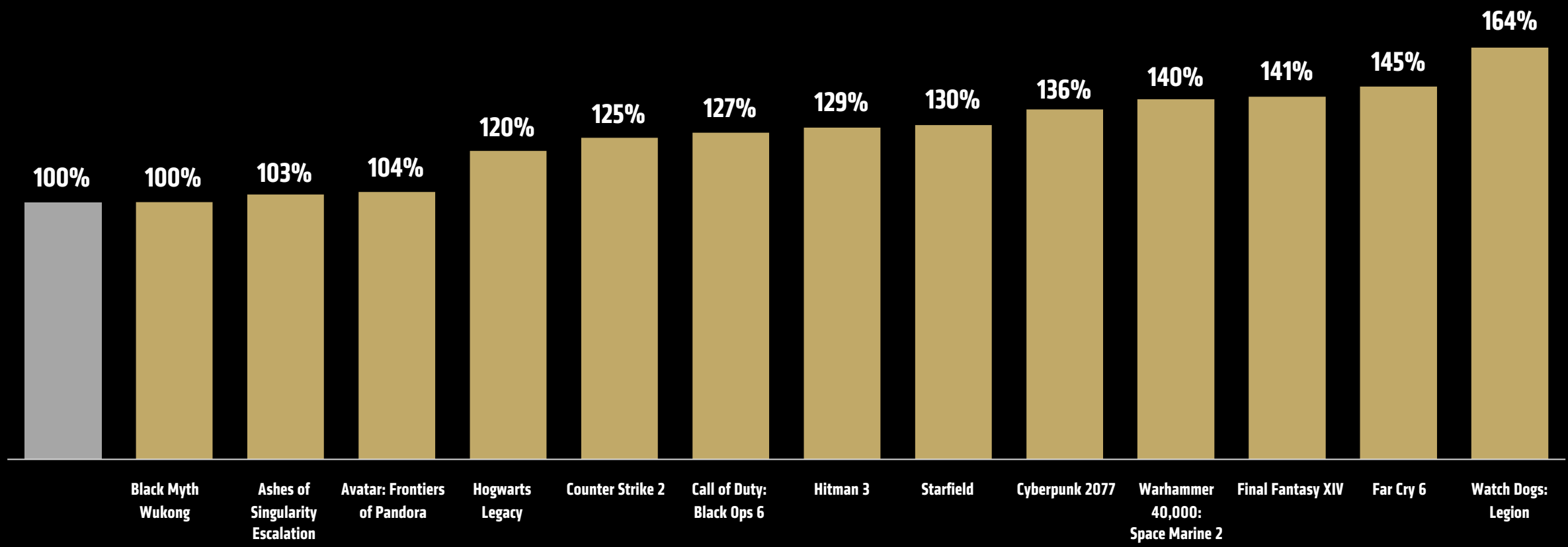
AMD Ryzen™ 9 **7950X3D**

AMD Ryzen™ 9 **9950X3D**

See endnote GNR-31.

The world's best 16-core gaming processor

Competitive game performance



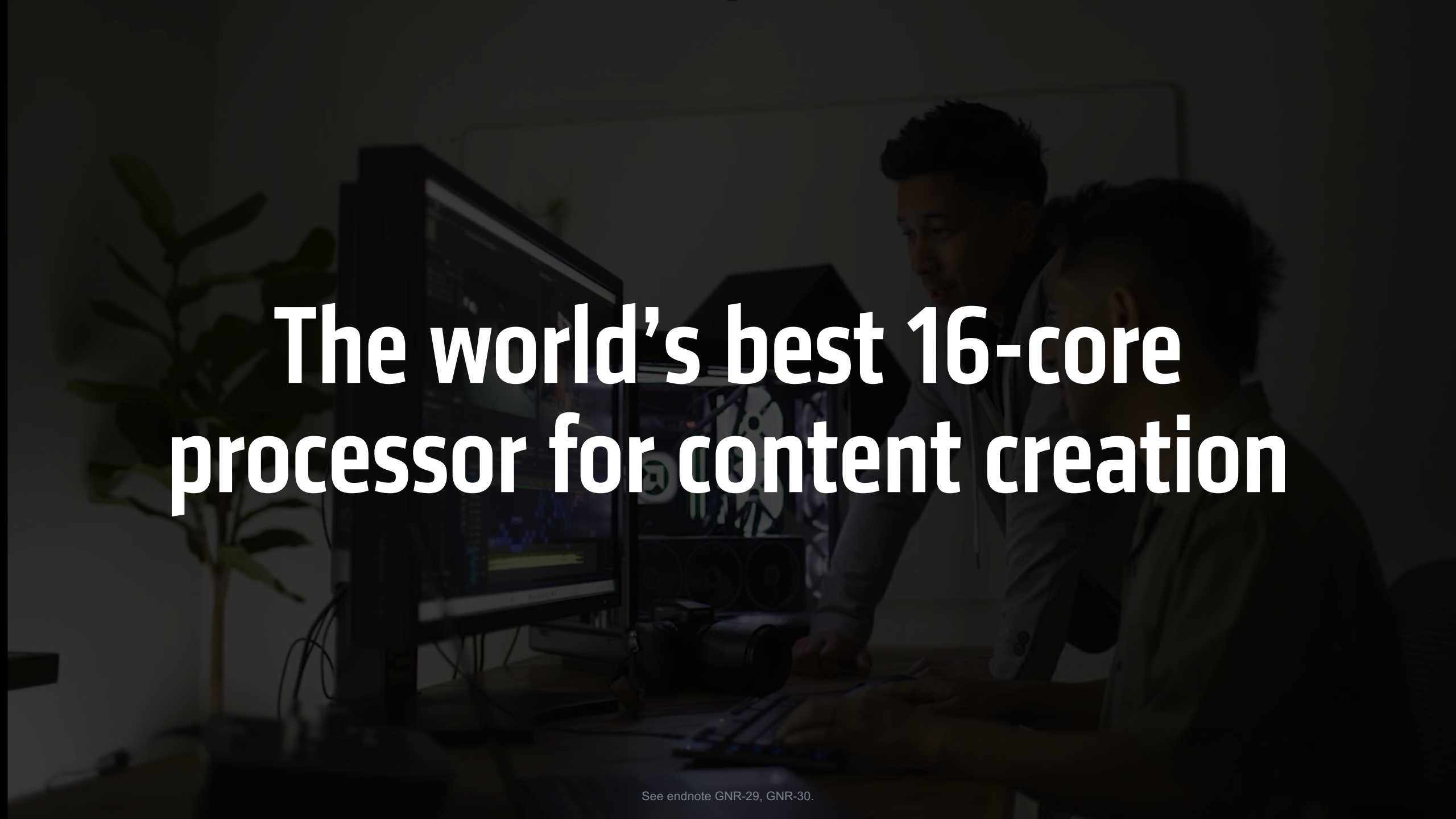
20% average faster based on 40+ games tested

1080p high settings to isolate CPU performance

Intel Core Ultra 9 **285K**

AMD Ryzen™ 9 **9950X3D**

See endnote GNR-28.

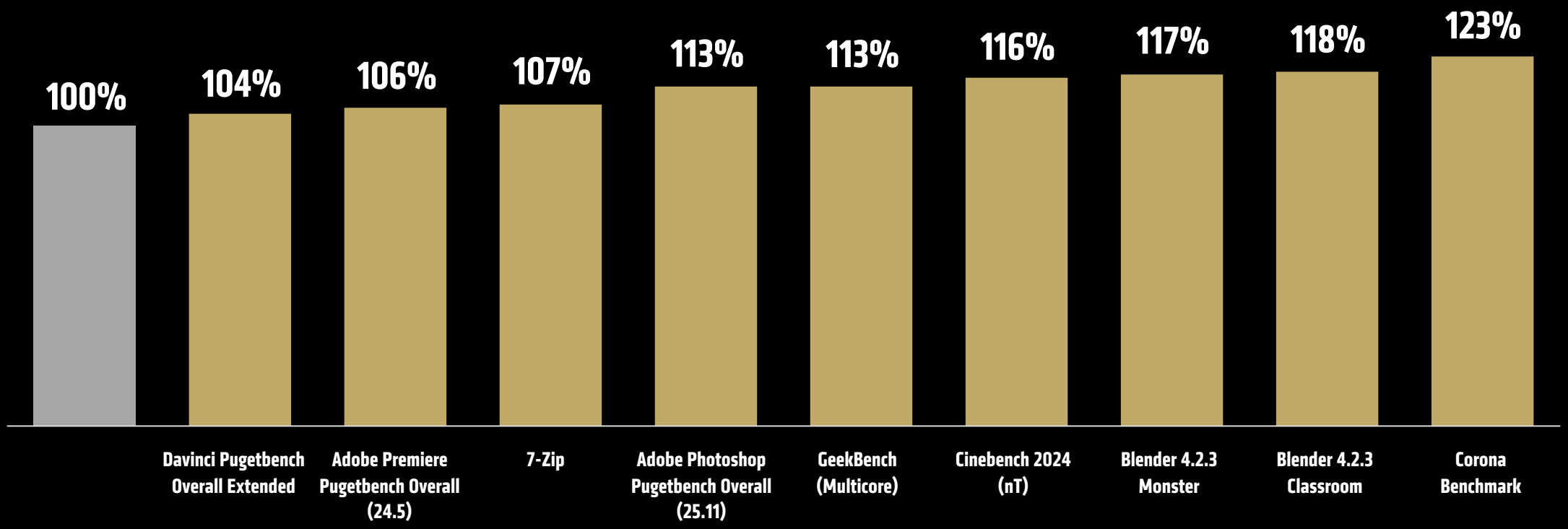


The world’s best 16-core processor for content creation

See endnote GNR-29, GNR-30.

The world's best 16-core processor for content creation

Generational content creation performance



13% average faster based on 20 apps tested

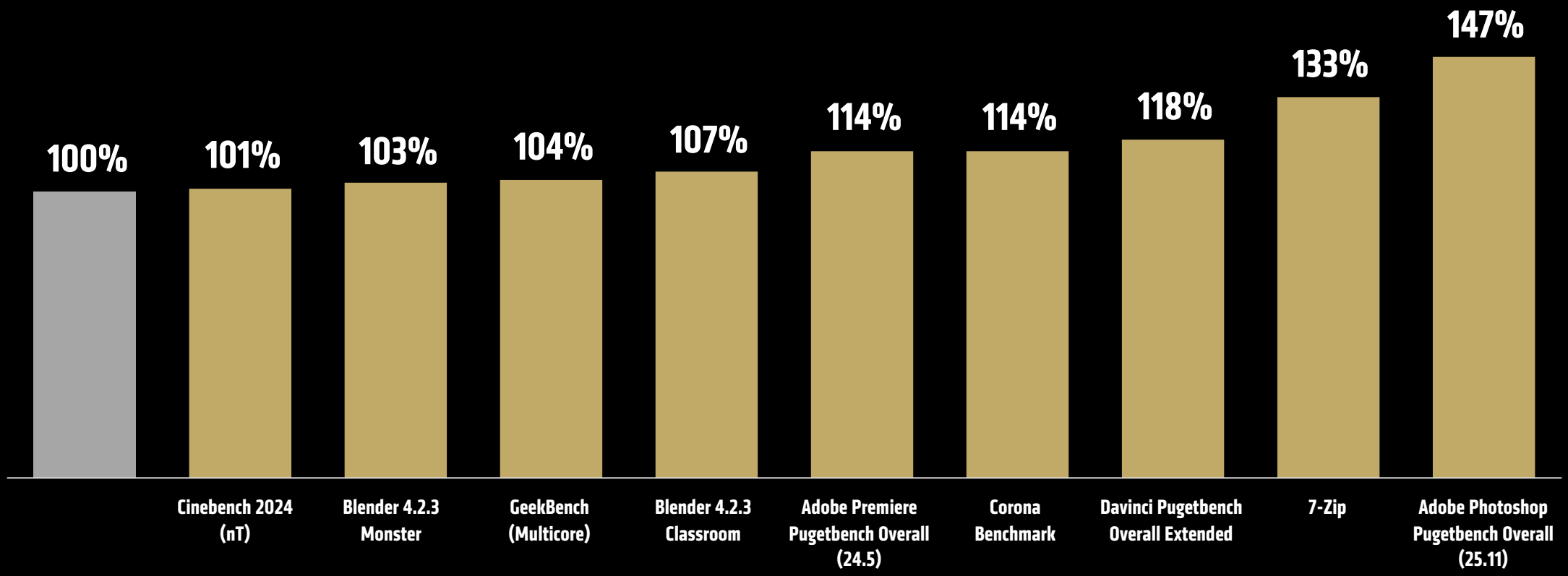
AMD Ryzen™ 9 **7950X3D**

AMD Ryzen™ 9 **9950X3D**

See endnote GNR-29.

The world's best 16-core processor for content creation

Competitive content creation performance



10% average faster based on 20 apps tested

Intel Core Ultra 9 **285K**

AMD Ryzen™ 9 **9950X3D**

See endnote GNR-30.

AMD Ryzen™ 9 9950X3D

The world's best 16-core processor for both gamers and content creators

See endnote GNR-27, GNR-29, GNR-30.

AMD Ryzen™ 9 **9950X3D**	16 cores 32 threads	up to 5.7 GHz max boost	144 MB cache	170 W TDP
AMD Ryzen™ 9 **9900X3D**	12 cores 24 threads	up to 5.5 GHz max boost	140 MB cache	120 W TDP

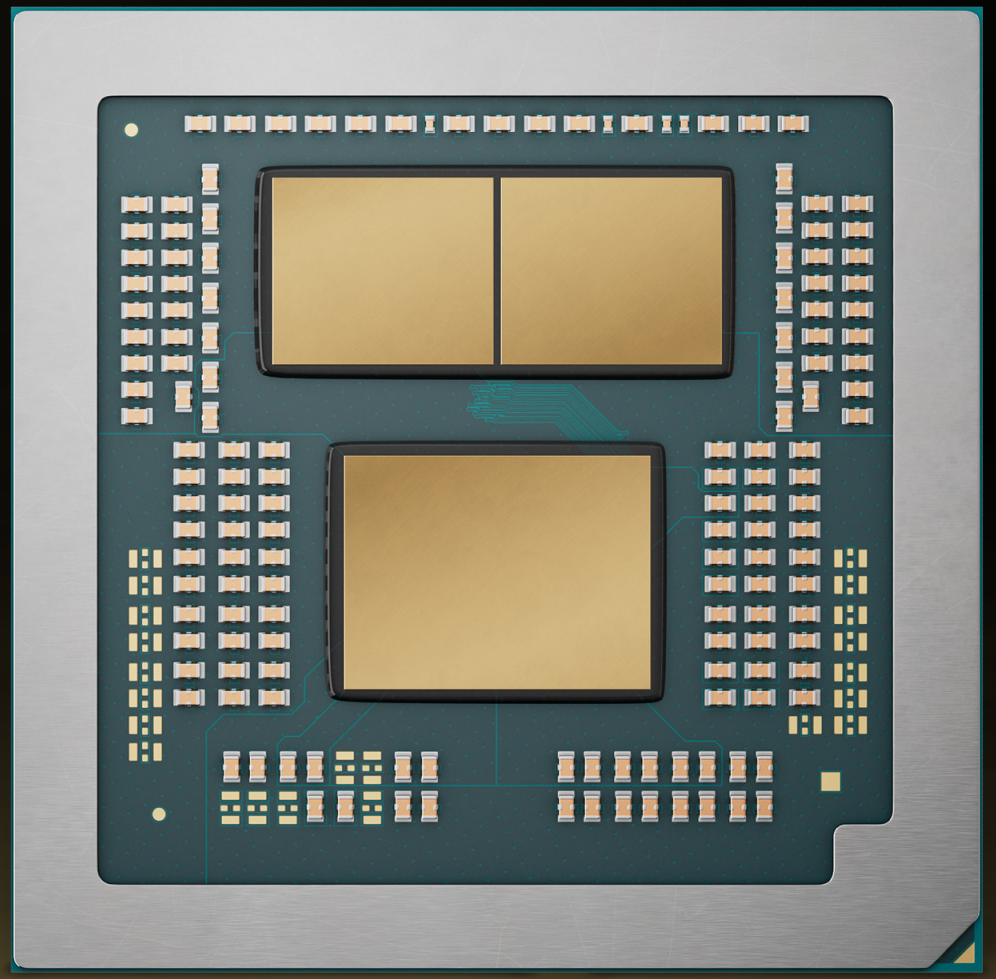
Available **March 2025**

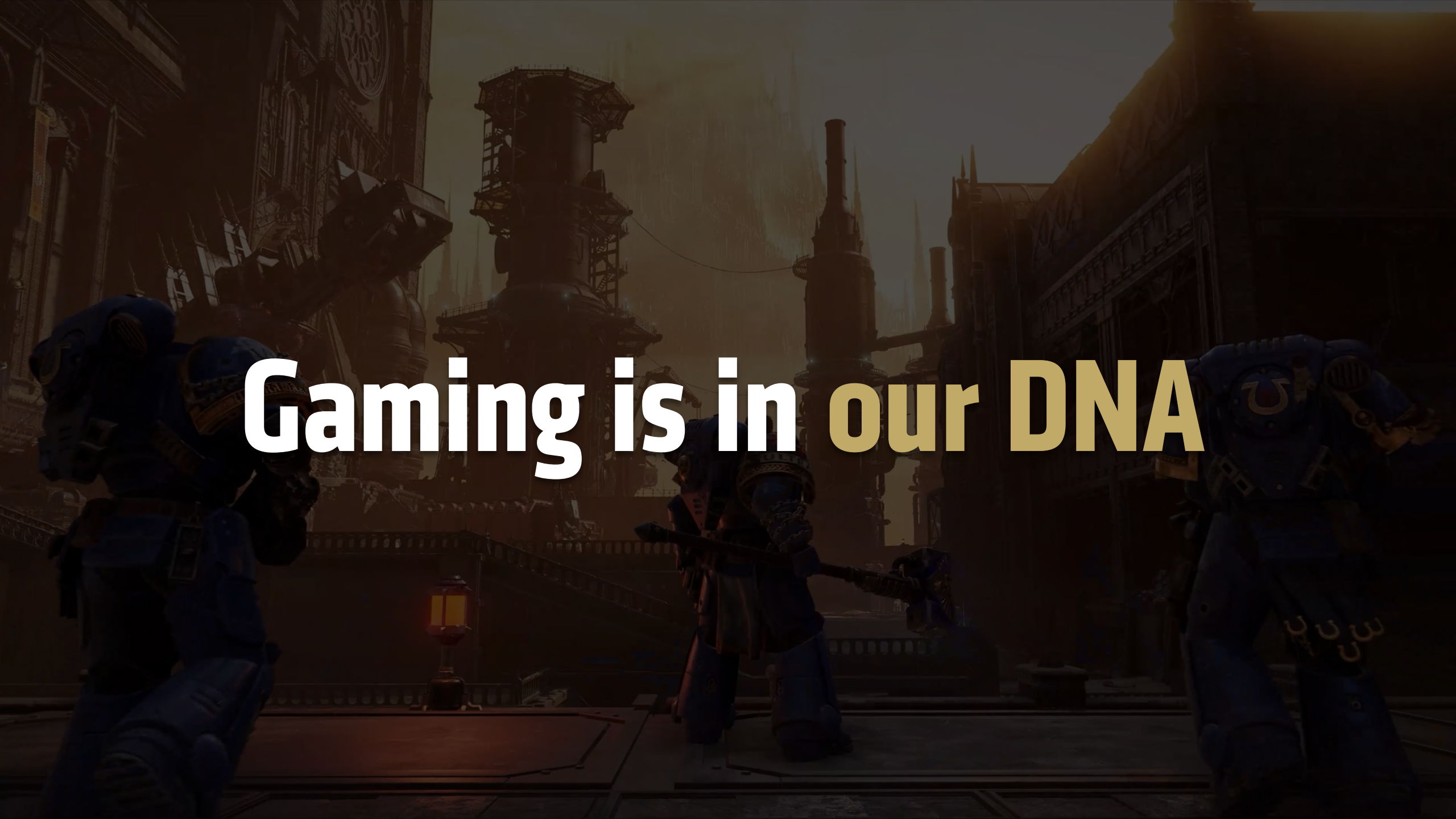
See endnote GD-150.

Unveiling “Fire Range” HX3D

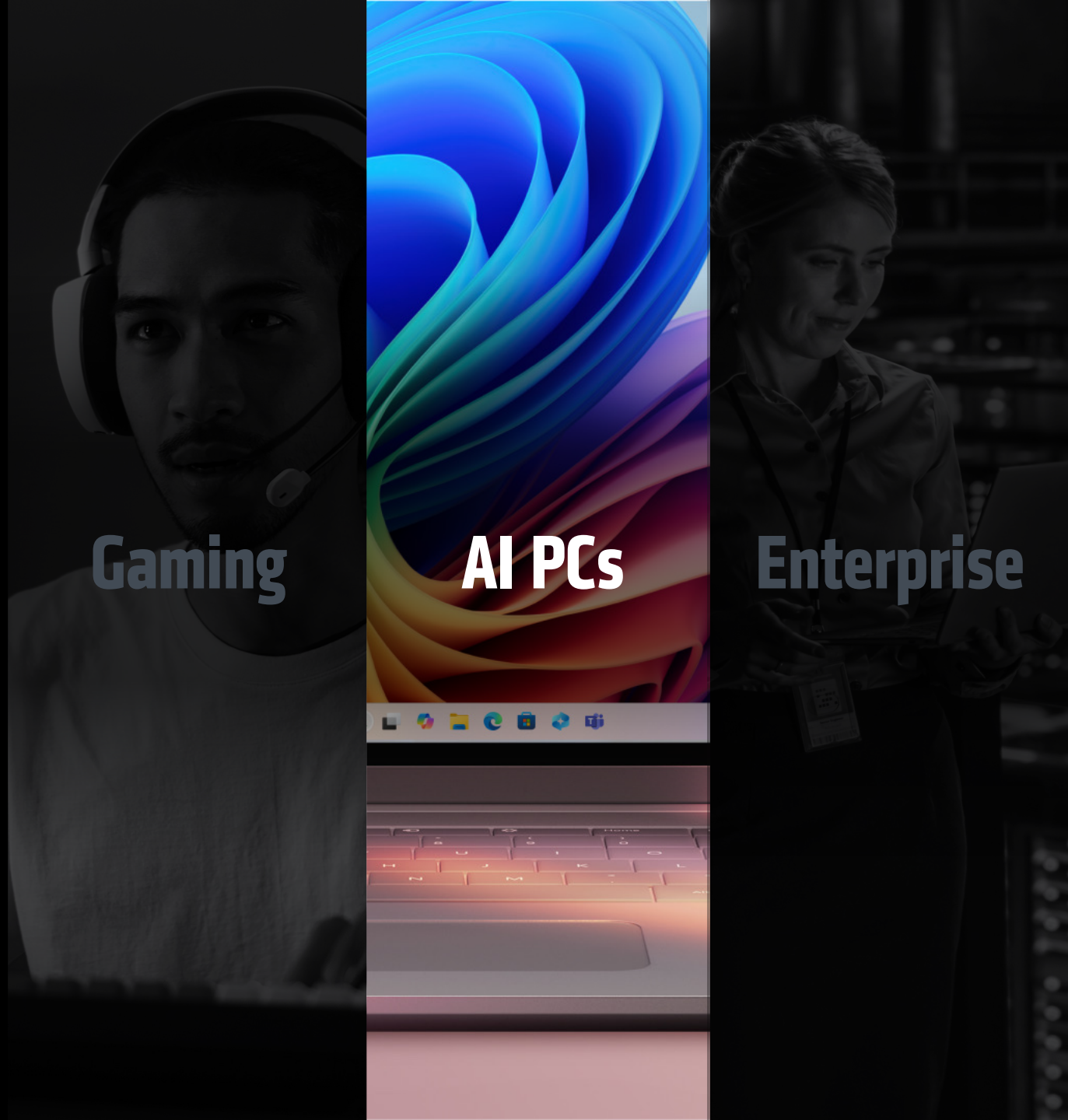
Bringing the world's best desktop gaming and content creation processor into a mobile package

Available **1H 2025**




Gaming is in our DNA

Today at **CES 2025**




AMD leading AI PCs

“The AMD Ryzen AI 9 HX 370 makes a standout performance that sells the concept of AI laptops better than anything we've seen so far.”

PC MAG

“The Ryzen AI 9 HX 375 processor [...] allowing the laptop to take top honors in

“The Ryzen AI 9 HX 375 processor [...] allowing the laptop to take top honors in all the performance benchmarks”

tom's HARDWARE

all the performance benchmarks

tom's HARDWARE

“'Zen 5' is one of the best CPU architectures to hit the laptop market in 10 years [...]”

HARDWARE CANUCKS

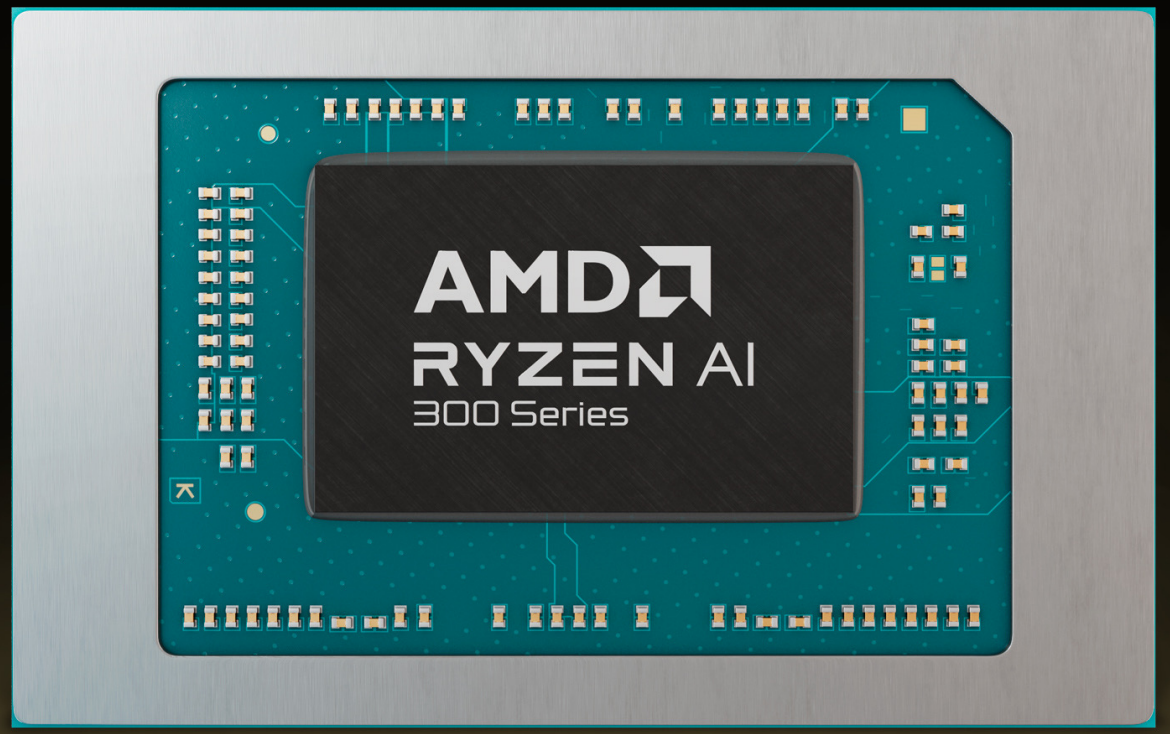
150+ Ryzen™ AI designs in 2025

acer ASUS hp Lenovo

GIGABYTE 机械革命 MECHREVO msi NEC \Orchestrating a brighter world RAZER™

AMD Ryzen™ AI 300 Series

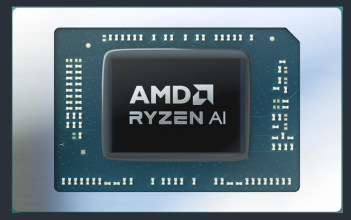
Expanding AI PCs everywhere



Premium Series

"Strix Point"

Copilot+PC

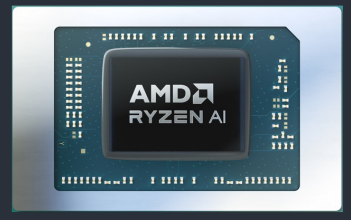


AMD Ryzen™ AI 9

Advanced Series

"Krackan Point"

Copilot+PC

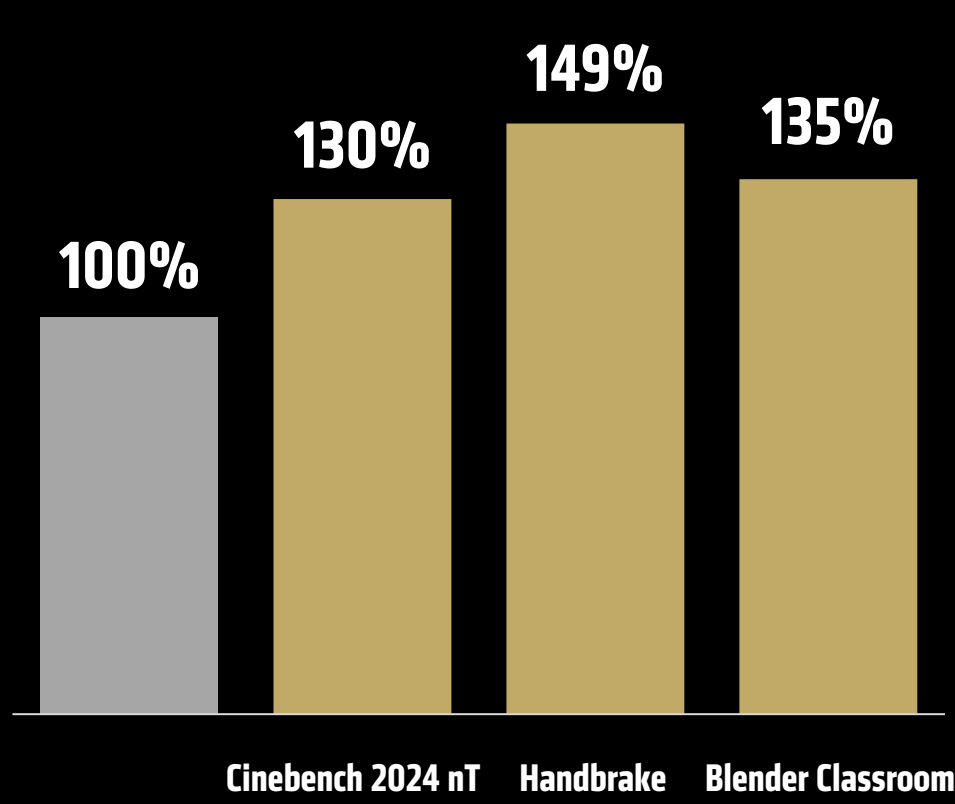


AMD Ryzen™ AI 7

AMD Ryzen™ AI 5

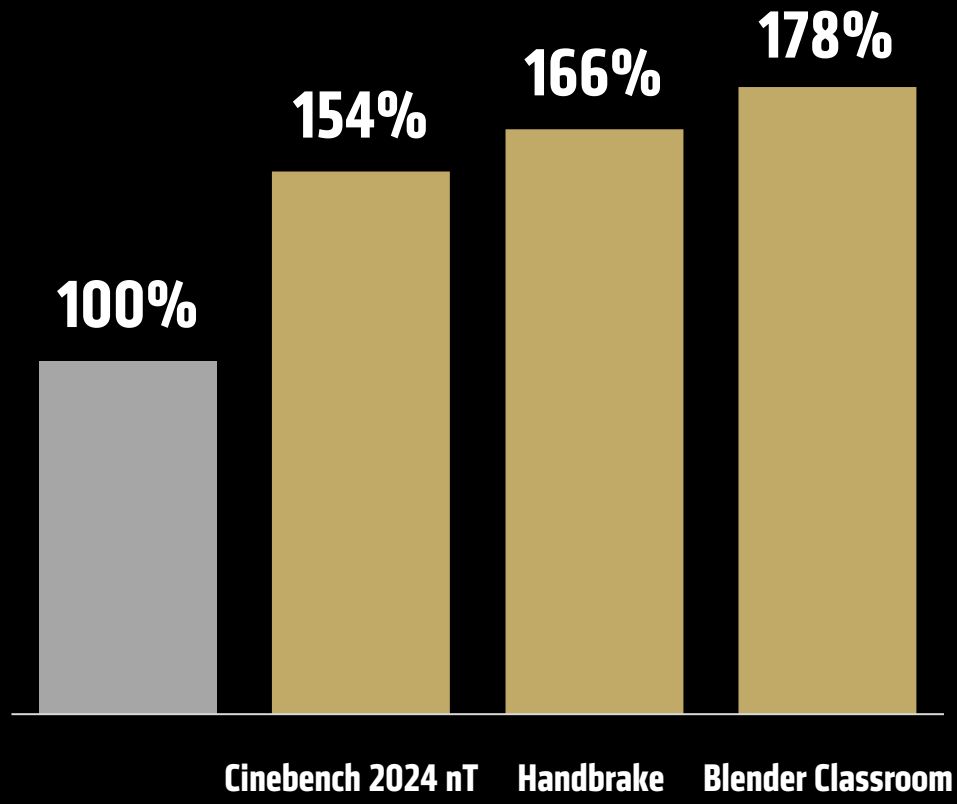
Expanding AI PCs everywhere

The world's best multi-tasking in its class



AMD Ryzen™ AI 7 350 vs. Qualcomm X Plus X1P-42-100

35% average based on 9 apps tested



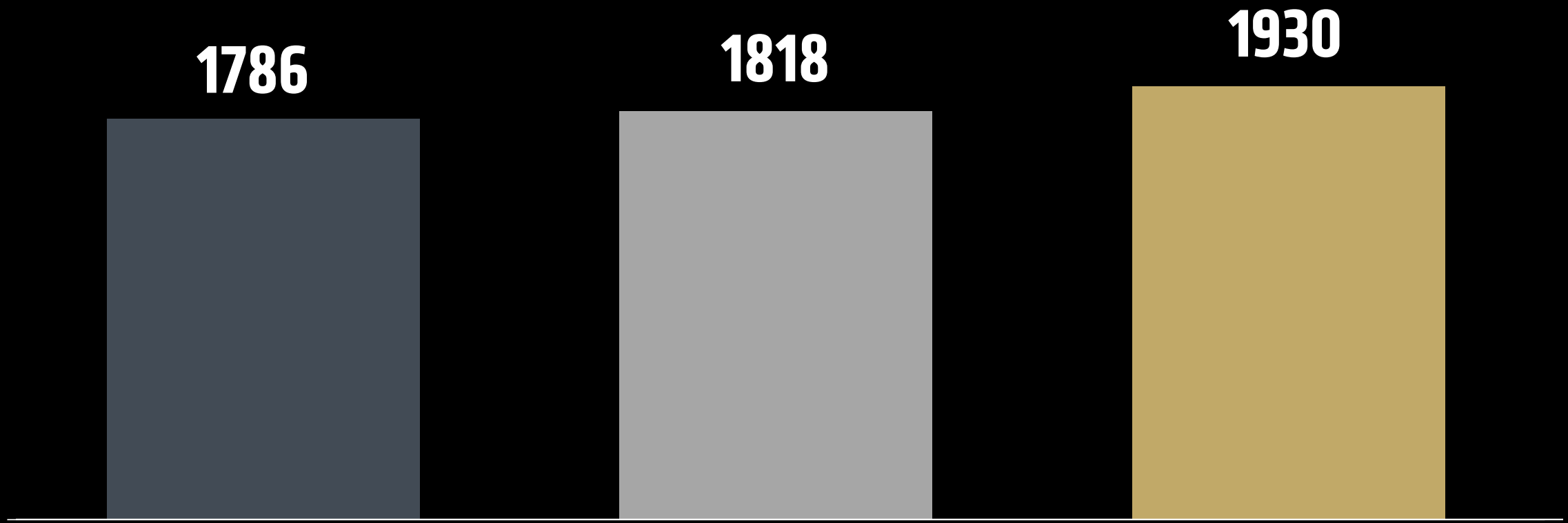
AMD Ryzen™ AI 7 350 vs. Intel Core Ultra 7 258V

30% average based on 9 apps tested

See endnote KRK-4.

The world's best performance in AI PCs

The fastest Windows NPU in Procyon AI



See endnote KRK-6.

Multi-day battery life

Up to 24+ hours of battery life to stay unplugged longer

*as measured in video playback

See endnote KRKP-1, GD-173a.

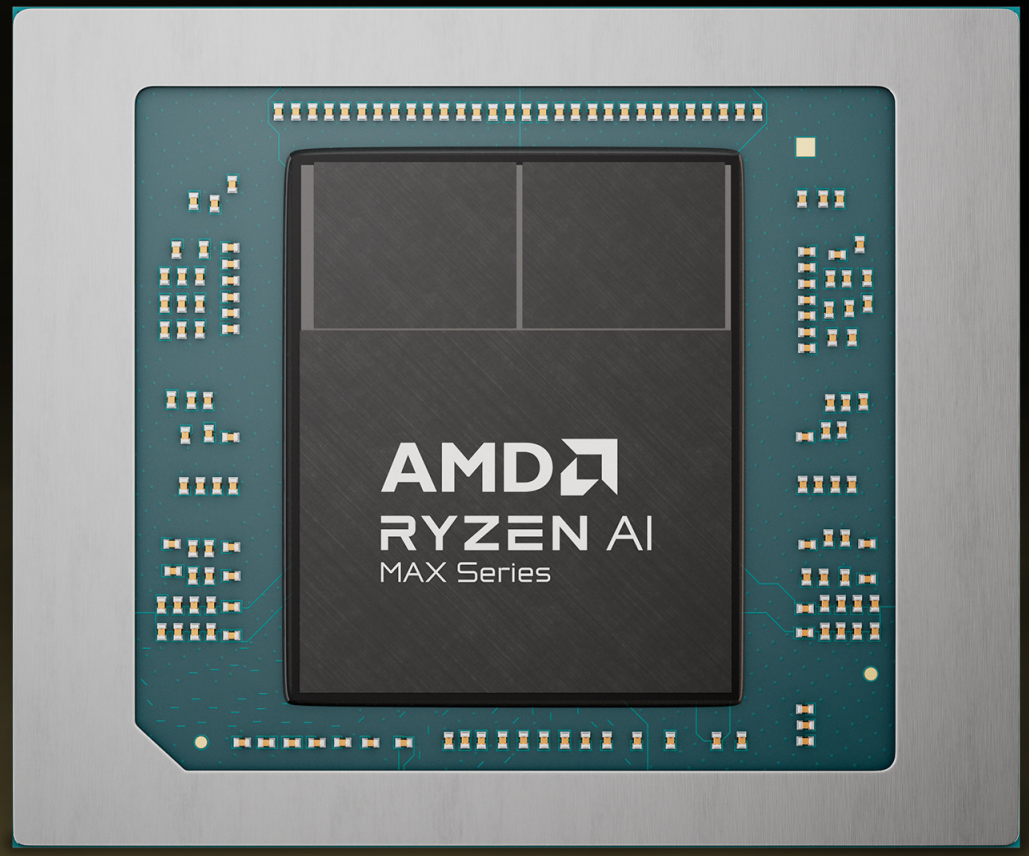
AMD Ryzen™ AI 7 350	8 cores 16 threads	up to 5.0 GHz max boost	50 Peak TOPS	15-54 W cTDP
AMD Ryzen™ AI 5 340	6 cores 12 threads	up to 4.8 GHz max boost	50 Peak TOPS	15-54 W cTDP

Available **Q1 2025**

See endnote GD-150, GD-243.

Ryzen™ AI Max Series

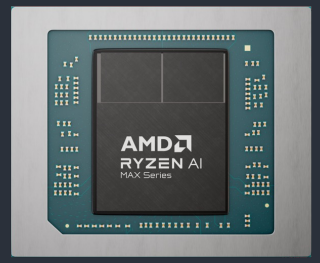
The power of a workstation in a thin and light laptop



Halo Series

"Strix Halo"

Copilot+PC



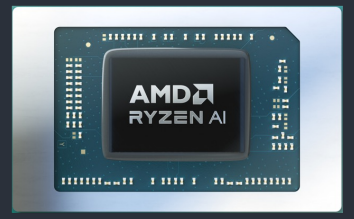
AMD Ryzen™ AI Max+

AMD Ryzen™ AI Max

Premium Series

"Strix Point"

Copilot+PC

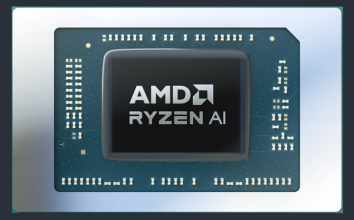


AMD Ryzen™ AI 9

Advanced Series

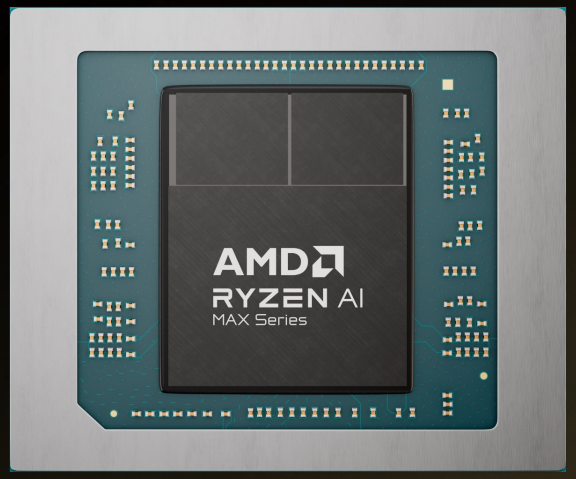
"Krackan Point"

Copilot+PC



AMD Ryzen™ AI 7

AMD Ryzen™ AI 5



Ryzen™ AI Max Series

up to **16 “Zen 5”**
Performance Cores

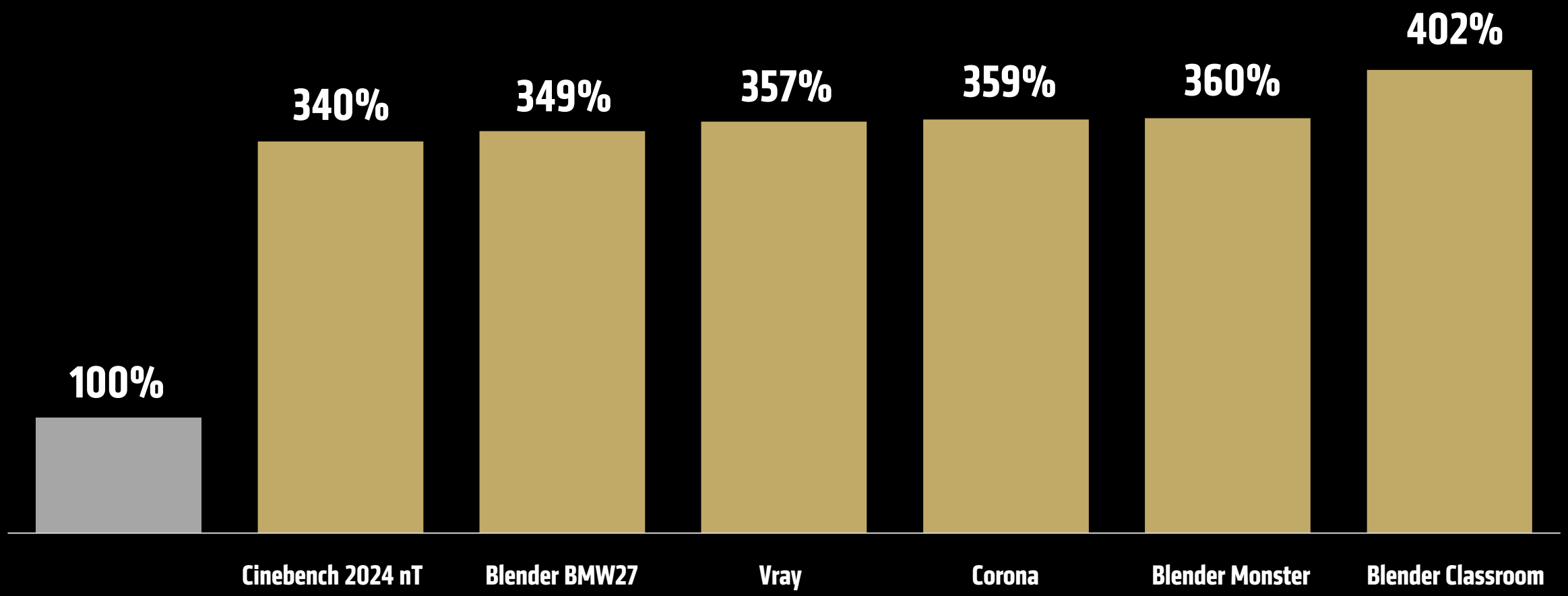
up to **40 AMD RDNA™ 3.5**
Compute Units

up to **50 TOPs**
AMD XDNA™ 2 NPU

up to **256GB/s Bandwidth**
New Memory Interface

See endnote GD-243.

3D rendering performance in a class of its own



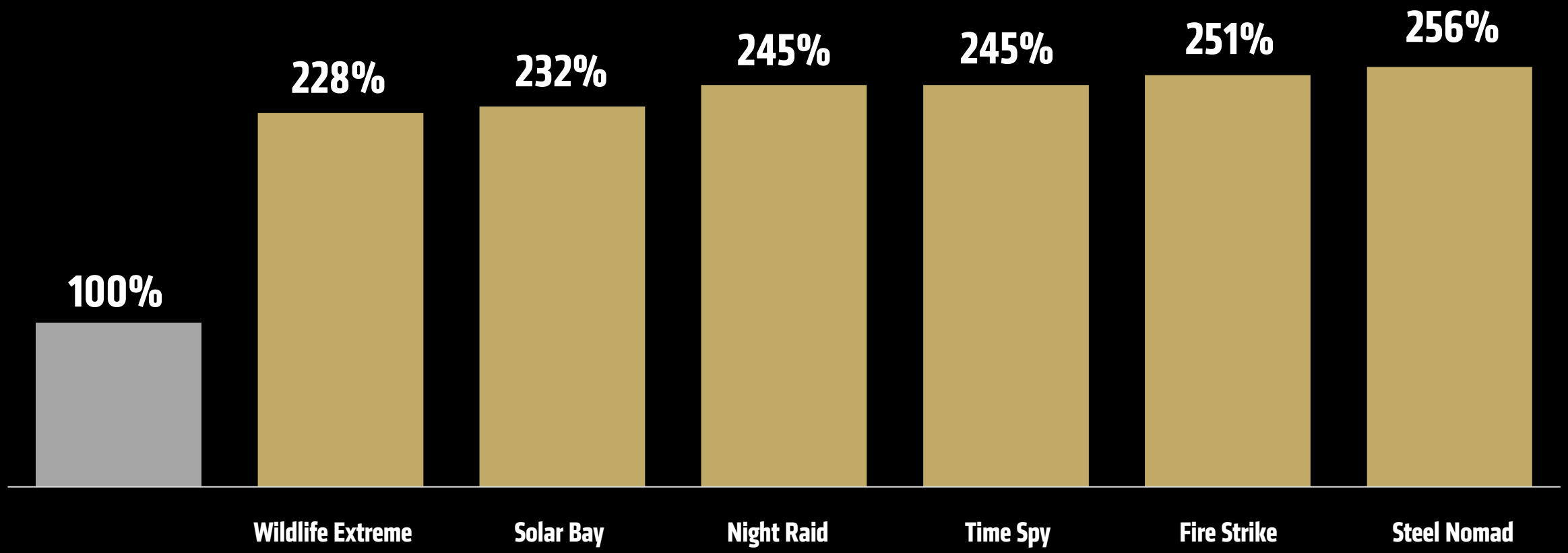
260% average faster rendering

Intel Core Ultra **9 288V**

AMD Ryzen™ AI **Max+ 395**

See endnote SHO-7.

Graphics performance in a class of its own



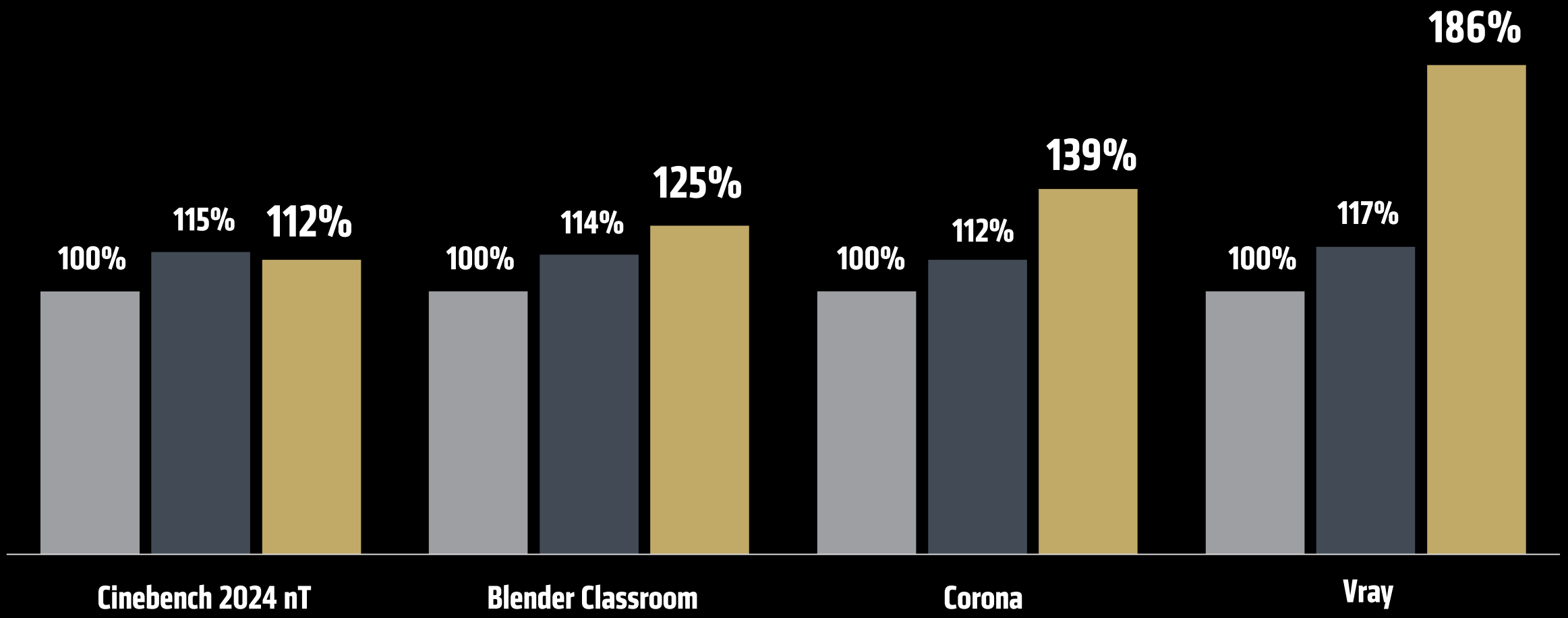
140% average faster graphics performance

Intel Core Ultra
9 288V

AMD Ryzen™ AI
Max+ 395

See endnote SHO-9.

Leadership 3D rendering performance vs. MacBook M4 Pro



40% average faster rendering

vs. Apple M4 Pro 12C

Apple **M4 Pro 12C**

Apple **M4 Pro 14C**

AMD Ryzen™ AI **Max+ 395**

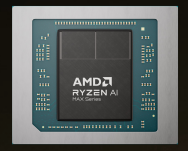
See endnote SHO-12.

The world’s first AI PC processor to run 70B LLM

See endnote SHO-13.

Llama 3.1 70B-Q4

LM Studio | Large Language Model Inference



AMD Ryzen™ AI Max+ 395

vs. NVIDIA GeForce RTX 4090 24GB

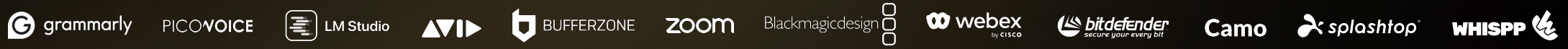
Up to **2.2x**

faster AI performance*

*tokens / second

See endnote SHO-14.

150+ AI Powered ISVs



AMD Ryzen™ AI **Max+ 395**	16 cores 32 threads	up to 5.1 GHz max boost	80 MB cache	40 graphics CUs	45-120 W cTDP
AMD Ryzen™ AI **Max 390**	12 cores 24 threads	up to 5.0 GHz max boost	76 MB cache	32 graphics CUs	45-120 W cTDP
AMD Ryzen™ AI **Max 385**	8 cores 16 threads	up to 5.0 GHz max boost	40 MB cache	32 graphics CUs	45-120 W cTDP

Available **Q1 2025**

See endnote GD-150.

HP ZBook Ultra G1a

Redefining performance for compact workstations

AMD RYZEN AI MAX PRO Series

Copilot+PC

HP Z2 Mini G1a

Mini workstation.
Transformative AI performance.

AMD RYZEN AI MAX PRO Series

Copilot+PC

ASUS ROG Flow Z13

Ultra fast, ultra mobile gaming

AMD RYZEN AI MAX Series

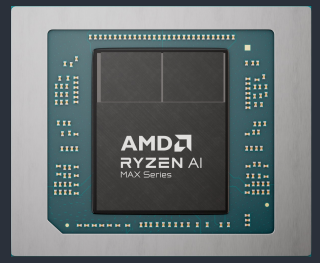
Copilot+PC

The industry's most extensive Copilot+ PC lineup

Halo Series

"Strix Halo"

Copilot+PC



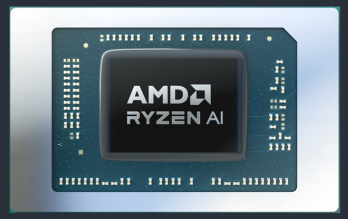
AMD Ryzen™ AI Max+

AMD Ryzen™ AI Max

Premium Series

"Strix Point"

Copilot+PC

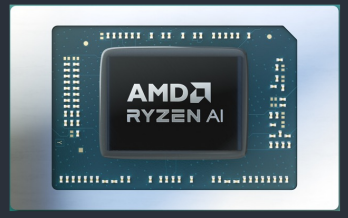


AMD Ryzen™ AI 9

Advanced Series

"Krackan Point"

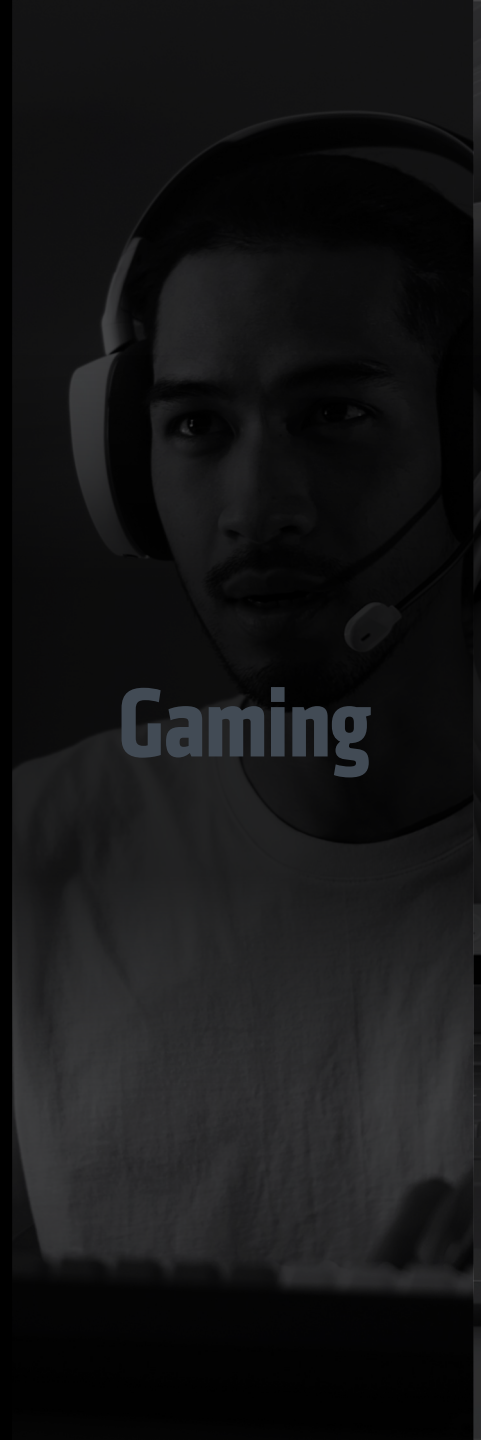
Copilot+PC



AMD Ryzen™ AI 7

AMD Ryzen™ AI 5

Today at **CES 2025**



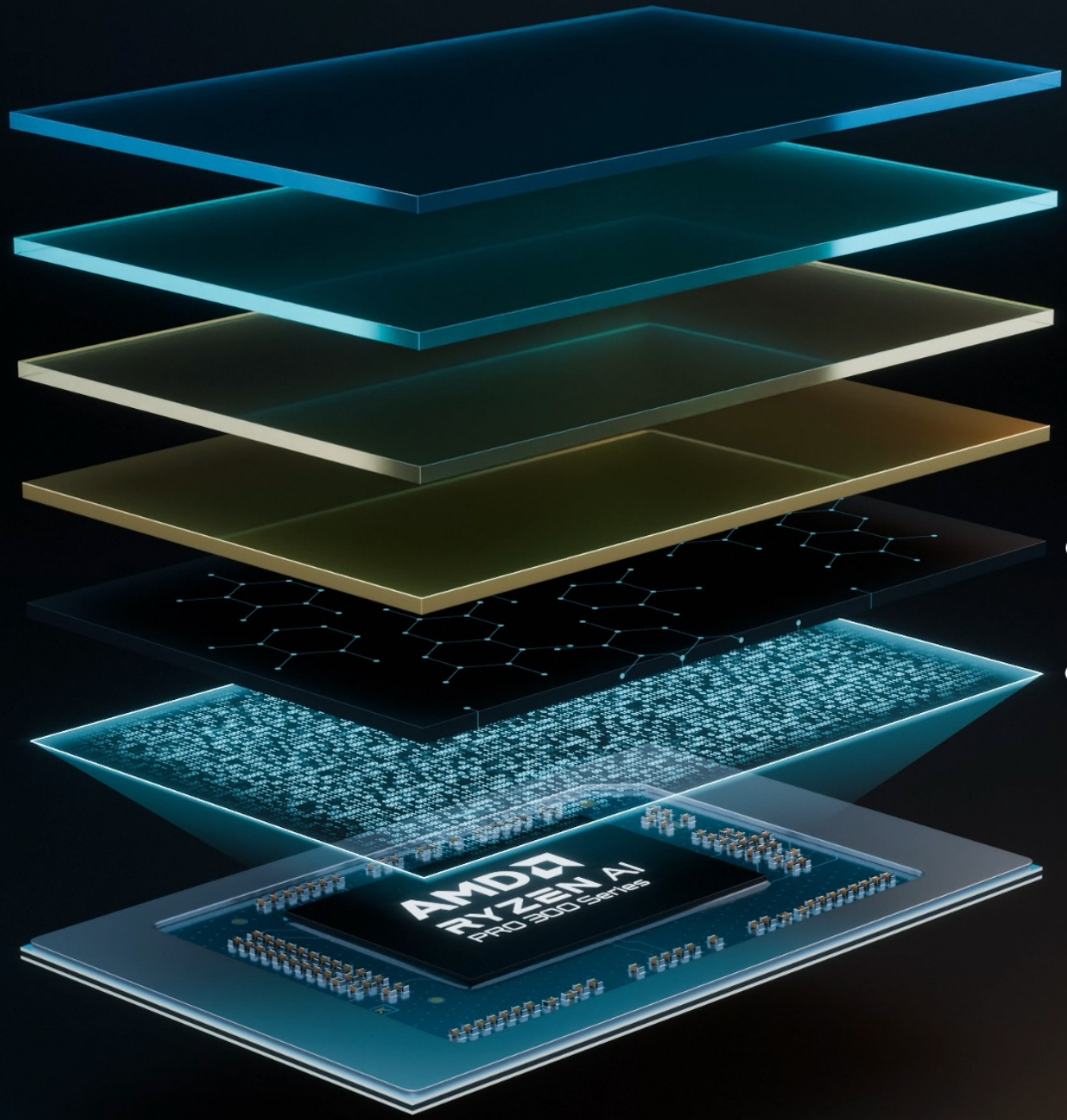
AMD EPYC™ is the CPU of choice for the world's largest hyperscalers

aws Alibaba Cloud Microsoft Azure ByteDance Google Cloud IBM Cloud ORACLE Meta Tencent

AMD Instinct™ Accelerator is a powerhouse behind the AI revolution

AMD PRO

Security, manageability and reliability built for the modern enterprise



OEM System-Level Security Features

Windows® 11 OS Security

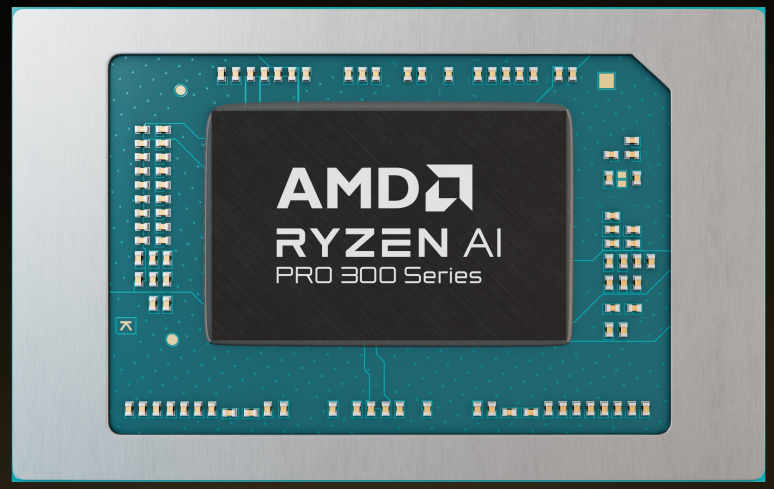
AMD Memory Guard

Microsoft Pluton Security
AMD Secure Processor (2.0)

AMD “Zen 5” Architecture

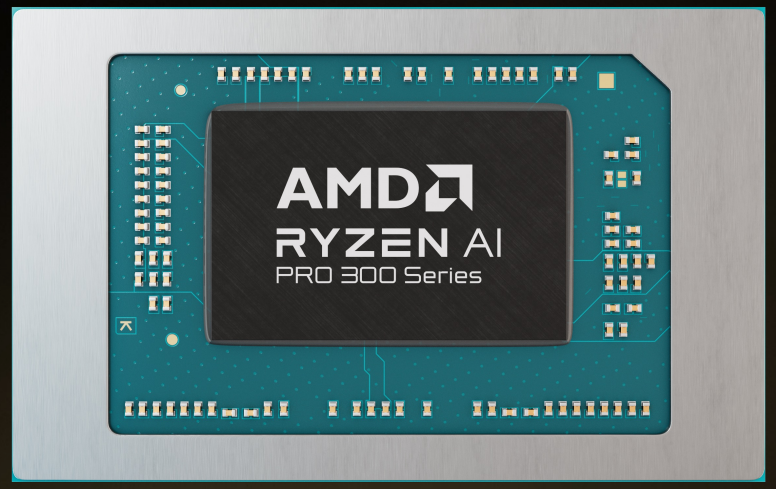
Your Data

See endnote GD-206.



The world's best enterprise multitasking performance

See endnote STXP-06.



The world's most powerful enterprise AI engine for PCs

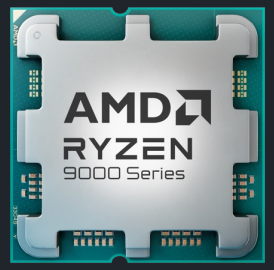
See endnote STXP-06.

Enterprises around the world choose AMD PRO solutions to help increase productivity and secure their businesses

“We trust AMD Ryzen CPUs to help protect our clients’ sensitive data from advanced cyber threats”

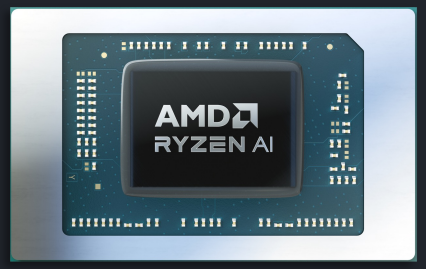
“AMD Ryzen CPUs offer the best TCO, delivering exceptional performance and efficiency.”

Over 100 enterprise platforms with Ryzen™ PRO technology through 2025



AMD RYZEN™
9000 SERIES

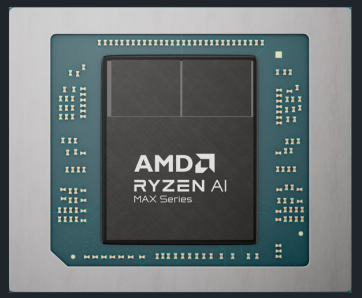
The world's best 16-core processor for gamers and creators



AMD RYZEN™ AI
300 SERIES

Copilot+PC

The world's best AI PC



AMD RYZEN™ AI
MAX SERIES

Copilot+PC

The power of a workstation in a thin and light laptop

Available **Q1 2025**

Endnotes

GNR-21: Testing as of October 2024 by AMD Performance Labs on test systems configured as follows: AMD Ryzen 7 7800X3D & 9800X3D system: GIGABYTE X670E AORUS MASTER, Balanced, 2x16GB DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRACKENX63 (September 27, 2024); Intel Core i9-14900K system: MSI MEG Z790 ACE MAX (MS-7D86), Balanced, 2x16GB DDR5-6000, Radeon RX 7900 XTX, VBS=On, SAM=On, KRAKENX63 (September 11, 2024) {profile=MSI Performance} on the following games: Ashes Of The Singularity: Escalation, Assassins Creed Mirage, Assassins Creed Valhalla, Avatar: Frontiers Of Pandora, Baldurs Gate 3, Black Myth: Wukong, Borderlands 3, Counter-Strike 2, CyberPunk 2077, Deus Ex: Mankind Divided, Dirt 5, DOTA 2, F1 2023, F1 2024, Far Cry 6, Final Fantasy 14 Dawntrail, Forza Horizon 5, Ghost Recon Breakpoint, Guardians Of The Galaxy, Hitman 3, Hogwarts Legacy, Horizon Zero Dawn, League of Legends, Metro Exodus, Metro Exodus Enhanced Edition, Middle Earth Shadow of War, Rainbow 6 Siege, Riftbreaker, Shadow Of The Tomb Raider, Spider Man Remastered, Starfield, Strange Brigade, The Callisto Protocol, Tiny Tinas Wonderlands, Total War Warhammer 3, Warhammer Dawn Of War 3, Watch Dogs Legion, World of Tanks encore, Wolfenstein Youngblood. System manufacturers may vary configurations, yielding different results.

GD-150: Boost Clock Frequency is the maximum frequency achievable on the CPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads.

GNR-31: Testing as of Nov 2024 by AMD Performance Labs using the following game titles tested at 1080p high settings: Black Myth: Wukong, Avatar: Frontiers of Pandora, Hogwarts Legacy, Call of Duty: Black Ops, Starfield, CyberPunk 2077, Counter Strike 2, Final Fantasy XIV, Hitman 3, Warhammer 20,000: Space Marine 2, Watch Dogs: Legion, Far Cry 6, Ashes of the Singularity. Both AMD Ryzen 9 9950X3D and Ryzen 7 7950X3D systems configured as follows: GIGABYTE X870E AORUS MASTER, 32GB DDR5-6000, Nvidia RTX 4090, KRAKEN X63, Win 11 Pro 26100, VBS ON, SAM/REBAR ON. System manufacturers may vary configurations, yielding different results.

GNR-27: Testing as of Nov 2024 by AMD Performance Labs using the following game titles tested at 1080p high settings: Black Myth: Wukong, Avatar: Frontiers of Pandora, Hogwarts Legacy, Call of Duty: Black Ops, Starfield, CyberPunk 2077, Counter Strike 2, Finaly Fantasy XIV, Hitman 3, Warhammer 20,000: Space Marine 2, Watch Dogs: Legion, Far Cry 6, Ashes of the Singularity. Both AMD Ryzen 9 9950X3D and Ryzen 7 7950X3D systems configured as follows: GIGABYTE X870E AORUS MASTER, 32GB DDR5-6000, Nvidia RTX 4090, KRAKEN X63, Win 11 Pro 26100, VBS ON, SAM/REBAR ON. System manufacturers may vary configurations, yielding different results.

GNR-28: Testing as of Nov 2024 by AMD Performance Labs using the following game titles tested at 1080p high settings: Black Myth: Wukong, Avatar: Frontiers of Pandora, Hogwarts Legacy, Call of Duty: Black Ops, Starfield, CyberPunk 2077, Counter Strike 2, Finaly Fantasy XIV, Hitman 3, Warhammer 20,000: Space Marine 2, Watch Dogs: Legion, Far Cry 6, Ashes of the Singularity. AMD Ryzen 9 9950X3D system configuration: GIGABYTE X870E AORUS MASTER, 32GB DDR5-6000, Nvidia RTX 4090, KRAKEN X63, Win 11 Pro 26100, VBS ON, SAM/REBAR ON. Intel Core Ultra 9 285K system configuration: ASUS ROG STRIX Z890-E GAMING WIFI, 32GB DDR5-6400, Nvidia RTX 4090, KRAKEN X63, Win 11 Pro 26100, VBS ON, SAM/REBAR ON. System manufacturers may vary configurations, yielding different results.

GNR-29: Testing as of Nov 2024 by AMD Performance Labs using the following benchmarks: PugetBench Premiere Pro 24.5, PugetBench Photoshop 25.11, PugetBench Davinci Resolve 19.0.1. Geekbench 6.3, Blender 4.2.3 Monster and Classroom, Corona Benchmark, Cinebench 2024. Both AMD Ryzen 9 9950X3D and Ryzen 7 7950X3D systems configured as follows: GIGABYTE X870E AORUS MASTER, 32GB DDR5-6000, Nvidia RTX 4090, KRAKEN X63, Win 11 Pro 26100, VBS ON, SAM/REBAR ON. System manufacturers may vary configurations, yielding different results.

GNR-30: Testing as of Nov 2024 by AMD Performance Labs using the following benchmarks: PugetBench Premiere Pro 24.5, PugetBench Photoshop 25.11, PugetBench Davinci Resolve 19.0.1. Geekbench 6.3, Blender 4.2.3 Monster and Classroom, Corona Benchmark, Cinebench 2024. AMD Ryzen 9 9950X3D system configuration: GIGABYTE X870E AORUS MASTER, 32GB DDR5-6000, Nvidia RTX 4090, KRAKEN X63, Win 11 Pro 26100, VBS ON, SAM/REBAR ON. Intel Core Ultra 9 285K system configuration: ASUS ROG STRIX Z890-E GAMING WIFI, 32GB DDR5-6400, Nvidia RTX 4090, KRAKEN X63, Win 11 Pro 26100, VBS ON, SAM/REBAR ON. System manufacturers may vary configurations, yielding different results.

Endnotes

KRK-4: Testing as of Nov 2024 by AMD using Handbrake and Blender benchmarks tested in balanced Mode with VBS ON. AMD Ryzen AI 7 350: AMD reference board, 28W TDP, 32GB RAM, 1TB SSD, Win 11 26100. Intel Core Ultra 9 288V: ASUS Zenbook S 14, Intel Arc graphics, 32GB RAM, 1TB SSD, Win 11 26100. Intel Core Ultra 7 258V: ASUS Zenbook S 14, 32GB RAM, 1TB SSD, Win 11 26100. Qualcomm X Plus X1P-42-100: ASUS Vivobook S 15, Qualcomm Adreno graphics, 16GB RAM, 512GB SSD, Win 11 26100. Laptop manufactures may vary configurations yielding different results.

KRK-6: Testing as of Nov 2024 by AMD using Procyon AI computer vision test. Configurations tested: AMD reference board with AMD Ryzen AI 7 350 processor, 32GB RAM, 1TB SSD; ASUS Zenbook with Core Ultra 7 258V, 32GB RAM, 1TB SSD; ASUS Vivobook with Core Ultra 5 226V, 16GB RAM, 512MB SSD; Samsung Galaxybook with Qualcomm X Elite X1E-84-100, 16GB RAM, 1TB SSD; Dell Latitude with Qualcomm X Elite X1E-80-100 processor, 32GB RAM, 1TB SSD; Lenovo Thinkpad T14s with Qualcomm X Elite X1E-78-100 processor, 32GB RAM, 1TB SSD; Dell Latitude with Qualcomm X Plus X1P-64-100, 16GB, 1TB SSD; ASUS Vivobook with Qualcomm X1P-42-100, 16GB RAM, All tested with Win11 OS 10.0.26100 and VBS ON. Laptop manufactures may vary configurations yielding different results.

KRKP-1: Based on testing and engineering projections as of Dec 2024 using video playback, web browsing, Microsoft Teams, and MobileMark25 battery life methodology. System configurations: Ryzen 7 PRO processor, 13” laptop, WUXGA(19x12) LCD display, 56Whr battery, 16GB RAM, 256GB SSD. Ryzen PRO AI 7 350 processor, 13” laptop, WUXGA(19x12) LCD display, 62Whr battery, 16GB RAM, 256GB SSD.

GD-173a: AMD defines “All Day Battery Life” as at least 8 hours of continuous battery life and "Multi-Day battery Life" as continuous runtime above 8 hours. All battery life scores are approximate. Actual battery life will vary based on several factors, including, but not limited to: system configuration and software, settings, product use and age, and operating conditions.

GD-243: Trillions of Operations per Second (TOPS) for an AMD Ryzen processor is the maximum number of operations per second that can be executed in an optimal scenario and may not be typical. TOPS may vary based on several factors, including the specific system configuration, AI model, and software version.

SHO-07: Testing as of Dec 2024 using the following benchmark scores compared to an Intel Core Ultra 9 288V: Cinebench 2024 nT, Blender Classroom, Vray CPU, Corona. Configuration for AMD Ryzen™ AI Max+ 395 processor: AMD reference board, Radeon™ 8060S graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Intel Core Ultra 9 288V: ASUS Zenbook X 14, Intel Arc Graphics, 32GB RAM, 1TB SSD, Microsoft Windows 11 Home. Laptop manufacturers manufactures may vary configurations yielding different results.

SHO-09: Testing as of Dec 2024 using using the 3DMark scores compared to Intel Core Ultra 9 288V. Configuration for AMD Ryzen™ AI Max+ 395 processor: AMD reference board, Radeon™ 8060S graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Intel Core Ultra 9 288V: ASUS Zenbook X 14, Intel Arc Graphics, 32GB RAM, 1TB SSD, Microsoft Windows 11 Home. Laptop manufacturers manufactures may vary configurations yielding different results.

SHO-12: Testing as of Dec 2024 using the following benchmarks compared to Apple M4 Pro (12 core and 14 core CPU models): Cinebench 2024 nT, Blender, Corona, Vray, Davinci Resolve, and Handbrake. Next Gen AI PC defined as a PC with a minimum 40 TOPS NPU. Configuration for AMD Ryzen™ AI Max+ 395 processor: AMD reference board, Radeon™ 8060S graphics, 32GB RAM, 1TB SSD, VBS=ON, Windows 11. Configuration for Apple M4 Pro (14”/12 core CPU and 16”/14 core CPU): Apple Macbook Pro 2024, 16/20 core GPU, 48GB RAM, macOS Sequoia (x64) Build 15.1.1. Laptop manufacturers manufactures may vary configurations yielding different results.

SHO-13: Testing as of Dec 2024 using Llama 70b 3.1 Nemotron Q4 K M quantization running through llama.cpp and LM Studio. Input prompt length 100 token prompt. Next Gen AI PC defined as a PC with a minimum 40 TOPS NPU. System configuration for Ryzen AI Max+ 395: AMD reference board, 55W TDP, Radeon™ 8060S graphics, 128GB RAM, 1TB SSD, using Llama 3.1. Configuration for Nvidia RTX 4070: ASUS ProArt P16, Ryzen AI 9 HX 370 processor, 64GB RAM, 2 TB SSD, Windows 11. (https://blogs.nvidia.com/blog/ai-decoded-lm-studio/). Manufactures may vary configurations yielding different results.

Endnotes

SHO-14: Testing as of Dec 2024 using Llama 70b 3.1 Nemotron Q4 K M quantization running through llama.cpp and LM Studio. Input prompt length 100 token prompt. System configuration for Ryzen AI Max+ 395: AMD reference board, 55W TDP, Radeon™ 8060S graphics, 128GB RAM, 1TB SSD, using Llama 3.1. Configuration for Nvidia RTX 4090: ASUS ProArt X670E-CREATOR WIFI motherboard, AMD Ryzen 9 7900X processor, 32GB system RAM, 40GB GPU memory, 1TB SSD, Windows 11. (https://blogs.nvidia.com/blog/ai-decoded-lm-studio/). Manufactures may vary configurations yielding different results.

GD-206: Full system memory encryption with AMD Memory Guard is included in AMD Ryzen PRO, AMD Ryzen Threadripper PRO, and AMD Athlon PRO processors. Requires OEM enablement. Check with the system manufacturer prior to purchase.

STXP-06: Based on AMD product specifications and competitive products announced as of Oct 2024. AMD Ryzen™ AI PRO 300 Series processors' NPU offers up to 55 peak TOPS. This is the most TOPS offered on any system found in enterprise today. AI PC is defined as a laptop PC with a processor that includes a neural processing unit (NPU).

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