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Performance varies by use, configuration and other factors. Learn more at [www.intel.com/PerformanceIndex](https://www.intel.com/PerformanceIndex).

Performance hybrid architecture combines two core microarchitectures, Performance-cores (P-cores) and Efficient-cores (E-cores), on a single processor die first introduced on 12th Gen Intel® Core™ processors. Select 12th Gen and newer Intel® Core™ processors do not have performance hybrid architecture, only P-cores or E-cores, and may have the same cache size. See [ark.intel.com](https://ark.intel.com) for SKU details, including cache size and core frequency.

Built into the hardware, Intel® Thread Director is provided only in performance hybrid architecture configurations of 12th Gen or newer Intel® Core™ processors; OS enablement is required. Available features and functionality vary by OS.

AI features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Data latency, cost, and privacy advantages refer to non-cloud-based AI apps. Learn more at [intel.com/AIPC](https://intel.com/AIPC).

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Built-in Intel® Arc™ GPU only available on select Intel® Core™ Ultra (Series 2) processor-powered systems. OEM enablement required. Check with OEM or retailer for system configuration.

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6GHz Wi-Fi 6E operation requires use of Intel® Wi-Fi 6E (Gig+) products in conjunction with operating systems and routers/APs/Gateways that support Wi-Fi 6E, together with regional spectrum allocation and required regulatory certifications. Visit [intel.com/performance-wireless](https://intel.com/performance-wireless) for details.

While Wi-Fi 7 is backward compatible with previous generations, new Wi-Fi 7 features require PCs configured with Intel Wi-Fi 7 solutions, PC OEM enabling, operating system support, and use with appropriate Wi-Fi 7 routers/APs/gateways. 6 GHz Wi-Fi 7 may not be available in all regions. Performance varies by use, configuration, and other factors. For details on performance claims, learn more at [www.intel.com/performance-wireless](https://www.intel.com/performance-wireless).

Altering clock frequency or voltage may void any product warranties and reduce stability, security, performance, and life of the processor and other components. Learn more at [intel.com/overclocking](https://intel.com/overclocking).

Overclocking results will vary. The 200S Boost profile does not guarantee that any overclocking frequencies will be achievable or stable or that any level of performance will be achievable.

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# Intel<sup>®</sup> Core<sup>™</sup> Ultra 200S Series Processors

SEPTEMBER 2025

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Intel Core Ultra 200S Series Processors

# The Cooler and More Efficient Gaming CPU

## Impressive power efficient gaming performance

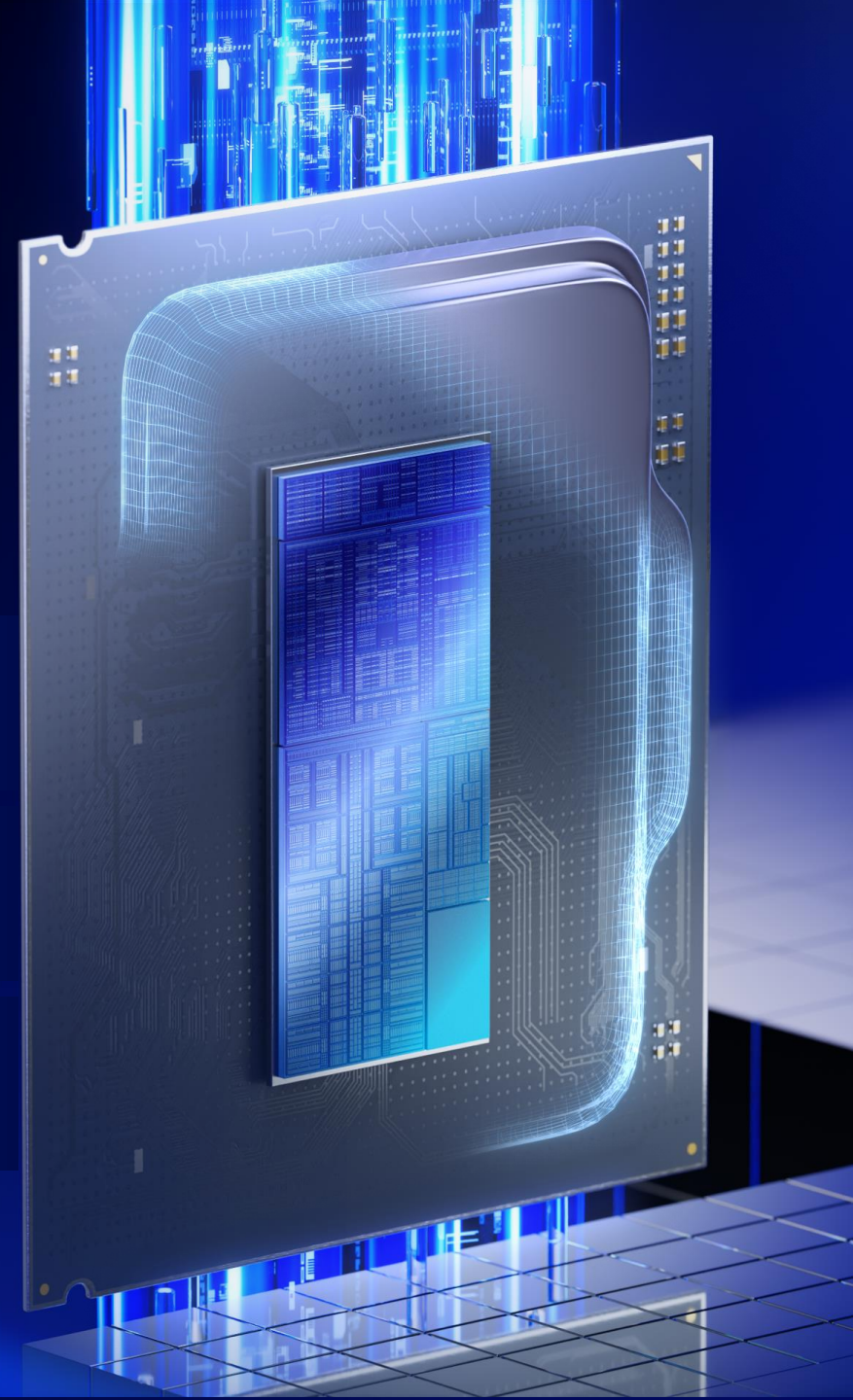
Skymont, Lion Cove, and Foveros team up for notable perf/W gains

## Highest multithread performance

Up to 24 cores for industry-leading compute throughput on desktop PCs

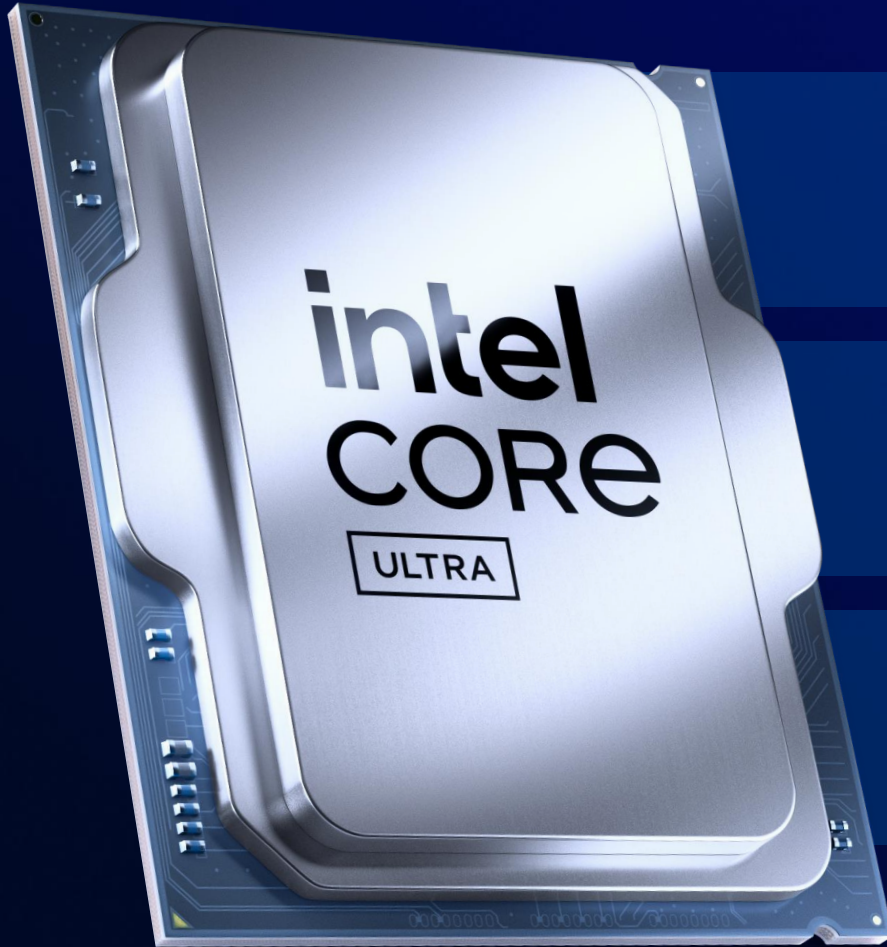
## Feature-rich enthusiast experience

Xe-LPG for new codecs; ~36 TOPS for desktop AI PC; integrated Thunderbolt™ 4



As of October 2024, among desktop processors targeting ~125W TDP. For more information, go to [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.

# What Is an Intel Core Ultra K-Series Processor?



**High-performance desktop processor**  
For the PC enthusiast gamer and creator

**Unlocked for overclocking**  
Custom-tune your PC for even more performance

**Features integrated graphics**  
Perfect for hardware acceleration like Intel Quick Sync

# Intel® Core™ Ultra 200S Processors

## Power for Every Possibility



### Ultra performance for enthusiast gaming and content creation

Intel® Core™ Ultra 9 desktop processors are the ultimate choice for PC enthusiasts demanding top-tier gaming and content creation. Enjoy smooth and responsive gaming at high resolutions thanks to optimized cores and high-speed memory support. Create content with ease and experience blazing-fast rendering, AI-accelerated workflows, and real-time 4K editing, powered by advanced multithreading and a multitude of cores. Whether gaming at the highest resolution, streaming flawlessly, or pushing creative boundaries, Intel Core Ultra 9 desktop processors power every play and project with unmatched speed and efficiency.



### Highly efficient, balanced performance

Intel® Core™ Ultra 7 desktop processors deliver the perfect blend of balanced performance for high-performance gaming and content creation. Ideal for serious gamers, streamers, and creators, its power-efficient architecture keeps thermals in check for extended sessions. Built-in AI accelerators enable exploration of the latest AI features and applications. Whether you're gaming competitively, editing videos, or streaming to your audience, Intel Core Ultra 7 desktop processors deliver the speed and performance to excel at it all.



### Flexible performance for gaming and more

Intel® Core™ Ultra 5 desktop processors deliver next-gen performance at an accessible price. With high-speed cores, built-in AI accelerators, and DDR5 memory support, enjoy smooth gameplay, explore AI applications, and multitask seamlessly. Perfect for playing the latest games or editing quick creative projects, Intel Core Ultra 5 desktop processors deliver seamless, powerful experiences on a future-ready platform.

# Intel® Core™ Ultra 200S Series Processors

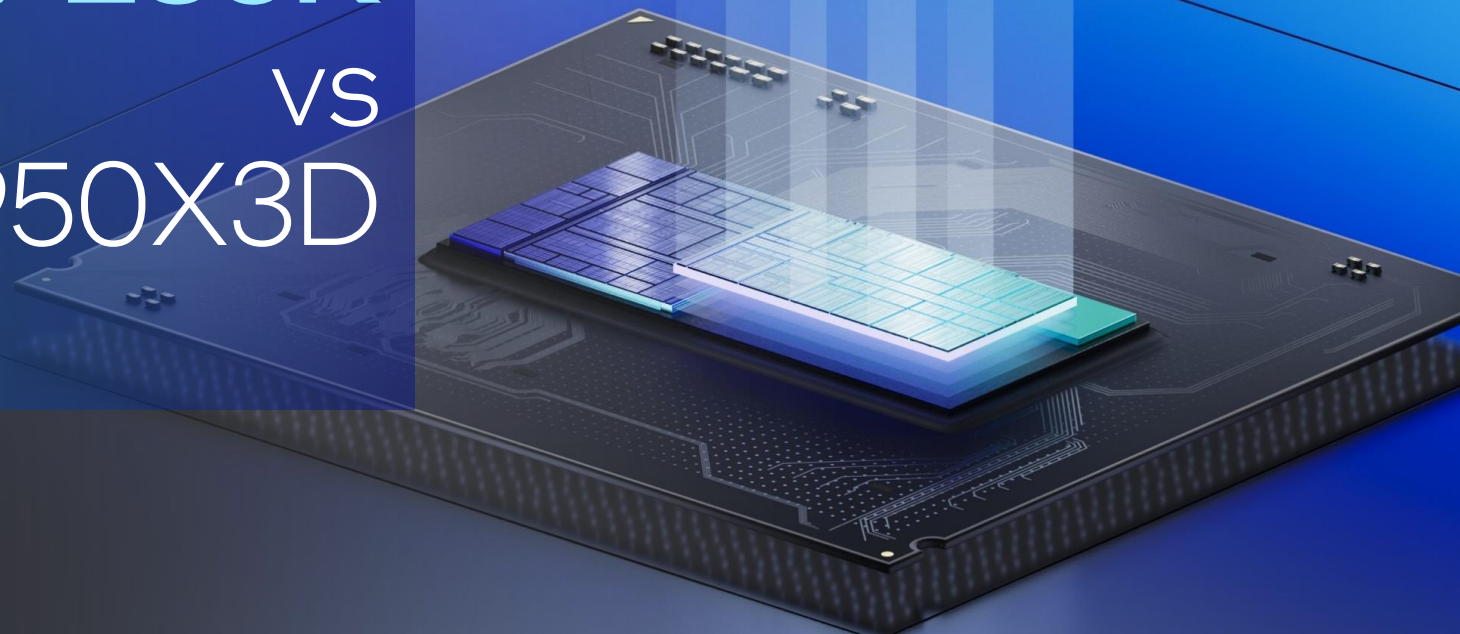
Game. Create. And Everything Else.

|                          |                            | Cores     | CPU<br>Threads | Max Turbo Freq. | GPU<br>GPU Cores | NPU<br>TOPS | Base Power<br>Watts | Competitive Comparison                                                               |
|--------------------------|----------------------------|-----------|----------------|-----------------|------------------|-------------|---------------------|--------------------------------------------------------------------------------------|
| intel<br>CORE<br>ULTRA 9 | Intel® Core™ Ultra 9 285K  | 8+16 (24) | 24             | 5.7             | 4                | 13          | 125W                | AMD Ryzen 9 9950X3D<br>AMD Ryzen 9 9950X<br>AMD Ryzen 9 9900X3D<br>AMD Ryzen 9 9900X |
|                          | Intel® Core™ Ultra 9 285   | 8+16 (24) | 24             | 5.6             | 4                | 13          | 65W                 |                                                                                      |
| intel<br>CORE<br>ULTRA 7 | Intel® Core™ Ultra 7 265K  | 8+12 (20) | 20             | 5.5             | 4                | 13          | 125W                | AMD Ryzen 7 9800X3D<br>AMD Ryzen 7 9700X                                             |
|                          | Intel® Core™ Ultra 7 265KF | 8+12 (20) | 20             | 5.5             | N/A              | 13          | 125W                |                                                                                      |
|                          | Intel® Core™ Ultra 7 265F  | 8+12 (20) | 20             | 5.3             | N/A              | 13          | 65W                 | AMD Ryzen 7 9700X                                                                    |
|                          | Intel® Core™ Ultra 7 265   | 8+12 (20) | 20             | 5.3             | 4                | 13          | 65W                 |                                                                                      |
| intel<br>CORE<br>ULTRA 5 | Intel® Core™ Ultra 5 245K  | 6+8 (14)  | 14             | 5.2             | 4                | 13          | 125W                |                                                                                      |
|                          | Intel® Core™ Ultra 5 245KF | 6+8 (14)  | 14             | 5.2             | N/A              | 13          | 125W                |                                                                                      |
|                          | Intel® Core™ Ultra 5 245   | 6+8 (14)  | 14             | 5.1             | 4                | 13          | 65W                 | AMD Ryzen 5 9600X<br>AMD Ryzen 5 9600                                                |
|                          | Intel® Core™ Ultra 5 235   | 6+8 (14)  | 14             | 5               | 3                | 13          | 65W                 |                                                                                      |
|                          | Intel® Core™ Ultra 5 225F  | 6+4 (10)  | 10             | 4.9             | N/A              | 13          | 65W                 |                                                                                      |
|                          | Intel® Core™ Ultra 5 225   | 6+4 (10)  | 10             | 4.9             | 2                | 13          | 65W                 | AMD Ryzen 5 9600X<br>AMD Ryzen 5 9600                                                |

# Intel Core Ultra 9 285K

vs

# AMD Ryzen 9 9950X3D



# The complete package for PC enthusiasts

## Intel Core Ultra 9 285K

**ON PAR**

Gaming performance  
per \$

Suggested retail pricing / geometric mean  
11 games



**ON PAR**

Multi Core Performance

vs. AMD Ryzen™ 9 9950X3D,  
Cinebench 2024 Multi Core

up to **+7%**

Faster 3D Rendering

vs. AMD Ryzen™ 9 9950X3D,  
KeyShot

up to **+17%**

Faster Video Editing

vs. AMD Ryzen™ 9 9950X3D,  
Adobe After Effects

up to **+5%**

Faster Single Thread  
Performance

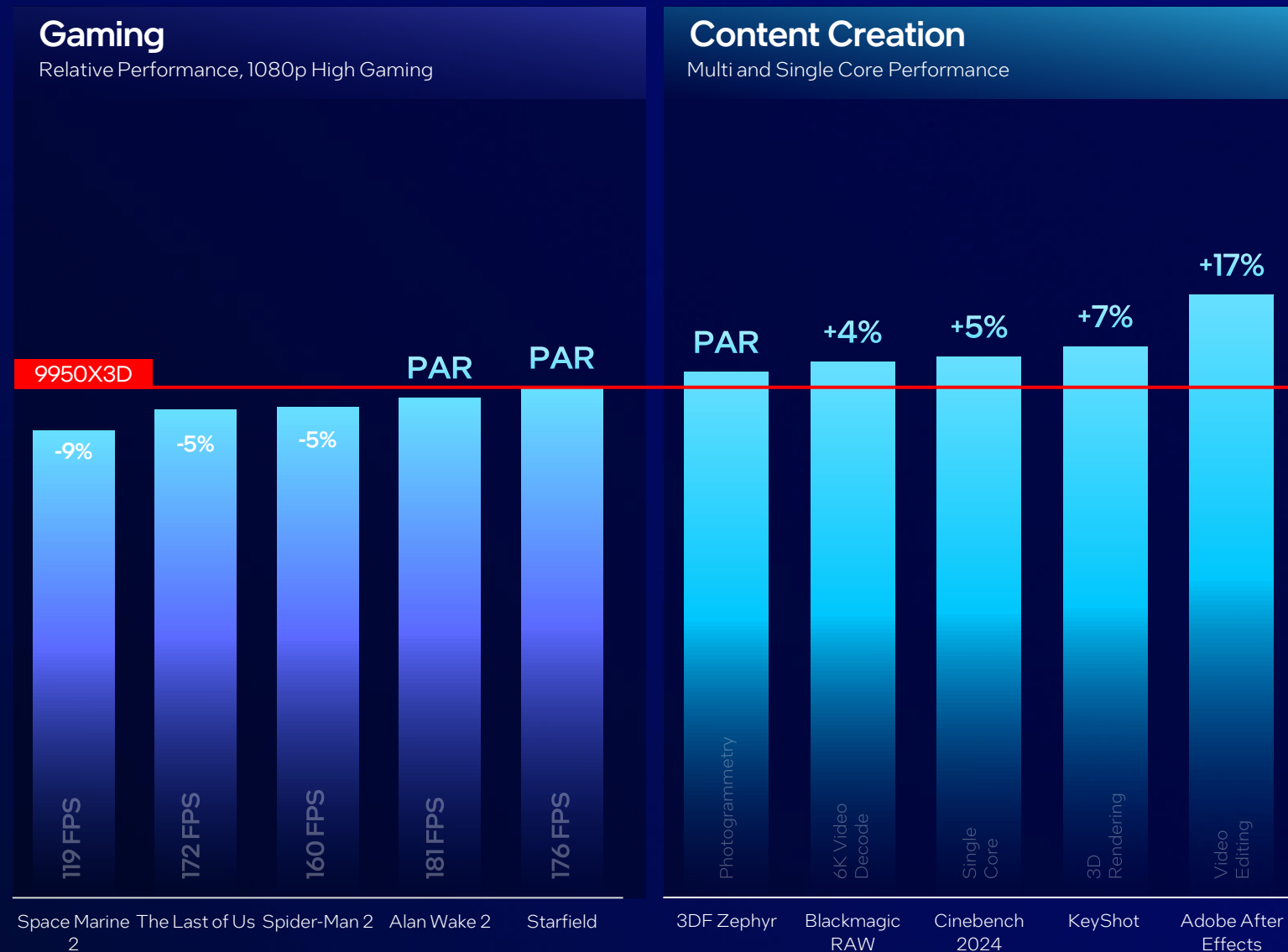
vs. AMD Ryzen™ 9 9950X3D,  
Cinebench 2024 Single Core



On par is +/-3%. As of April 2025. Results may vary based on use, configurations, and other factors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details.

# A Balanced Enthusiast Experience

Strong gaming and content creation in one package



# Intel Core Ultra 9 285K Top Benefits

1

## **Built to perform beyond gaming**

Delivers top-tier performance in gaming and content creation

2

## **Technology that goes above and beyond**

Customized experiences with overclocking, APO, Intel XTU, and more

3

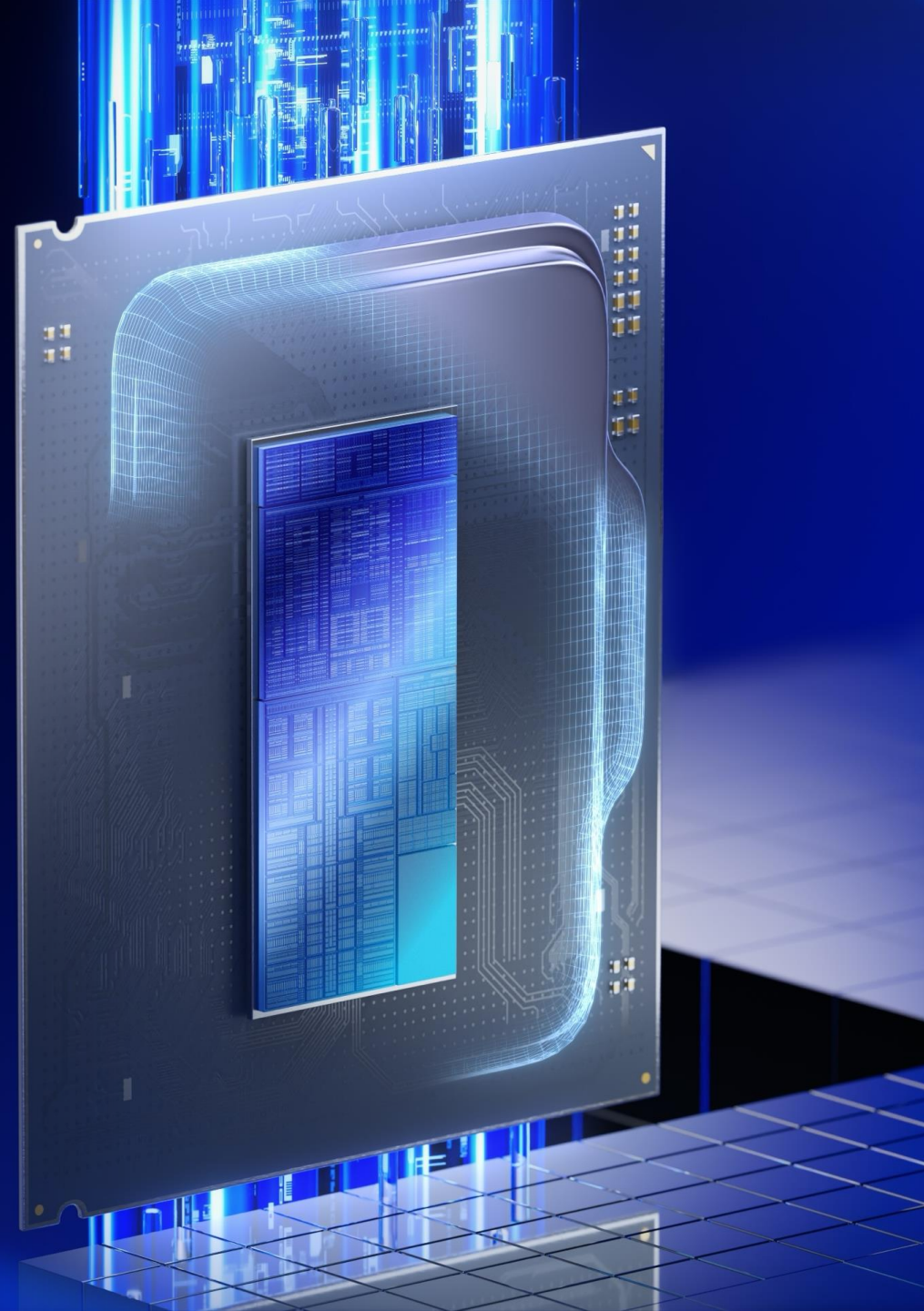
## **Modern platform support**

Enable PCIe® 5.0, DDR5-6400 MT/s, Wi-Fi 7, and Thunderbolt™ 5.0 support

# Intel Core Ultra 9 285K

VS

# AMD Ryzen 9 9950X



# The complete package for PC enthusiasts

## Intel Core Ultra 9 285K

**ON PAR**

Gaming performance  
per \$

Suggested retail pricing / geometric mean  
11 games



Multi Core Performance

vs. AMD Ryzen™ 9 9950X,  
Cinebench 2024 Multi Core

up to **+8%**

up to **+8%**

Faster 3D Rendering

vs. AMD Ryzen™ 9 9950X,  
KeyShot

up to **+17%**

Faster Video Editing

vs. AMD Ryzen™ 9 9950X, Adobe  
After Effects

up to **+4%**

Faster Single Thread  
Performance

vs. AMD Ryzen™ 9 9950X,  
Cinebench 2024 Single Core

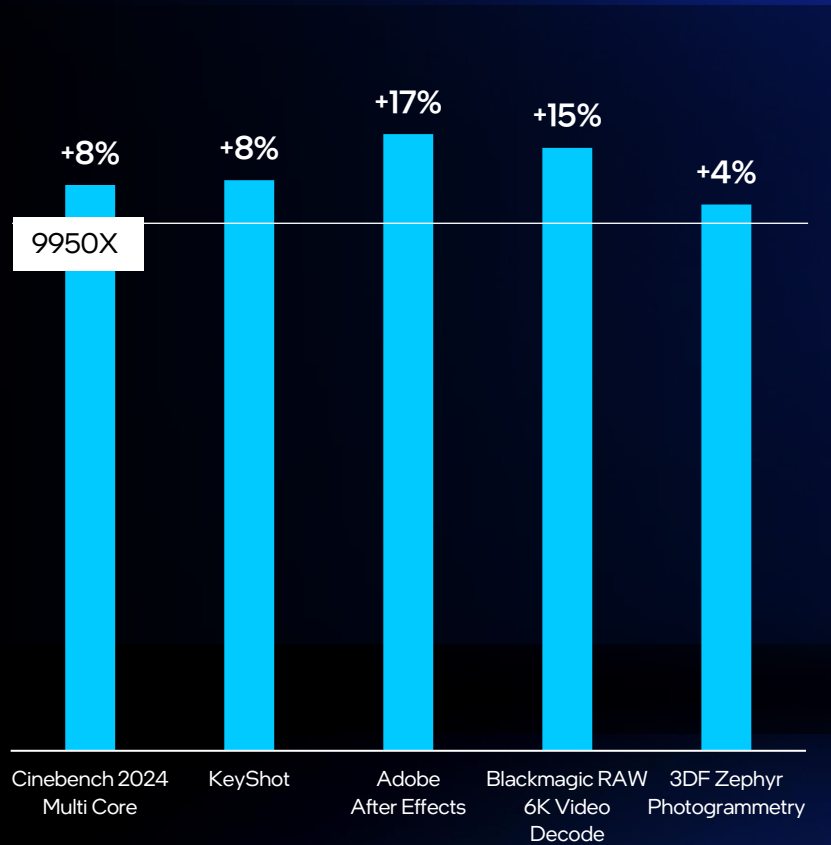


On par is +/-3%. As of April 2025. Results may vary based on use, configurations,  
and other factors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details.

# Intel Core Ultra 9 285K

## Leading Content Creation Paired with Elite Gaming

### Content Creation



### Gaming



1080p High Image Quality (Relative Performance)



Intel® Core™ Ultra 9 285K

— AMD Ryzen 9 9950X



On par is +/-3%.  
See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Results may vary.

# Intel Core Ultra 9 285K Top Benefits

1

## Smarter performance right out of the box

Perfect combination of gaming and creator performance

2

## Customize and tweak your performance

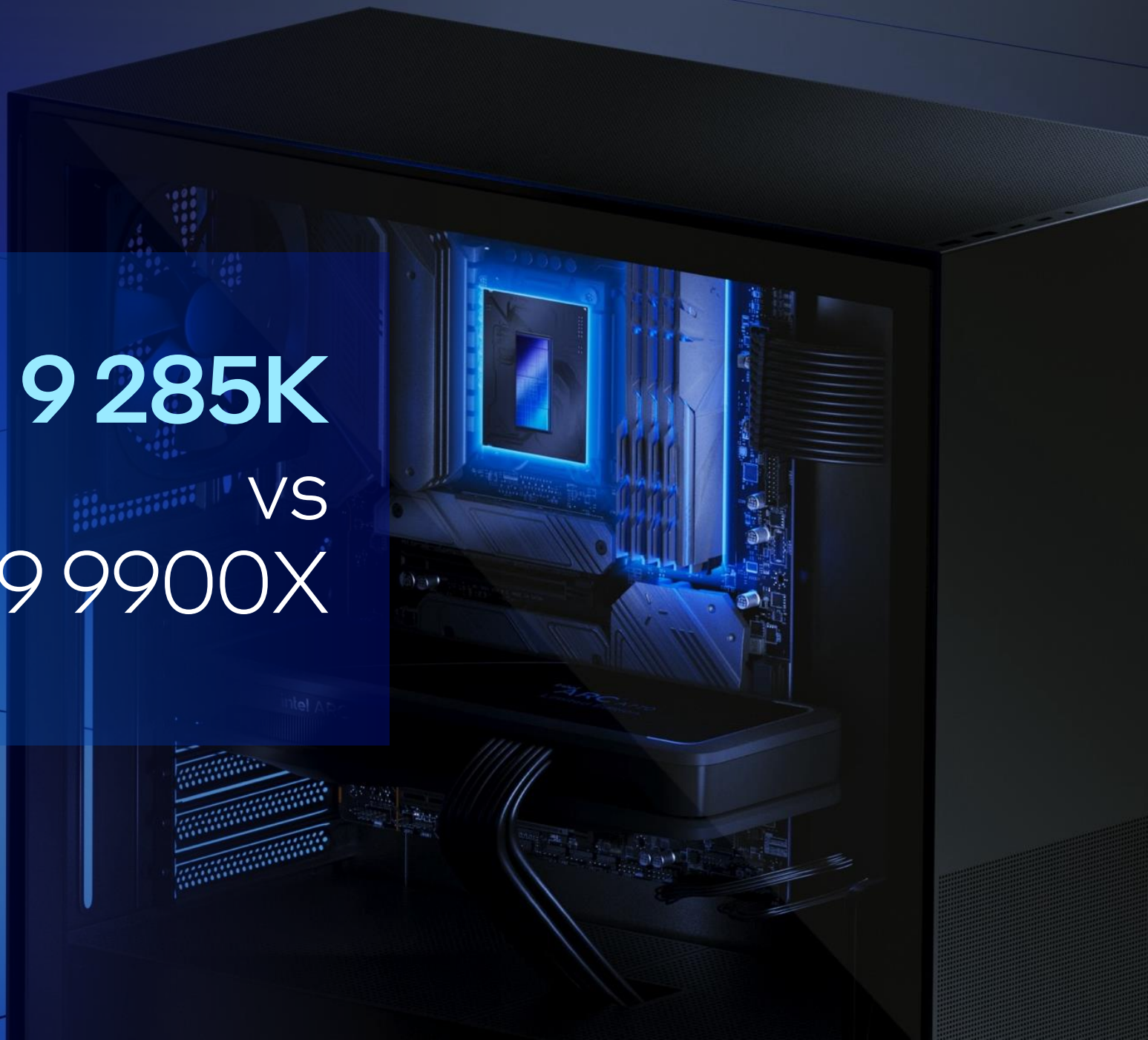
Featuring CPU and memory overclocking, APO, and more

3

## A platform built for what's next

With PCIe® 5.0, DDR5-6400 MT/s, Wi-Fi 7, and Thunderbolt™ 5.0 support

# Intel Core Ultra 9 285K vs AMD Ryzen 9 9900X



# The complete package for PC enthusiasts

## Intel Core Ultra 9 285K

Top-Tier  
Gaming  
FPS

Parity vs. AMD Ryzen™ 9 9900X,  
geomean 11 games



Multi Core Performance

vs. AMD Ryzen™ 9 9900X,  
Cinebench 2024 Multi Core

up to **+34%**

up to **+37%**

Faster 3D Rendering

vs. AMD Ryzen™ 9 9900X,  
KeyShot

up to **+32%**

Faster Video Editing

vs. AMD Ryzen™ 9 9900X, Adobe  
After Effects

up to **+5%**

Faster Single Thread  
Performance

vs. AMD Ryzen™ 9 9900X,  
Cinebench 2024 Single Core

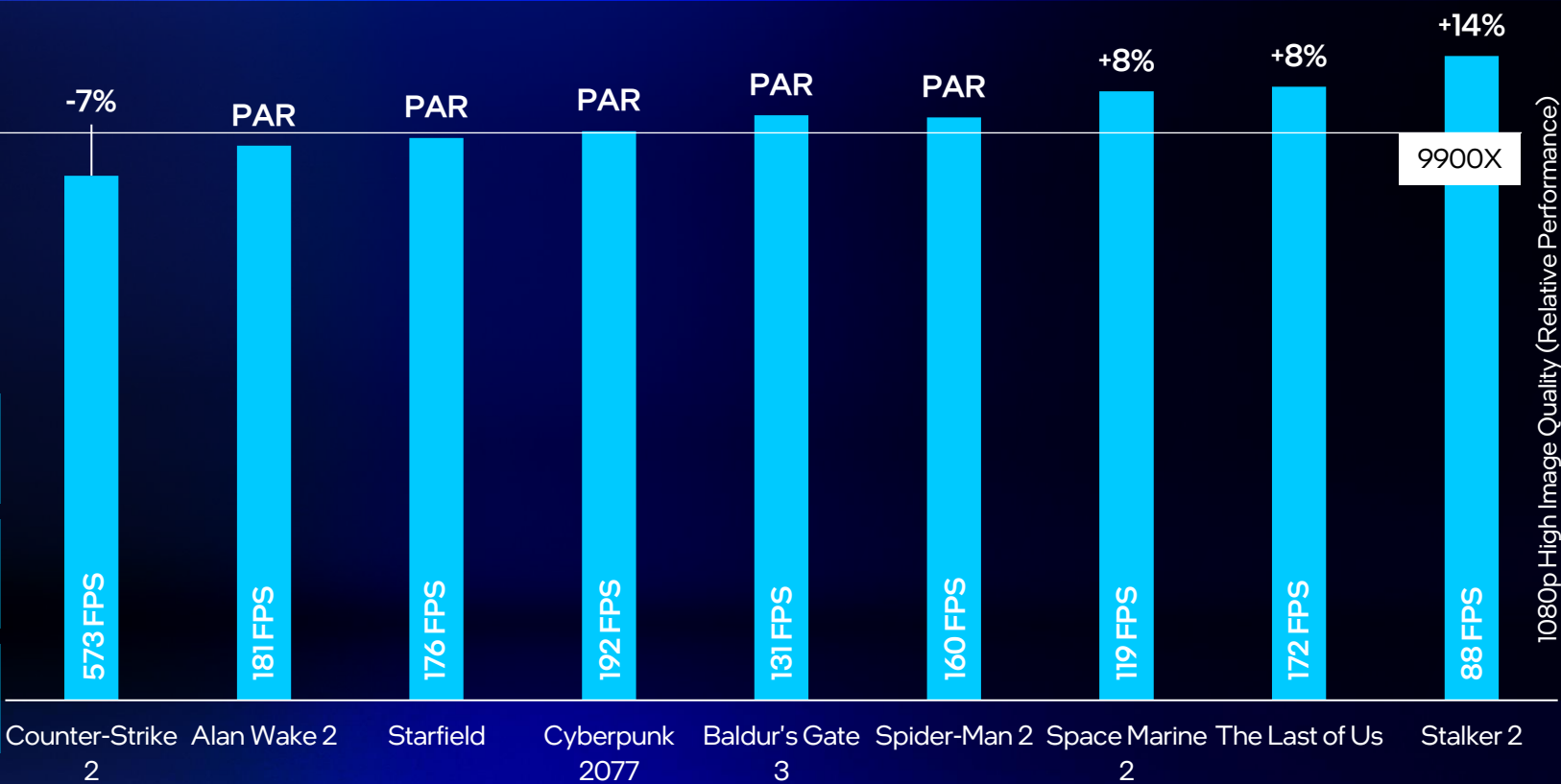


As of April 2025. Results may vary based on use, configurations, and other factors. See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details.

# Intel Core Ultra 9 285K vs. Ryzen 9 9900X

## 1080p Gaming Performance

- Top-tier gaming, no compromise
- Gaming efficiency personified
- Built for next-gen AI gaming



■ Intel® Core™ Ultra 9 285K

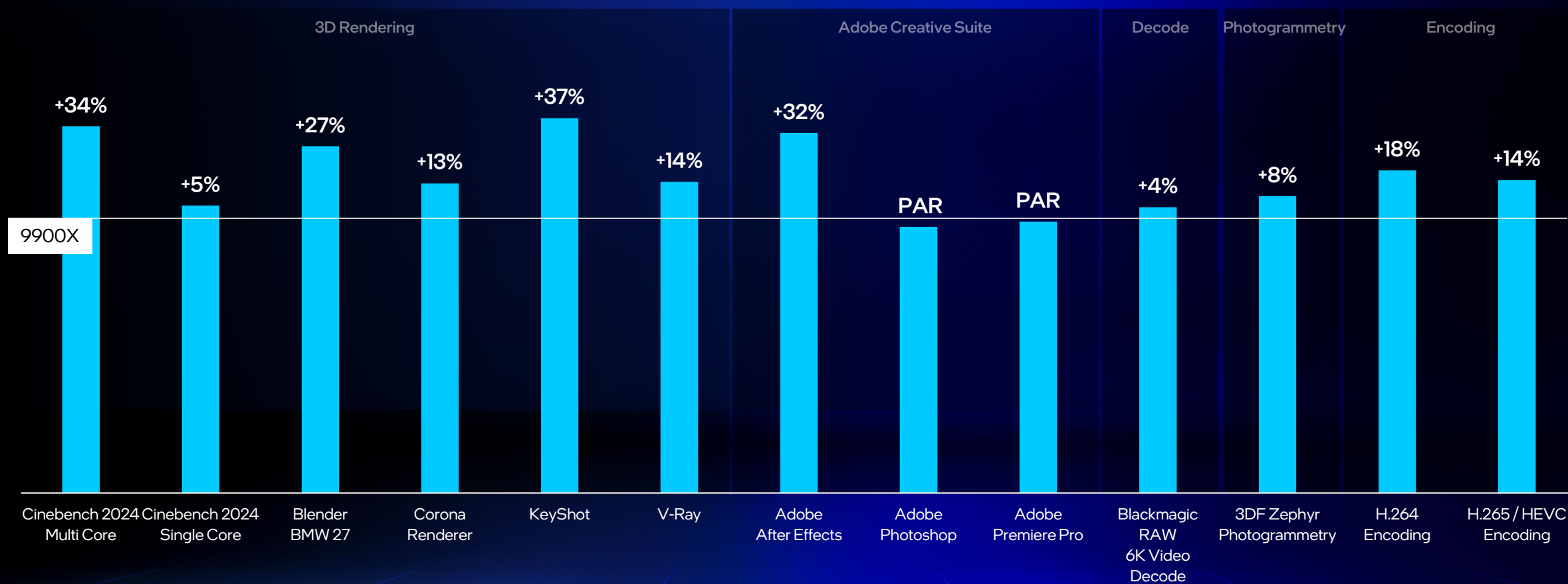
— AMD Ryzen 9 9900X



On par is +/-3%.  
See [intel.com/performanceindex](https://intel.com/performanceindex) for details. Results may vary.

# Intel Core Ultra 9 285K Performance for Creators

## Create Faster with Intel



Intel® Core™ Ultra 9 285K

— AMD Ryzen 9 9900X



On par is +/-3%.  
See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Results may vary.

# Intel Core Ultra 9 285K Top Benefits

1

## Leading content creation performance

This processor handles heavy multithreaded tasks with ease

2

## Modern memory and I/O leadership

DDR5, PCIe® 5.0, Thunderbolt™ 5, and Wi-Fi 7 technology

3

## Tuned for enthusiasts, built to push limits

Unlocked and ready to overclock with robust performance tuning tools



# Intel Core Ultra 7 265K vs AMD Ryzen 7 9700X

# The perfect balance of powerful gaming and creating

## Intel Core Ultra 7 265K

up to **+14%**

More gaming  
performance per \$

Suggested retail pricing / geometric mean  
11 games



up to **+78%**

Faster Multi core  
Performance

vs. AMD Ryzen™ 7 9700X,  
Cinebench 2024 Multi Core

up to **+84%**

Faster 3D Rendering

vs. AMD Ryzen™ 7 9700X,  
KeyShot

up to **+69%**

Faster Video Editing

vs. AMD Ryzen™ 7 9700X, Adobe  
After Effects

up to **+7%**

Faster Single Thread  
Performance

vs. AMD Ryzen™ 7 9700X,  
Cinebench 2024 Single Core

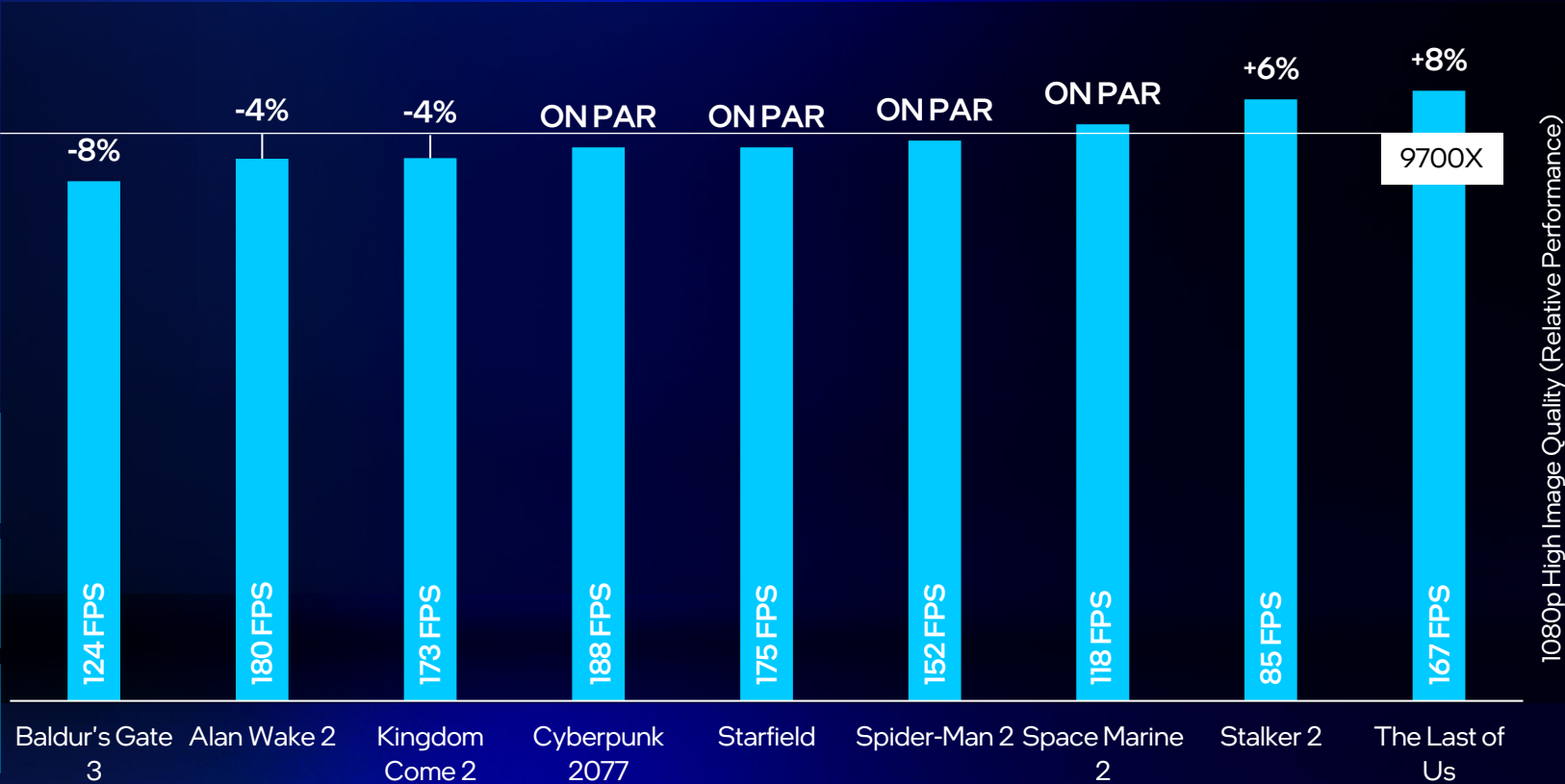


On par is +/-3%. As of April 2025. Results may vary based on use, configurations, and other factors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details.

# Intel Core Ultra 7 265K vs. Ryzen 7 9700X

## 1080p Gaming

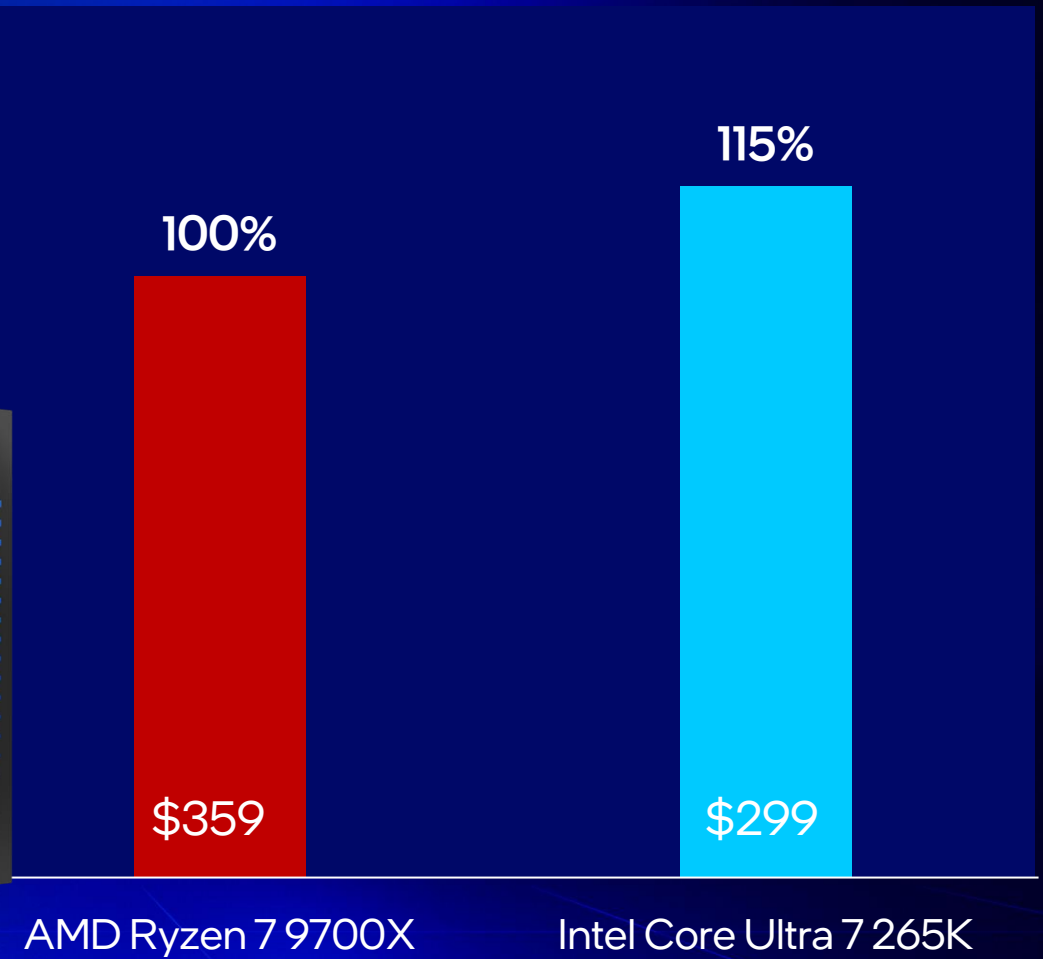
- Excellent gaming performance
- Powerful P-cores drive execution
- Built for next-gen AI gaming



■ Intel® Core™ Ultra 7 265K  
— AMD Ryzen 7 9700X

# Intel Core Ultra 7 265K Elite Gaming Performance Per Dollar

1080p Gaming  
Highest Quality Setting  
11 Game Geomean  
MSRP Price

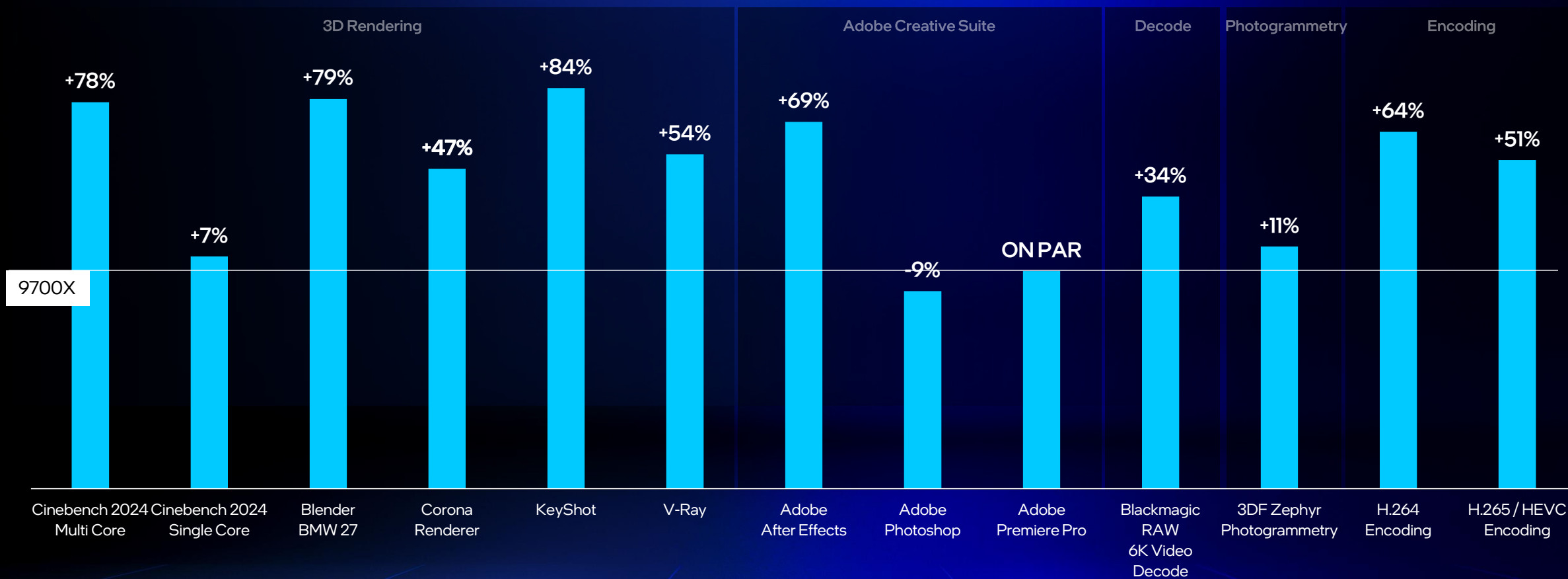


See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Results may vary.

AMD pricing source: [AMD Ryzen X account](#)

Intel pricing source: [Intel Announcement May 2025](#)

# Intel Core Ultra 7 265K Performance for Creators



■ Intel® Core™ Ultra 7 265K

— AMD Ryzen 7 9700X



On par is +/-3%.  
See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Results may vary.

# Intel Core Ultra 7 265K Top Benefits

1

**Most value for gamers in the mid-range segment**

Top performance per dollar

2

**The segment leader in content creation performance**

Multithread powerhouse processor

3

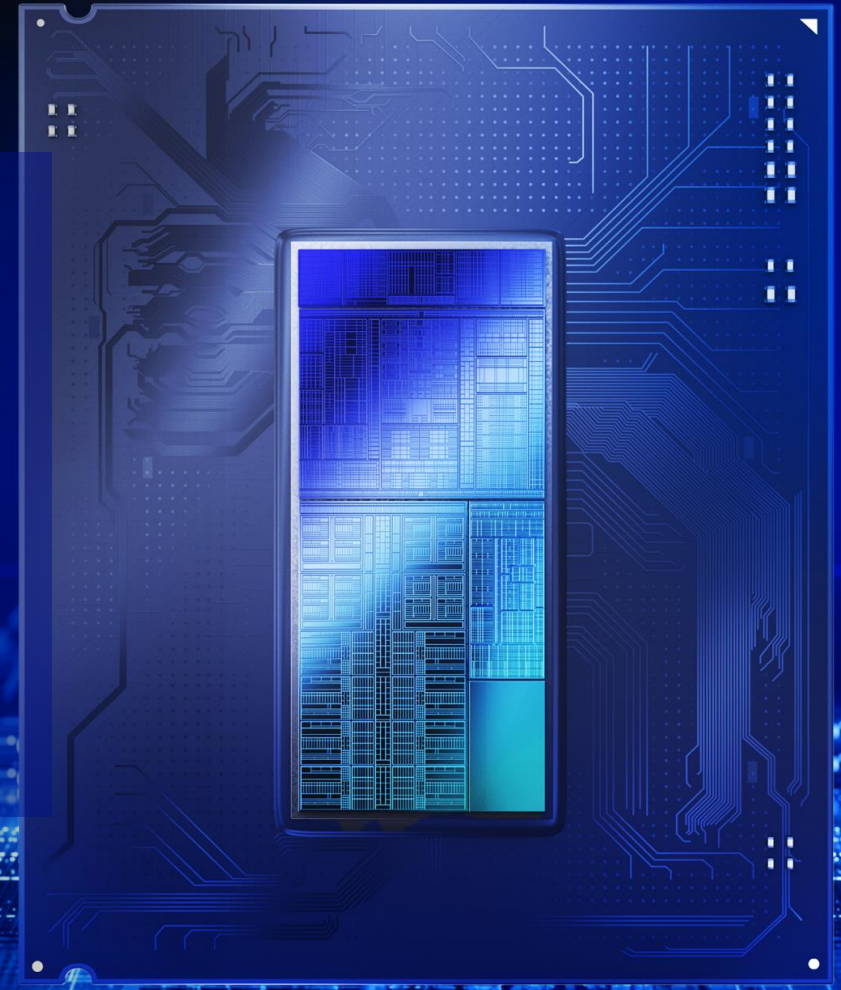
**A flexible platform for gamers and creators**

Support for PCIe® 5.0, DDR5, Wi-Fi 7 and Thunderbolt™ 5.0

# Intel Core Ultra 7 265K

VS

# AMD Ryzen 7 9800X3D



# The perfect balance of powerful gaming and creating

## Intel Core Ultra 7 265K

up to **+25%**

More gaming  
performance per \$

Suggested retail pricing / geometric mean  
11 games



up to **+52%**

Faster Multi Core  
Performance

vs. AMD Ryzen™ 7 9800X3D,  
Cinebench 2024 Multi Core

up to **+57%**

Faster 3D Rendering

vs. AMD Ryzen™ 7 9800X3D,  
KeyShot

up to **+44%**

Faster Video Editing

vs. AMD Ryzen™ 7 9800X3D,  
Adobe After Effects

up to **+7%**

Faster Single Thread  
Performance

vs. AMD Ryzen™ 7 9800X3D,  
Cinebench 2024 Single Core



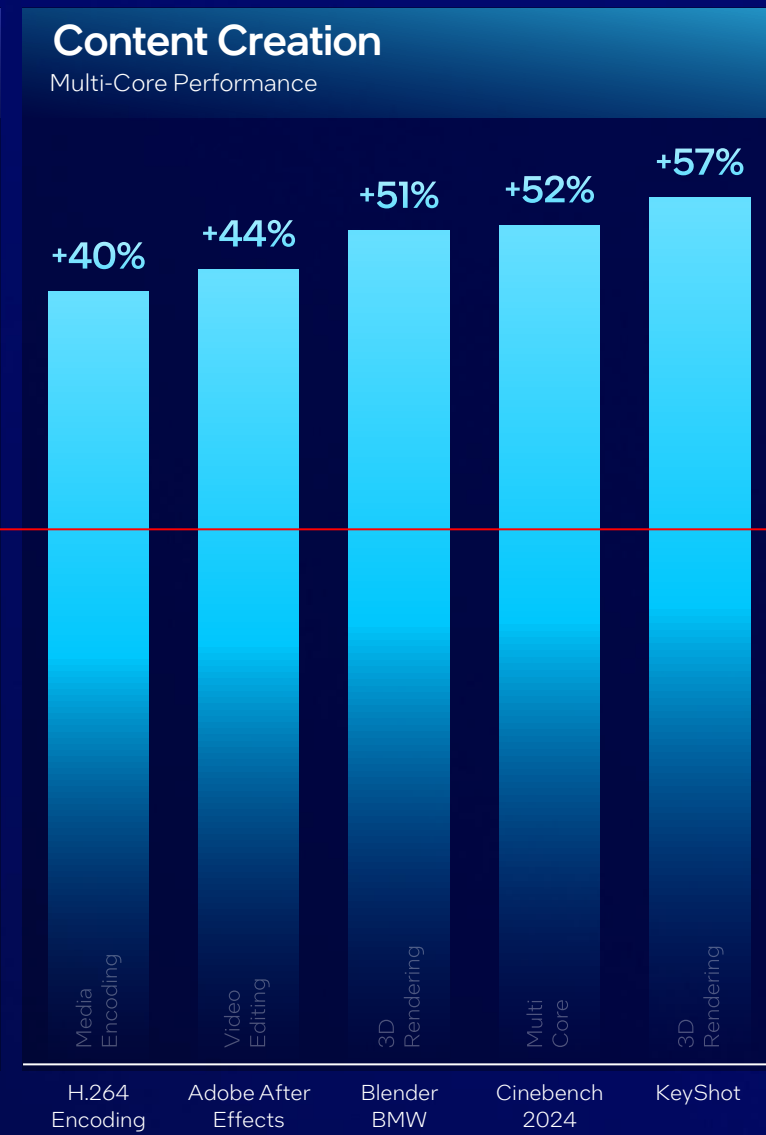
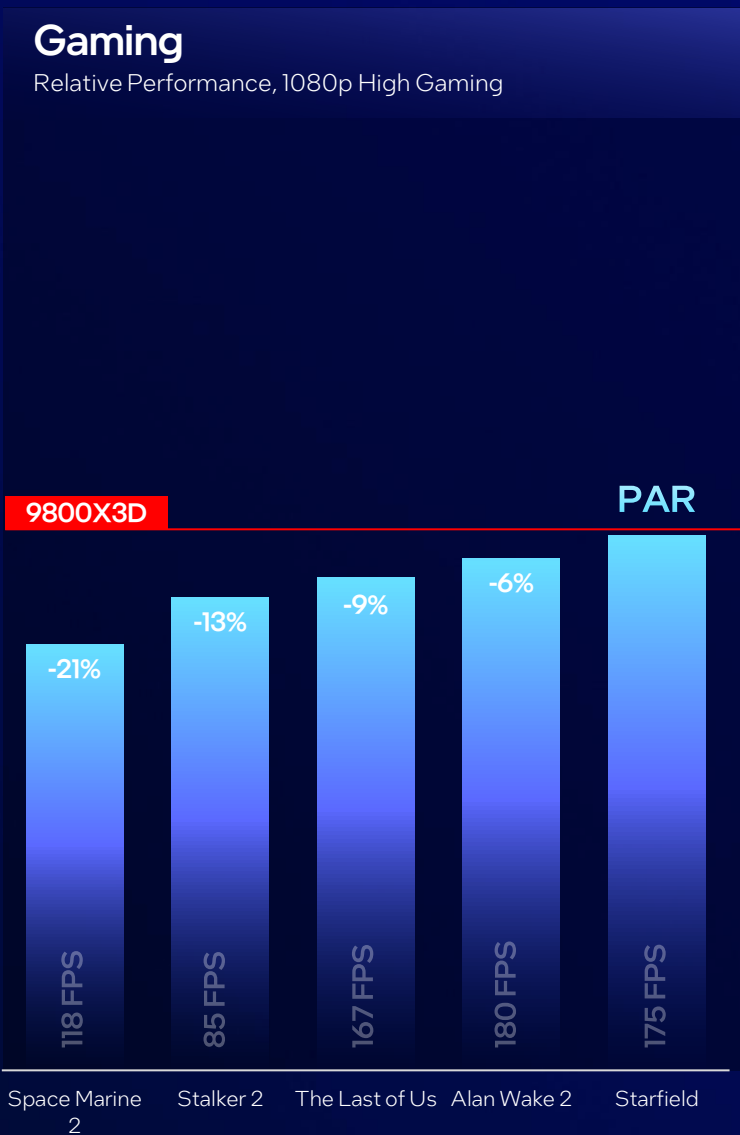
As of April 2025. Results may vary based on use, configurations, and other factors. See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details.

# A Balanced Enthusiast Experience

Strong gaming and superior content creation in one package

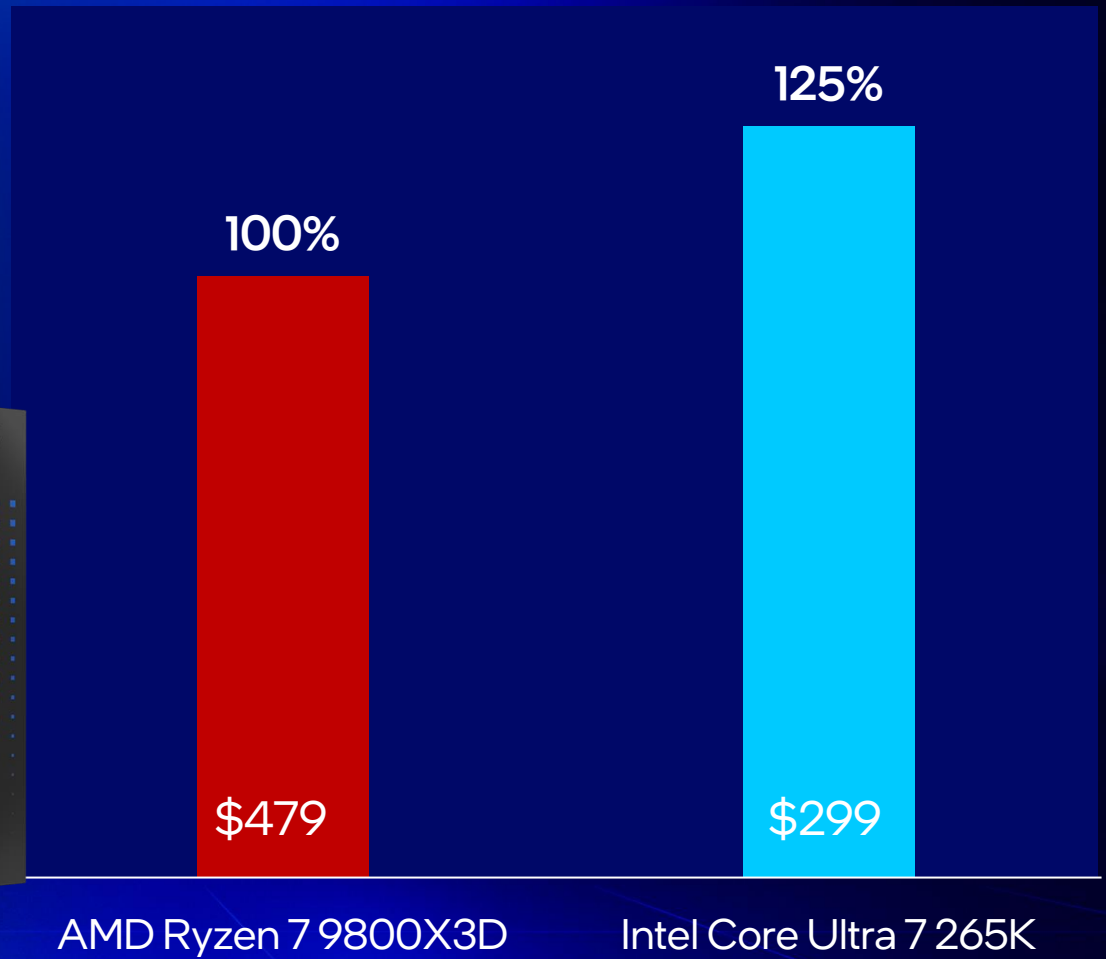
Intel® Core™ Ultra 7 265K

AMD Ryzen 7 9800X3D



# Intel Core Ultra 7 265K Premium Gaming Performance Per Dollar

1080p Gaming  
Highest Quality Setting  
11 Game Geomean  
MSRP Price

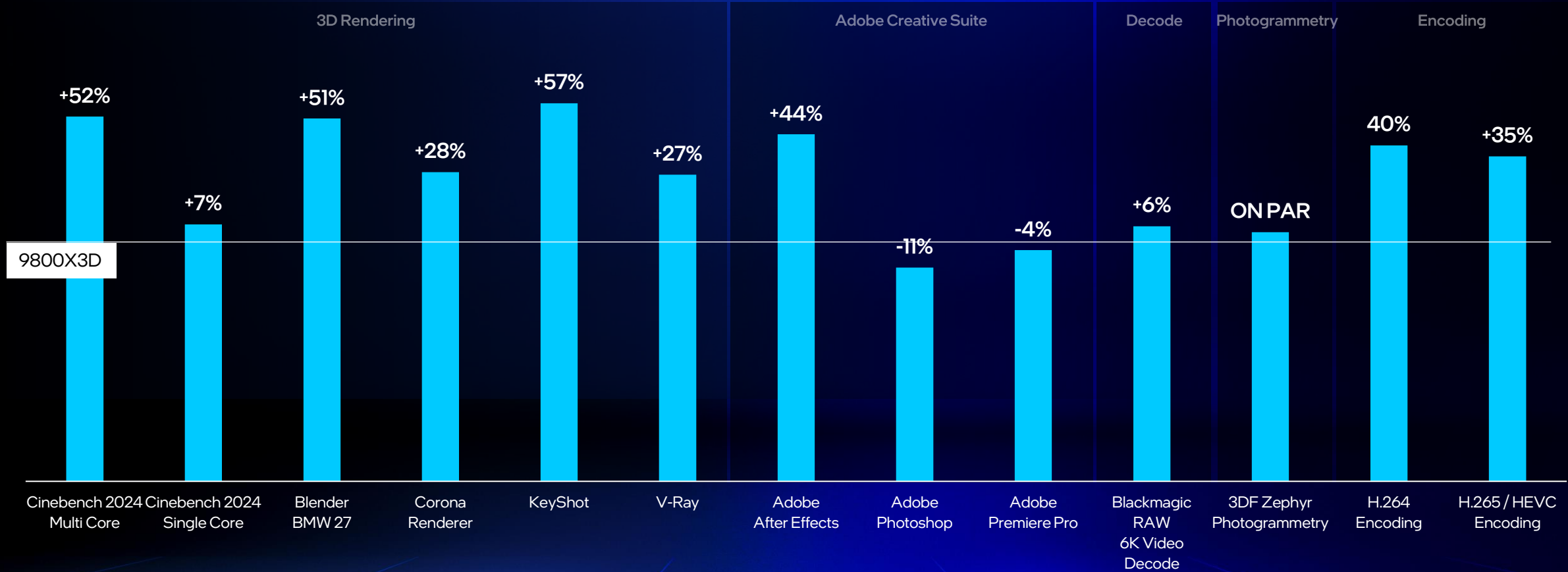


See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Results may vary.

AMD pricing source: [AMD press release](#)

Intel pricing source: [Intel Announcement May 2025](#)

# Intel Core Ultra 7 265K Performance for Creators



■ Intel® Core™ Ultra 7 265K  
— AMD Ryzen 7 9800X3D

# Intel Core Ultra 7 265K Top Benefits

1

**Creator workloads run faster**

Higher performance in content creation apps

2

**Can game and create with ease**

Gaming and creator powerhouse processor

3

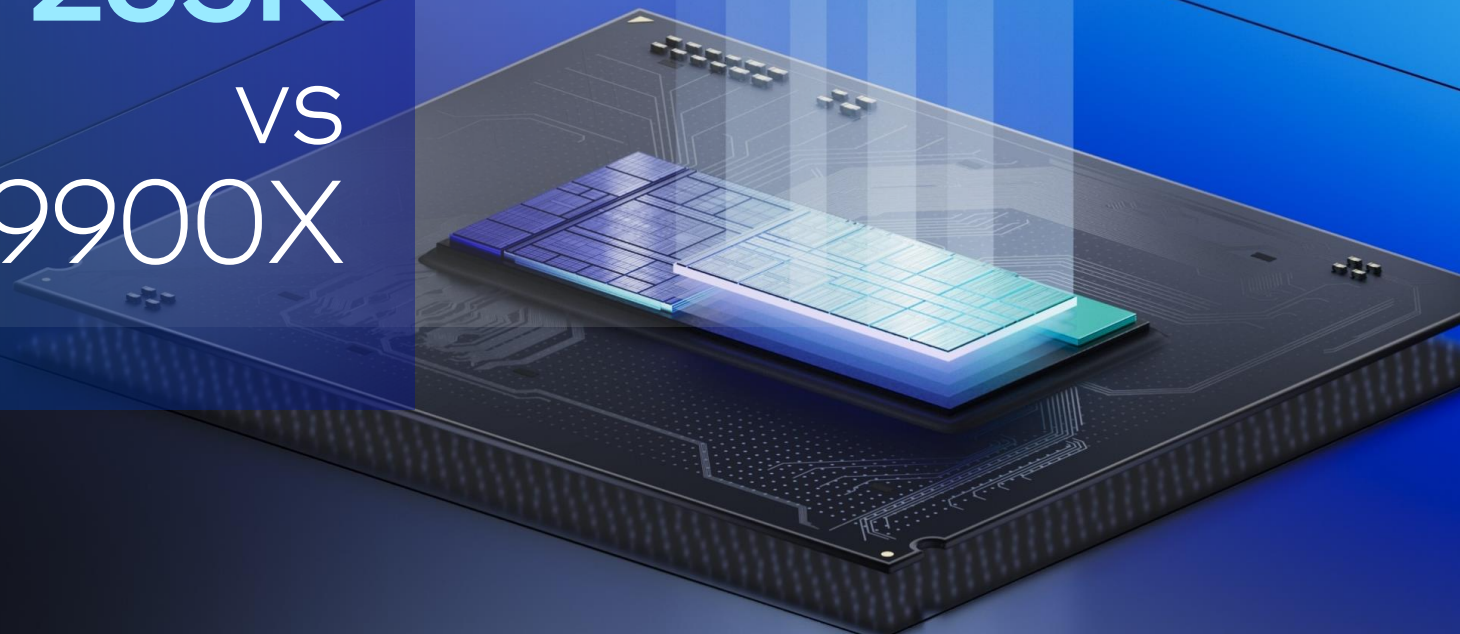
**A platform built for modern gamers and creators**

Support for PCIe® 5.0, DDR5-6400 MT/s, and Thunderbolt™ 5.0

# Intel Core Ultra 7 265K

vs

# AMD Ryzen 9 9900X



# Intel Core Ultra 7 265K Dominates an AMD Ryzen 9 9900X

up to **+66%**

More gaming performance per \$

Suggested retail pricing / geomean 11 games

**ON PAR**

Gaming Performance

vs. AMD Ryzen™ 9 9900X, geomean 11 games



up to **+12%**

Faster 3D Rendering

vs. AMD Ryzen™ 9 9900X, KeyShot

up to **+22%**

Faster Video Editing

vs. AMD Ryzen™ 9 9900X, Adobe After Effects

up to **+3%**

Faster Single Thread Performance

vs. AMD Ryzen™ 9 9900X, Cinebench 2024 Single Core



On par is +/-3%. As of April 2025. Results may vary based on use, configurations, and other factors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details.

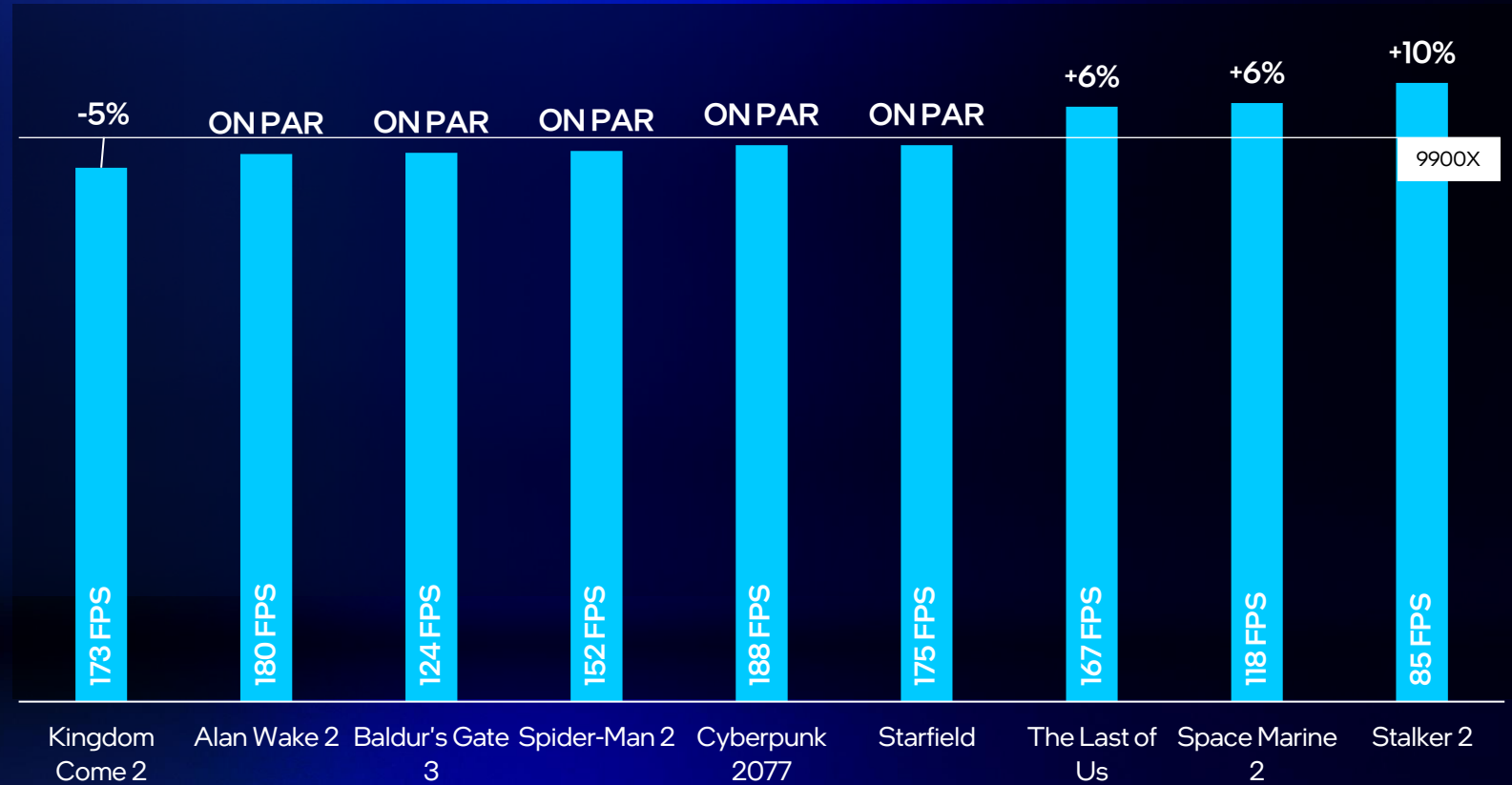
# Intel Core Ultra 7 265K vs. Ryzen 9 9900X

## 1080p Gaming Performance

Same gaming performance as a higher-priced 9900X

Next-gen gaming starts here

Powerful cores make gaming a breeze



■ Intel® Core™ Ultra 7 265K

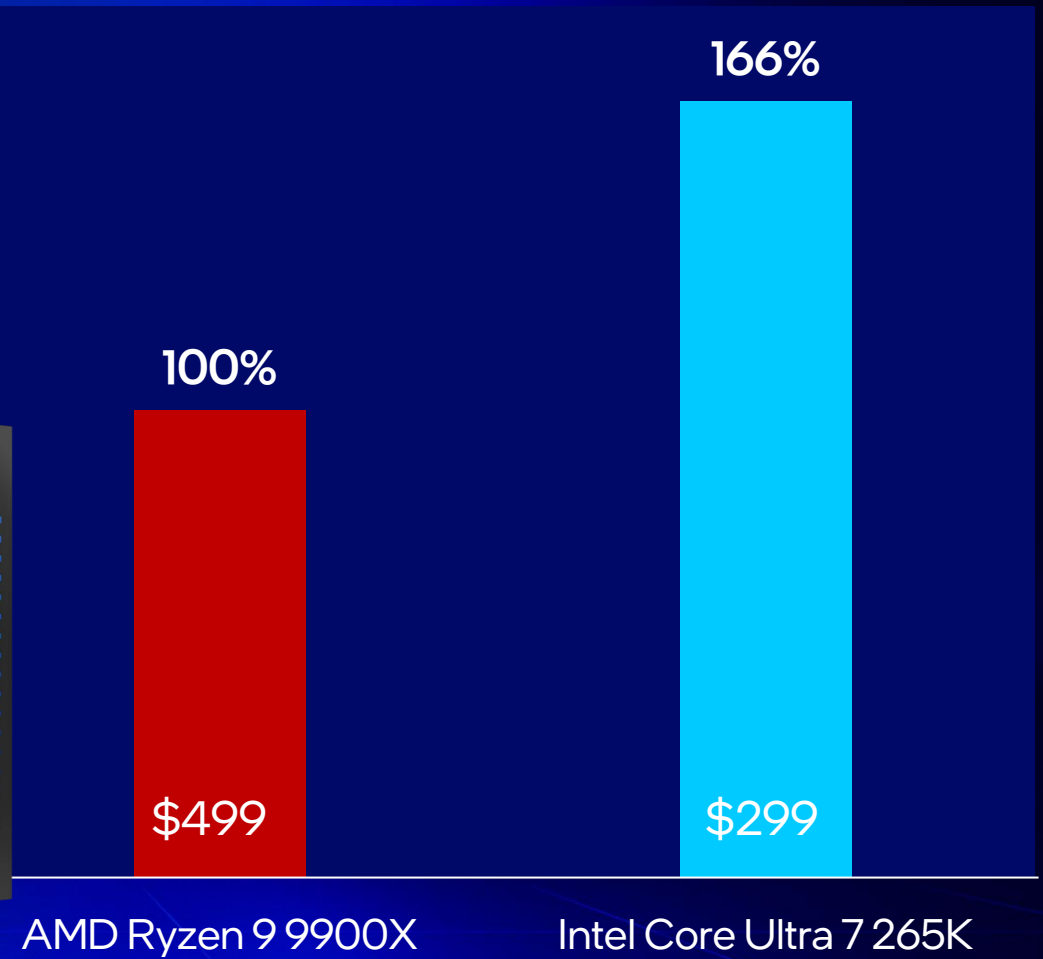
— AMD Ryzen 9 9900X



On par is +/-3%.  
See [intel.com/performanceindex](https://intel.com/performanceindex) for details. Results may vary.

# Intel Core Ultra 7 265K Top Gaming Performance Per Dollar

1080p Gaming  
Highest Quality Setting  
11 Game Geomean  
MSRP Price

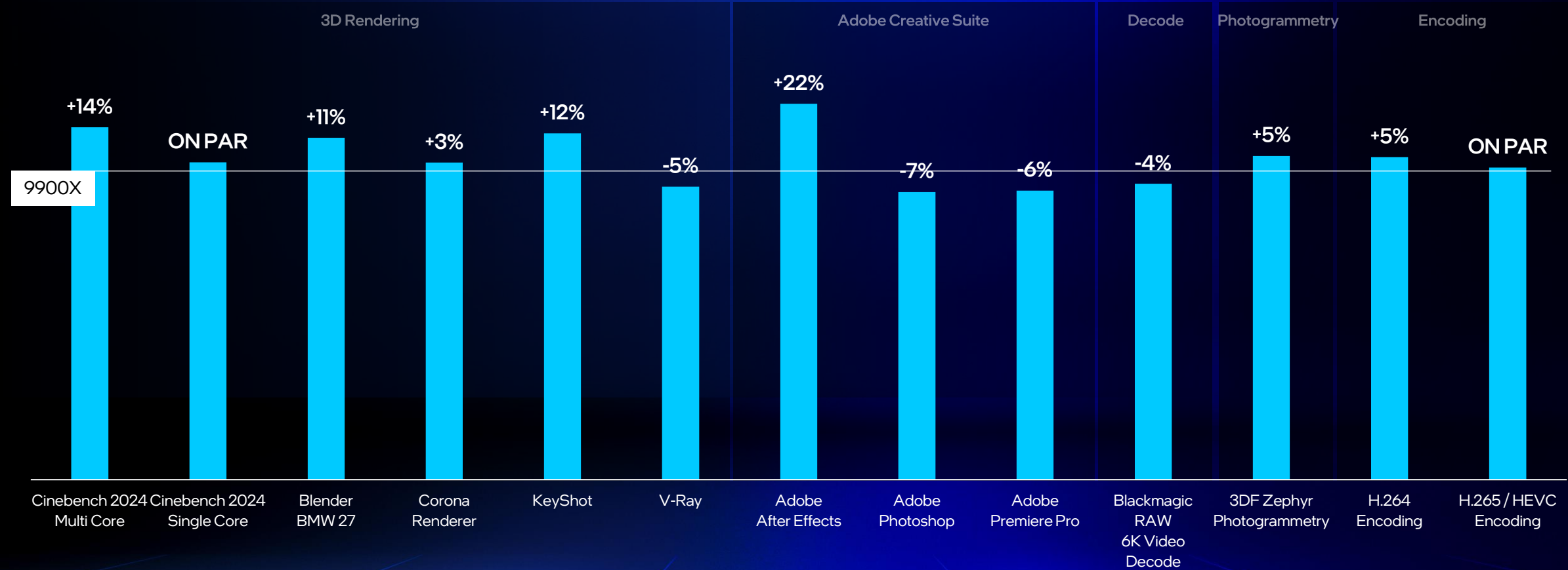


See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Results may vary.

AMD pricing source: [AMD Ryzen X account](#)

Intel pricing source: [Intel Announcement May 2025](#)

# Intel Core Ultra 7 265K Performance for Creators



■ Intel® Core™ Ultra 7 265K  
— AMD Ryzen 9 9900X

# Intel Core Ultra 7 265K Top Benefits

1

**Most value for gamers in the mid-range segment**

Top performance per dollar

2

**The segment leader in content creation performance**

Multithread powerhouse processor

3

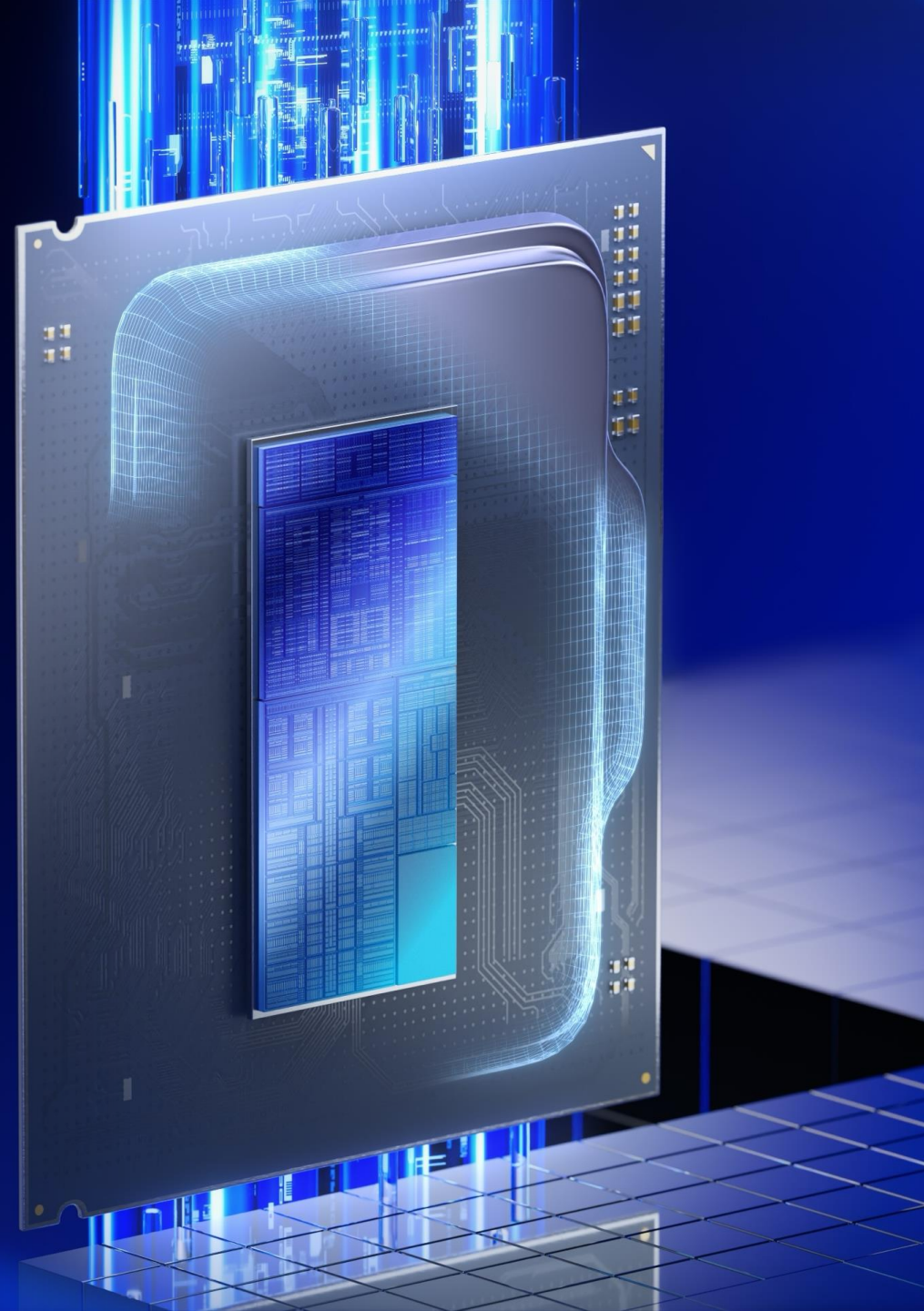
**Built for speedy, next-gen platforms**

Unlock PCIe® 5.0, DDR5-6400 MT/s, and Thunderbolt™ 5.0 support

# Intel Core Ultra 5 245K

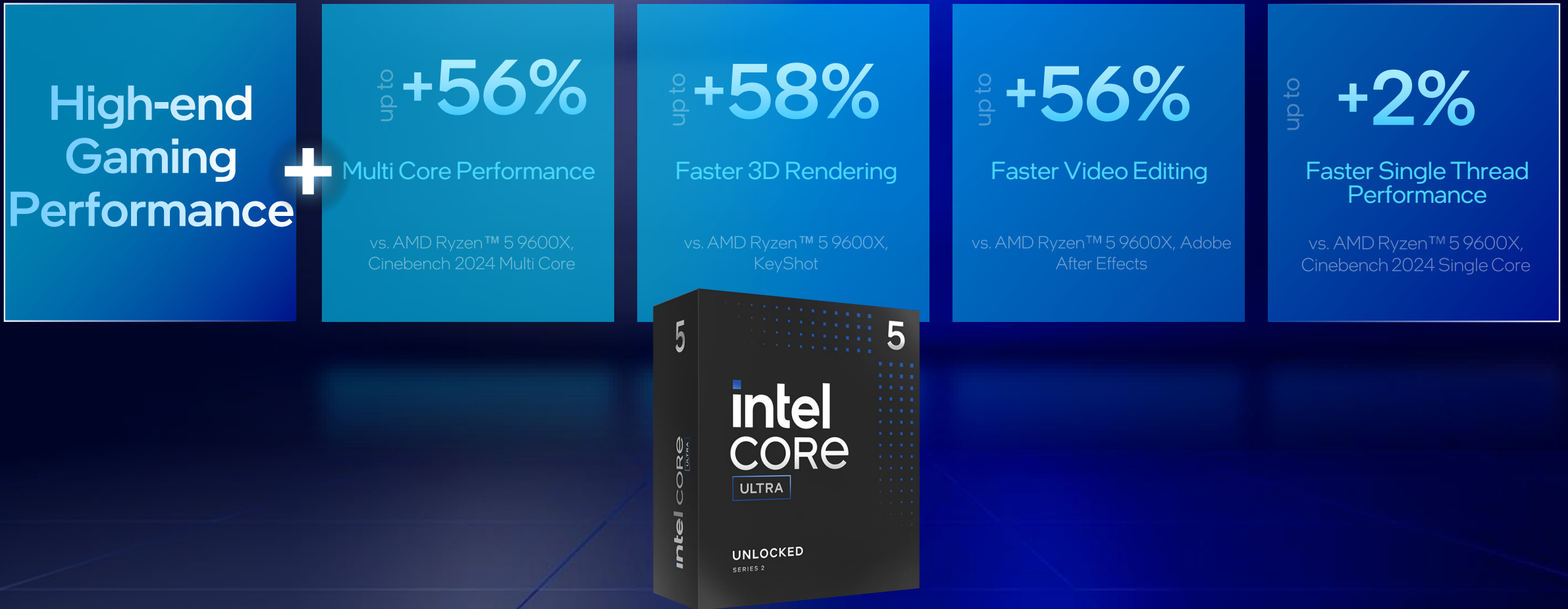
VS

# AMD Ryzen 5 9600X



# Essential performance for gaming and more

## Intel Core Ultra 5 245K



On par is +/-3%. As of April 2025. Results may vary based on use, configurations, and other factors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details.

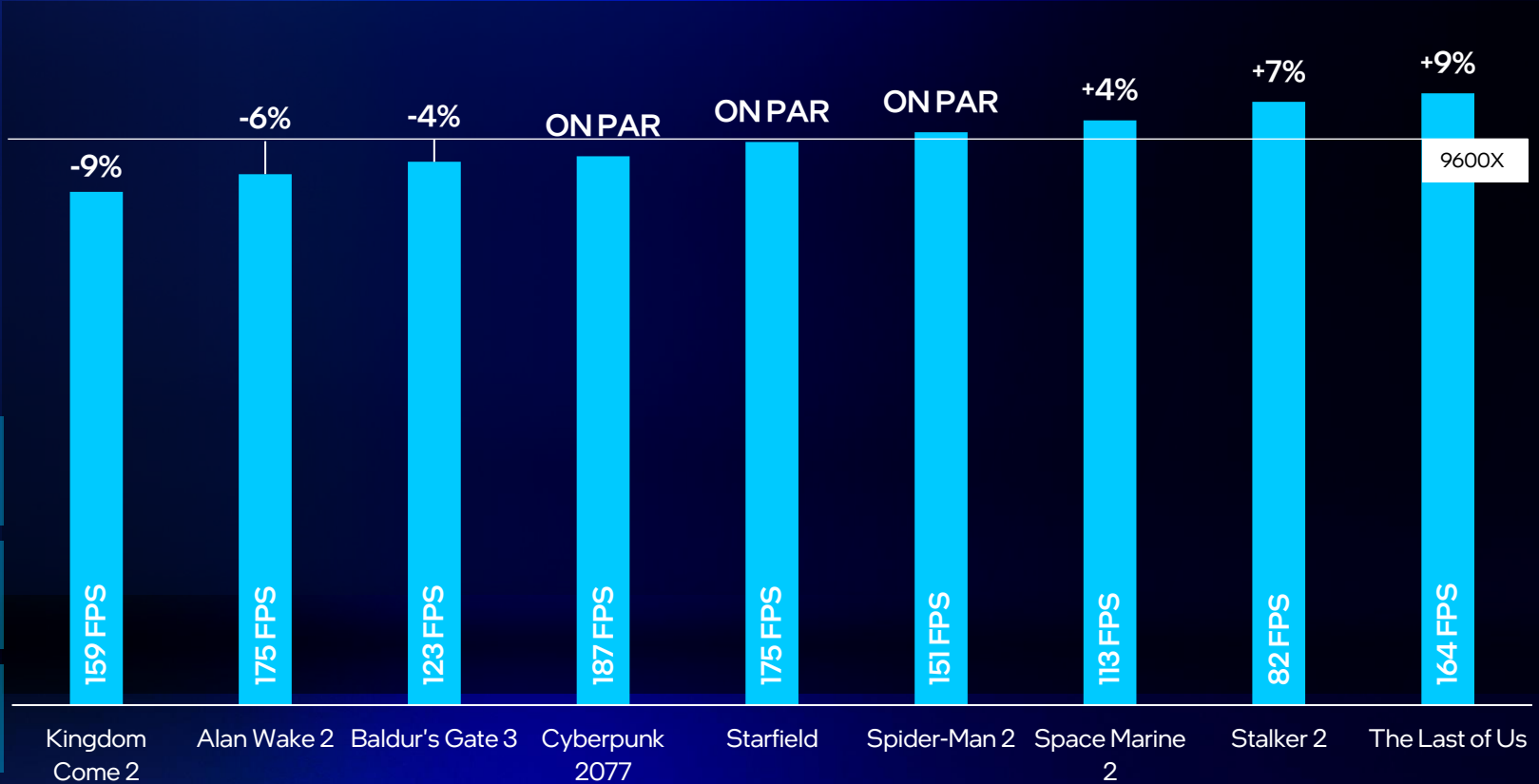
# Intel Core Ultra 5 245K vs. Ryzen 5 9600X

## 1080p Gaming Performance

Smooth gaming performance in top titles

Energy efficiency excellence

Built for next-gen AI gaming



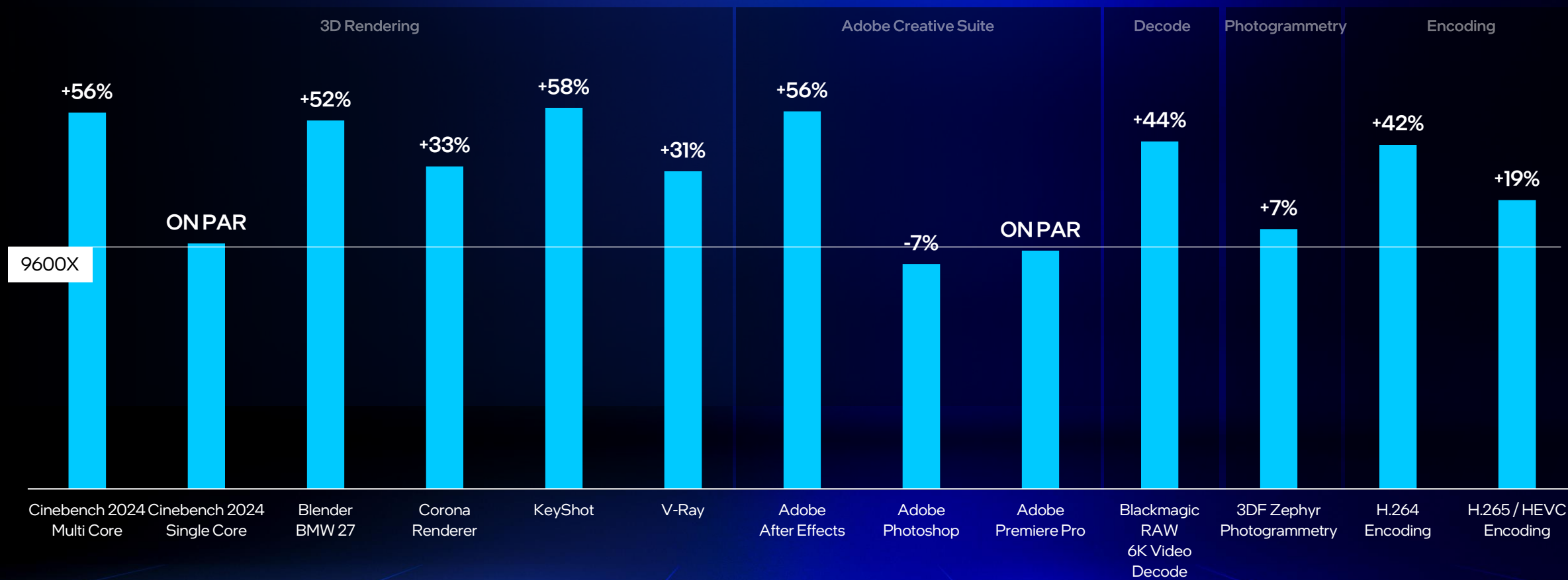
Intel Core™ Ultra 5 245K

AMD Ryzen 5 9600X



On par is +/-3%.  
See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Results may vary.

# Intel Core Ultra 5 245K Performance for Creators



Intel® Core™ Ultra 5 245K

— AMD Ryzen 5 9600X



On par is +/-3%.  
See [intel.com/performanceindex](https://intel.com/performanceindex) for details. Results may vary.

# Intel Core Ultra 5 245K Top Benefits

1

**Smooth gaming + commanding multithreaded perf**

Get a one-two punch of PC performance

2

**Next-gen features for next-gen games**

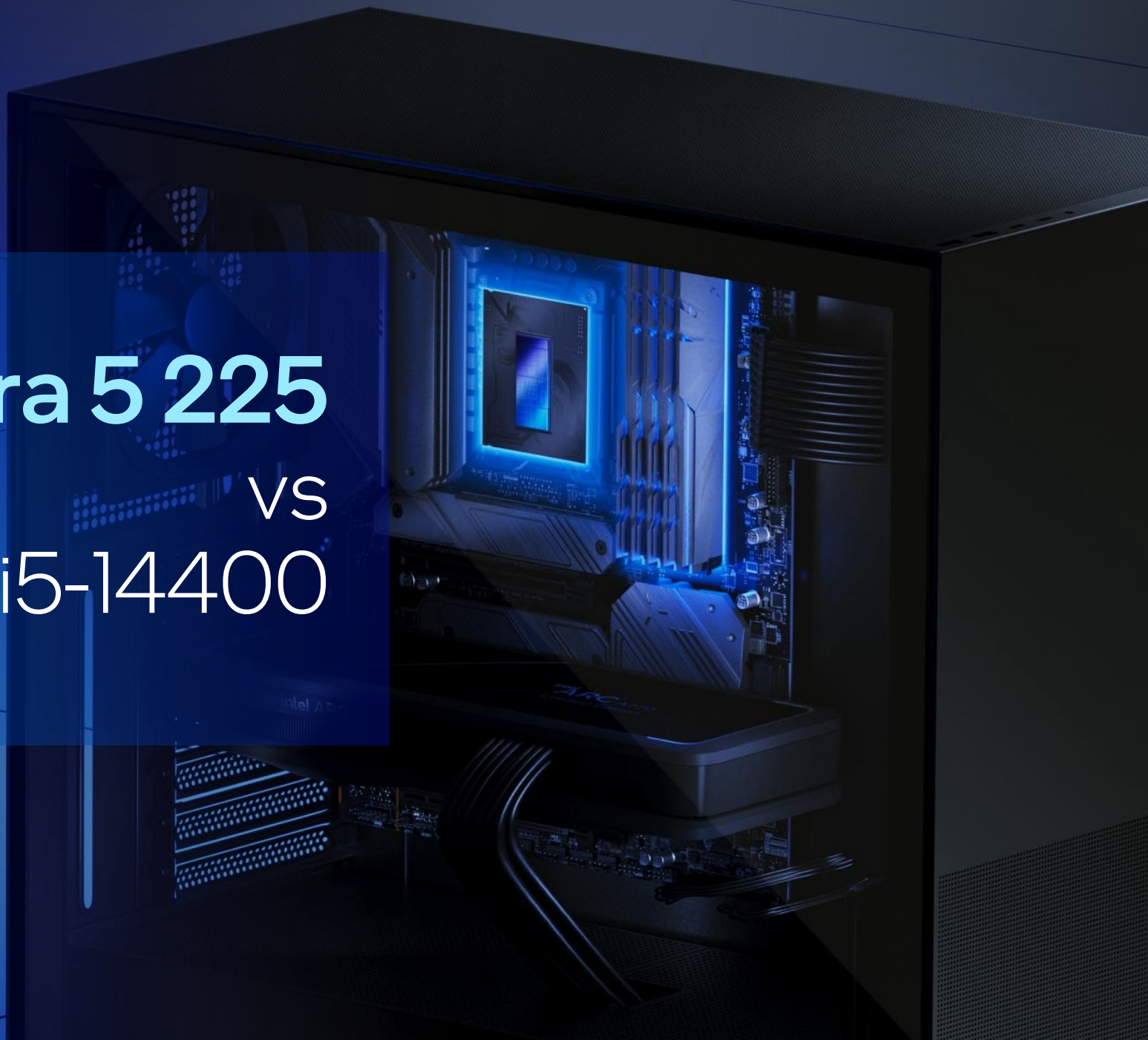
Get DDR5, PCIe® 5.0 GPUs and SSDs, Thunderbolt™5, and Wi-Fi 7

3

**Technology when you need it**

Enhance your gaming experience with Application Optimization and Intel XTU

# Intel Core Ultra 5 225 vs Intel Core i5-14400



# Intel® Core™ Ultra 5 225

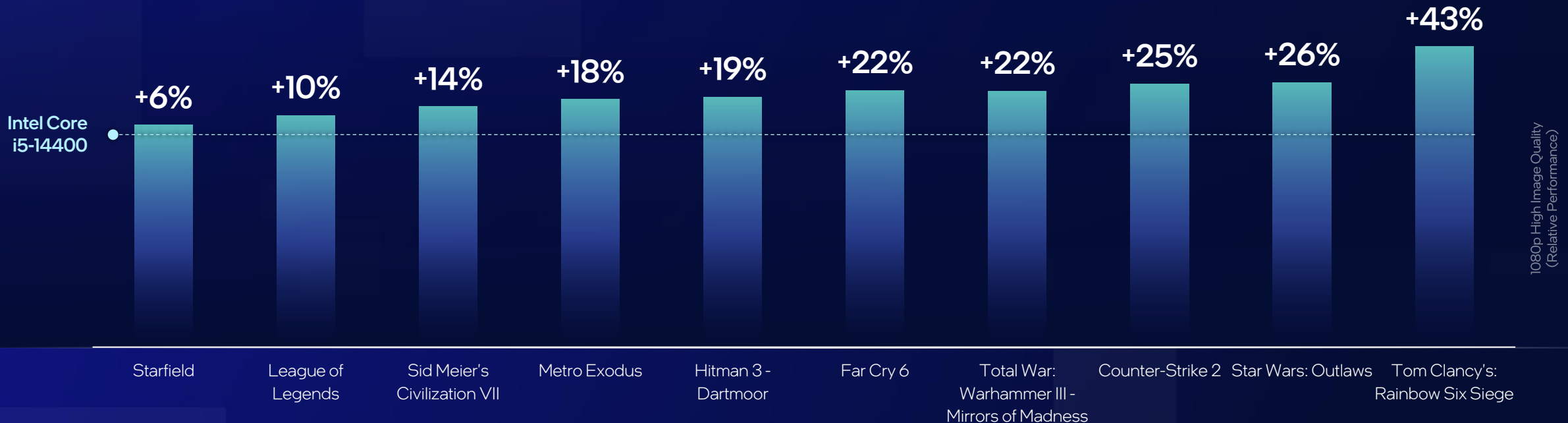
## Performance



Geomean ~20%

Faster Gaming Performance

Intel® Core™ Ultra 5 225



See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Performance varies by use, configuration and other factors.

intel

# Intel® 200S Boost

## ***A new performance profile***

that overclocks the RAM, memory controller, die-to-die, and fabric frequency of select Intel® Core™ Ultra 200S Series processors



### **Faster Gaming**

Designed to raise frequencies across your processor to give PC games faster access to cores, cache, and RAM.



### **Intel XMP**

Designed around Intel XMP kits up to DDR5-8000 for supercharged gaming performance.



### **Easy to Enable**

Take the guesswork out of overclocking with a one-touch profile built into your Intel® Z890-based motherboard.



### **3-Year Warranty**

Intel® 200S Boost is overclocking that's fully covered by your 3-year Intel processor warranty.

Overclocking results will vary. The 200S Boost profile does not guarantee that any overclocking frequencies will be achievable or stable or that any level of performance will be achievable.

Altering clock frequency or voltage may void non-Intel-provided product warranties and reduce stability, security, performance, and life of the processor and other components. Check with system and component manufacturers for details.

intel

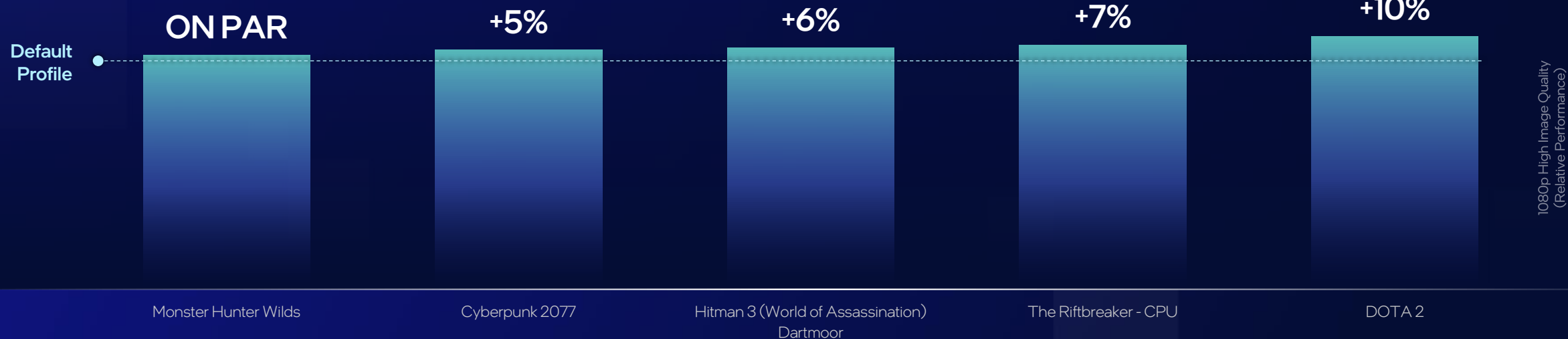
# Intel® 200S Boost Performance



Geomean ~5%

Faster Gaming Performance

Intel® Core™ Ultra 9 285K 200S Boost with DDR5-8000



On par is +/-3%.  
See [intel.com/performanceindex](https://intel.com/performanceindex) for details. Results may vary.



ASRock

ASUS®

BIostar

COLORFUL®

**Intel® 200S**

BOOST ECOSYSTEM

  
CORSAIR

GIGABYTE™

  
G.SKILL

  
MAXSUN

msi®

TEAMGROUP 

v-color

intel®

# The Most **Modern Platform** for Enthusiasts



As of October 2024, among desktop processors targeting ~125W TDP. Results may vary based on use, configurations, and other factors. See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details.

# Uncompromised Platform Connectivity

The latest connectivity including Thunderbolt™ 4 integrated on desktop for first time

|            |  Thunderbolt™ |  Thunderbolt™ Share |  Wi-Fi™                      |  Bluetooth® |  Ethernet |
|------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Integrated | Up to 2 ports<br><b>Thunderbolt™ 4</b>                                                         | PC to PC<br>screen sharing<br><br>Peripherals and storage<br>sharing                                 | <br><b>Wi-Fi 6E</b> (Gig+)   | <b>Bluetooth 5.3</b><br>Bluetooth LE                                                           | <b>1 GbE</b>                                                                                 |
| Discrete   | Up to 4 ports<br><b>Thunderbolt™ 5</b>                                                         | Fast and secure file<br>transfer<br><br>Quick data migration to<br>new PC                            | <br><b>Wi-Fi 7</b> (5 Gig) | <b>Bluetooth 5.4</b><br>Bluetooth LE                                                           | <b>2.5GbE</b>                                                                                |



As of October 2024, among desktop processors targeting ~125W TDP. Results may vary based on use, configurations, and other factors. See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details.

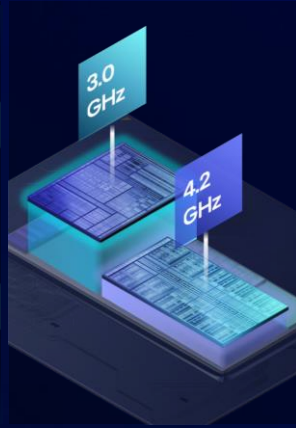
# Overclocking Overhauled

New overclocking functionality with fine grain control



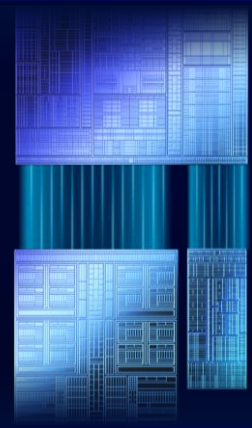
## Granular core clock

Top turbo frequency in 16.6 MHz steps for P-cores and E-cores



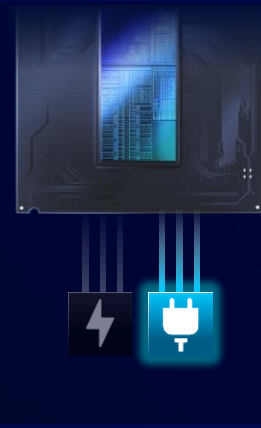
## Dual base clock

Run an independent BCLK for SoC and compute tiles



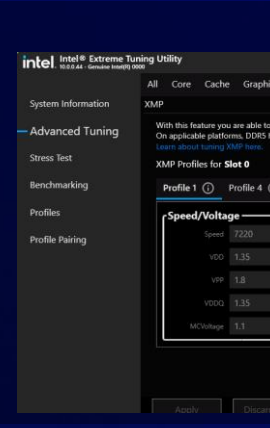
## Tile-to-Tile & fabric OC

Can apply a static/BIOS ratio and supports dynamic ratio changes for fabric



## DLVR bypass

Bypass the internal voltage management using external supply for extreme OC



## Intel eXtreme tuning utility

New features including automated OC enhancements



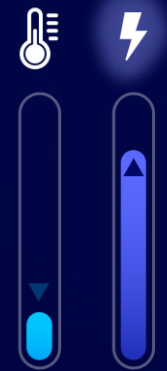
## Memory overclocking

New memory controller supports new XMP and CUDIMM DDR5



## P & E-core overclocking

P-core per-core V/f control, and E-core per-cluster V/f control



## Low temperature overvolting

Increasingly bypass voltage limits as the chip gets colder

# Intel 800 Series Chipsets

## Z890

For PC desktop enthusiasts and overclockers

### Who it's for:

- Enthusiasts, gamers and creators who want full control over their performance
- Those who want overclocking support for maximum PC performance tuning
- High-end builds with cutting edge connectivity and hardware support

### Key Features:

- 60 total high-speed I/O lanes
- Unlocked for CPU core and DRAM overclocking<sup>4</sup>
- PCIe<sup>®</sup> 5.0 support
- Available Thunderbolt™ 5 options<sup>2</sup>
- Intel® Extreme Memory Profile (XMP) ready
- Wi-Fi 7<sup>3</sup> and 2.5GbE Ethernet
- Expandability for high-performance configurations

## B860

A perfect combination of power and performance

### Who it's for:

- Gamers looking for a great experience at a great price
- Creators who need fast memory, PCIe 5.0, and strong connectivity
- PC builders who want a balance of premium features at a mid-range price

### Key Features:

- 45 total high-speed I/O lanes
- Unlocked for DRAM overclocking<sup>4</sup>
- PCIe<sup>®</sup> 5.0 support
- Available Thunderbolt™ 4 options<sup>2</sup>
- Intel® Extreme Memory Profile (XMP) ready
- Wi-Fi 6 and 2.5GbE Ethernet
- Expandability for high-performance configurations

## H810

A solid foundation for everyday computing

### Who it's for:

- Gamers and productivity users looking for the essentials
- Users looking for a reliable platform for daily computing and light gaming

### Key Features:

- 33 total high-speed I/O lanes
- Great platform for essential tasks
- DDR5 support
- PCIe<sup>®</sup> 5.0 support
- Wi-Fi 6 and 1GbE Ethernet

For Thunderbolt™ technology details, visit [intel.com/thunderbolt](https://intel.com/thunderbolt)

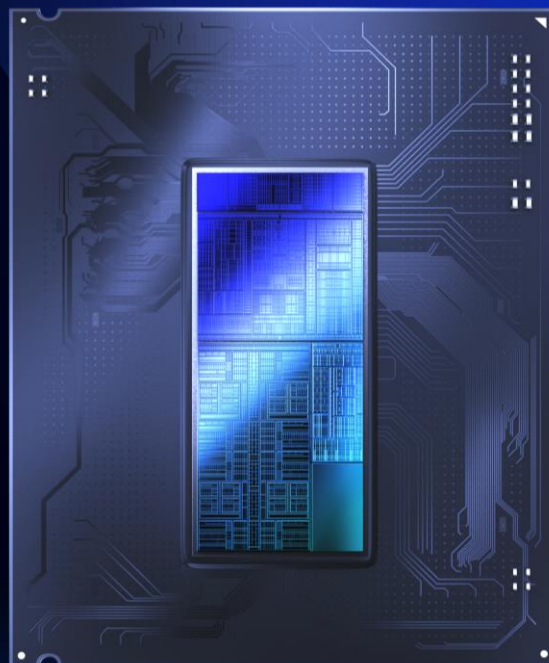


Unlocked features are present with select chipsets and processor combinations. Altering clock frequency or voltage may void any product warranties and reduce stability, security, performance, and life of the processor and other components. Check with system and component manufacturers for more details.

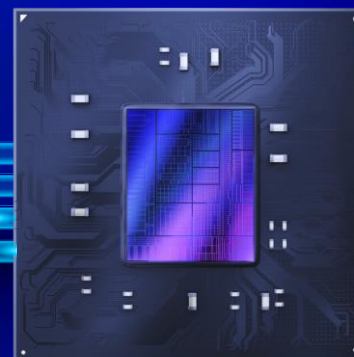
# Z890 Platform

With Intel® Core™ Ultra 200S series processors

Chip



PCH



8x DMI



2x Thunderbolt™ 4



HDMI 2.1



DisplayPort 2.1



DDR5 6400 MT/s  
2 DPC supported



20x PCIe® 5.0

Up to 8x SATA 3.0



Bluetooth 5.3



Up to 4x eSPI



1GbE Ethernet



24x PCIe® 4.0



Intel® Wi-Fi 6



Up to 14x USB 2.0

Up to 10x USB 3.2

5x 20G option  
10x 10G option  
10x 5G option



# B860 Platform

With Intel® Core™ Ultra 200S series processors

Chip

PCH

4x DMI



1x Thunderbolt™ 4



HDMI 2.1



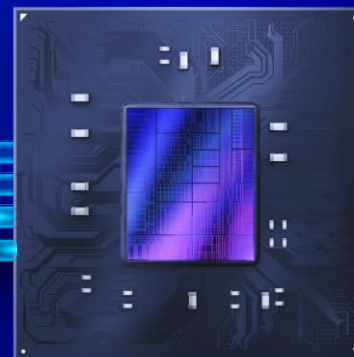
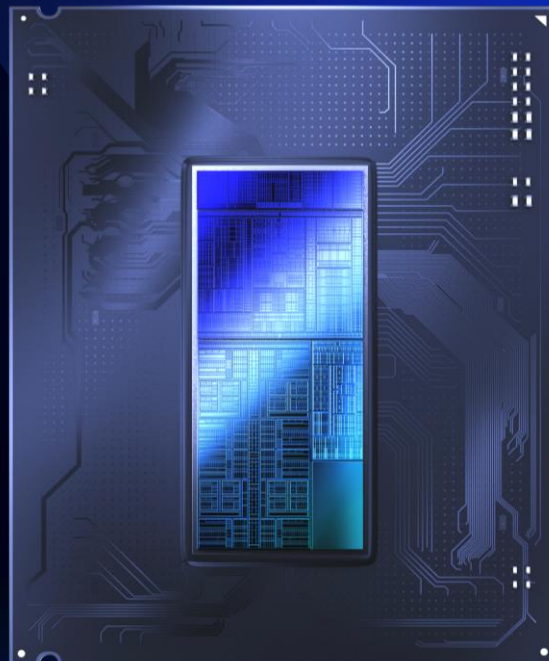
DisplayPort 2.1



DDR5 6400 MT/s  
2 DPC supported



20x PCIe® 5.0



Up to 4x SATA 3.0



Bluetooth 5.3



Up to 2x eSPI



1GbE Ethernet



14x PCIe® 4.0



Intel® Wi-Fi 6



Up to 12x USB 2.0

Up to 6x USB 3.2

2x 20G option  
4x 10G option  
6x 5G option



# H810 Platform

With Intel® Core™ Ultra 200S series processors

Chip

PCH

4x DMI



1x Thunderbolt™ 4



HDMI 2.1



DisplayPort 2.1



DDR5 6400 MT/s  
1 DPC supported



16x PCIe® 5.0

Up to 4x SATA 3.0



Bluetooth 5.3



Up to 2x eSPI



1GbE Ethernet



8x PCIe® 4.0



Intel® Wi-Fi 6



Up to 10x USB 2.0

Up to 4x USB 3.2

2x 10G option  
4x 5G option



# The Intel Platform Advantage

**The Latest Connectivity**  
for Enthusiasts

**Wi-Fi 6E & Thunderbolt 4**  
Integrated

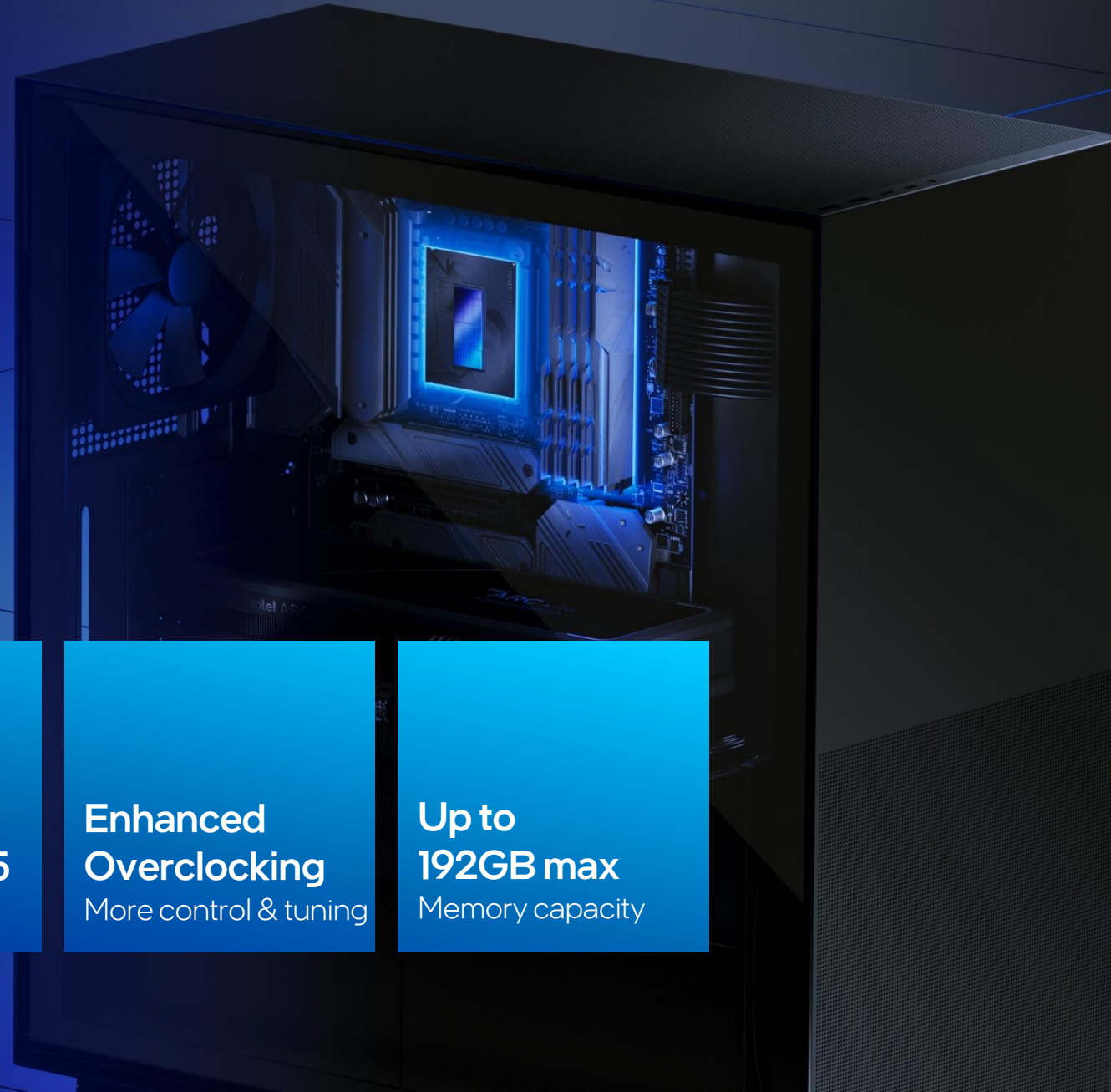
**Wi-Fi 7 & Thunderbolt 5**  
Discrete

**Enhanced Overclocking**  
More control & tuning

**Up to 192GB max**  
Memory capacity



Results may vary based on use, configurations, and other factors.  
See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details.



# ARL-S Performance Appendix

Claim # & Statement

Slide # & Title/Details

|                                              |                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              | Slide 9: Intel Core Ultra 9 285K – The complete package for PC enthusiasts                                                                                                                                                                                                                                                                 |
| 1. On par gaming performance per dollar      | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us, divided by the MSRP price as of June 2025 with an Intel Core Ultra 9 285K at \$599 vs. AMD Ryzen 9 9950X3D at \$699. |
| 2. On par multi core performance             | As measured by Cinebench 2024 Multi Core benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9950X3D.                                                                                                                                                                                                                      |
| 3. Up to 7% Faster 3D Rendering              | As measured by KeyShot 2025 benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9950X3D.                                                                                                                                                                                                                                   |
| 4. Up to 17% Faster Video Editing            | As measured by Adobe After Effects benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9950X3D.                                                                                                                                                                                                                            |
| 5. Up to 5% Faster Single Thread Performance | As measured by Cinebench 2024 Single Thread benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9950X3D.                                                                                                                                                                                                                   |

Performance results are based on testing as of April 2025 by TechPower Up.

Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On

Processor: AMD Ryzen 9 9950X3D 16C32T; Default TDP=170W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On;

|                                                                              |                                                        |
|------------------------------------------------------------------------------|--------------------------------------------------------|
|                                                                              | Slide 10: 285K – A balanced enthusiast experience      |
| 6. Up to -9% lower FPS with Space Marine 2 with an Intel® Core™ Ultra 9 285K | As measured by Space Marine 2 vs. AMD Ryzen 9 9950X3D. |
| 7. Up to -5% lower FPS with The Last of Us with an Intel® Core™ Ultra 9 285K | As measured by The Last of Us vs. AMD Ryzen 9 9950X3D. |
| 8. Up to -5% lower FPS with Spider-Man 2 with an Intel® Core™ Ultra 9 285K   | As measured by Spider-Man 2 vs. AMD Ryzen 9 9950X3D.   |
| 9. On par FPS with Alan Wake 2 with an Intel® Core™ Ultra 9 285K             | As measured by Alan Wake 2 vs. AMD Ryzen 9 9950X3D.    |
| 10. On par FPS with Starfield with an Intel® Core™ Ultra 9 285K              | As measured by Starfield vs. AMD Ryzen 9 9950X3D.      |

Performance results are based on testing as of April 2025 by TechPower Up.

Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On

Processor: AMD Ryzen 9 9950X3D 16C32T; Default TDP=170W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On;



## Claim # & Statement

## Slide # & Title/Details

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|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                                                   | Slide 10: 285K – A balanced enthusiast experience                  |
| 11. On par performance with 3DF Zephyr with an Intel® Core™ Ultra 9 285K                          | As measured by 3DF Zephyr Photogrammetry vs. AMD Ryzen 9 9950X3D.  |
| 12. Up to 4% faster performance with Blackmagic with an Intel® Core™ Ultra 9 285K                 | As measured by Black Magic RAW 6K Video vs. AMD Ryzen 9 9950X3D.   |
| 13. Up to 5% faster performance with Cinebench 2024 Single Core with an Intel® Core™ Ultra 9 285K | As measured by Cinebench 2024 Single Core vs. AMD Ryzen 9 9950X3D. |
| 14. Up to 7% faster performance with KeyShot 2025 with an Intel® Core™ Ultra 9 285K               | As measured by KeyShot 2025 vs. AMD Ryzen 9 9950X3D.               |
| 15. Up to 17% faster performance with Adobe After Effects with an Intel® Core™ Ultra 9 285K       | As measured by Adobe After Effects vs. AMD Ryzen 9 9950X3D.        |

Performance results are based on testing as of April 2025 by TechPower Up.

Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On

Processor: AMD Ryzen 9 9950X3D 16C32T; Default TDP=170W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On;

|                                               |                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               | Slide 13: Intel Core Ultra 9 285K – The complete package for PC enthusiasts                                                                                                                                                                                                                                                              |
| 16. On par gaming performance per dollar      | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us, divided by the MSRP price as of June 2025 with an Intel Core Ultra 9 285K at \$599 vs. AMD Ryzen 9 9950X at \$649. |
| 17. Up to 8% Faster Multi Core Performance    | As measured by Cinebench 2024 Multi Core benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                      |
| 18. Up to 8% Faster 3D Rendering              | As measured by KeyShot 2025 benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                   |
| 19. Up to 17% Faster Video Editing            | As measured by Adobe After Effects benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                            |
| 20. Up to 4% Faster Single Thread Performance | As measured by Cinebench 2024 Single Thread benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                   |

Performance results are based on testing as of April 2025 by TechPower Up.

Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On

Processor: AMD Ryzen 9 9950X 16C32T; Default TDP=170W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On;



## Claim # & Statement

## Slide # & Title/Details

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|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                        | Slide 14: 285K – Leading content creation paired with elite gaming                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 21. Up to 8% faster performance with Cinebench 2024 Multi Core with an Intel® Core™ Ultra 9 285K       | As measured by Cinebench 2024 Multi Core vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 22. Up to 5% faster performance with KeyShot 2025 with an Intel® Core™ Ultra 9 285K                    | As measured by KeyShot 2025 vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 23. Up to 17% faster performance with Adobe After Effects with an Intel® Core™ Ultra 9 285K            | As measured by Adobe After Effects vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 24. Up to 15% faster performance with Blackmagic RAW 6K Video Decode with an Intel® Core™ Ultra 9 285K | As measured by Blackmagic RAW 6K Video Decode vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 25. Up to 4% faster performance with 3DF Zephyr with an Intel® Core™ Ultra 9 285K                      | As measured by 3DF Zephyr Photogrammetry vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 26. On par FPS with Starfield with an Intel® Core™ Ultra 9 285K                                        | As measured by Starfield vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 27. On par FPS with The Last of Us with an Intel® Core™ Ultra 9 285K                                   | As measured by The Last of Us vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 28. On par FPS with Spider-Man 2 with an Intel® Core™ Ultra 9 285K                                     | As measured by Spider-Man 2 vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 29. On par FPS with Space Marine 2 with an Intel® Core™ Ultra 9 285K                                   | As measured by Space Marine 2 vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 30. On par FPS with Stalker 2 with an Intel® Core™ Ultra 9 285K                                        | As measured by Stalker vs. AMD Ryzen 9 9950X.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                        | Performance results are based on testing as of April 2025 by TechPower Up.<br><br>Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On<br><br>Processor: AMD Ryzen 9 9950X 16C32T; Default TDP=170W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On; |



Claim # & Statement

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|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                 | Slide 17: Intel Core Ultra 9 285K – The complete package for PC enthusiasts                                                                                                                                                                                                                                                                                                                                                 |
| 31. Top-tier gaming performance                                                 | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us.                                                                                                                                                                                                       |
| 32. Up to 31% Faster Multi Core Performance                                     | As measured by Cinebench 2024 Multi Core benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                         |
| 33. Up to 37% Faster 3D Rendering                                               | As measured by KeyShot 2025 benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                      |
| 34. Up to 32% Faster Video Editing                                              | As measured by Adobe After Effects benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                               |
| 35. Up to 5% Faster Single Thread Performance                                   | As measured by Cinebench 2024 Single Thread benchmark on an Intel® Core™ Ultra 9 285K processor vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                      |
|                                                                                 | Performance results are based on testing as of April 2025 by TechPower Up.                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                 | Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                      |
|                                                                                 | Processor: AMD Ryzen 9 9900X 12C24T; Default TDP=120W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |
|                                                                                 | Slide 18: 285K – Intel Core Ultra 9 285K 1080p Gaming Performance                                                                                                                                                                                                                                                                                                                                                           |
| 36. Up to -7% lower FPS with Counter-Strike 2 with an Intel® Core™ Ultra 9 285K | As measured by Counter-Strike 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                      |
| 37. On par FPS with Alan Wake 2 with an Intel® Core™ Ultra 9 285K               | As measured by Alan Wake 2 vs. AMD Ryzen 9 9950X3D.                                                                                                                                                                                                                                                                                                                                                                         |
| 38. On par FPS with Starfield with an Intel® Core™ Ultra 9 285K                 | As measured by Starfield vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                             |
| 39. On par FPS with Cyberpunk 2077 with an Intel® Core™ Ultra 9 285K            | As measured by Cyberpunk 2077 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 40. On par FPS with Baldur’s Gate 3 with an Intel® Core™ Ultra 9 285K           | As measured by Baldur’s Gate 3 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                       |
| 41. On par FPS with Spider-Man 2with an Intel® Core™ Ultra 9 285K               | As measured by Spider-Man 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                          |
| 42. On par FPS with Space Marine 2 with an Intel® Core™ Ultra 9 285K            | As measured by Space Marine 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 43. On par FPS with The Last of Us with an Intel® Core™ Ultra 9 285K            | As measured by The Last of Us vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 44. On par FPS with Stalker 2 with an Intel® Core™ Ultra 9 285K                 | As measured by Stalker 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                 | Performance results are based on testing as of April 2025 by TechPower Up.                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                 | Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                      |
|                                                                                 | Processor: AMD Ryzen 9 9900X 12C24T; Default TDP=120W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |



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|                                                                                                        | Slide 19: 285K – Create Faster with Intel                                                                                                                                                                                                                                                                                                                                                                                    |
| 45. Up to 34% faster performance with Cinebench 2024 Multi Core with an Intel® Core™ Ultra 9 285K      | As measured by Cinebench 2024 Multi Core vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                              |
| 46. Up to 5% faster performance with Cinebench 2024 Single Core with an Intel® Core™ Ultra 9 285K      | As measured by Cinebench 2024 Single Core vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                             |
| 47. Up to 27% faster performance with Blender BMW 27 with an Intel® Core™ Ultra 9 285K                 | As measured by Blender BMW 27 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                         |
| 48. Up to 13% faster performance with Corona Renderer with an Intel® Core™ Ultra 9 285K                | As measured by Corona Renderer vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 49. Up to 37% faster performance KeyShot 2025 with an Intel® Core™ Ultra 9 285K                        | As measured by KeyShot 2025 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                           |
| 50. Up to 14% faster performance with V-Ray with an Intel® Core™ Ultra 9 285K                          | As measured by V-Ray vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                                  |
| 51. Up to 32% faster performance with Adobe After Effects with an Intel® Core™ Ultra 9 285K            | As measured by Adobe After Effects vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                    |
| 52. On par performance with Adobe Photoshop with an Intel® Core™ Ultra 9 285K                          | As measured by Adobe Photoshop vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 53. On par performance with Adobe Premiere Pro with an Intel® Core™ Ultra 9 285K                       | As measured by Adobe Premiere Pro vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                     |
| 54. Up to 4% faster performance with Black Magic RAW 6K Video Decode with an Intel® Core™ Ultra 9 285K | As measured by Black Magic RAW 6K Video Decode vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                        |
| 55. Up to 8% faster performance with 3DF Zephyr with an Intel® Core™ Ultra 9 285K                      | As measured by 3DF Zephyr Photogrammetry vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                              |
| 56. Up to 18% faster performance with H.264 Encoding with an Intel® Core™ Ultra 9 285K                 | As measured by H.264 Encoding vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                         |
| 57. Up to 14% faster performance with H.265 / HEVC Encoding with an Intel® Core™ Ultra 9 285K          | As measured by H.265 / HEVC Encoding vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                        | Performance results are based on testing as of April 2025 by TechPower Up.                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                        | Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                       |
|                                                                                                        | Processor: AMD Ryzen 9 9900X 12C32T; Default TDP=120W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On; |



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|                                                                                | Slide 22: Intel Core Ultra 7 265K – The perfect balance of powerful gaming and creating                                                                                                                                                                                                                                                                                                                                   |
| 58. Up to 14% more gaming performance per dollar                               | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us, divided by the MSRP price as of June 2025 with an Intel Core Ultra 7 265K at \$299 vs. AMD Ryzen 7 9700X at \$359.                                                                                  |
| 59. Up to 78% faster multi core performance                                    | As measured by Cinebench 2024 Multi Core benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                       |
| 60. Up to 84% Faster 3D Rendering                                              | As measured by KeyShot 2025 benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                    |
| 61. Up to 69% Faster Video Editing                                             | As measured by Adobe After Effects benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                             |
| 62. Up to 7% Faster Single Thread Performance                                  | As measured by Cinebench 2024 Single Thread benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                    |
|                                                                                | Performance results are based on testing as of April 2025 by TechPower Up.                                                                                                                                                                                                                                                                                                                                                |
|                                                                                | Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                    |
|                                                                                | Processor: AMD Ryzen 7 9700X 8C16T; Default TDP=65W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |
|                                                                                | Slide 23: Intel Core Ultra 7 265K – 1080p Gaming                                                                                                                                                                                                                                                                                                                                                                          |
| 63. Up to -8% lower FPS with Baldur’s Gate 3 with an Intel® Core™ Ultra 7 265K | As measured by Baldur’s Gate 3 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                     |
| 64. Up to -4% lower FPS with Alan Wake 2 with an Intel® Core™ Ultra 7 265K     | As measured by Alan Wake 2 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                         |
| 65. Up to -4% lower FPS with Kingdom Come 2 with an Intel® Core™ Ultra 7 265K  | As measured by Kingdom Come 2 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                      |
| 66. On par FPS with Cyberpunk 2077 with an Intel® Core™ Ultra 7 265K           | As measured by Cyberpunk 2077 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                      |
| 67. On par FPS with Starfield with an Intel® Core™ Ultra 7 265K                | As measured by Starfield vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                           |
| 68. On par FPS with Spider-Man 2 with an Intel® Core™ Ultra 7 265K             | As measured by Spider-Man 2 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                        |
| 69. On par FPS with Space Marine 2 with an Intel® Core™ Ultra 7 265K           | As measured by Space Marine 2 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                      |
| 70. Up to 6% faster FPS with Stalker 2 with an Intel® Core™ Ultra 7 265K       | As measured by Stalker 2 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                           |
| 71. Up to +8% faster FPS with The Last of Us with an Intel® Core™ Ultra 7 265K | As measured by The Last of Us vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                | Performance results are based on testing as of April 2025 by TechPower Up.                                                                                                                                                                                                                                                                                                                                                |
|                                                                                | Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                    |
|                                                                                | Processor: AMD Ryzen 7 9700X 8C16T; Default TDP=65W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |



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|                                                                                                         | Slide 24: Intel Core Ultra 7 265K Elite Gaming Performance Per Dollar                                                                                                                                                                                                                                                                                                                                                     |
| 72. Up to 15% better gaming performance per dollar with an Intel® Core™ Ultra 7 265K                    | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us, divided by the MSRP price as of June 2025 with an Intel Core Ultra 7 265K at \$299 vs. AMD Ryzen 7 9700X at \$359.                                                                                  |
|                                                                                                         | Performance results are based on testing as of April 2025 by Tech Power Up.                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                         | Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                     |
|                                                                                                         | Processor: AMD Ryzen 7 9700X 8C16T; Default TDP=65W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |
|                                                                                                         | Slide 25: Intel Core Ultra 7 265K Performance for Creators                                                                                                                                                                                                                                                                                                                                                                |
| 73. Up to 78% faster performance with Cinebench 2024 Multi Core with an Intel® Core™ Ultra 7 265K       | As measured by Cinebench 2024 Multi Core vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                           |
| 74. Up to 7% faster performance with Cinebench 2024 Single Core with an Intel® Core™ Ultra 7 265K       | As measured by Cinebench 2024 Single Core vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                          |
| 75. Up to 79% faster performance with Blender BMW 27 with an Intel® Core™ Ultra 7 265K                  | As measured by Blender BMW 27 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                      |
| 76. Up to 47% faster performance with Corona Renderer with an Intel® Core™ Ultra 7 265K                 | As measured by Corona Renderer vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                     |
| 77. Up to 84% faster performance KeyShot 2025 with an Intel® Core™ Ultra 7 265K                         | As measured by KeyShot 2025 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                        |
| 78. Up to 54% faster performance with V-Ray with an Intel® Core™ Ultra 7 265K                           | As measured by V-Ray vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                               |
| 79. Up to 69% faster performance with Adobe After Effects with an Intel® Core™ Ultra 7 265K             | As measured by Adobe After Effects vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                 |
| 80. Up to -9% lower performance with Adobe Photoshop with an Intel® Core™ Ultra 7 265K                  | As measured by Adobe Photoshop vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                     |
| 81. On par performance with Adobe Premiere Pro with Intel® Core™ Ultra 7 265K                           | As measured by Adobe Premiere Pro vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                  |
| 82. Up to 34% faster performance with Black Magic RAW 6K Video Decode with an Intel® Core™ Ultra 7 265K | As measured by Black Magic RAW 6K Video Decode vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                     |
| 83. Up to 11% faster performance with 3DF Zephyr with an Intel® Core™ Ultra 7 265K                      | As measured by 3DF Zephyr Photogrammetry vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                           |
| 84. Up to 64% faster performance with H.264 Encoding with Intel® Core™ Ultra 7 265K                     | As measured by H.264 vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                               |
| 85. Up to 51% faster performance with H.265 / HEVC Encoding with an Intel® Core™ Ultra 7 265K           | As measured by H.265 / HEVC vs. AMD Ryzen 7 9700X.                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                         | Performance results are based on testing as of April 2025 by Tech Power Up.                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                         | Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                     |
|                                                                                                         | Processor: AMD Ryzen 7 9700X 8C16T; Default TDP=65W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |



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|                                                                                | Slide 28: Intel Core Ultra 7 265K – The perfect balance of powerful gaming and creating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 86. Up to 25% more gaming performance per dollar                               | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us, divided by the MSRP price as of June 2025 with an Intel Core Ultra 7 265K at \$299 vs. AMD Ryzen 7 9800X3D at \$479.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 87. Up to 52% faster multi core performance                                    | As measured by Cinebench 2024 Multi Core benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 88. Up to 57% Faster 3D Rendering                                              | As measured by KeyShot 2025 benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 89. Up to 44% Faster Video Editing                                             | As measured by Adobe After Effects benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 90. Up to 7% Faster Single Thread Performance                                  | As measured by Cinebench 2024 Single Thread benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                | Performance results are based on testing as of April 2025 by TechPower Up.<br><br>Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: I501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On<br><br>Processor: AMD Ryzen 7 9800X3D 8C16T; Default TDP=120W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |
|                                                                                | Slide 29: Intel Core Ultra 7 265K A Balanced Enthusiast Experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 91. Up to -21% lower FPS with Space Marine 2 with an Intel® Core™ Ultra 7 265K | As measured by Space Marine 2 vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 92. Up to -13% lower FPS with Stalker 2 with an Intel® Core™ Ultra 7 265K      | As measured by Stalker 2 vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 93. Up to -9% lower FPS with The Last of Us with an Intel® Core™ Ultra 7 265K  | As measured by The Last of Us vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 94. Up to -6% lower FPS with Alan Wake 2 with an Intel® Core™ Ultra 7 265K     | As measured by Alan Wake 2 vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 95. On par FPS with Starfield with an Intel® Core™ Ultra 7 265K                | As measured by Starfield vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                | Performance results are based on testing as of April 2025 by TechPower Up.<br><br>Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: I501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On<br><br>Processor: AMD Ryzen 7 9800X3D 8C16T; Default TDP=120W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |

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|                                                                                                         | Slide 30: Intel Core Ultra 7 265K Elite Gaming Performance Per Dollar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 96. Up to 25% better gaming performance per dollar with an Intel® Core™ Ultra 7 265K                    | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us, divided by the MSRP price as of June 2025 with an Intel Core Ultra 7 265K at \$299 vs. AMD Ryzen 7 9800X3D at \$479.<br><br>Performance results are based on testing as of April 2025 by Tech Power Up.<br><br>Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On<br><br>Processor: AMD Ryzen 7 9800X3D 8C16T; Default TDP=120W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |
|                                                                                                         | Slide 31: Intel Core Ultra 7 265K Performance for Creators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 97. Up to 52% faster performance with Cinebench 2024 Multi Core with an Intel® Core™ Ultra 7 265K       | As measured by Cinebench 2024 Multi Core vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 98. Up to 7% faster performance with Cinebench 2024 Single Core with an Intel® Core™ Ultra 7 265K       | As measured by Cinebench 2024 Single Core vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 99. Up to 51% faster performance with Blender BMW 27 with an Intel® Core™ Ultra 7 265K                  | As measured by Blender BMW 27 vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 100. Up to 28% faster performance with Corona Renderer with an Intel® Core™ Ultra 7 265K                | As measured by Corona Renderer vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 101. Up to 57% faster performance KeyShot 2025 with an Intel® Core™ Ultra 7 265K                        | As measured by KeyShot 2025 vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 102. Up to 27% faster performance with V-Ray with an Intel® Core™ Ultra 7 265K                          | As measured by V-Ray vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 103. Up to 44% faster performance with Adobe After Effects with an Intel® Core™ Ultra 7 265K            | As measured by Adobe After Effects vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 104. Up to -11% lower performance with Adobe Photoshop with an Intel® Core™ Ultra 7 265K                | As measured by Adobe Photoshop vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 105. Up to -4% lower performance with Adobe Premiere Pro with Intel® Core™ Ultra 7 265K                 | As measured by Adobe Premiere Pro vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 106. Up to 6% faster performance with Black Magic RAW 6K Video Decode with an Intel® Core™ Ultra 7 265K | As measured by Black Magic RAW 6K Video Decode vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 107. On par performance with 3DF Zephyr with an Intel® Core™ Ultra 7 265K                               | As measured by 3DF Zephyr Photogrammetry vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 108. Up to 40% faster performance with H.264 Encoding with Intel® Core™ Ultra 7 265K                    | As measured by H.264 vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 109. Up to 35% faster performance with H.265 / HEVC Encoding with an Intel® Core™ Ultra 7 265K          | As measured by H.265 / HEVC vs. AMD Ryzen 7 9800X3D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                         | Performance results are based on testing as of April 2025 by Tech Power Up.<br><br>Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On<br><br>Processor: AMD Ryzen 7 9800X3D 8C16T; Default TDP=120W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On                                                                                                                                                                                                                                                                                                                                                   |



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|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                | Slide 34: Intel Core Ultra 7 265K Dominates an AMD Ryzen 9 9900X                                                                                                                                                                                                                                                                                                                                                            |
| 110. Up to 66% more gaming performance per dollar                              | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us, divided by the MSRP price as of June 2025 with an Intel Core Ultra 7 265K at \$299 vs. AMD Ryzen 9 9900X at \$499.                                                                                    |
| 111. On Par gaming performance                                                 | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 9 9900X.                                                                                                                                       |
| 112. Up to 12% Faster 3D Rendering                                             | As measured by KeyShot 2025 benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                      |
| 113. Up to 22% Faster Video Editing                                            | As measured by Adobe After Effects benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                               |
| 114. Up to 3% Faster Single Thread Performance                                 | As measured by Cinebench 2024 Single Thread benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                      |
|                                                                                | Performance results are based on testing as of April 2025 by Tech Power Up.                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                | Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: I501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                      |
|                                                                                | Processor: AMD Ryzen 9 9900X 12C24T; Default TDP=125W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |
|                                                                                | Slide 35: Intel Core Ultra 7 265K – 1080p Gaming                                                                                                                                                                                                                                                                                                                                                                            |
| 115. Up to -5% lower FPS with Kingdom come 2 with an Intel® Core™ Ultra 7 265K | As measured by Kingdom Come 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 116. On par FPS with Alan Wake 2 with an Intel® Core™ Ultra 7 265K             | As measured by Alan Wake 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                           |
| 117. On par FPS with Baldur’s Gate 3 with an Intel® Core™ Ultra 7 265K         | As measured by Baldur’s Gate 3 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                       |
| 118. On par FPS with Spider-Man 2 with an Intel® Core™ Ultra 7 265K            | As measured by Spider-Man 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                          |
| 119. On par FPS with Cyberpunk 2077 with an Intel® Core™ Ultra 7 265K          | As measured by Cyberpunk 2077 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 120. On par FPS with Starfield with an Intel® Core™ Ultra 7 265K               |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 121. Up to 6% faster FPS with The Last of Us with an Intel® Core™ Ultra 7 265K | As measured by The Last of Us vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 122. Up to 6% faster FPS with Space Marine 2 with an Intel® Core™ Ultra 7 265K | As measured by Space Marine 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 123. Up to 10% faster FPS with Stalker 2 with an Intel® Core™ Ultra 7 265K     | As measured by Stalker 2 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                | Performance results are based on testing as of April 2025 by Tech Power Up.                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                | Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: I501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                      |
|                                                                                | Processor: AMD Ryzen 9 9900X 12C24T; Default TDP=125W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |



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|                                                                                                         | Slide 37: Intel Core Ultra 7 265K Top Gaming PerformancePer Dollar                                                                                                                                                                                                                                                                                                                                                          |
| 124. Up to 25% better gaming performance per dollar with an Intel® Core™ Ultra 7 265K                   | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us, divided by the MSRP price as of June 2025 with an Intel Core Ultra 7 265K at \$299 vs. AMD Ryzen 9 9900X at \$499.                                                                                    |
|                                                                                                         | Performance results are based on testing as of April 2025 by Tech Power Up.                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                         | Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                       |
|                                                                                                         | Processor: AMD Ryzen 9 9900X 12C24T; Default TDP=125W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |
|                                                                                                         | Slide 37: Intel Core Ultra 7 265K Performance for Creators                                                                                                                                                                                                                                                                                                                                                                  |
| 125. Up to 14% faster performance with Cinebench 2024 Multi Core with an Intel® Core™ Ultra 7 265K      | As measured by Cinebench 2024 Multi Core vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                             |
| 126. On par performance with Cinebench 2024 Single Core with an Intel® Core™ Ultra 7 265K               | As measured by Cinebench 2024 Single Core vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                            |
| 127. Up to 11% faster performance with Blender BMW 27 with an Intel® Core™ Ultra 7 265K                 | As measured by Blender BMW 27 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                        |
| 128. Up to 3% faster performance with Corona Renderer with an Intel® Core™ Ultra 7 265K                 | As measured by Corona Renderer vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                       |
| 129. Up to 12% faster performance KeyShot 2025 with an Intel® Core™ Ultra 7 265K                        | As measured by KeyShot 2025 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                          |
| 130. Up to -5% lower performance with V-Ray with an Intel® Core™ Ultra 7 265K                           | As measured by V-Ray vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                                 |
| 131. Up to 22% faster performance with Adobe After Effects with an Intel® Core™ Ultra 7 265K            | As measured by Adobe After Effects vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                   |
| 132. Up to -7% lower performance with Adobe Photoshop with an Intel® Core™ Ultra 7 265K                 | As measured by Adobe Photoshop vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                       |
| 133. Up to -6% lower performance with Adobe Premiere Pro with Intel® Core™ Ultra 7 265K                 | As measured by Adobe Premiere Pro vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                    |
| 134. Up to -4% lower performance with Black Magic RAW 6K Video Decode with an Intel® Core™ Ultra 7 265K | As measured by Black Magic RAW 6K Video Decode vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                       |
| 135. Up to 5% faster performance with 3DF Zephyr with an Intel® Core™ Ultra 7 265K                      | As measured by 3DF Zephyr Photogrammetry vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                             |
| 136. Up to 5% faster performance with H.264 Encoding with Intel® Core™ Ultra 7 265K                     | As measured by H.264 vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                                 |
| 137. On par performance with H.265 / HEVC Encoding with an Intel® Core™ Ultra 7 265K                    | As measured by H.265 / HEVC vs. AMD Ryzen 9 9900X.                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                         | Performance results are based on testing as of April 2025 by Tech Power Up.                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                         | Processor: Intel® Core™ Ultra 7 265K 20C20T processor; PL1=125W PL2=250W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                       |
|                                                                                                         | Processor: AMD Ryzen 9 9900X 12C24T; Default TDP=125W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |



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|                                                                                 | Slide 40: Intel Core Ultra 5 245K – Essential performance for gaming and more                                                                                                                                                                                                                                                                                                                                             |
| 138. High-end gaming performance                                                | As measured by geomean FPS of 11 games, including Alan Wake 2, Baldur’s Gate 3, Counter-Strike 2, Cyberpunk 2077, Elden Ring, Kingdom Come 2, Space Marine 2, Spider-Man 2, Stalker 2, Starfield, and The Last of Us with an Intel Core Ultra 5 245K vs. AMD Ryzen 5 9600X.                                                                                                                                               |
| 139. Up to 56% faster multi core performance                                    | As measured by Cinebench 2024 Multi Core benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                       |
| 140. Up to 58% Faster 3D Rendering                                              | As measured by KeyShot 2025 benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                    |
| 141. Up to 56% Faster Video Editing                                             | As measured by Adobe After Effects benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                             |
| 142. Up to 2% Faster Single Thread Performance                                  | As measured by Cinebench 2024 Single Thread benchmark on an Intel® Core™ Ultra 7 265K processor vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                    |
|                                                                                 | Performance results are based on testing as of April 2025 by TechPower Up.                                                                                                                                                                                                                                                                                                                                                |
|                                                                                 | Processor: Intel® Core™ Ultra 5 245K 14C14T processor; PL1=125W PL2=159W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                     |
|                                                                                 | Processor: AMD Ryzen 5 9600X 6C12T; Default TDP=65W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |
|                                                                                 | Slide 41: Intel Core Ultra 5 245K 1080p Gaming Performance                                                                                                                                                                                                                                                                                                                                                                |
| 143. Up to -9% lower FPS with Kingdom Come 2 with an Intel® Core™ Ultra 5 245K  | As measured by Kingdom Come 2 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                      |
| 144. Up to -6% lower FPS with Alan Wake 2 with an Intel® Core™ Ultra 5 245K     | As measured by Alan Wake 2 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                         |
| 145. Up to -4% lower FPS with Baldur’s Gate 3 with an Intel® Core™ Ultra 5 245K | As measured by Baldur’s Gate 3 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                     |
| 146. On par FPS with Cyberpunk 2077 with an Intel® Core™ Ultra 5 245K           | As measured by Cyberpunk 2077 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                      |
| 147. On par FPS with Starfield with an Intel® Core™ Ultra 5 245K                | As measured by Starfield vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                           |
| 148. On par FPS with Spider-Man 2 with an Intel® Core™ Ultra 5 245K             | As measured by Spider-Man 2 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                        |
| 149. Up to 4% faster FPS with Space Marine 2 with an Intel® Core™ Ultra 5 245K  | As measured by Space Marine 2 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                      |
| 150. Up to 7% faster FPS with Stalker 2 with an Intel® Core™ Ultra 5 245K       | As measured by Stalker 2 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                           |
| 151. Up to 9% faster FPS with The Last of Us with an Intel® Core™ Ultra 5 245K  | As measured by The Last of Us vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                 | Performance results are based on testing as of April 2025 by TechPower Up.                                                                                                                                                                                                                                                                                                                                                |
|                                                                                 | Processor: Intel® Core™ Ultra 5 245K 14C14T processor; PL1=125W PL2=159W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                     |
|                                                                                 | Processor: AMD Ryzen 5 9600X 6C12T; Default TDP=65W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |

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|                                                                                                          | Slide 42: Intel Core Ultra 5 245K Performance for Creators                                                                                                                                                                                                                                                                                                                                                                |
| 152. Up to 56% faster performance with Cinebench 2024 Multi Core with an Intel® Core™ Ultra 5 245K       | As measured by Cinebench 2024 Multi Core vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                           |
| 153. On par performance with Cinebench 2024 Single Core with an Intel® Core™ Ultra 5 245K                | As measured by Cinebench 2024 Single Core vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                          |
| 154. Up to 52% faster performance with Blender BMW 27 with an Intel® Core™ Ultra 5 245K                  | As measured by Blender BMW 27 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                      |
| 155. Up to 33% faster performance with Corona Renderer with an Intel® Core™ Ultra 5 245K                 | As measured by Corona Renderer vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                     |
| 156. Up to 58% faster performance KeyShot 2025 with an Intel® Core™ Ultra 5 245K                         | As measured by KeyShot 2025 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                        |
| 157. Up to 31% faster performance with V-Ray with an Intel® Core™ Ultra 5 245K                           | As measured by V-Ray vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                               |
| 158. Up to 56% faster performance with Adobe After Effects with an Intel® Core™ Ultra 5 245K             | As measured by Adobe After Effects vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                 |
| 159. Up to -7% lower performance with Adobe Photoshop with an Intel® Core™ Ultra 5 245K                  | As measured by Adobe Photoshop vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                     |
| 160. On par performance with Adobe Premiere Pro with Intel® Core™ Ultra 5 245K                           | As measured by Adobe Premiere Pro vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                  |
| 161. Up to 44% faster performance with Black Magic RAW 6K Video Decode with an Intel® Core™ Ultra 5 245K | As measured by Black Magic RAW 6K Video Decode vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                     |
| 162. Up to 7% faster performance with 3DF Zephyr with an Intel® Core™ Ultra 5 245K                       | As measured by 3DF Zephyr Photogrammetry vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                           |
| 163. Up to 42% faster performance with H.264 Encoding with Intel® Core™ Ultra 5 245K                     | As measured by H.264 vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                               |
| 164. Up to 19% faster performance with H.265 / HEVC Encoding with an Intel® Core™ Ultra 5 245K           | As measured by H.265 / HEVC vs. AMD Ryzen 5 9600X.                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                          | Performance results are based on testing as of April 2025 by Tech Power Up.                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                          | Processor: Intel® Core™ Ultra 5 245K 14C14T processor; PL1=125W PL2=159W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS Z890 Maximus Hero; BIOS: 1501; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; VBS: On                                                                    |
|                                                                                                          | Processor: AMD Ryzen 5 9600X 6C12T; Default TDP=65W; Memory: 2x 16 GB DDR5-6000 28-36-36-76; Motherboard: ASUS X870E Crosshair Hero; BIOS: 9951; Storage: 2 TB M.2 NVMe SSD; OS: Windows 11 Professional 64-bit 24H2; Discrete Graphics Card: PNY GeForce RTX 5090 ARGB OC; Power Supply: Thermaltake Toughpower GF3 1200 W; Ryzen Chipset Drivers 7.02.13.148; Game Mode enabled, Game Bar installed and active; VBS: On |



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165. The Intel Core Ultra 5 225 is up to 20% faster in gaming compared to the Intel Core i5-14400 across a limited selection of games at 1080p High settings.

Slide 45: Intel® Core Ultra 5 225 Performance

Performance results are based on testing as of April 2025, all games tested at 1080p High settings. Results are the median of 3 runs. Games tested are listed below:

Starfield, League of Legends, Sid Meier’s Civilization VII, Metro Exodus, Hitman 3, Far Cry 6, Total War: Warhammer III, Counter-Strike 2, Star Wars: Outlaws, and Tom Clancy’s: Rainbow Six Siege

Geomean out across above titles, Intel Core Ultra 5 225 performance was 20% faster than the Intel Core i5-14400.

CPU: Intel® Core™ Ultra 5 225  
Motherboard: ASUS TUF Gaming B860 PLUS WIFI  
Memory Model : G.SKILL 2x16GB DDR5-6400

CPU: Intel® Core™ i5-14400  
Motherboard: ASUS TUF Gaming B760 PLUS WIFI  
Memory Model : G.SKILL 2x16GB DDR5-4800

Storage : Samsung SSD 990 Pro 2TB  
Win 11 Version : Windows 11 Pro - 26100.3476  
VBS : VBS ON  
Defender : Enabled  
Tamper Protection : Enabled  
Power Supply Model : EVGA 1200P2 Supernova  
Power Plan : High performance  
GPU: RTX 5090  
GFX Driver : 572.83

| Claim # & Statement                        | Slide # & Title/Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 166. Geomean ~5% Faster Gaming Performance | Slide 47: Intel® 200S Boost Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                            | As measured by Assassin's Creed: Mirage, Cyberpunk 2077, DOTA 2, Far Cry 6, Hitman 3, Shadow of the Tomb Raider, The Riftbreaker, and Monster Hunter Wilds, on an Intel® Core™ Ultra 9 285K processor default profile vs 200S Boost.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                            | Performance results are based on testing as of April 2025, demonstrating gaming performance of default profile vs. Intel 200S Boost overclocking profile:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                            | <p>Default Profile Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: G.Skill 2x16GB DDR5-6400 F5-6400J3239G16GX2-TZ5RK; Motherboard: ASUS ROG MAXIMUS Hero Z890; BIOS: I602; Storage: Samsung SSD 990 PRO 2TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 24H2 26100.3624; Discrete Graphics Card: Nvidia RTX 4090; Discrete Graphics Driver: 32.0.15.7283; Integrated Graphics: Intel® Graphics; Integrated Graphics Driver: 32.0.101.6314; NPU Driver: 32.0.100.3967; Power Plan: High Performance; Trusted Platform Module: On; VBS: On; Defender: On</p> <p>200S Boost Processor: Intel® Core™ Ultra 9 285K 24C24T processor; PL1=125W PL2=250W; Memory: G.Skill 2x16GB DDR5-8000 F5-8000J3848H16GX2-TZ5RK; Motherboard: ASUS ROG MAXIMUS Hero Z890; BIOS: I602; Storage: Samsung SSD 990 PRO 2TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 24H2 26100.3624; Discrete Graphics Card: Nvidia RTX 4090; Discrete Graphics Driver: 32.0.15.7283; Integrated Graphics: Intel® Graphics; Integrated Graphics Driver: 32.0.101.6314; NPU Driver: 32.0.100.3967; Power Plan: High Performance; Trusted Platform Module: On; VBS: On; Defender: On</p> |