

# Intel® Core™ Ultra 200S Plus Series Processors



Intel® Core™ Ultra 200S Plus Series processors are the optimized desktop CPU of choice for gamers and creators, designed to deliver faster gaming, smoother content creation, greater customer value, and more efficient compute.

**Plus**

Means Performance  
Where It Matters Most

***Fast Gaming***

***Powerful Compute***

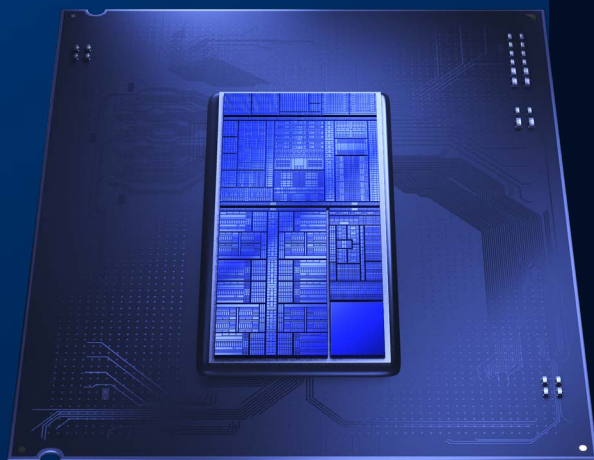
***Robust Platform***

**intel**

## Fast Gaming

# Intel's fastest desktop gaming processors ever<sup>1</sup>

Built for gamers who refuse to compromise, these processors combine generational hardware improvements with intelligent optimization to stay ahead of the game.



## Pioneering Performance Technology for Gamers

Fast gaming starts here. The new Intel® Core™ Ultra 200S Plus Series processors harness CPU improvements with advanced performance technology to deliver the speed, performance, and power that modern gaming demands.

With the introduction of the **NEW Intel® Binary Optimization Tool<sup>2</sup>**, users can effortlessly leverage the power of Intel® Core™ Ultra 200S Plus Series processors through a scalable binary optimization software layer designed to boost performance on tuned games. When enabled, the software automatically and instantly transforms select top game titles into an even higher FPS experience.

Up to

# 39% faster gaming performance

vs. previous gen when Intel® Binary Optimization Tool is enabled<sup>3</sup>

1. As of March 2026, among all Intel desktop processors targeting ~125W TDP, based on superior gaming performance of Intel® Core™ Ultra 7 270K Plus processor, including benefit of Intel Binary Optimization Tool feature when enabled on select titles, as measured by average FPS @1080p - high settings, geomean of 37 games. See [intel.com/performanceindex](https://www.intel.com/performanceindex) for details. Results may vary.
3. As measured by average FPS on Shadow of the Tomb Raider at 1080p High on Intel® Core™ Ultra 7 270K Plus, including benefits from Intel Binary Optimization Tool feature enabled, compared to Intel® Core™ Ultra 7 265K. See [www.intel.com/PerformanceIndex](https://www.intel.com/PerformanceIndex) for workloads and configurations. Results may vary.

## *Fast Gaming*

The Intel® Core™ Ultra 200S Plus Series processors are designed to provide smooth, consistent gaming experiences.

### Powerful Performance Optimization Technology & Overclocking<sup>4</sup>

From faster load times to seamless overclocking, Intel® Core™ Ultra 200S Plus Series processors deliver advanced technologies and features that transform the gaming experience, including:

- **NEW DDR5-7200 support** delivers quicker game startup, faster level transitions, and lower latency when every millisecond matters.<sup>5</sup>
- **Intel® Application Optimization (APO)** optimizes thread scheduling & application threading in real time for more performance in select games.<sup>6</sup>
- **Intel® 200S Boost** features overclocking profiles for unlocked Intel® Core™ Ultra 200S Plus Series processors to boost performance of low-latency workloads like gaming. Eligible processors will retain Intel's three-year limited warranty.<sup>7</sup>
- **Intel® Extreme Tuning Utility (XTU)** houses Intel overclocking options like CPU tuning, memory tuning, and performance monitoring. Intel® XTU also includes Intel® Speed Optimizer for one-click overclocking automation.<sup>4</sup>
- **Intel® Extreme Memory Profile (XMP)** overclocks compatible PC memory using pre-tested, easy-to-activate profiles.<sup>4</sup>



*Serious gaming  
performance where  
it matters*

## Powerful Compute

Intel® Core™ Ultra 200S Plus Series Processors can deliver

# More performance per dollar for enthusiasts<sup>8</sup>



Up to  
**2x faster**  
multicore performance  
vs. the competition<sup>9</sup>

The fastest  
**multi-threaded performance**  
for desktop enthusiasts<sup>10</sup>

### Uncompromised multitasking

High core counts and fast memory enable full-speed gaming while simultaneously streaming, chatting, downloading, and running background applications.

Up to

**8** P-cores

**16** E-cores

Up to

**+4 cores** for Ultra 7 and Ultra 5  
**+200MHz** P-core All-core Turbo  
**+400MHz** DDR5 & IMC<sup>5</sup>  
**+900MHz** D2D (Die to Die)

compared to previous gen

- Based on superior performance per dollar among Intel desktop processors of Intel® Core™ Ultra 7 270K Plus and Intel® Core™ Ultra 5 250K Plus, including benefits of Intel Binary Optimization Tool feature when enabled on select titles, across gaming and content creation workloads. See [www.intel.com/PerformanceIndex](http://www.intel.com/PerformanceIndex) for details. Results may vary.
- Intel® Core™ Ultra 5 250K Plus processor vs. AMD Ryzen™ 5 9600X. As measured by 3DMark CPU Profile Max threads. See [www.intel.com/PerformanceIndex](http://www.intel.com/PerformanceIndex) for workloads and configurations. Results may vary.
- As of March 2026, among x86 desktop enthusiast (targeting ~125W TDP) processors, refers to Intel® Core™ Ultra 200S Plus series, as measured by multi-thread/core benchmark performance of Intel® Core™ Ultra 7 270K Plus against prior generation and competition processors. See [intel.com/performanceindex](http://intel.com/performanceindex) for details. Results may vary.

## Robust Platform

Built for gamers and creators with a robust ecosystem that makes it easier than ever to upgrade



### NEW Intel® Platform Performance Package

Easy one-stop shop to download the latest Intel® platform software, making it simple to get the most performance out of your rig.



### FULL Intel® 800 Series Chipset Compatibility for maximum value



### Discrete Intel® Wi-Fi 7<sup>11</sup> + Bluetooth® 5.4 Support

The next stage in the evolution of wireless connectivity, Wi-Fi 7 helps provide extreme speed, responsiveness, and reliability. Intel's next-generation Bluetooth® offers an extended range and quality for an enhanced user experience.



### Integrated Wi-Fi 6E + Bluetooth® 5.3 Support

Delivering supercharged Wi-Fi performance and the advancements of Bluetooth® LE Audio to desktop.



### Intel® Connectivity Performance Suite<sup>12</sup>

Acts as your built-in IT expert by continuously optimizing your Wi-Fi connection and prioritizing your business-critical applications.



### Intel® Killer™ Networking<sup>13</sup>

Delivers supercharged performance and enables seamless, immersive gameplay.



### Thunderbolt™ 5 Technology

Best-in-class wired connectivity solution for gamers and creators, with up to 120 Gbps of transmit bandwidth, dual 8K video capability, and 2x more bandwidth for external SSD and other tools.



### Thunderbolt™ 4 Technology

Integrated Thunderbolt™ 4 technology offers the simplest, most reliable cable solution available for connecting to a wide variety of accessories while providing outstanding performance.



### Thunderbolt™ Share<sup>14</sup>

Offers users an easy, fast, and efficient way to do more with two PCs by sharing screens, keyboard, mouse, storage, and files with the speed of Thunderbolt™ technology.

# Key Features at a Glance

## Software Optimization

Feature	Benefit
<p><b>NEW</b> Intel® Binary Optimization Tool<sup>2</sup> Available</p>	<p>Pioneering performance technology for gamers, the Intel® Binary Optimization Tool is <b>the only</b> x86 binary translation technology for enthusiasts.</p> <ul style="list-style-type: none"> <li>▪ <b>An all-new class of optimization IP</b> to serve enthusiast performance<sup>15</sup></li> <li>▪ <b>When enabled, automatically and instantly</b> transforms select top game titles into an even higher FPS experience</li> <li>▪ <b>Delivers next-gen performance boosts</b>—no source code, no patches, no waiting</li> <li>▪ Optimizes machine-level code in real time so your system stays <b>fast, smooth, and efficient</b> without lifting a finger</li> <li>▪ Developed in partnership with game developers for <b>elevated gameplay, effortless setup, and zero maintenance performance</b></li> </ul> <p>Effortlessly Leverages the Power of Intel® Core™ Ultra 200S Plus Series Processors</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Up to</p> <p><b>22% faster gaming performance</b></p> <p>on Shadow of the Tomb Raider when Intel® Binary Optimization Tool is enabled<sup>16</sup></p> </div> <div style="text-align: center;"> <p>On average, up to</p> <p><b>8% FPS uplift</b></p> <p>across 12 games when Intel® Binary Optimization Tool is enabled<sup>17</sup></p> </div> </div>
<p>Intel® Application Optimization<sup>6</sup></p>	<p>A software policy within Intel® Dynamic Tuning Technology (DTT) that determines and directs application resource optimization in real-time.</p> <p><b>Can Intel® Binary Optimization Tool and APO be used together?</b> Intel® Binary Optimization Tool and APO can be toggled on and off independently of each other, and some games will be able to benefit from both technologies</p>
<p><b>NEW</b> Intel® Platform Performance Package</p>	<p><b>A new, easy-to-use, one-stop-shop</b> to download Intel® platform software.</p> <ul style="list-style-type: none"> <li>▪ One package hosted on Intel.com—no more searching for the correct download path!</li> <li>▪ Contains all critical dependencies to achieve intended product performance</li> </ul>

15. On supported Intel Binary Optimization Tool workloads

16. As measured by average FPS on Shadow of the Tomb Raider at 1080p High on Intel® Core™ Ultra 7 270K Plus, comparing performance with Intel Binary Optimization Tool enabled versus disabled. See [www.intel.com/PerformanceIndex](http://www.intel.com/PerformanceIndex) for workloads and configurations. Results may vary.




17. As measured by Geomean of average FPS across 12 Intel-Binary-Optimization-Tool-enabled game titles: Shadow of the Tomb Raider, Naraka: Bladepoint, Tiny Tina's Wonderland, Remnant II, Far Cry 6, Borderlands 3, Hogwarts Legacy, Final Fantasy XIV – Dawntrail, Hitman 3 (World of Assassinations), Marvel's Spider Man Remastered, Cyberpunk 2077, Assassin's Creed Mirage at 1080p High on Intel® Core™ Ultra 7 270K Plus, comparing performance with Intel Binary Optimization Tool enabled versus disabled. See [www.intel.com/PerformanceIndex](http://www.intel.com/PerformanceIndex) for workloads and configurations. Results may vary.

# Key Features at a Glance

## Architecture & Platform

Feature	Benefit
<b>Performance Hybrid Architecture</b>	Integrates two all-new core microarchitectures into a single die, prioritizing and distributing workloads to optimize performance.
<b>Intel® Thread Director</b>	Optimizes workloads by helping the OS scheduler intelligently distribute workloads to the optimal cores.
<b>Intel® 200S Boost<sup>7</sup></b>	An overclocking profile designed for unlocked Intel® Core™ Ultra 200S Series processors, enabling higher fabric, die-to-die, and memory frequencies designed to boost performance for low-latency workloads like gaming. Eligible processors will retain Intel's three-year limited warranty.
<b>Intel® Gaussian and Neural Accelerator 3.5</b>	Designed to process AI speech and audio applications such as neural noise cancellation while simultaneously freeing up CPU resources for overall system performance and responsiveness.
<b>Intel® Graphics Featuring Xe<sup>e</sup> LPGA Graphics Architecture<sup>18</sup></b>	A purpose-built graphics architecture optimized for lower wattage and higher performance per watt. Rich media and intelligent graphics capabilities enable amplified visual complexity, enhanced 3D performance, and faster image processing.
<b>Intel® Deep Learning Boost</b>	Significantly accelerates inference performance for deep learning workloads optimized for VNNI.
<b>Intel® Turbo Boost Max Technology 3.0<sup>19</sup></b>	Identifies the processor's fastest cores and directs critical workloads to them as power, heat, and workload allow.
<b>Intel® Turbo Boost Technology 2.0</b>	Accelerates processor and graphics performance for peak loads, automatically allowing processor cores to run faster than the rated operating frequency if they're operating below power, current, and temperature specification limits.
<b>Thunderbolt™ 5 Technology</b>	Next-generation high-speed connectivity standard designed for simple, reliable connections that deliver incredible performance.
<b>Thunderbolt™ 4 Technology</b>	An Intel-developed connectivity standard that delivers power, data, and a video signal over a single connection. The Thunderbolt™ technology certification establishes mandatory minimum requirements for cables, PCs, and accessories to help ensure greater reliability and interoperability across devices and vendors.
<b>Thunderbolt™ Share<sup>14</sup></b>	Unlocks ultra-fast PC-to-PC connectivity experiences for screen, peripheral, and file sharing.
<b>Discrete Intel® Wi-Fi 7 (5 Gig) Support<sup>11</sup></b>	The next step in the evolution of wireless connectivity, which provides extreme speed, responsiveness, and reliability.

# Intel® Core™ Ultra 200S Plus Series Processors

Processor Brand String with Number <sup>20</sup>	 Intel® Core™ Ultra 7 270K Plus Processor	 Intel® Core™ Ultra 5 250K Plus Processor	 Intel® Core™ Ultra 5 250KF Plus Processor
Processor Cores (P+E) <sup>21</sup>	24 (8+16)	18 (6+12)	18 (6+12)
Processor Threads	24	18	18
Intel® Smart Cache (L3, MB)	36	30	30
Total L2 Cache (MB)	40	30	30
Intel® Thermal Velocity Boost Frequency (GHz) <sup>19</sup>	-	-	-
Intel® Turbo Boost Max Technology 3.0 Frequency (GHz) <sup>19</sup>	Up to 5.5	-	-
P-Core Max Turbo Frequency (GHz) <sup>19</sup>	Up to 5.4	Up to 5.3	Up to 5.3
E-Core Max Turbo Frequency (GHz) <sup>19,22</sup>	Up to 4.7	Up to 4.6	Up to 4.6
P-Core Base Frequency (GHz)	3.7	4.2	4.2
E-Core Base Frequency (GHz) <sup>22</sup>	3.2	3.5	3.5
Unlocked <sup>4</sup>	Yes	Yes	Yes
Processor Graphics <sup>18</sup>	Intel® Graphics	Intel® Graphics	-
CPU PCIe Lanes	24	24	24
Maximum Memory Speed (MT/s) <sup>5</sup>	DDR5-7200	DDR5-7200	DDR5-7200
Memory Channels	2	2	2
Maximum Memory Capacity (GB) <sup>5</sup>	256	256	256
Processor Base Power (W)	125	125	125
Maximum Turbo Power (W)	250	159	159
Reliability, Availability & Serviceability <sup>23</sup>	ECC	ECC	-
Intel® SIPP <sup>24</sup>	-	-	-
Intel vPro Eligible <sup>23,25,26,27</sup>	Yes	Yes	-
Intel® ISM <sup>23,27</sup>	Yes	Yes	Yes
Boxed	Yes	Yes	Yes

# Platform Overview

## New Features



## Notices & Disclaimers

All features may require software purchase, subscription, or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Details at [intel.com/AIPC](https://www.intel.com/AIPC).

Intel® Binary Optimization Tool is an optional feature available by switching on advanced mode of Intel® Application Optimization, which is a policy within Intel® Dynamic Tuning Technology that optimizes performance on select games when played on required configurations on select Intel® Core™ processors. Learn more at <https://www.intel.com/content/www/us/en/support/articles/000095419/processors.html> for additional details and see [ark.intel.com](https://ark.intel.com) for product details.

Overclocking: 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 details.

Intel® Bluetooth® LE Audio capabilities require PC platforms equipped with Intel® Wi-Fi solutions with Bluetooth® version 5.3 or higher, operating system support, PC OEM enabling, and Bluetooth® LE Audio-enabled peripheral devices. For more information, please visit <https://www.intel.com/content/www/us/en/products/docs/wireless/bluetooth-solutions.html>.

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

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.

Your costs and results may vary.

Intel technologies may require enabled hardware, software, or service activation.

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### 1. Intel® Core™ Ultra 200S Plus series delivers Intel's fastest desktop gaming processor:

As of March 2026, refers to Intel® Core™ Ultra 7 270K Plus processor among all Intel desktop processors targeting ~125W TDP, based on superior gaming performance, including benefit of Intel Binary Optimization Tool feature when enabled on select titles, as measured by average FPS @1080p - high settings, geomean of 37 games, including:

A Plague Tale: Requiem, Anno 117: Pax Romana, Assassin's Creed: Mirage, Assassin's Creed: Shadows, Baldur's Gate 3, Battlefield 6, Black Myth Wukong, Borderlands 3, Call of Duty: Black Ops 7, Company of Heroes 3, Counter Strike 2, Cyberpunk 2077, DOOM: The Dark Ages, Dying Light: The Beast, F1® 25, Far Cry 6, Final Fantasy XIV, Forza Horizon 5, Ghosts of Tsushima, Hitman 3 (World of Assassination), Hogwarts Legacy, Horizon Forbidden West, League of Legends, Marvel's Spider Man – Remastered, Metro Exodus, Naraka Bladepoint, Red Dead Redemption 2, Remnant II, Shadow of the Tomb Raider, Star Wars Outlaws, Starfield, Tiny Tina's Wonderlands, Tom Clancy's: Rainbow Six Siege X, Total War: Warhammer III, Valorant, Watch Dogs Legion, World of Warcraft: The War Within

Intel® Binary Optimization Tool is an optional feature available by switching on advanced mode of Intel® Application Optimization, which is a policy within Intel® Dynamic Tuning Technology that optimizes performance on select games when played on required configurations on select Intel® Core™ processors. Learn

more at <https://www.intel.com/content/www/us/en/support/articles/000095419/processors.html> for additional details and see [ark.intel.com](https://ark.intel.com) for product details.

Performance results are based on testing as of 02/27/2026.:

Processor: Intel Core Ultra 7 270K Plus (Arrow Lake R); TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO motherboard; Memory: 32GB(2x16GB) DDR5 7200; Memory Timings: 34-45-45-45-115; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 Pro 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Discrete Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: AMI 9950 1/23/2026 ; Power Plan set to High Performance, Power Mode set to High Performance.

Processor: Intel Core Ultra 9 285K (Arrow Lake) TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO; Memory: 32GB(2x16GB) DDR5 6400; Memory Timings: 32-5-5-5-102; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: 2302; Power Plan set to High Performance, Power Mode set to High Performance.

Processor: Intel Core i9 14900K (Raptor Lake R) TDP=253W; tested in Asus ROG MAXIMUS Z790 HERO; Memory: 32GB(2x16GB) DDR5 6400; Memory Timings: 30-36-36-36-96; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.7082; Discrete Graphics: NVIDIA GeForce RTX 5090; Graphics Driver: 32.0.15.9174; NPU Driver: N/A; BIOS: 3107 BIOS; Power Plan set to High Performance, Power Mode set to High Performance.

2. **Intel® Binary Optimization Tool:** Intel® Binary Optimization Tool is an optional feature available by switching on advanced mode of Intel® Application Optimization, which is a policy within Intel® Dynamic Tuning Technology that optimizes performance on select games when played on required configurations on select Intel® Core™ processors. Learn more at <https://www.intel.com/content/www/us/en/support/articles/000095419/processors.html> for additional details and see [ark.intel.com](https://ark.intel.com) for product details.

### 3. Intel® Core™ Ultra 7 270K Plus processor delivers up to 39% faster gaming performance vs. previous generation on Shadow of the Tomb Raider:

Performance results are based on testing as of February 27th, 2026

Processor: Intel Core Ultra 7 270K Plus (Arrow Lake R); TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO motherboard; Memory: 32GB(2x16GB) DDR5 8000; Memory Timings: 38-48-48-128; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 Pro 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Discrete Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: AMI 9950 1/23/2026 ; Power Plan set to High Performance, Power Mode set to High Performance. Intel Binary Optimization Tool On

Intel® Binary Optimization Tool is an optional feature available by switching on advanced mode of Intel® Application Optimization, which is a policy within Intel® Dynamic Tuning Technology that optimizes performance on select games when played on required configurations on select Intel® Core™ processors. Learn more at <https://www.intel.com/content/www/us/en/support/articles/000095419/processors.html> for additional details and see [ark.intel.com](https://ark.intel.com) for product details.

Processor: Intel Core Ultra 7 265K (Arrow Lake) TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO; Memory: 32GB(2x16GB) DDR5 6400; Memory Timings: 32-5-5-5-102; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: 2302; Power Plan set to High Performance, Power Mode set to High Performance.

# Notices & Disclaimers

- 4. Overclocking:** 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 details.
- 5. Memory Support:** Maximum memory speeds are associated with 1 DIMM per Channel (IDPC) configurations. Additional DIMM loading on any channel may impact maximum memory speed. Up to DDR5-7200 MT/s IDPC CUDIMM 1Rx8, 1Rx16, 2Rx8. Maximum memory capacity is achievable with 2DPC configurations. For additional 2DPC configuration details, refer to [ark.intel.com](https://ark.intel.com)
- 6. Intel® Dynamic Tuning Technology / Intel® Application Optimization:** Intel® Application Optimization is a policy within Intel® Dynamic Tuning Technology that optimizes performance on select games, with the required configurations on select Intel® Core™ processors. Learn more at <https://www.intel.com/content/www/us/en/support/articles/000095419/processors.html> for additional details and see [ark.intel.com](https://ark.intel.com) for product details.
- 7. Intel® 200S Boost:** When paired with compatible Intel® Z890 motherboards and appropriate Intel® XMP memory modules.
- 8. More performance per dollar for enthusiasts:** Defined as performance per U.S. dollar within Intel desktop processors. Gaming value measured by average FPS per U.S. dollar at 1080p, high settings, geomean of 6 games, with Intel® Binary Optimization Tool enabled where supported. Content creation value measured by geomean performance per U.S. dollar across 4 creation benchmarks for the enthusiast desktop segment, compared to Intel's two prior-generation desktop processors targeting ~125W TDP. Intel® Core™ Ultra 5 250K Plus MSRP: \$199 USD. Prior-generation Intel processor pricing sourced from Newegg.com (U.S.) as of March 2026 and is subject to change.
- 9. Intel® Core™ Ultra 5 250K Plus processor delivers up to 103% faster multi-threaded performance vs. AMD Ryzen™ 5 9600X:**

Performance results are based on testing as of February 27th, 2026

Processor: Intel Core Ultra 5 250K Plus (Arrow Lake R); TDP=159W; tested in Asus ROG MAXIMUS Z890 HERO motherboard; Memory: 32GB(2x16GB) DDR5 7200; Memory Timings: 34-45-45-45-115; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 Pro 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Discrete Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: AMI 9950, 1/23/2026 ; Power Plan set to High Performance, Power Mode set to High Performance.

Processor: AMD Ryzen 5 9600X (Granite Ridge) TDP=65W; tested in Asus ROG CROSSHAIR X870E HERO; Memory: 32GB(2x16GB) DDR5 5600; Memory Timings: 30-36-36-36-96; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 26200.7623; Integrated Graphics: AMD Radeon Graphics; Integrated Graphics Driver: 32.0.21037.1004; Discrete Graphics: NVIDIA GeForce RTX 5090; Graphics Driver: 32.0.15.9174; NPU Driver: N/A; BIOS: 1805 BIOS; Power Plan set to High Performance, Power Mode set to High Performance.

- 10. Intel® Core™ Ultra 200S Plus processors deliver the fastest multi-threaded performance for desktop enthusiasts:**

Processor: Intel Core Ultra 7 270K Plus (Arrow Lake R); TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO motherboard; Memory: 32GB(2x16GB) DDR5 7200; Memory Timings: 34-45-45-45-115; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 Pro 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Discrete Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: AMI 9950 1/23/2026 ; Power Plan set to High Performance, Power Mode set to High Performance.

Processor: Intel Core Ultra 9 285K (Arrow Lake) TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO; Memory: 32GB(2x16GB) DDR5 6400; Memory Timings: 32-5-5-5-102; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: 2302; Power Plan set to High Performance, Power Mode set to High Performance.

Processor: AMD Ryzen 9 9950X (Granite Ridge) TDP=170W; tested in Asus ROG CROSSHAIR X870E HERO; Memory: 32GB(2x16GB) DDR5 5600; Memory Timings: 30-36-36-36-96; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 26200.7623; Integrated Graphics: AMD Radeon Graphics; Integrated Graphics Driver: 32.0.21037.1004; Discrete Graphics: NVIDIA GeForce RTX 5090; Graphics Driver: 32.0.15.9174; NPU Driver: N/A; BIOS: 1805 BIOS; Power Plan set to High Performance, Power Mode set to High Performance.

Processor: AMD Ryzen 9 9950X3D (Granite Ridge) TDP=170W; tested in Asus ROG CROSSHAIR X870E HERO; Memory: 32GB(2x16GB) DDR5 5600; Memory Timings: 30-36-36-36-96; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 26200.7623; Integrated Graphics: AMD Radeon Graphics; Integrated Graphics Driver: 32.0.21037.1004; Discrete Graphics: NVIDIA GeForce RTX 5090; Graphics Driver: 32.0.15.9174; NPU Driver: N/A; BIOS: 1805 BIOS; Power Plan set to High Performance, Power Mode set to High Performance.

- 11. Discrete Intel® Wi-Fi 7 (5 Gig):** 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).
- 12. Intel® Connectivity Performance Suite:** The Intel® Connectivity Performance Suite (CPS) software application requires Microsoft Windows 11 operating system and enables automated network traffic prioritization and connection optimization for Intel PC platforms configured with Intel® Wi-Fi 7 (5 Gig) products.
- 13. Intel® Killer™ Networking:** The Intel® Killer™ Performance Suite requires the use an Intel® Killer™ Wi-Fi product.
- 14. Thunderbolt™ Share:** Thunderbolt™ Share is required to be installed on both PCs. See the release notes via [www.intel.com](https://www.intel.com) for supported hardware, what is new, bug fixes, and known issues.
- 15. An all-new class of optimization IP to serve enthusiast performance:** On supported Intel Binary Optimization Tool workloads
- 16. Intel® Core™ Ultra 7 270K Plus processor delivers up to 22% faster gaming performance on Shadow of the Tomb Raider when Intel Binary Optimization Tool is enabled, compared to performance with the feature turned off:**

Performance results are based on testing as of February 27th, 2026

Processor: Intel Core Ultra 7 270K Plus (Arrow Lake R); TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO motherboard; Memory: 32GB(2x16GB) DDR5 8000; Memory Timings: 38-48-48-128; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 Pro 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Discrete Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: AMI 9950 1/23/2026; Power Plan set to High Performance, Power Mode set to High Performance. Intel Binary Optimization Tool feature On.

Intel® Binary Optimization Tool is an optional feature available by switching on advanced mode of Intel® Application Optimization, which is a policy within Intel® Dynamic Tuning Technology that optimizes performance on select games when played on required configurations on select Intel® Core™ processors. Learn more at <https://www.intel.com/content/www/us/en/support/articles/000095419/processors.html> for additional details and see [ark.intel.com](https://ark.intel.com) for product details.

Processor: Intel Core Ultra 7 270K Plus (Arrow Lake R); TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO motherboard; Memory: 32GB(2x16GB) DDR5 8000; Memory Timings: 38-48-48-128; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 Pro 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Discrete Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: AMI 9950 1/23/2026; Power Plan set to High Performance, Power Mode set to High Performance. Intel Binary Optimization Tool feature Off.

# Notices & Disclaimers

- 17. Intel® Core™ Ultra 7 270K Plus processor delivers up to 8% geometric faster gaming performance across 12 games on Intel® Core™ Ultra 7 270K Plus when Intel Binary Optimization Tool feature is enabled compared to performance with the feature turned off:**

Performance results are based on testing as of February 27th, 2026

Processor: Intel Core Ultra 7 270K Plus (Arrow Lake R); TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO motherboard; Memory: 32GB(2x16GB) DDR5 8000; Memory Timings: 38-48-48-128; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 Pro 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Discrete Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: AMI 9950 1/23/2026; Power Plan set to High Performance, Power Mode set to High Performance. Intel Binary Optimization Tool feature On.

Intel® Binary Optimization Tool is an optional feature available by switching on advanced mode of Intel® Application Optimization, which is a policy within Intel® Dynamic Tuning Technology that optimizes performance on select games when played on required configurations on select Intel® Core™ processors. Learn more at <https://www.intel.com/content/www/us/en/support/articles/000095419/processors.html> for additional details and see [ark.intel.com](http://ark.intel.com) for product details.

Processor: Intel Core Ultra 7 270K Plus (Arrow Lake R); TDP=250W; tested in Asus ROG MAXIMUS Z890 HERO motherboard; Memory: 32GB(2x16GB) DDR5 8000; Memory Timings: 38-48-48-128; Storage: Samsung SSD - 990 PRO 4TB; Display Resolution: 1980x1080; OS: Windows 11 Pro 26200.7623; Integrated Graphics: Intel Graphics; Integrated Graphics Driver: 32.0.101.8331; Discrete Graphics: NVIDIA GeForce RTX 5090; Discrete Graphics Driver: 32.0.15.9174; NPU Driver: 32.0.100.4514; BIOS: AMI 9950 1/23/2026; Power Plan set to High Performance, Power Mode set to High Performance. Intel Binary Optimization Tool feature Off

- 18. X<sup>e</sup> LPG Graphics Architecture:** Available only on Intel® Core™ Ultra desktop processors that feature integrated graphics.
- 19. Boost Frequencies:** Intel® Turbo Boost Max Technology 3.0 and Intel® Thermal Velocity Boost are only available on Performance-cores.
- 20. Processor Numbers:** Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.
- 21. Processor Cores:** Processor cores listed first are the total number of cores in the processor. The number of Performance-cores and the number of Efficient-cores are listed in parentheses (P+E).
- 22. E-Core Frequencies:** Efficient-core frequencies are lower to optimize power usage. The frequency and types of cores vary with workload, power consumption, and other factors. Visit <https://www.intel.com/content/www/us/en/gaming/resources/turbo-boost.html> for more information.
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- 24. Intel® Stable IT Platform Program (SIPP):** Eligible for Intel® SIPP starting with Arrow Lake-S Commercial platform availability.
- 25. Intel vPro® Support (1):** All versions of the Intel vPro® require an eligible Intel® processor, a supported operating system, Intel® LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. See [www.intel.com/performance-vpro](http://www.intel.com/performance-vpro) for details.
- 26. Intel vPro® Support (2):** Intel vPro® Enterprise with Intel® Active Management Technology (Intel® AMT).

- 27. Intel® Standard Manageability:** When paired with the eligible Intel® Q880 Series chipset SKU, a motherboard with supporting hardware and software, and potential service activation.

- 28. TOPS:** All TOPS are “up to” and approximate until the final IP frequency is defined; different SKUs with different frequency & power targets will have different TOPS.

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