

The Intel logo, consisting of the word "intel" in a lowercase, sans-serif font, with a small registered trademark symbol (®) to its upper right. The logo is white and is positioned on a dark blue rectangular background that is part of the overall graphic design.

intel®

# *Intel® Core™ Ultra Series 3 Processors*

January 5<sup>th</sup> 2026



# ***Notices and Disclaimers***

For notices, disclaimers, and details about certain performance claims, visit [www.intel.com/PerformanceIndex](http://www.intel.com/PerformanceIndex) or scan the QR code:



© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.



# ***Notices and Disclaimers***

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

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See CES 2026 Events page on [intel.com/performanceindex](https://intel.com/performanceindex) 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.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.





# World-class Partners

For world-changing technology

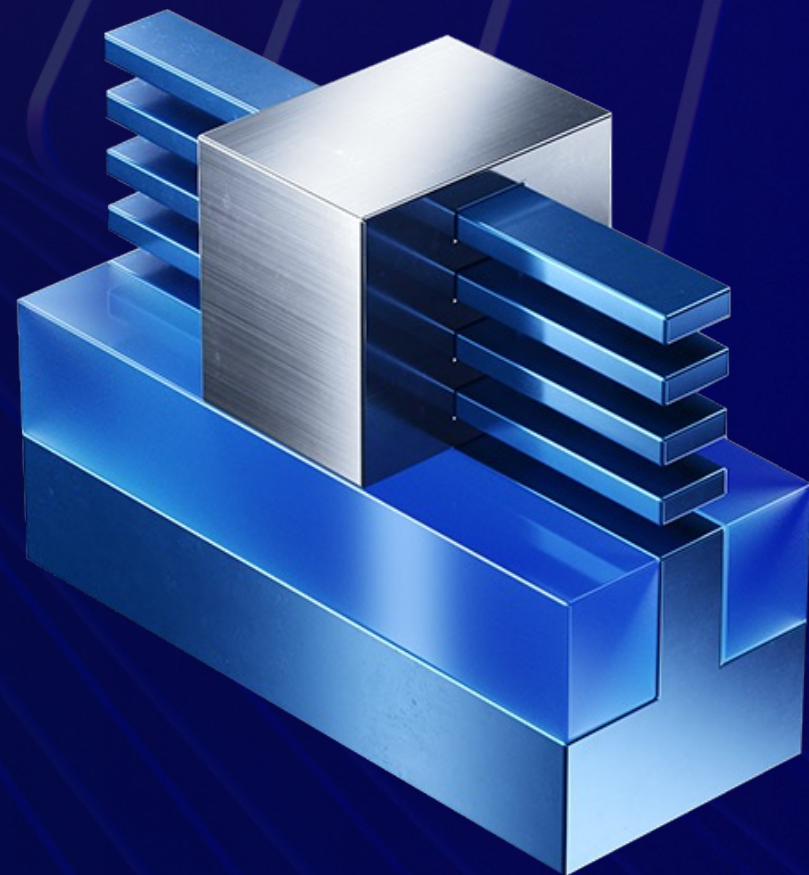




***Develop,  
Deploy, and  
Build in the U.S.***

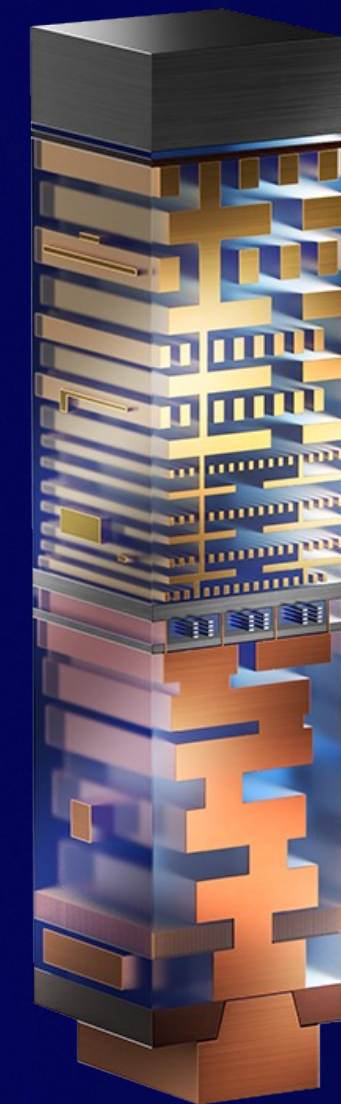


RibbonFET Transistor



intel  
18A

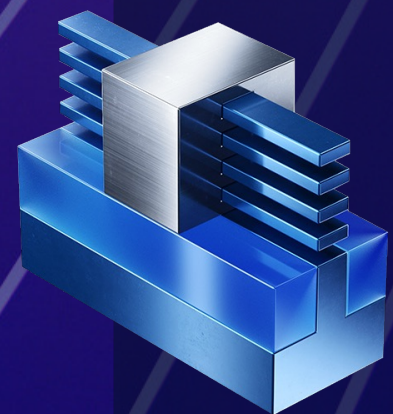
PowerVia Technology



***In High Volume  
Production***

To deliver at global scale





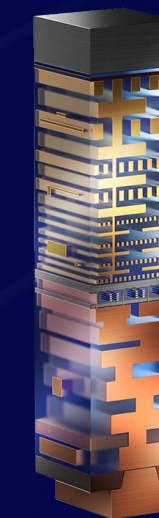
## RibbonFET Transistor

intel  
18A

# Power & Area Efficiency

Unlocked by RibbonFET & PowerVia

## PowerVia Technology



intel  
3

Up to

**15%**

Better Perf/W

intel  
18A

intel  
3

Up to

**30%**

Better Chip Density

intel  
18A

Area

Area

Frequency

Frequency





# ***Client Strategic Anchors***

## Leadership Manufacturing

U.S.  
Manufacturing  
and R&D

Advanced  
packaging

18A  
at scale

## Leadership x86 Processors

Power efficient  
performance

Hybrid core  
architecture

Multi-engine  
local AI





*Meet the needs of  
the ecosystem and*

***Anticipate  
What's Next***



# Intel® Core™ Ultra Series 3

Built with

intel  
18A



Exceptional  
performance

Enduring  
efficiency

Leading  
AI experiences

Game-changing  
graphics

Loaded with  
connectivity & I/O



Up to  
**16**  
CPU cores

Up to  
**96GB**  
LPDDR5

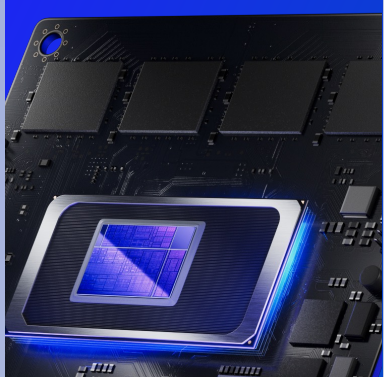
Next-gen  
IPU 7.5

Up to **180** TOPS  
Across the total platform

Next-gen  
NPU 5

New  
Xe3 GPU

**XeSS**  
Multi-Frame  
Generation




 Integrated  
Thunderbolt™ 4


# Intel® Core™ Ultra Series 3

Enhanced Intel Thread Director  
& power management

Integrated Intel® Wi-Fi 7 (R2) &  
Dual Intel® Bluetooth® Core 6

Up to  
**12**  
Xe-cores

  
**E-core  
Darkmont**

  
**P-core  
Cougar Cove**



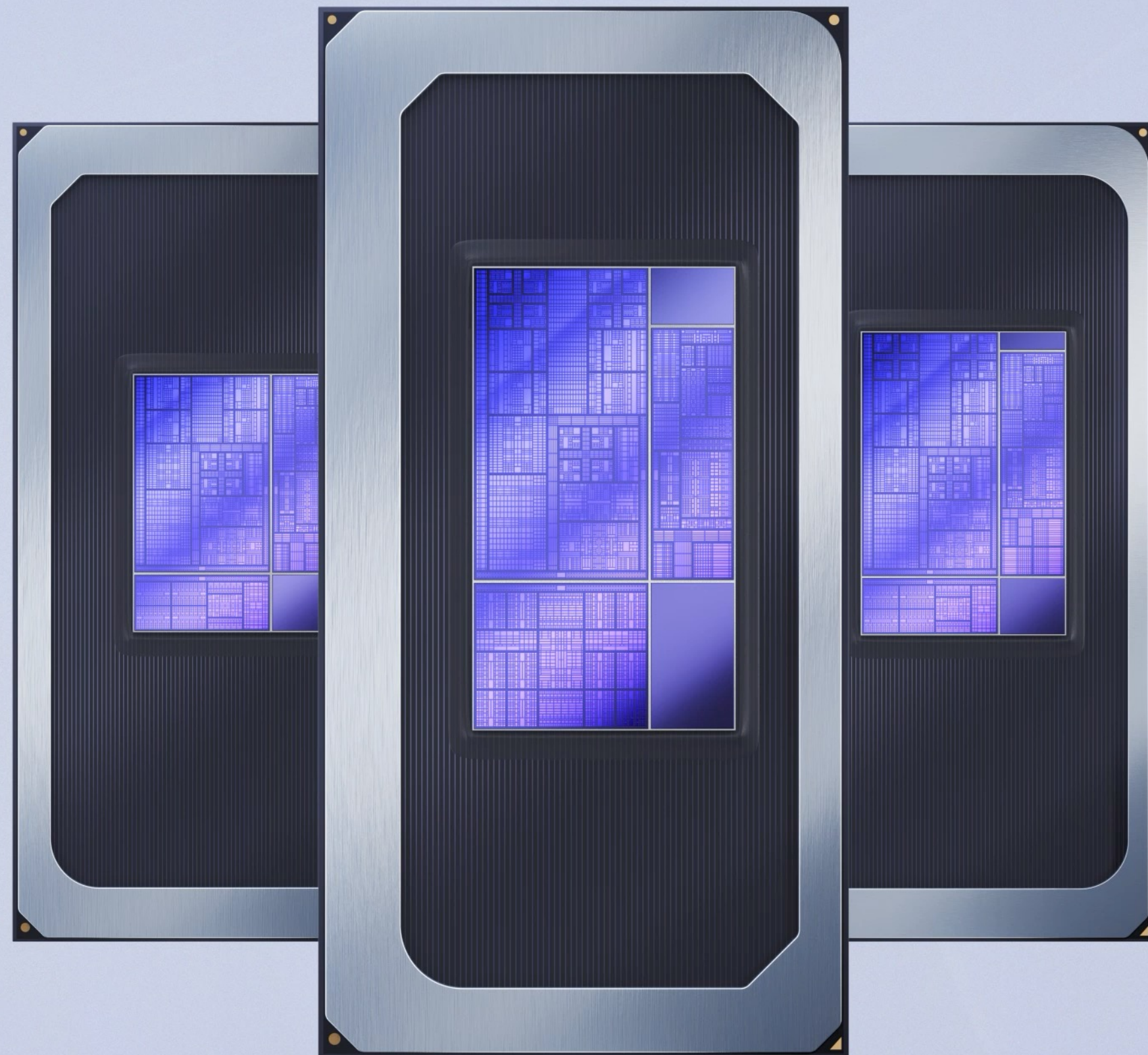
Up to  
**12** lanes  
PCIe gen 5

Intel® Partner Security Engine  
INTEL® HOST EMBEDDED  
CONTROLLER INTERFACE  
SECURITY PROCESSOR  
SRAM  
**Intel®  
Total  
Storage  
Encryption**

  
New  
LPCAMM  
Support

**intel**®





# *Intel<sup>®</sup> Core<sup>™</sup> Ultra Series 3*

Built to scale

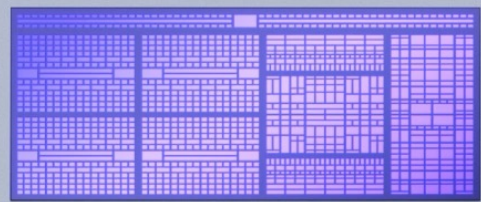
***More***  
Designs

***More***  
Price points

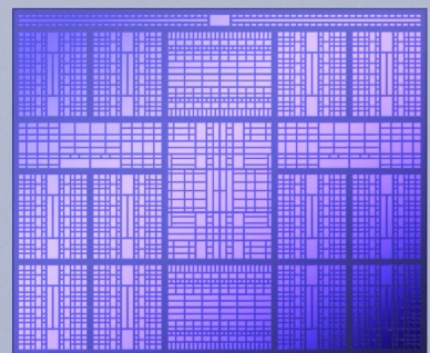
***More***  
Experiences



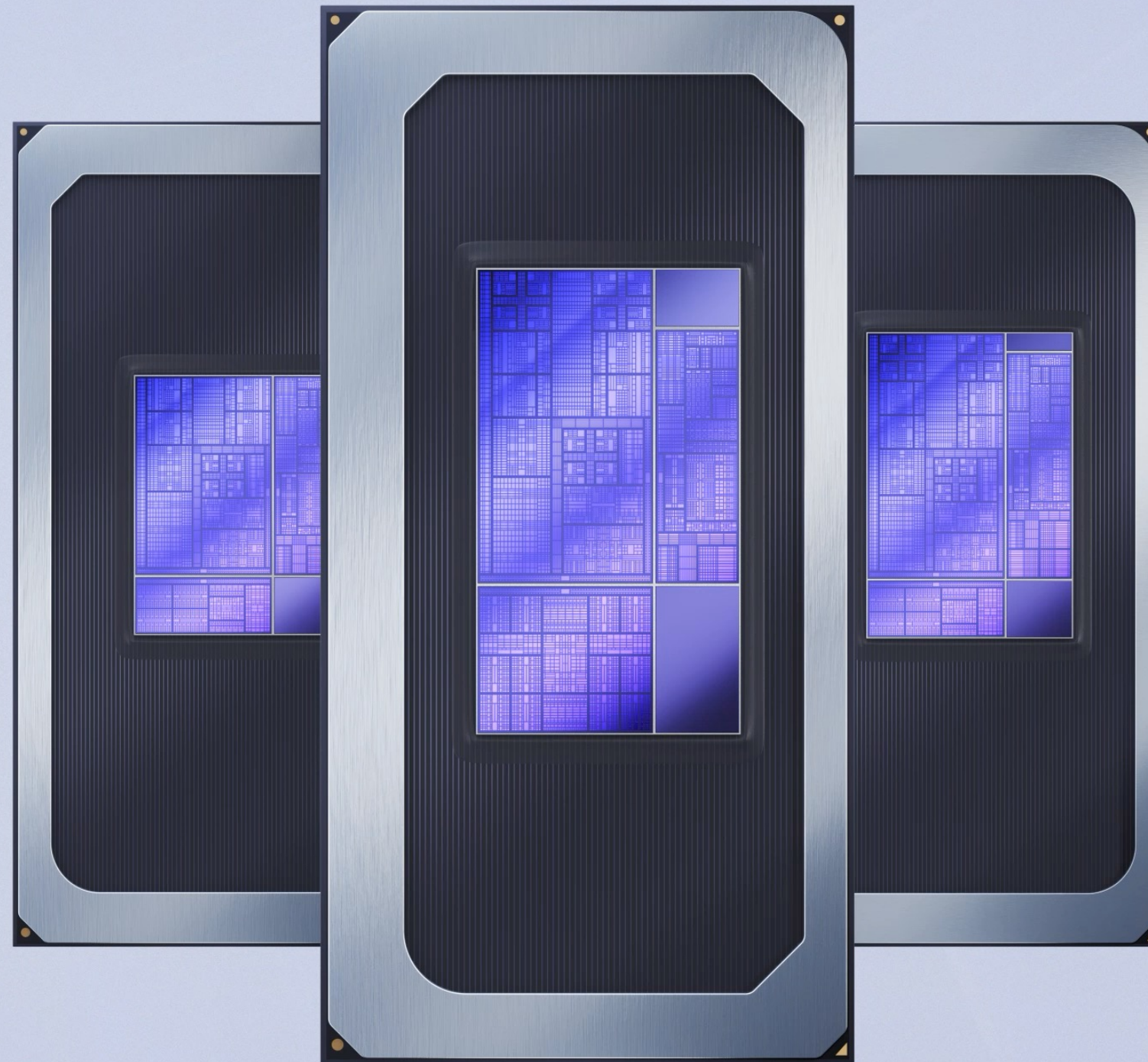
## GPU Tile



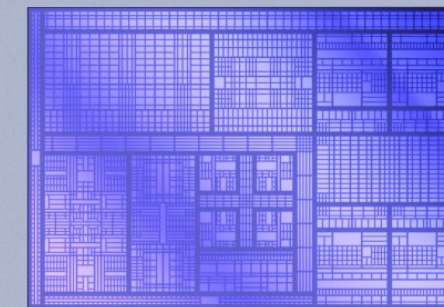
4 Xe cores



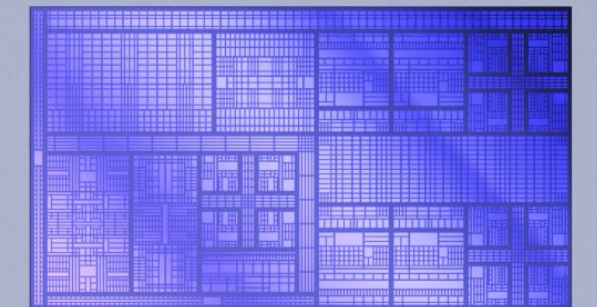
12 Xe cores



## Compute Tile

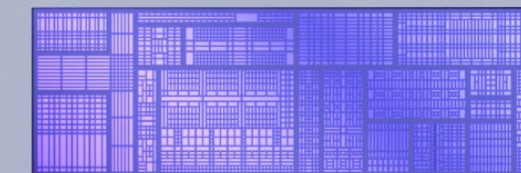


8 cores



16 cores

## Platform Controller Tile



12 PCIe lanes



20 PCIe lanes



Intel® Core™ Ultra Series 3

# Die Package Configurations

Compute tile

Built on

intel 18A

CPU

up to 8 cores

P-cores

4

Cougar Cove

LPE-cores

4

Darkmont

xPU

IPU 7.5

Image signal processor

NPU 5

Xe

Media & display engines

Memory

Up to 7467 MT/s

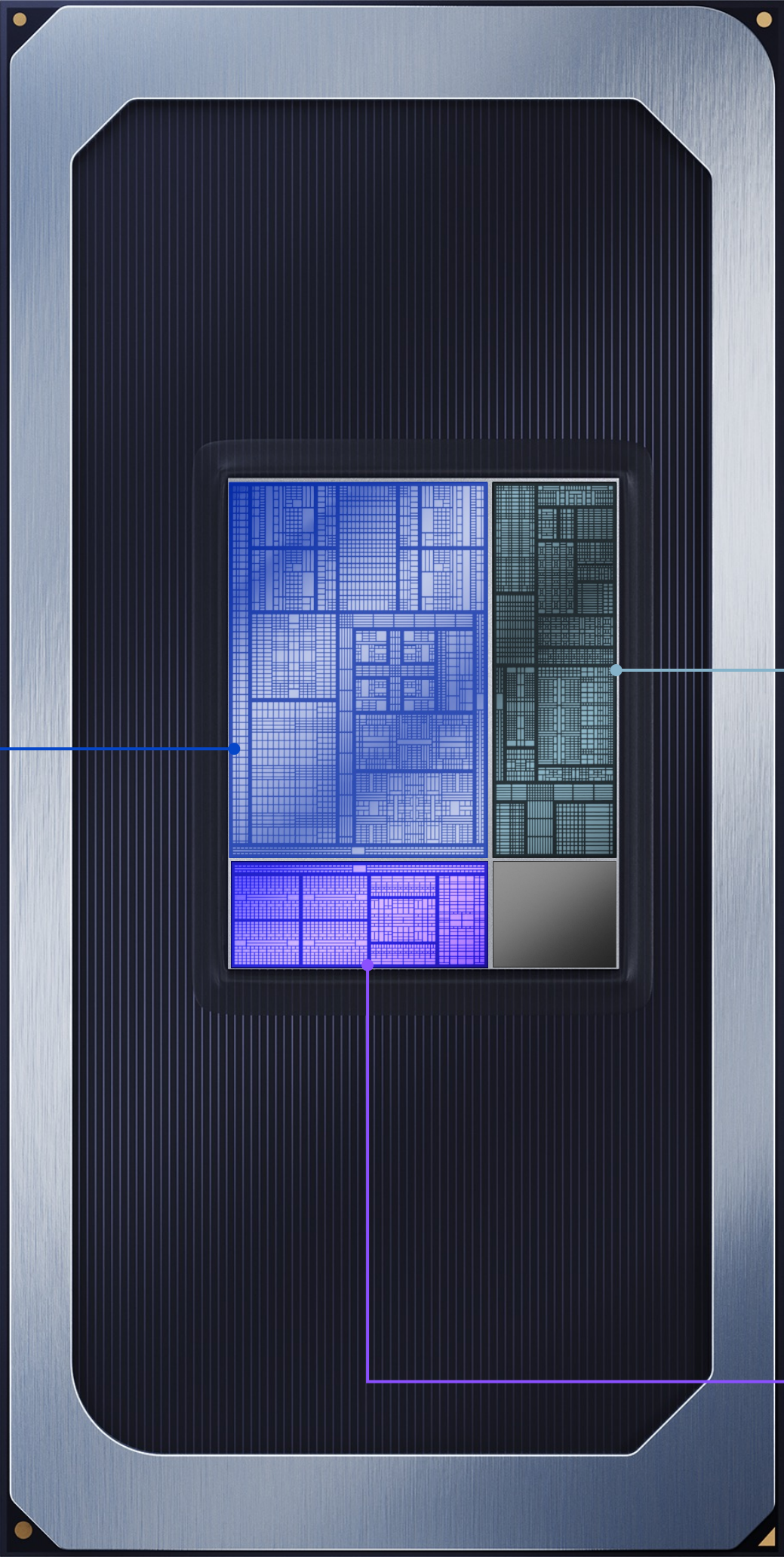
LPDDR5x

Up to 6400 MT/s

DDR5

8MB

Memory-side cache



Platform controller tile

Built on

External

I/O

12

PCIe lanes

8x

PCIe gen 4

4x

PCIe gen 5

Up to 4x

Thunderbolt™ 4

2x USB 3.2

8x USB 2.0

Connectivity

Intel®

Wi-Fi 7 (R2)

Intel®

Bluetooth®

Core 6.0

GPU tile

Built on

intel 3

Xe3

Architecture

4

Xe-cores

4

Ray tracing units



Intel® Core™ Ultra Series 3

# Die Package Configurations

Compute tile

Built on

intel 18A

CPU

up to 16 cores

P-cores

4

Cougar Cove

E-cores

8

Darkmont

LPE-cores

4

Darkmont

xPU

IPU 7.5

Image signal processor

NPU 5

Xe

Media & display engines

Memory

Up to 8533 MT/s

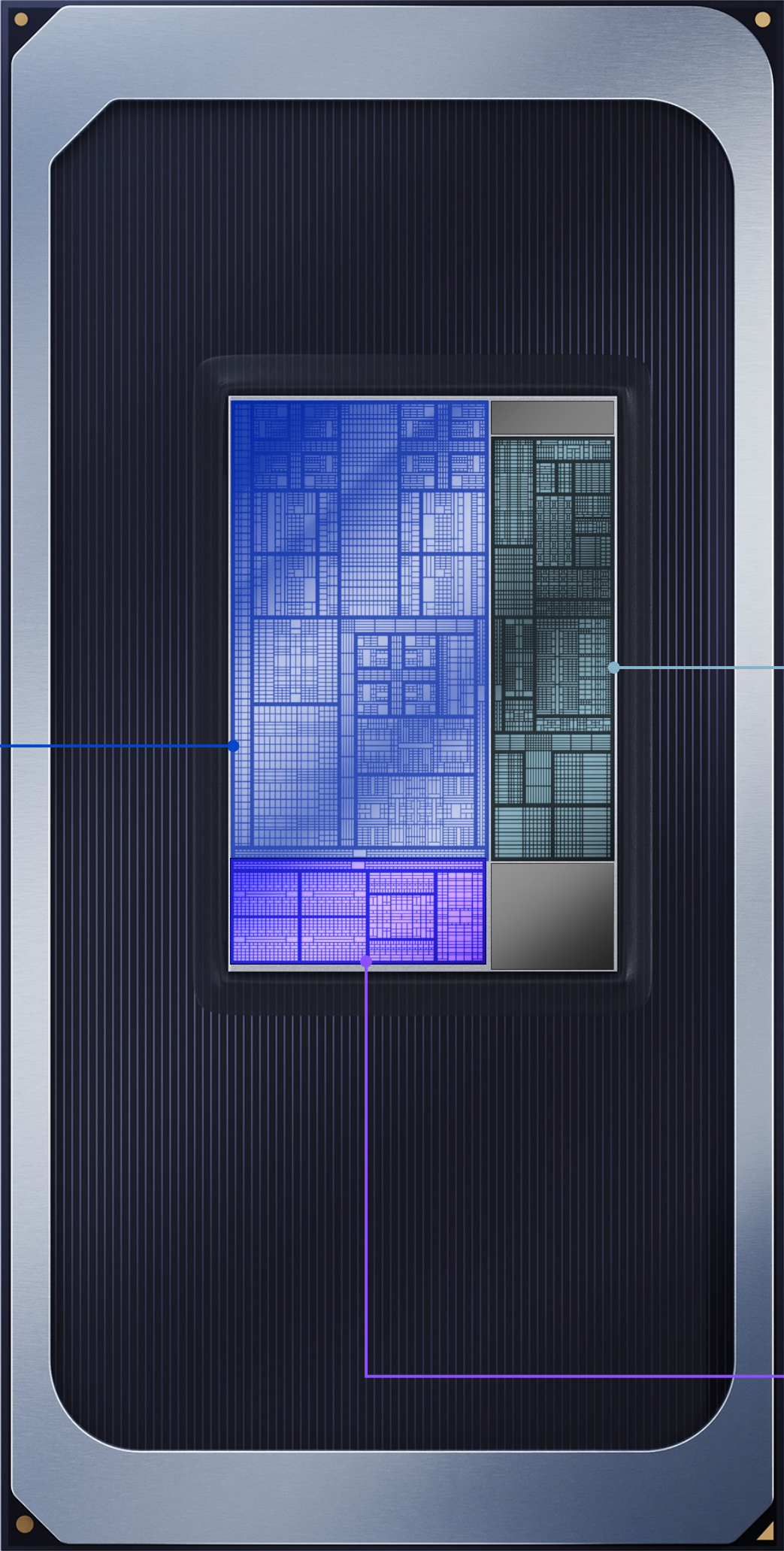
LPDDR5x

Up to 7200 MT/s

DDR5

8MB

Memory-side cache



Platform controller tile

Built on

External

I/O

20

PCIe lanes

8x

PCIe gen 4

12x

PCIe gen 5

Up to 4x

Thunderbolt™ 4

2x USB 3.2

8x USB 2.0

Connectivity

Intel®

Wi-Fi 7 (R2)

Intel®

Bluetooth®

Core 6.0

GPU tile

Built on

intel 3

Xe3

Architecture

4

Xe-cores

4

Ray tracing units



Intel® Core™ Ultra Series 3

# Die Package Configurations

Compute tile

Built on

intel 18A

CPU

up to 16 cores

P-cores

4

Cougar Cove

E-cores

8

Darkmont

LPE-cores

4

Darkmont

xPU

IPU 7.5

Image signal processor

NPU 5

Xe

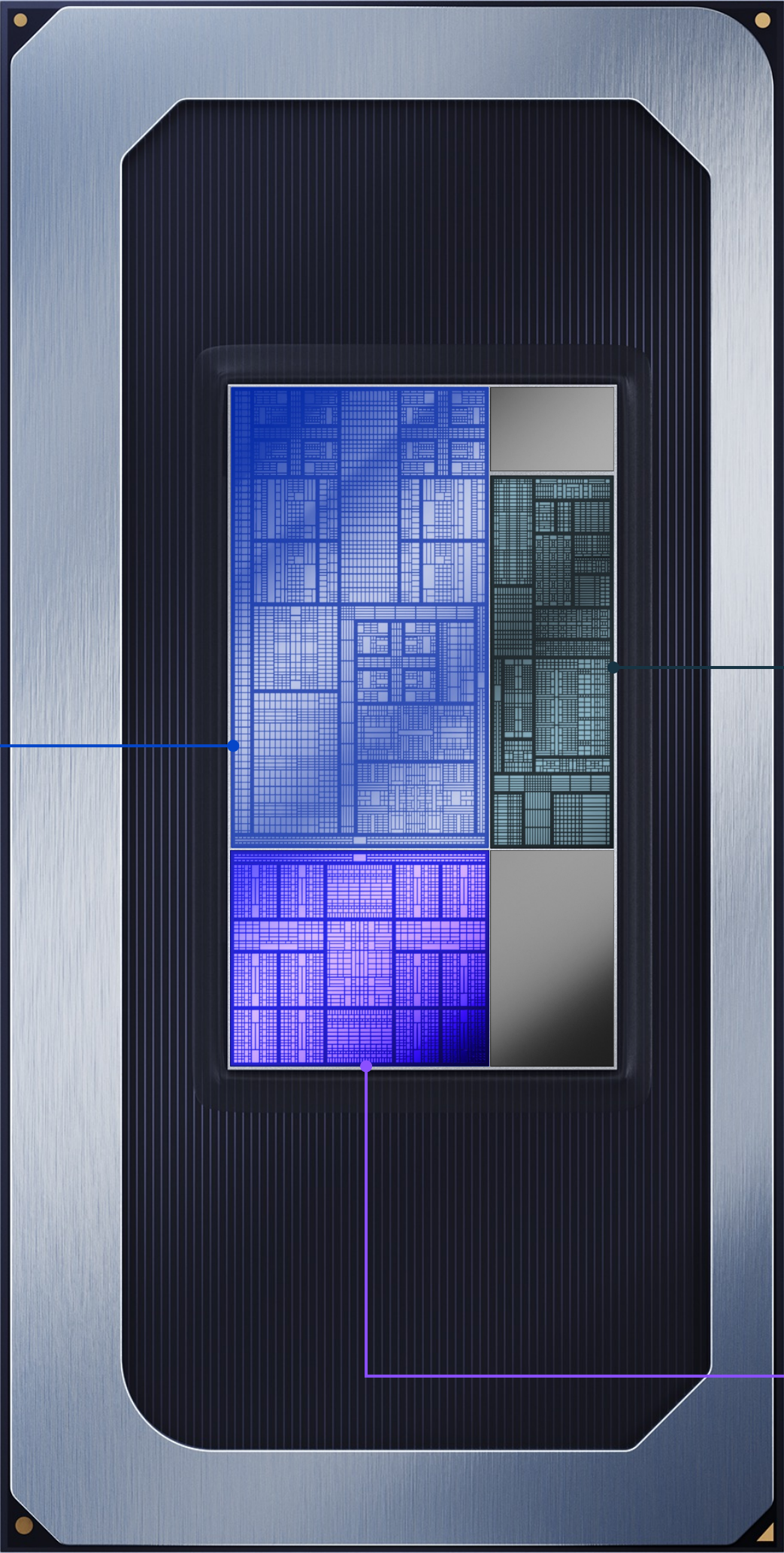
Media & display engines

Memory

Up to 9600 MT/s LPDDR5x

8MB

Memory-side cache



Platform controller tile

Built on

External

I/O

12

PCIe Lanes

8x

PCIe gen 4

4x

PCIe gen 5

Up to 4x Thunderbolt™ 4

2x USB 3.2  
8x USB 2.0

Connectivity

Intel® Wi-Fi 7 (R2)

Intel® Bluetooth® Core 6.0

GPU tile

Built on

External

Xe3

Architecture

12

Xe-cores

12

Ray tracing units



Intel® Core™ Series 3

# Die Package Configuration

Platform controller tile

Built on

External

I/O

6

PCIe lanes

6x

PCIe gen 4

Up to

2x

Thunderbolt™ 4

2x USB 3.2

8x USB 2.0

Connectivity

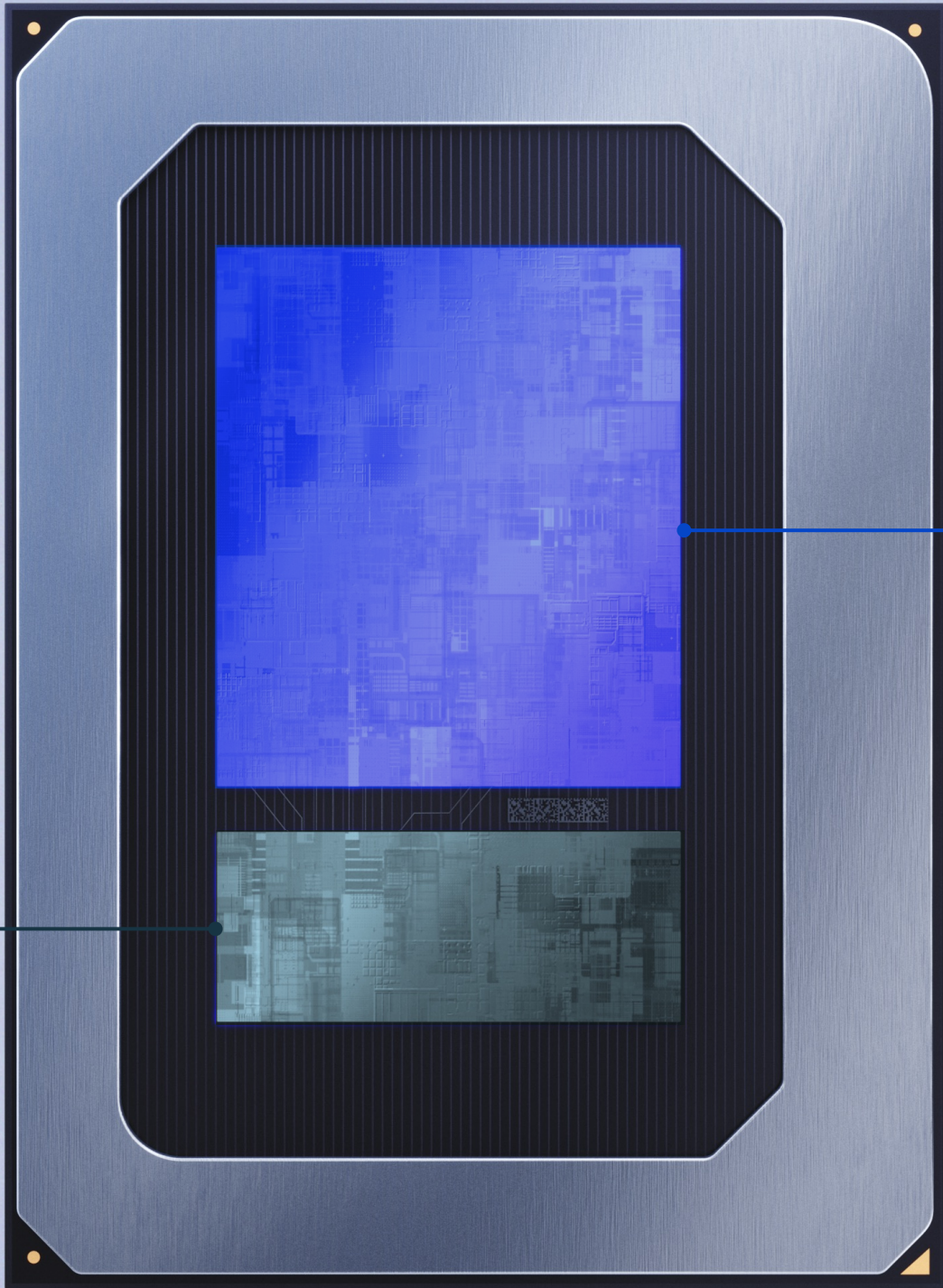
Intel®

Wi-Fi 7 (R2)

Intel®

Bluetooth®

Core 6.0



Compute & GPU tile

Built on

intel 18A

CPU

up to

6

cores

P-cores

2

Cougar Cove

LPE-cores

4

Darkmont

xPU

NPU 5

Xe

Media & display engines

Memory

Up to

7467 MT/s

LPDDR5x

Up to

6400 MT/s

DDR5

4MB

Memory-side cache

GPU

Xe3

Architecture

2

Xe-cores



# Intel® Core™ Ultra Series 3

Our best processor yet in  
impressively thin and light laptops



intel intel  
evo vPRO  
EDITION

Get as much as

**27**

Hours  
Battery Life

Up to

**77%**

Faster  
Graphics

Up to

**60%**

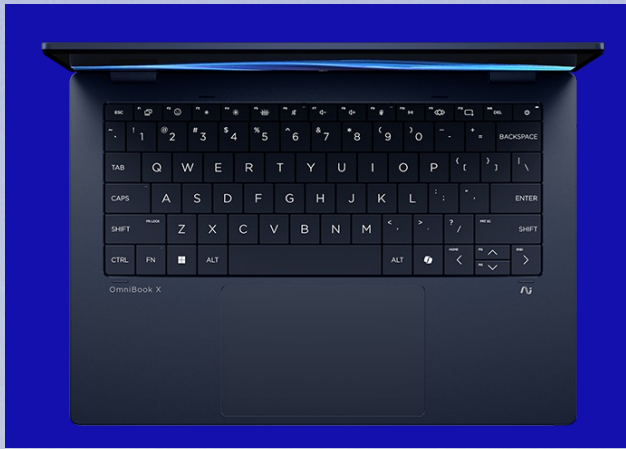
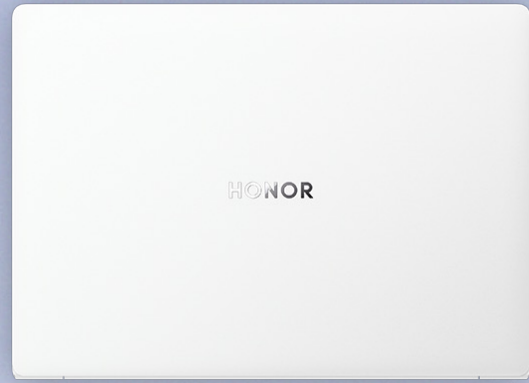
Faster CPU  
Performance

Up to

**2x**

Faster  
AI Performance





# Unmatched Scale

With 200+ Designs





Intel® Core™ Ultra Series 3

# *Available in January*

Pre-orders starting Jan 6<sup>th</sup>



Visualization for illustrative purposes only.

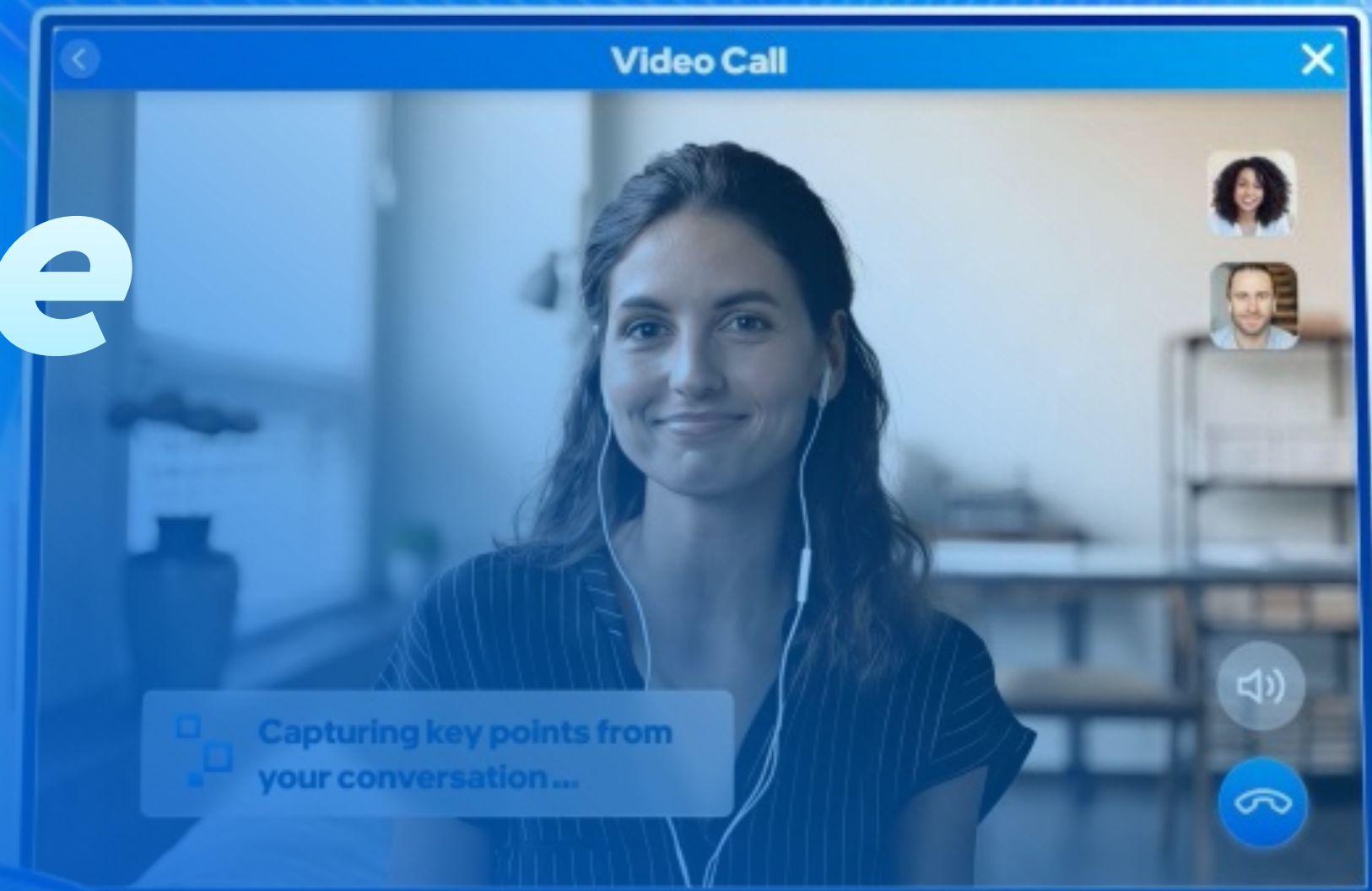


# Intel® Core™ Ultra Series 3 Processors

	CPU			NPU	GPU				Memory		Power	
Processor Number	Total Cores & Threads	P-core Max Turbo Freq (GHz)	Intel® Smart Cache LLC (MB)	TOPS	Brand	Total Xe-cores	Max Freq (GHz)	TOPS	Maximum Memory Speed (MT/s)	Maximum Memory Capacity (GB)	Processor Base Power	Maximum Turbo Power (W)
Intel® Core™ Ultra X9 388H	16	5.1	18	50	Intel® Arc™ B390 Intel® Arc™ Pro B390	12	2.5	122	LP5/X 9600	96 (LP5/x)	25W	65 <sup>7</sup> ,80 <sup>7</sup>
Intel® Core™ Ultra 9 386H	16	4.9	18	50	Intel Graphics	4	2.5	40	LP5/X 8533 DDR5 7200	96 (LP5/x) 128 (DDR5)		65 <sup>7</sup> ,80 <sup>7</sup>
Intel® Core™ Ultra X7 368H	16	5.0	18	50	Intel® Arc™ B390 Intel® Arc™ Pro B390	12	2.5	122	LP5/X 9600	96 (LP5/x)		65 <sup>7</sup> ,80 <sup>7</sup>
Intel® Core™ Ultra 7 366H	16	4.8	18	50	Intel Graphics	4	2.5	40	LP5/X 8533 DDR5 7200	96 (LP5/x) 128 (DDR5)		65 <sup>7</sup> ,80 <sup>7</sup>
Intel® Core™ Ultra 7 365	8	4.8	12	49	Intel Graphics	4	2.5	40	LP5/X 6800 DDR5 6400			55
Intel® Core™ Ultra X7 358H	16	4.8	18	50	Intel® Arc™ B390	12	2.5	122	LP5/X 9600	96 (LP5/x)		65 <sup>7</sup> ,80 <sup>7</sup>
Intel® Core™ Ultra 7 356H	16	4.7	18	50	Intel Graphics	4	2.45	40	LP5/X 8533 DDR5 7200	96 (LP5/x) 128 (DDR5)		65 <sup>7</sup> ,80 <sup>7</sup>
Intel® Core™ Ultra 7 355	8	4.7	12	49	Intel Graphics	4	2.5	40	LP5/X 6800 DDR5 6400			55
Intel® Core™ Ultra 5 338H	12	4.7	18	47	Intel® Arc™ B370 Intel® Arc™ Pro B370	10	2.4	98	LP5/X 8533	96 (LP5/x)	25W	65 <sup>7</sup> ,80 <sup>7</sup>
Intel® Core™ Ultra 5 336H	12	4.6	18	47	Intel Graphics	4	2.3	37	LP5/X 8533 DDR5 7200	LP5/X 6800 DDR5 6400		65 <sup>7</sup> ,80 <sup>7</sup>
Intel® Core™ Ultra 5 335	8	4.6	12	47	Intel Graphics	4	2.45	40	96 (LP5/x) 128 (DDR5)			55
Intel® Core™ Ultra 5 325	8	4.5	12	47	Intel Graphics	4	2.45	40				55
Intel® Core™ Ultra 5 332	6	4.4	12	46	Intel Graphics	2	2.3	18				55
Intel® Core™ Ultra 5 322	6	4.4	12	46	Intel Graphics	2	2.3	18				55



# ***Performance & Efficiency***

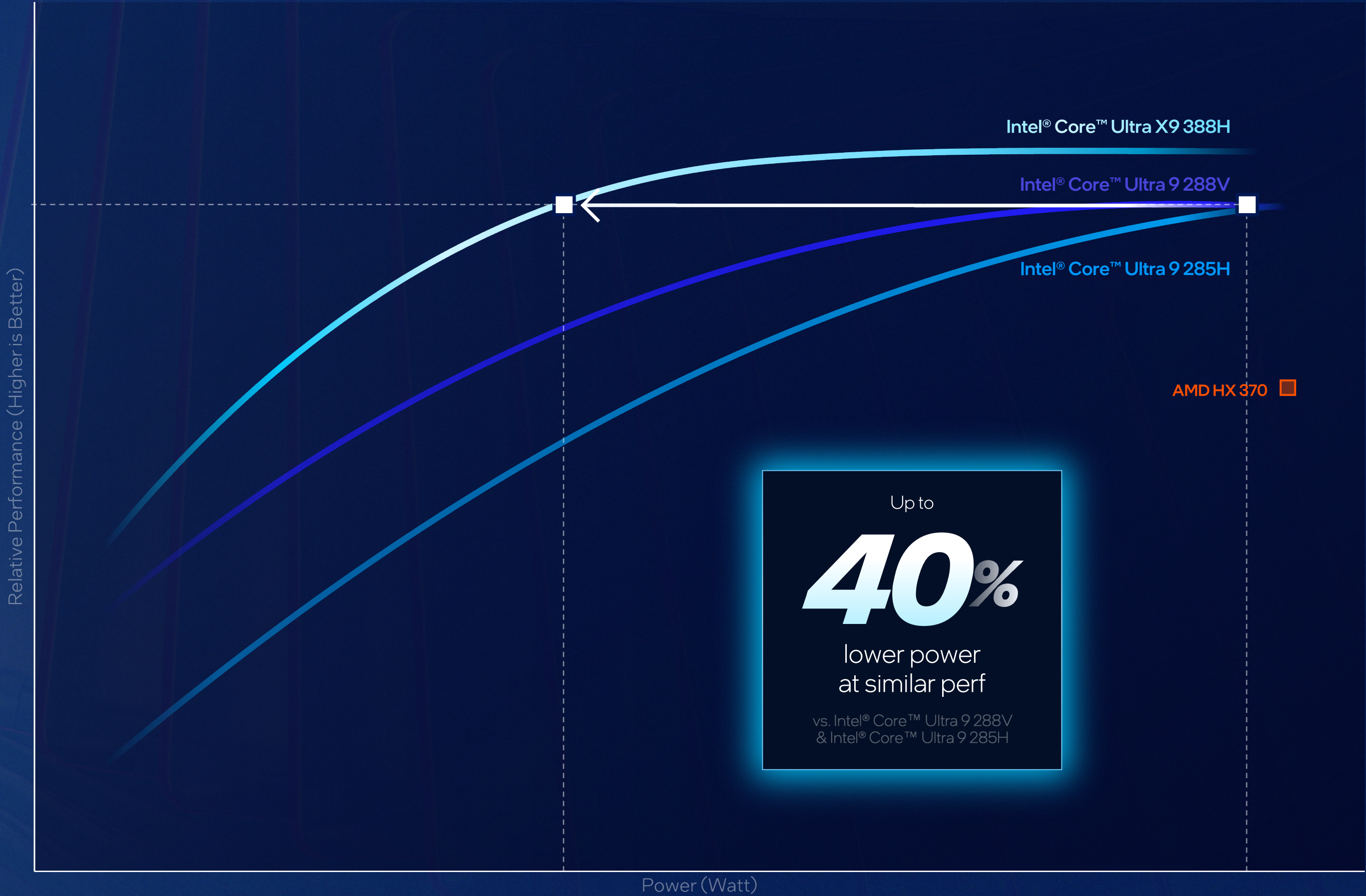




Intel® Core™ Ultra Series 3

# Built for Efficiency

Cinebench 2024 Single Core



Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.

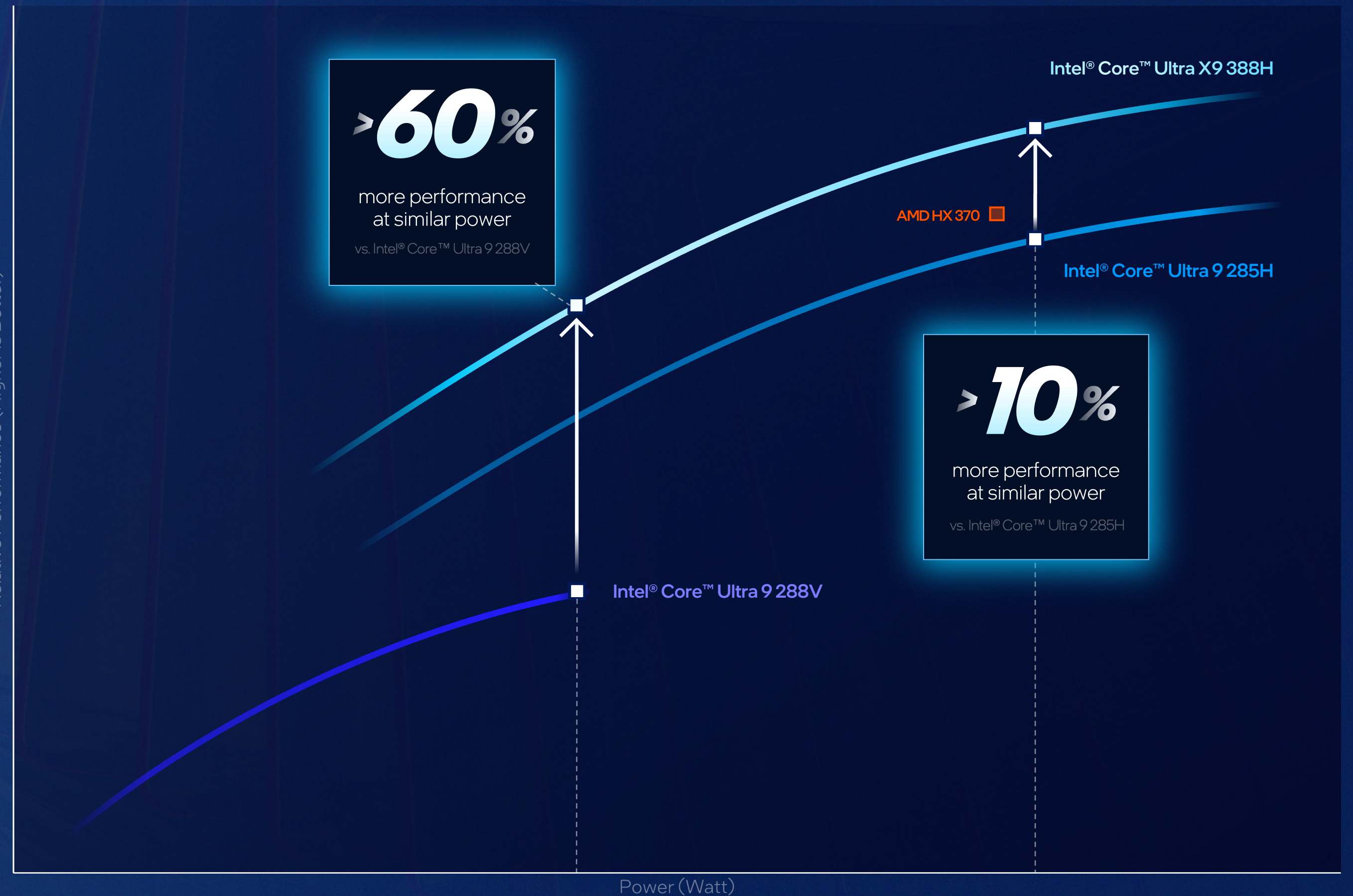


Intel® Core™ Ultra Series 3

# Scaling Performance with Efficiency

Cinebench 2024 Multi Core

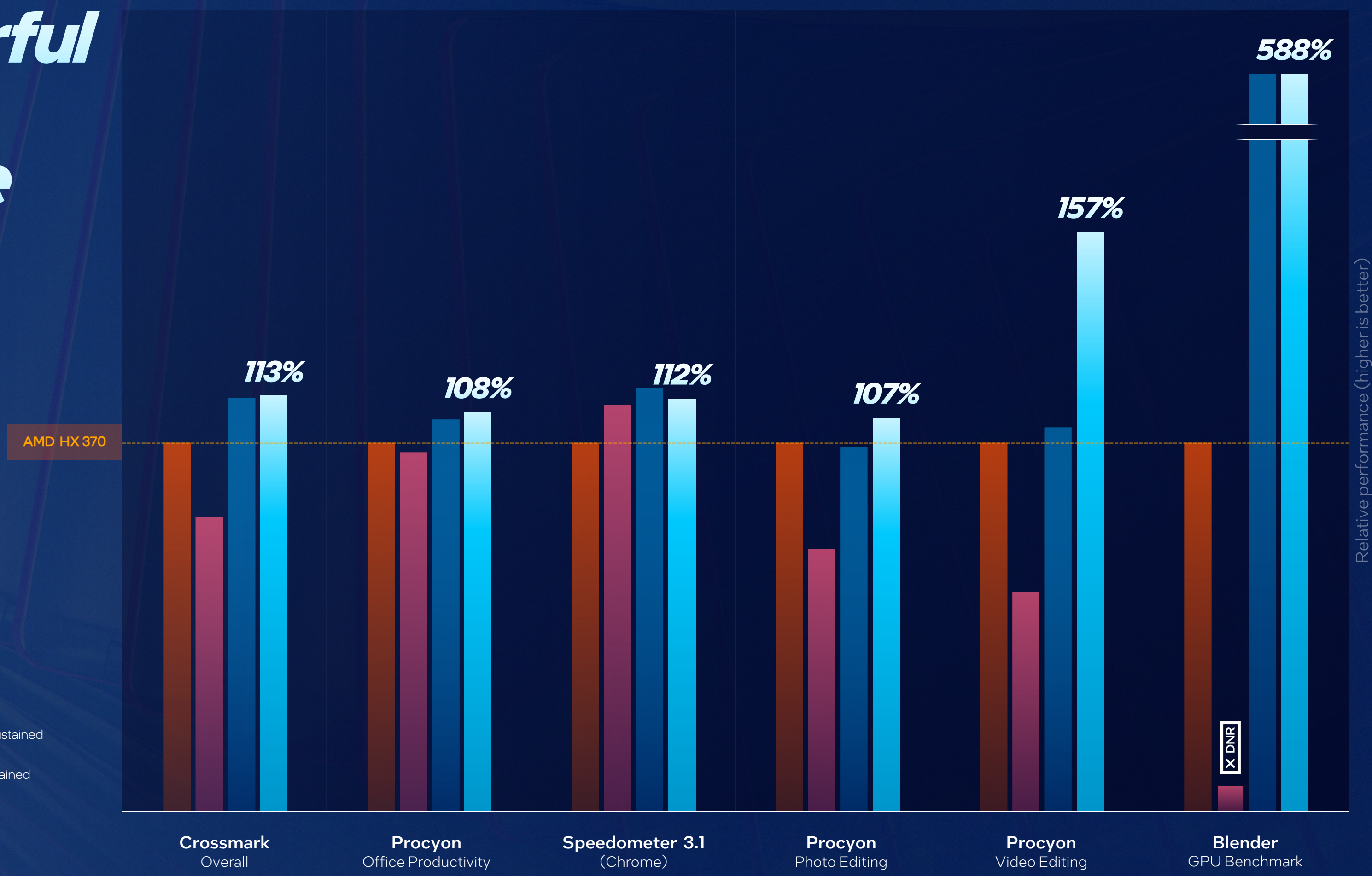
Relative Performance (Higher is Better)





# Thin & Powerful Productivity Performance

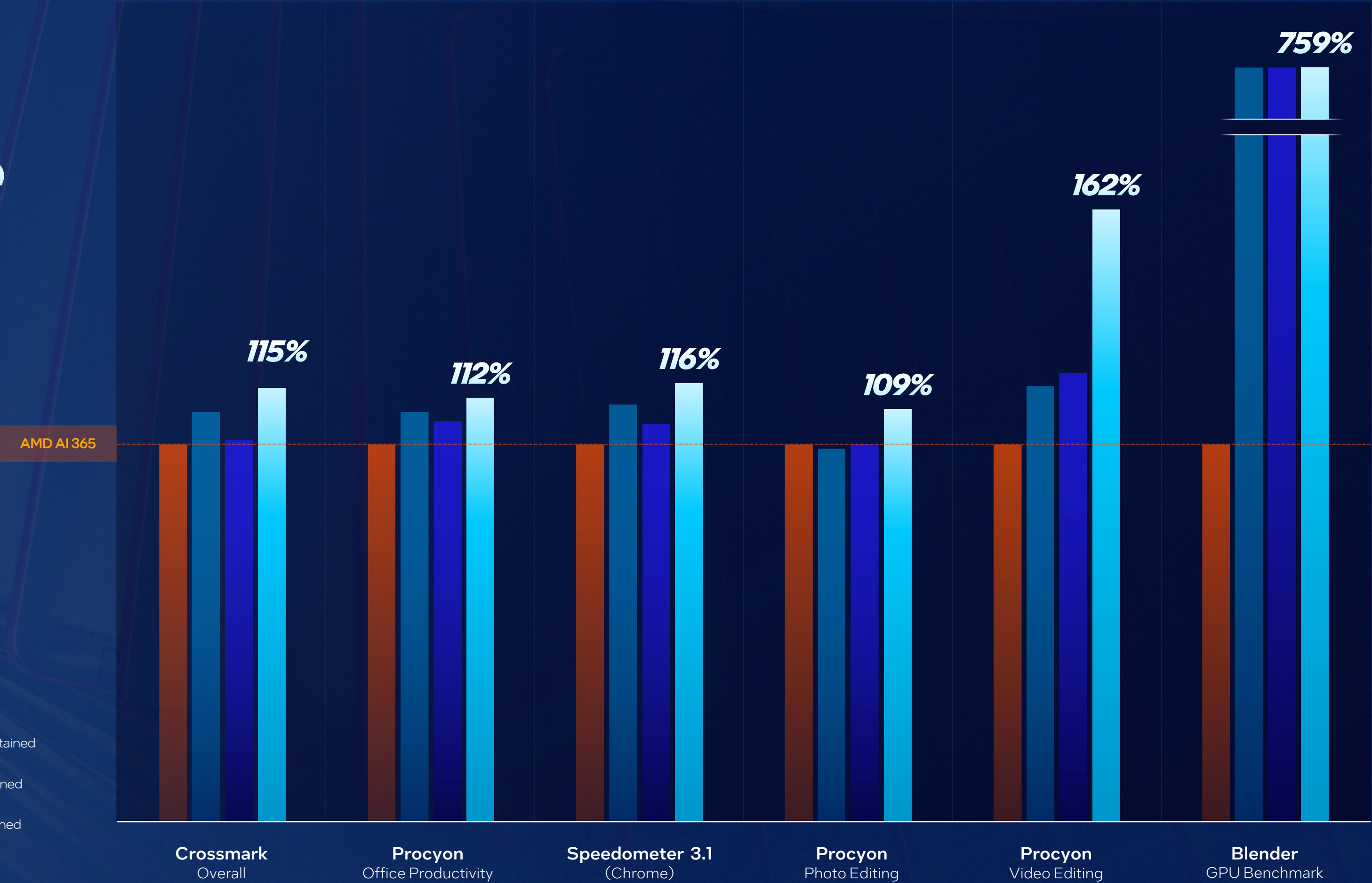
- Intel® Core™ Ultra X9 388H | Reference Platform, 45W sustained
- Intel® Core™ Ultra 9 285H | Reference Platform, 45W sustained
- Qualcomm 84-100 | Customer Chassis, ~50W sustained
- AMD HX 370 | Customer Chassis, 53W sustained





# Thin & Light Productivity Performance

- Intel® Core™ Ultra X9 388H | Reference Platform, 25W sustained
- Intel® Core™ Ultra 9 288V | Reference Platform, 25W sustained
- Intel® Core™ Ultra 7 255H | Reference Platform, 25W sustained
- AMD AI 365 | Customer Chassis, 22W sustained



Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.



# ***Power Efficient Platform***

Built for lasting battery life

## **Intelligent Display Technology**

Realtime AI upscaling to deliver low-power vivid visuals

## **Low power, high quality video conferencing**

Dynamic HDR and lowlight correction done on low power IPU

## **Long lasting and latest connectivity**

Low-power Intel® Wi-Fi 7 (R2) and Bluetooth 6.0

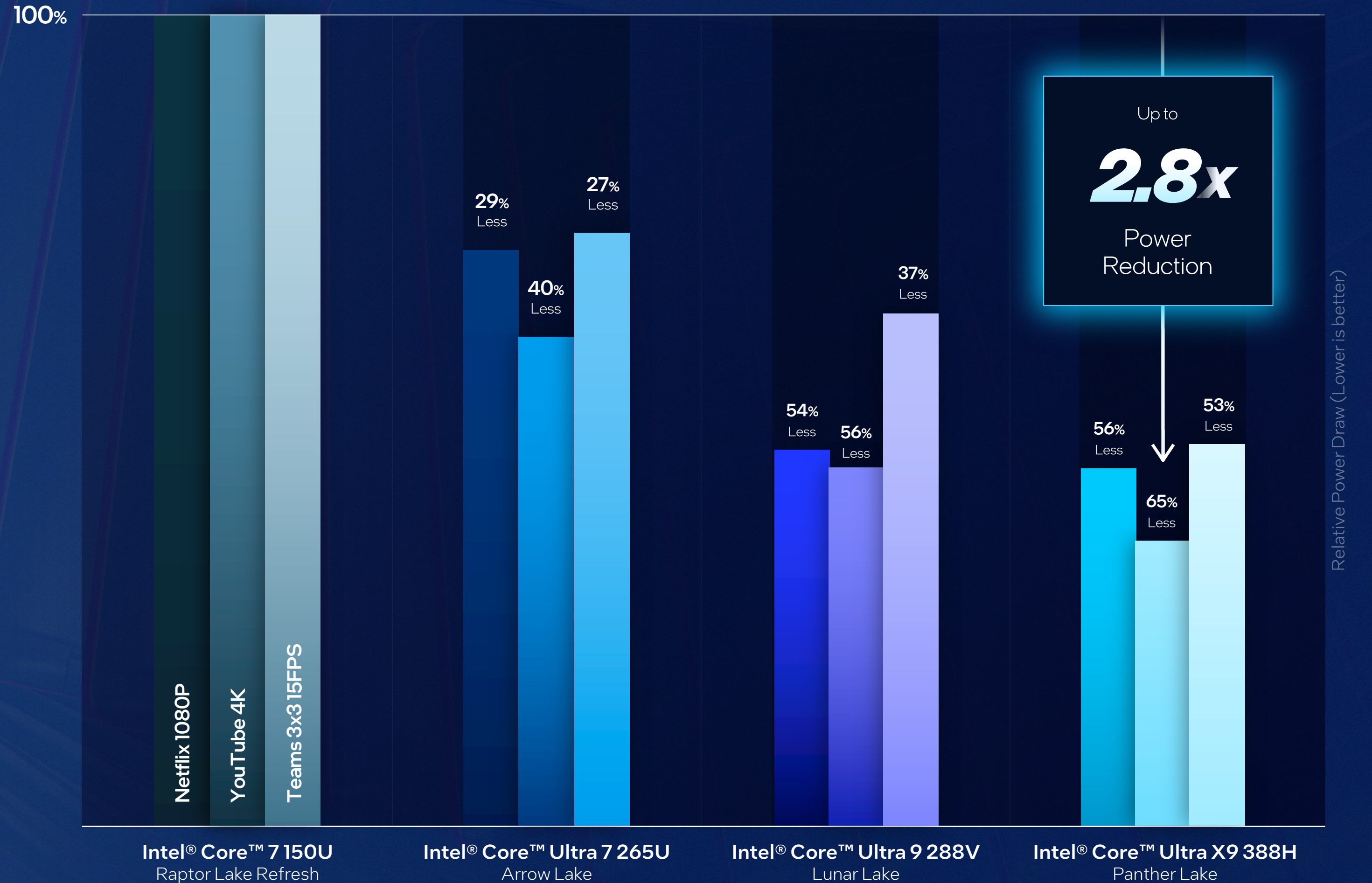
## **Context-aware charging**

For the longest possible battery life, both long and short term



# Most Efficient x86 Processor

Significant SOC power reduction achieved within 3 years time



Among x86-based thin & light laptops as of Dec. 2025, refers to Intel Core Ultra Series 3 processors, based on the unique architecture and impressive performance even at lower power compared to prior generation and competition processors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details. Results may vary.



# Continuing to Slash x86 Power

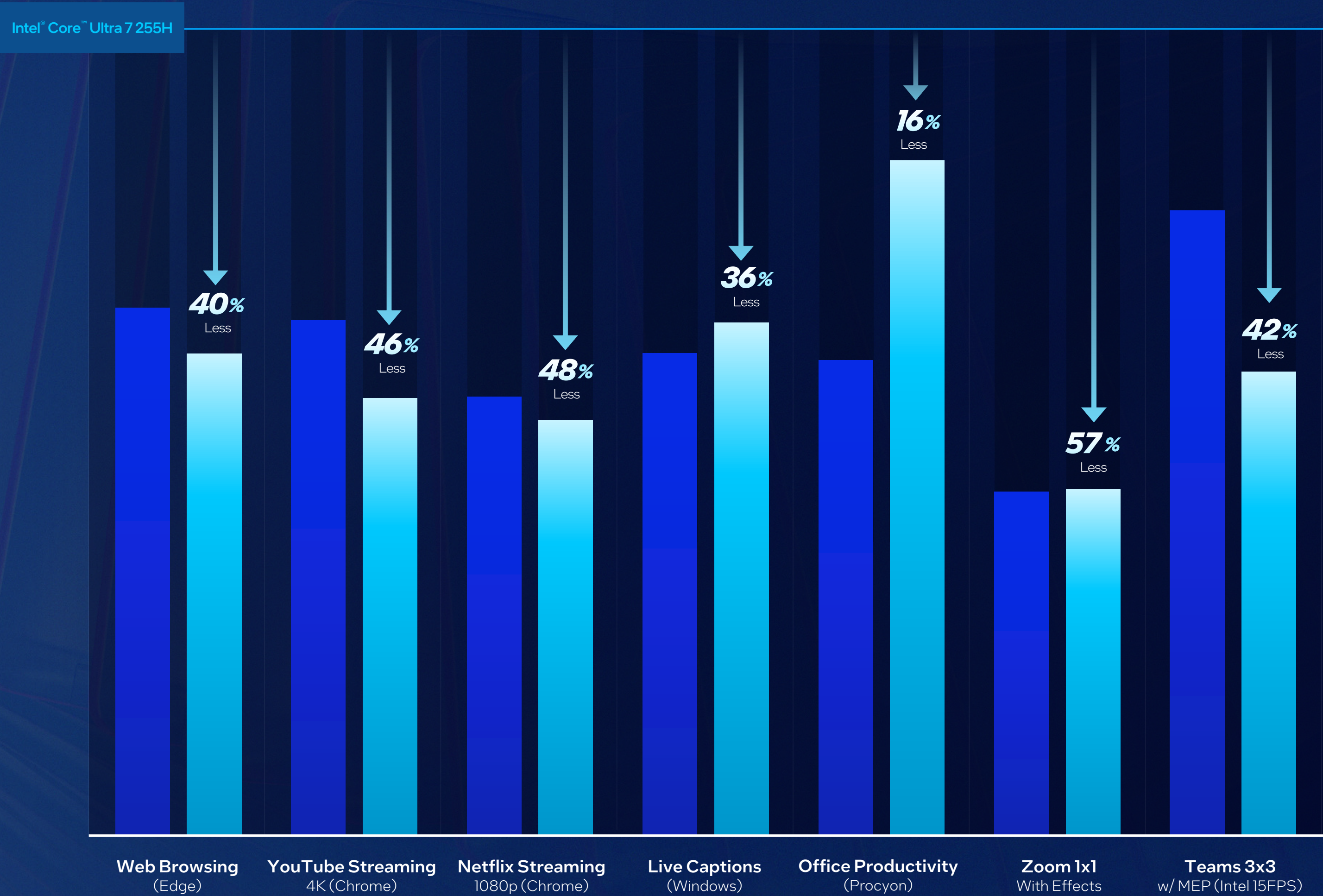
Up to

57%

Lower SOC Power

vs. Intel® Core™ Ultra 200H series

- Intel® Core™ Ultra X9 388H
- Intel® Core™ Ultra 9 288V
- Intel® Core™ Ultra 7 255H

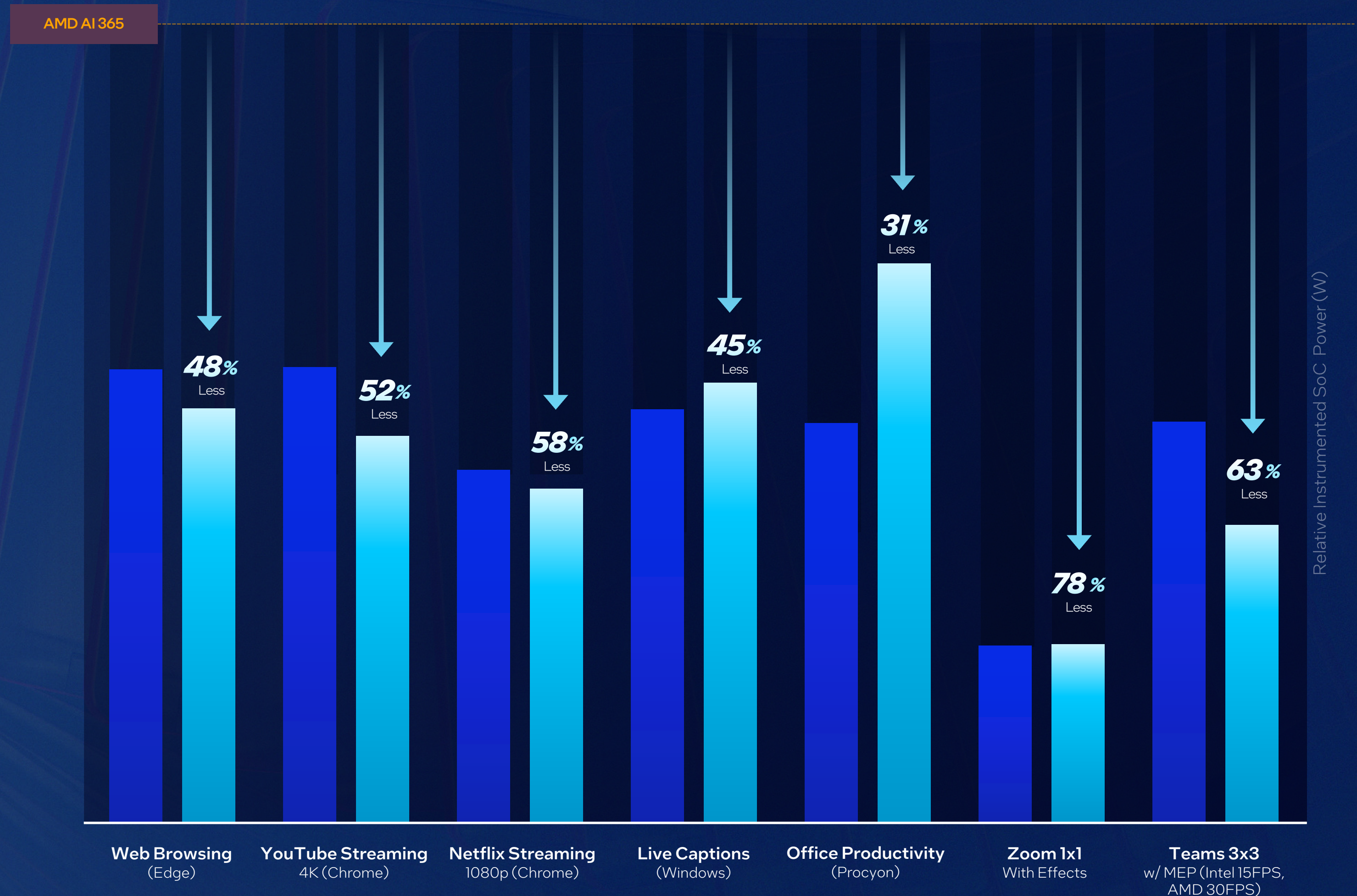


Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.



# Leading x86 Power Efficiency

Up to  
**78%**  
Lower SOC Power  
vs. AMD AI 365



Among x86-based thin & light laptops as of Dec. 2025, refers to Intel Core Ultra Series 3 processors, based on the unique architecture and impressive performance even at lower power compared to prior generation and competition processors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details. Results may vary.





# *The x86 Battery Life King*

With Intel® Core™ Ultra X9 388H  
Lenovo IdeaPad Reference Design - 99Whr, 2.8k OLED

**27**  
hours

Netflix Streaming

**17**  
hours

UL Procyon® Battery Life:  
Office Productivity

**9**  
hours

Microsoft Teams 3x3  
w/ Windows Studio Effects

Visualization for illustrative purposes only.  
Among x86-based thin & light laptops as of Dec. 2025, refers to Intel Core Ultra Series 3 processors, based on the unique architecture and impressive performance even at lower power compared to prior generation and competition processors to enable superior battery life. Individual system results will vary significantly with different use, battery capacity and other factors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details.



# Enables Best Battery Life in x86

Same OEM, similar 14" chassis

Intel® Core™  
Ultra X7 358H  
68Whr, 2.8k OLED

x86

16.5 hours

Netflix Streaming

7.5 hours

Microsoft Teams 3x3  
w/ Windows Studio Effects

AMD  
HX Pro 375  
74Whr, 2.8k OLED

x86

12.6 hours

Netflix Streaming

7.3 hours

Microsoft Teams 3x3  
w/ Windows Studio Effects

QCOM  
78-100  
59Whr, 2.2k IPS

17.7 hours

Netflix Streaming

6.9 hours

Microsoft Teams 3x3  
w/ Windows Studio Effects

Among x86-based thin & light laptops as of Dec. 2025, refers to Intel Core Ultra Series 3 processors, based on the unique architecture and impressive performance even at lower power compared to prior generation and competition processors to enable superior battery life. Individual system results will vary significantly with different use, battery capacity and other factors. See [intel.com/performanceindex](https://intel.com/performanceindex) for details.



# Gaming

Loading AI NPC  
dialogue



Generating  
Personalised It

Starting Server

Stop



# Multi-year Arc of Innovation



2021

Arc A-Series  
(Mobile)



2022

Arc A-Series  
(Desktop)



2022

Arc Pro A-Series  
(Mobile)



2022

Arc Pro A-Series  
(Desktop)



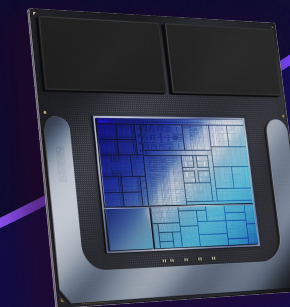
2023

Intel® Core™  
Ultra Series 1  
w/ Arc Graphics  
Built-in



2023

Intel® Core™  
Ultra Series 2  
w/ Arc Graphics  
Built-in



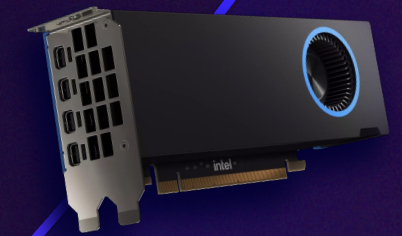
2024

Arc B-Series  
(Desktop)



2025

Arc Pro B-Series  
(Desktop)



2025



# State of the Arc



Ray  
Tracing  
Built in



AI  
Acceleration  
with XMV



AI-Enhanced  
Rendering  
with XeSS



Software  
Ecosystem  
Day 0 Drivers



# *A New Class of Integrated Graphics*

Series 3  
**intel**  
CORE  
ULTRA X7

Series 3  
**intel**  
CORE  
ULTRA X9

with Intel® Arc™ B390





# Our Biggest Integrated GPU

Intel® Arc™ B390

12

Xe-cores

Xe<sup>e</sup>core



DirectX

XII

ULTIMATE

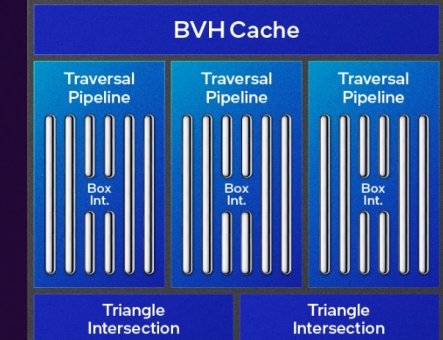
120

TOPS

16MB

L2 Cache

Ray Tracing Unit

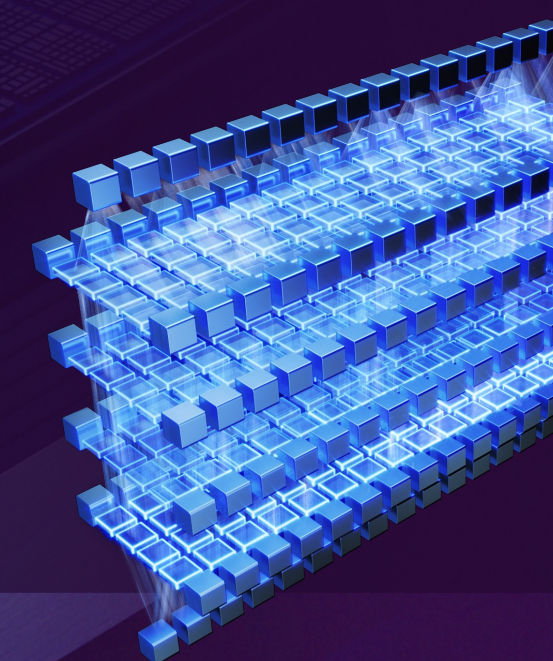


96

XMV Engines

12

Enhanced  
Ray Tracing  
Units





# ***Generational Performance Leap***

**77%**

**Faster Graphics**

vs. Intel® Core™ Ultra 9 288V

**53%**

**Faster AI**

vs. Intel® Core™ Ultra 9 288V





77%

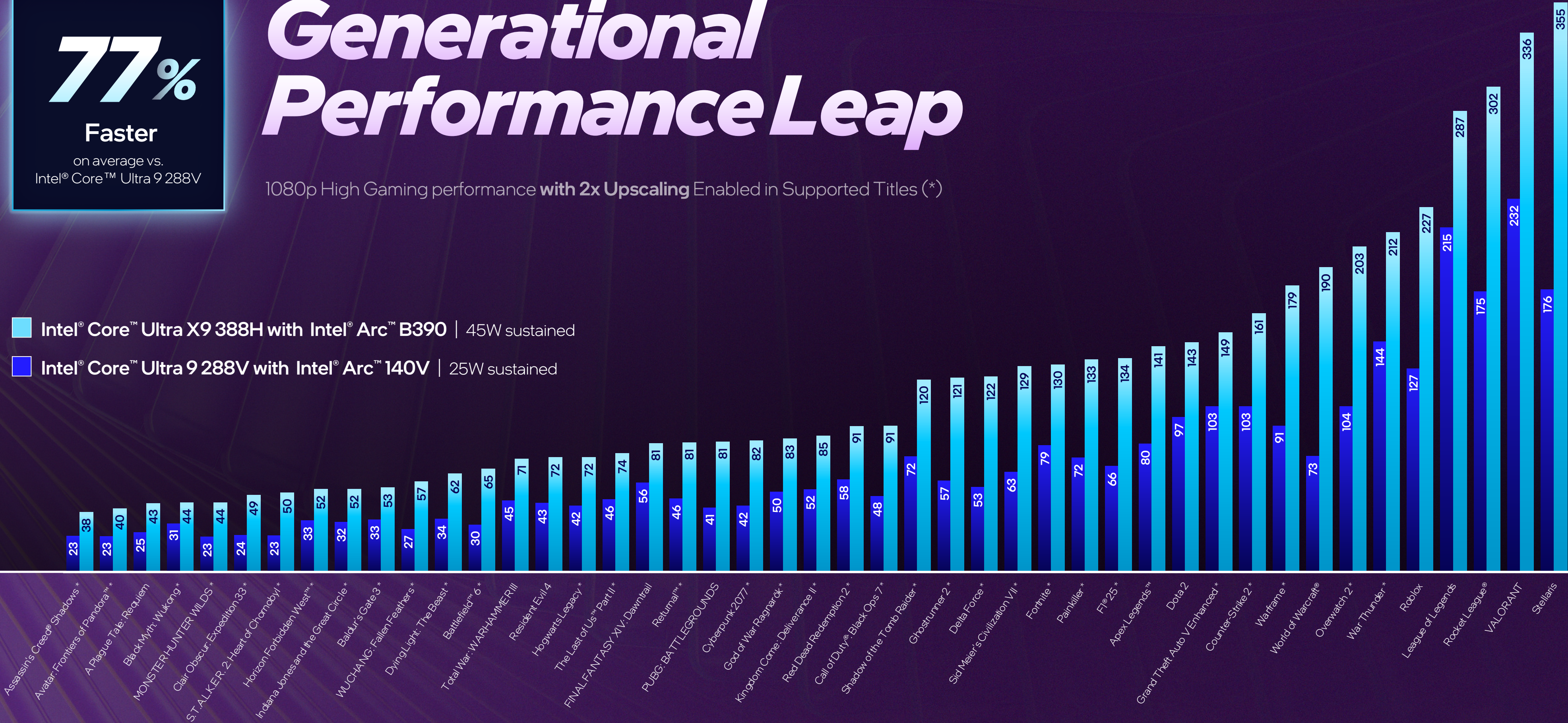
Faster

on average vs.  
Intel® Core™ Ultra 9 288V

# Generational Performance Leap

1080p High Gaming performance **with 2x Upscaling** Enabled in Supported Titles (\*)

- Intel® Core™ Ultra X9 388H with Intel® Arc™ B390 | 45W sustained
- Intel® Core™ Ultra 9 288V with Intel® Arc™ 140V | 25W sustained



Average Game FPS (Higher is Better)

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

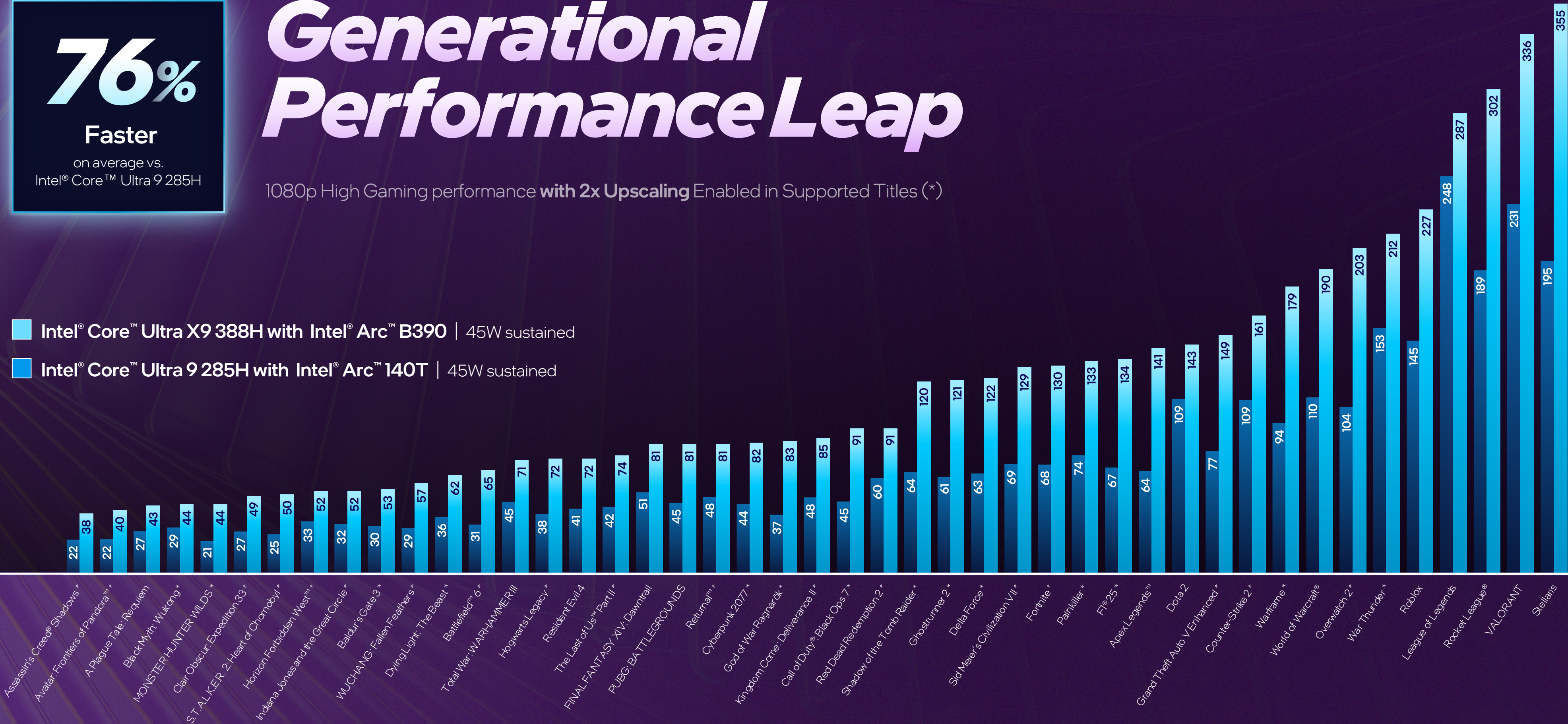


**76%**  
Faster  
on average vs.  
Intel® Core™ Ultra 9 285H

# Generational Performance Leap

1080p High Gaming performance **with 2x Upscaling** Enabled in Supported Titles (\*)

- Intel® Core™ Ultra X9 388H with Intel® Arc™ B390 | 45W sustained
- Intel® Core™ Ultra 9 285H with Intel® Arc™ 140T | 45W sustained



Average Game FPS (Higher is Better)

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



73%

Faster

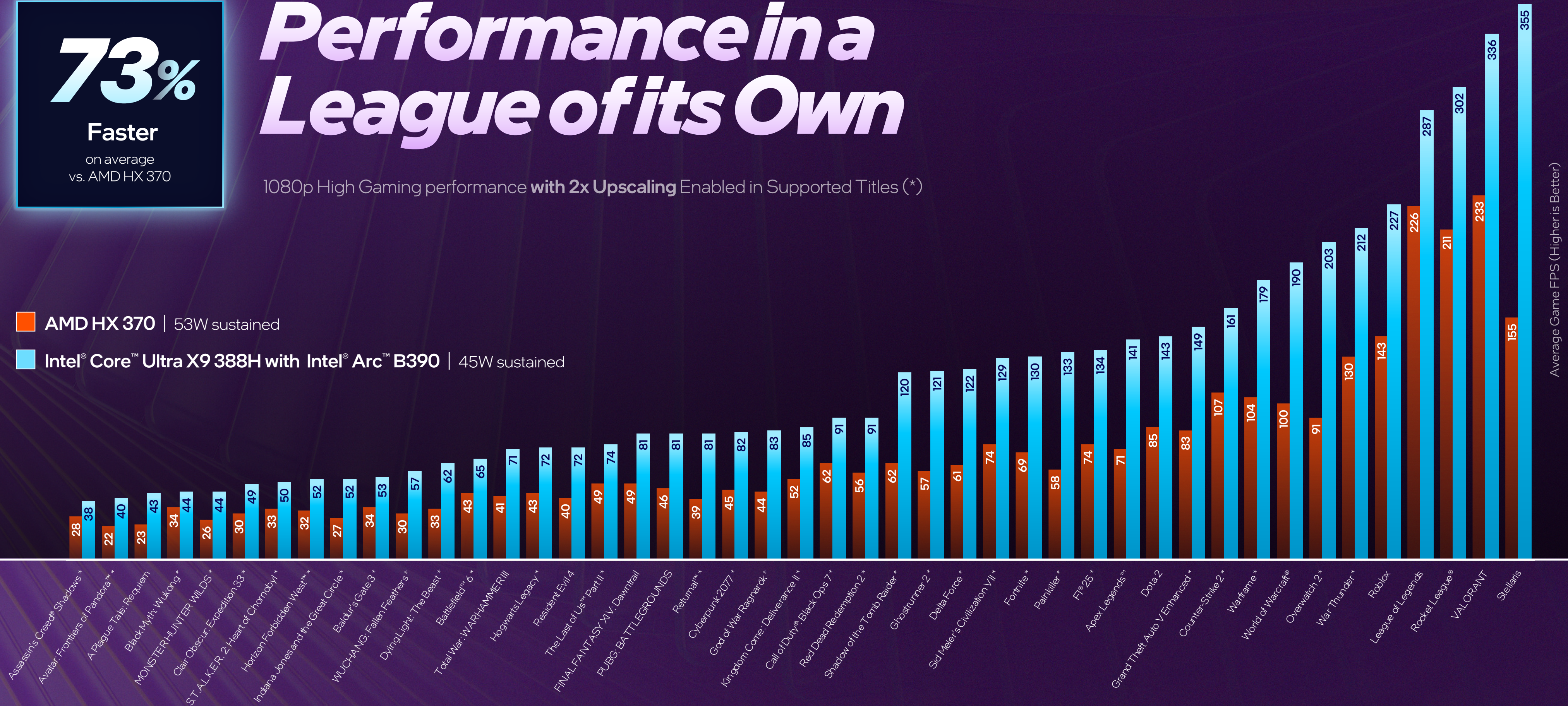
on average  
vs. AMD HX 370

# Performance in a League of its Own

1080p High Gaming performance **with 2x Upscaling** Enabled in Supported Titles (\*)

AMD HX 370 | 53W sustained

Intel® Core™ Ultra X9 388H with Intel® Arc™ B390 | 45W sustained



Average Game FPS (Higher is Better)

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



82%

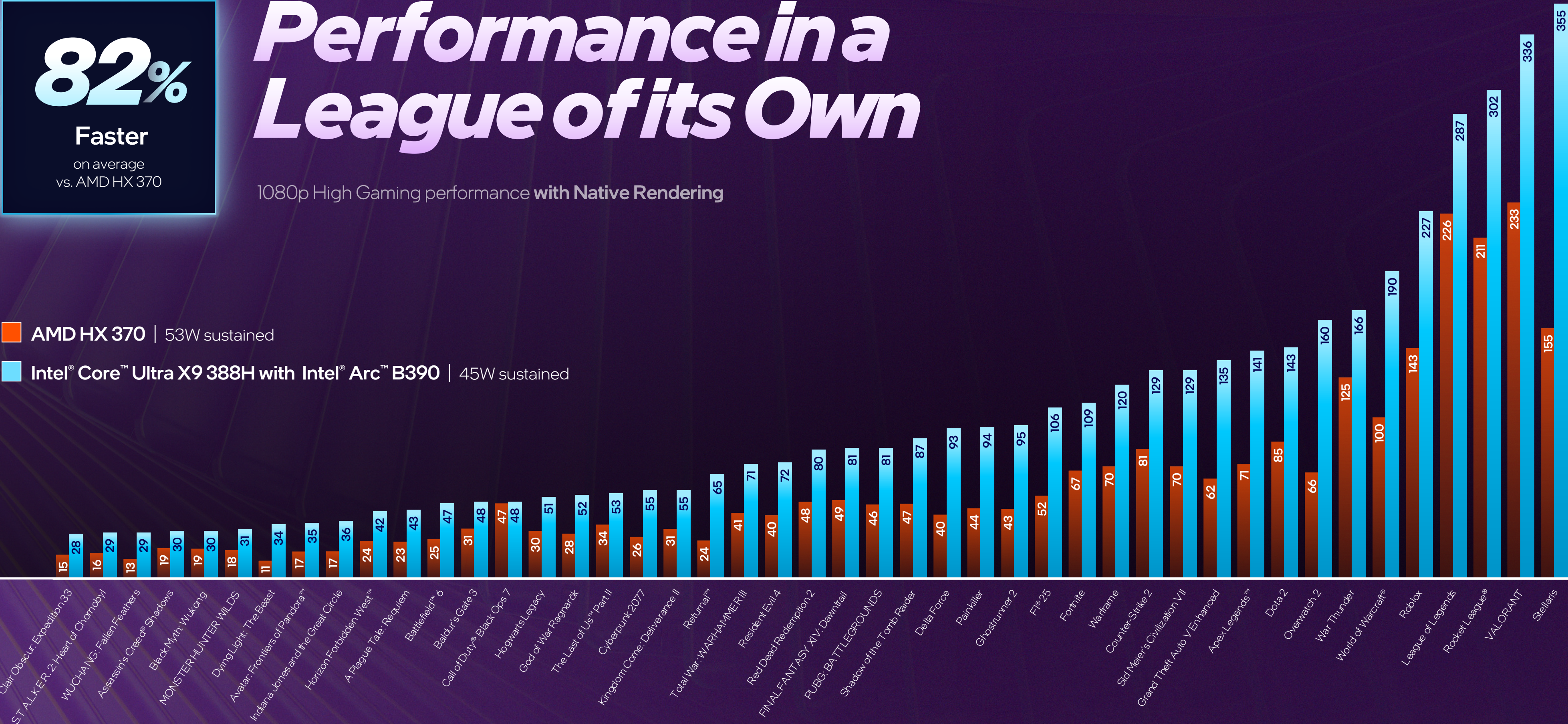
Faster

on average  
vs. AMD HX 370

# Performance in a League of its Own

1080p High Gaming performance with Native Rendering

- AMD HX 370 | 53W sustained
- Intel® Core™ Ultra X9 388H with Intel® Arc™ B390 | 45W sustained



Average Game FPS (Higher is Better)



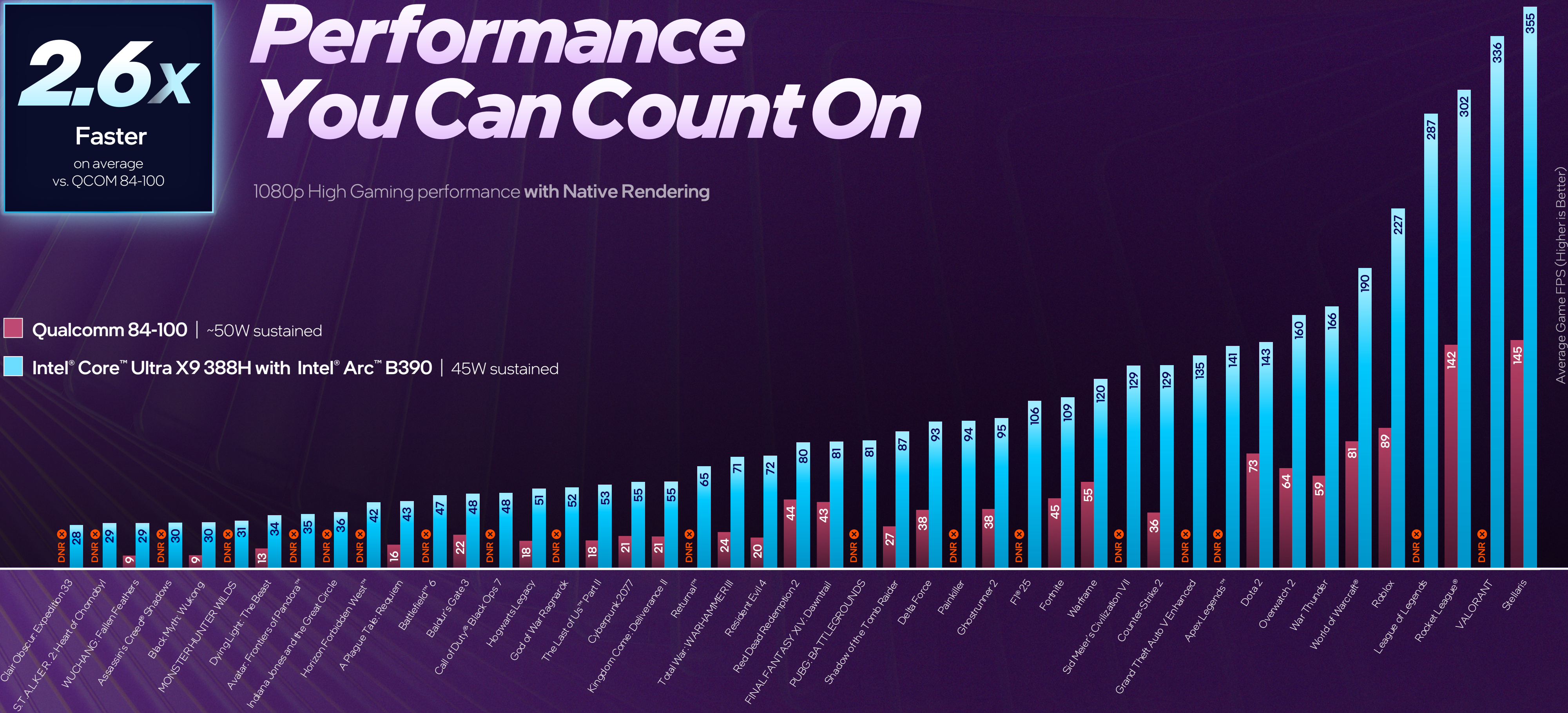
**2.6x**  
Faster  
on average  
vs. QCOM 84-100

# Performance You Can Count On

1080p High Gaming performance **with Native Rendering**

Qualcomm 84-100 | ~50W sustained

Intel® Core™ Ultra X9 388H with Intel® Arc™ B390 | 45W sustained



Average Game FPS (Higher is Better)

See intel.com/performanceindex for details. Results may vary.

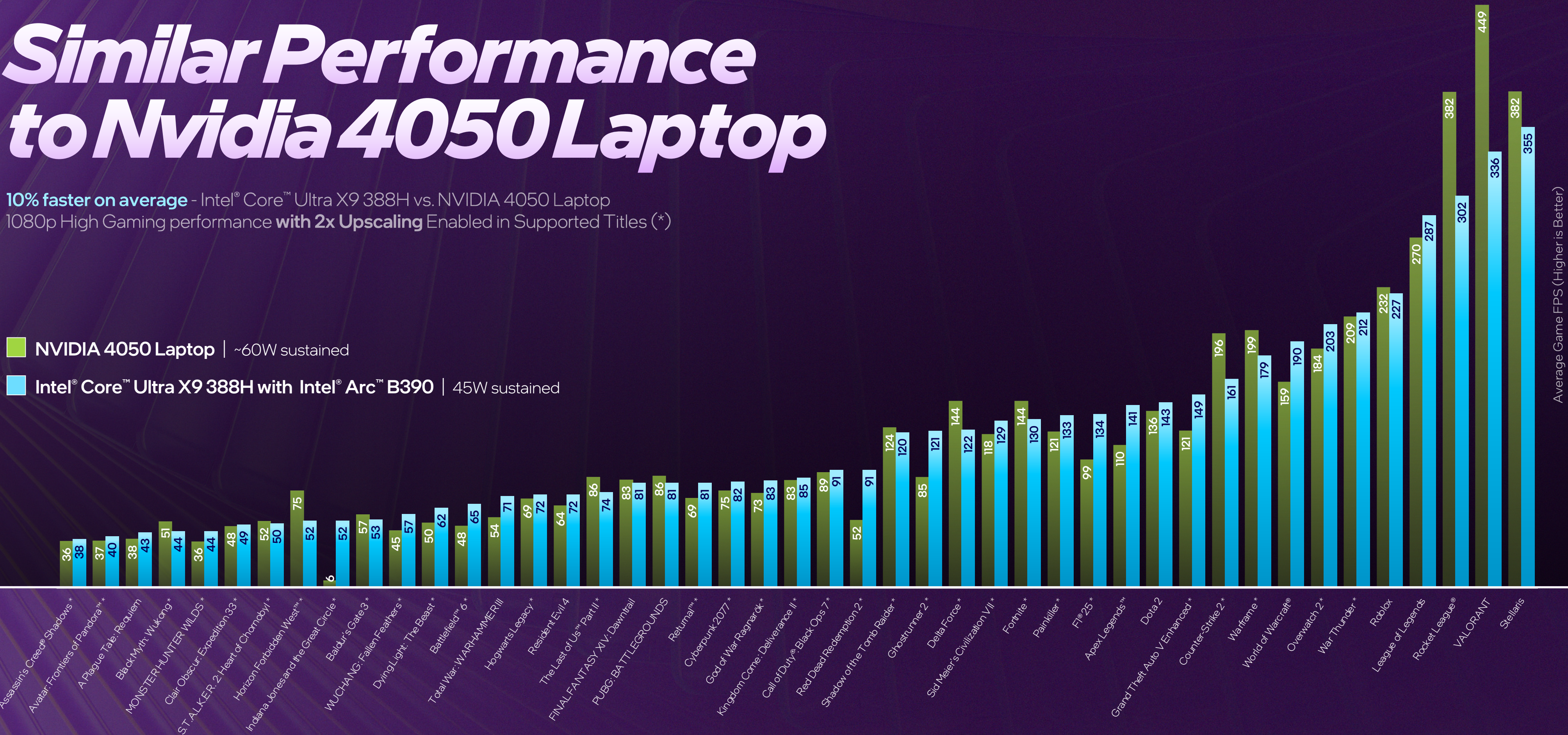


# Similar Performance to Nvidia 4050 Laptop

10% faster on average - Intel® Core™ Ultra X9 388H vs. NVIDIA 4050 Laptop  
1080p High Gaming performance with 2x Upscaling Enabled in Supported Titles (\*)

NVIDIA 4050 Laptop | ~60W sustained

Intel® Core™ Ultra X9 388H with Intel® Arc™ B390 | 45W sustained



See intel.com/performanceindex for details. Results may vary.



# *Modern Rendering*

with XeSS3

## **Better Lighting**

Ray Tracing  
Global Illumination

## **Sharper Visuals**

High Quality Textures  
Larger Geometries

## **Ultimate Smoothness**

AI-Based Upscaling  
AI-Based Multi Frame Gen

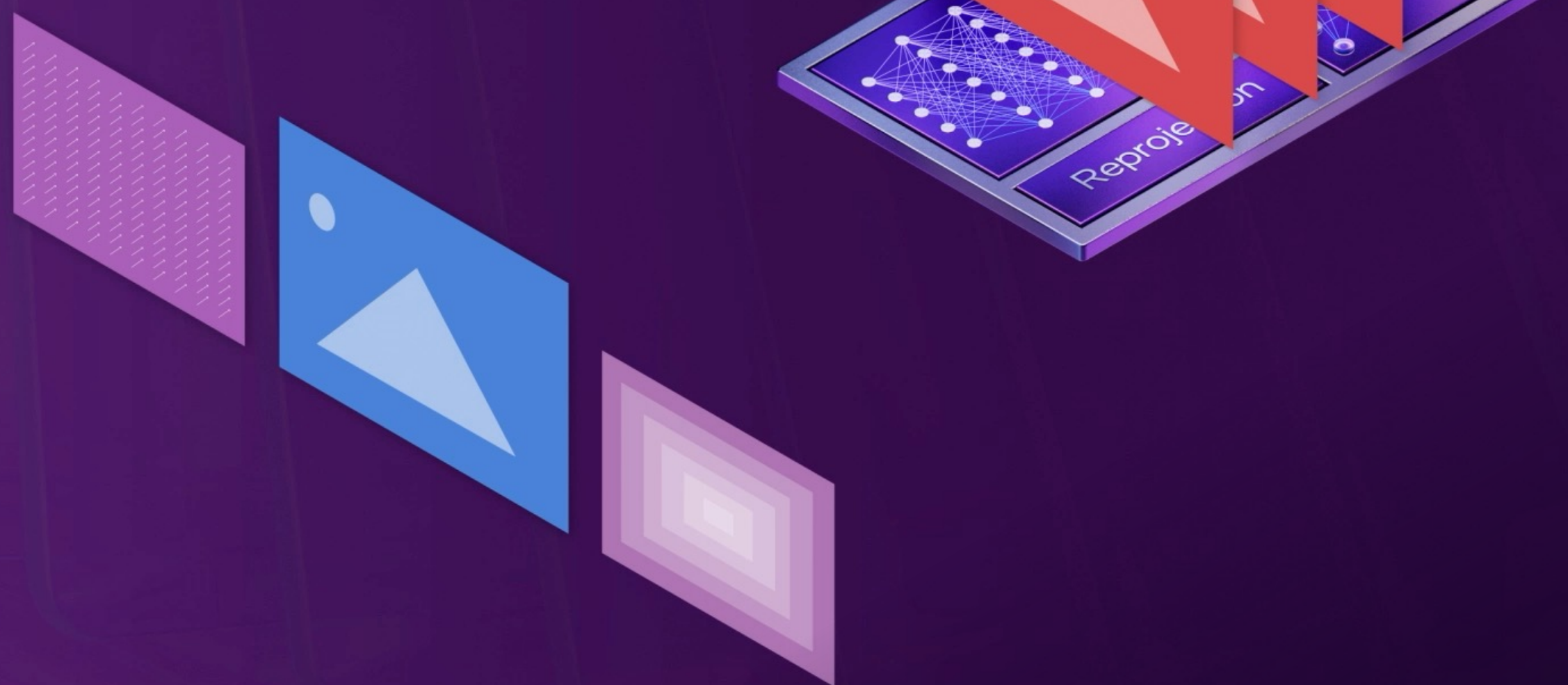




# *MultiFrame Generation*

with **XeSS3**

3 Generated Frames —



Up to

**4x**

the frames

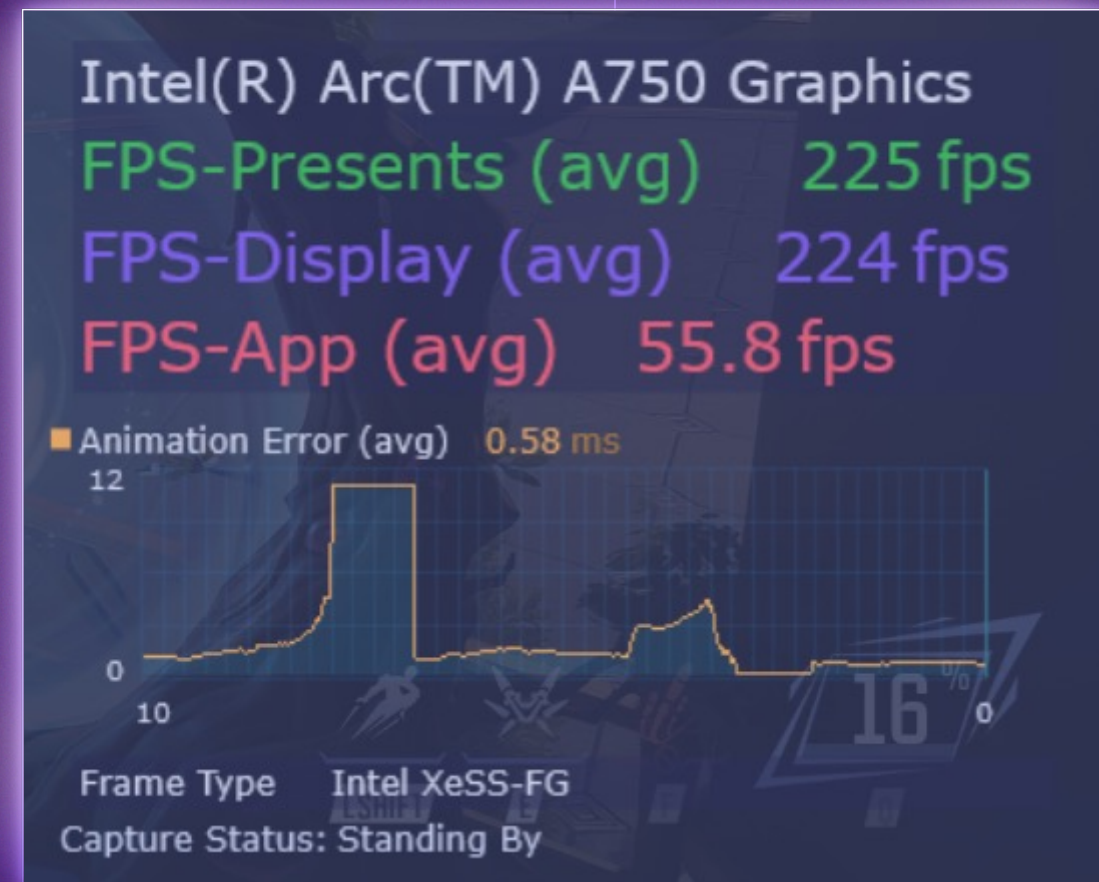


# Smoothness Metrics

Frame type differentiation

Animation error

Percentiles for all metrics





# Leadership Modern Gaming

Cyberpunk 2077



Relative performance | Ultra Settings | RT On | FPS (higher is better)

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



# Leadership Modern Gaming

Battlefield 6



Relative performance | Overkill Settings | FPS (higher is better)

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



# Leadership Modern Gaming

Cyberpunk 2077



Relative performance | Ultra Settings | RT On | FPS (higher is better)

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



# Leadership Modern Gaming

Battlefield 6



Up to  
**2x**  
Smoother

Relative performance | Overkill Settings | FPS (higher is better)

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

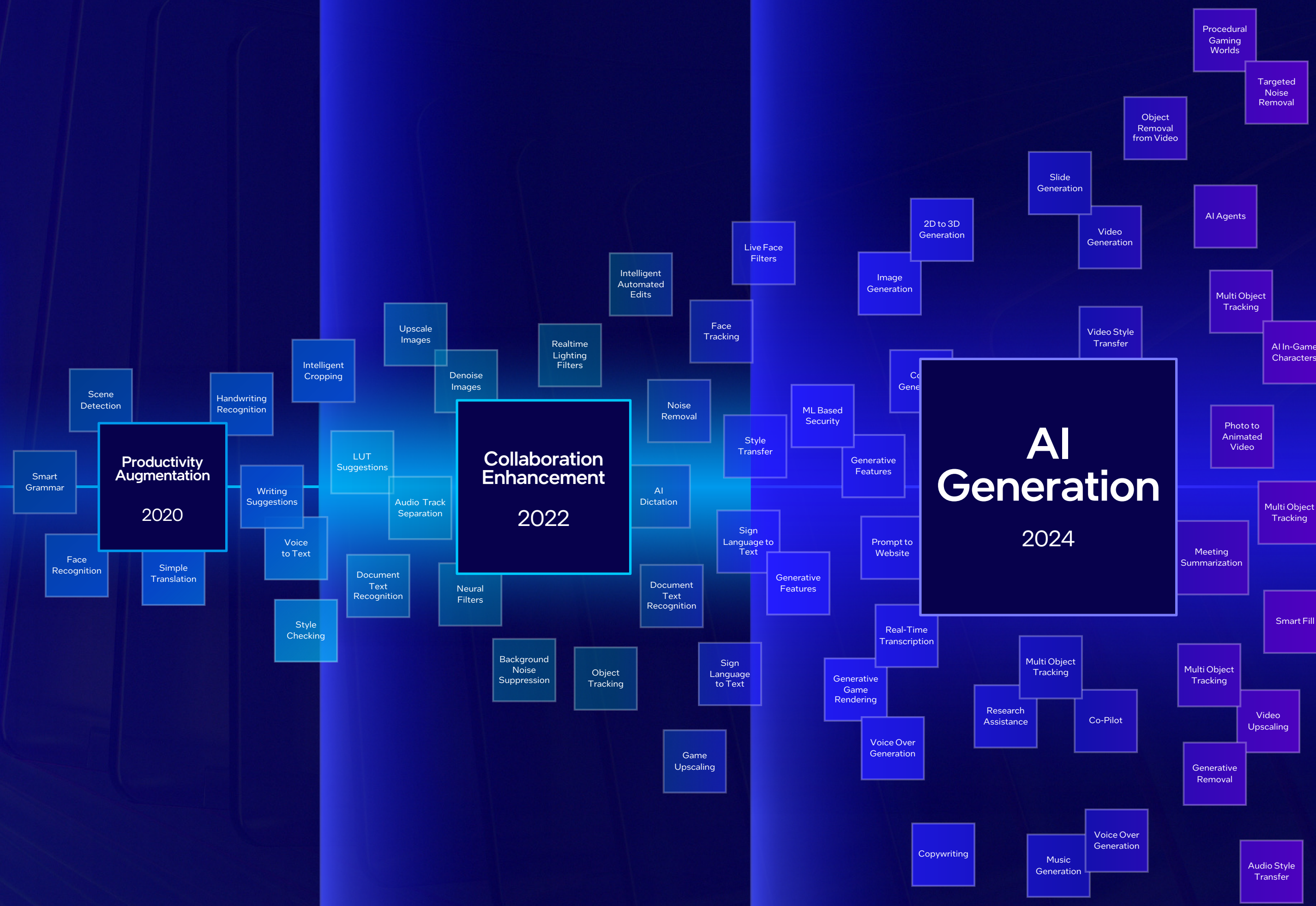


# *Leading AI Experiences & Performance*





# Rapid Evolution of Local AI





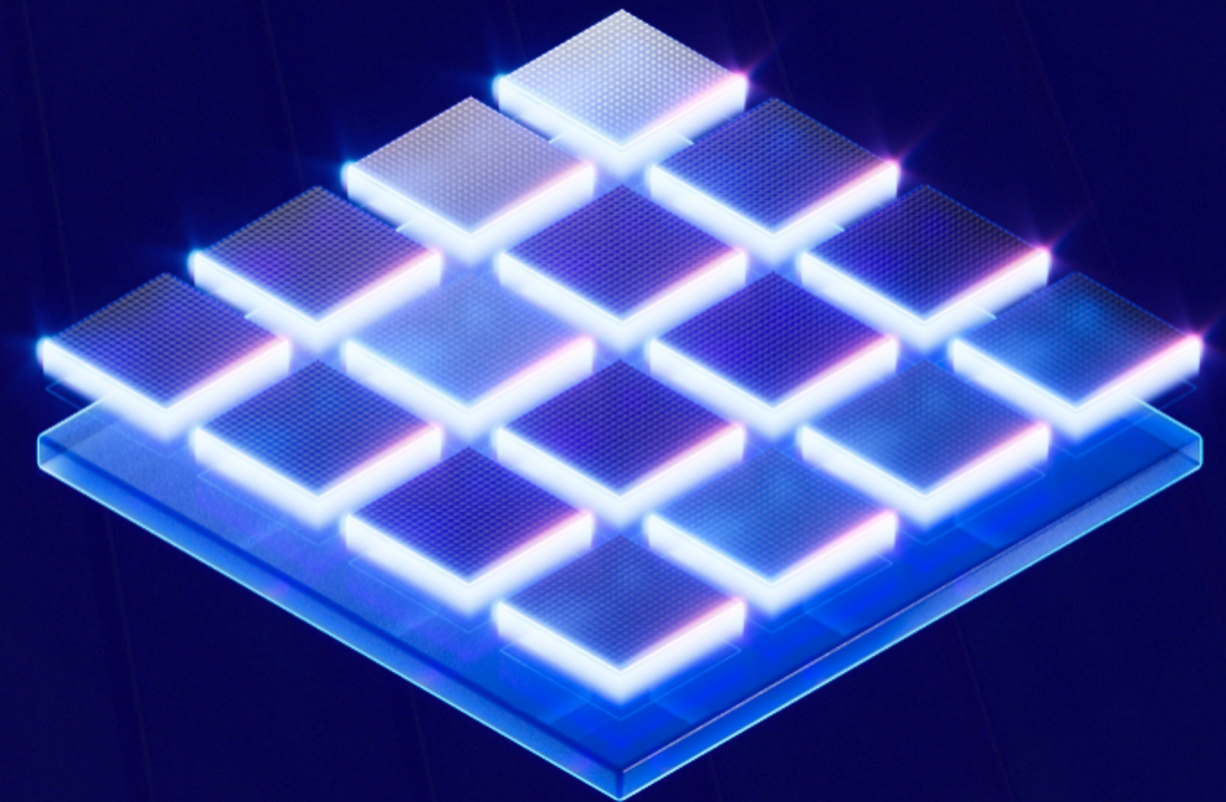
# ***Intelligence Applications***

**350+**

ISVs

**500+**

AI Features

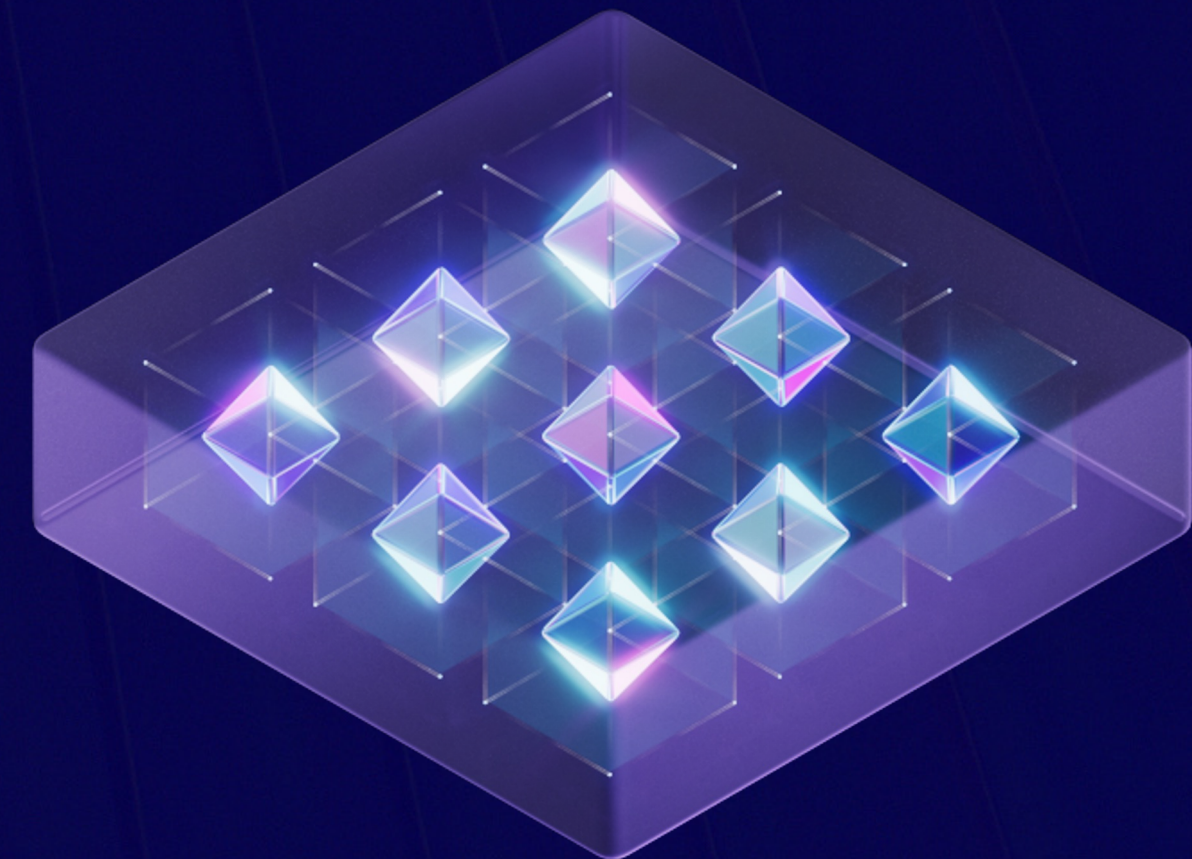




# ***AI Model Support***

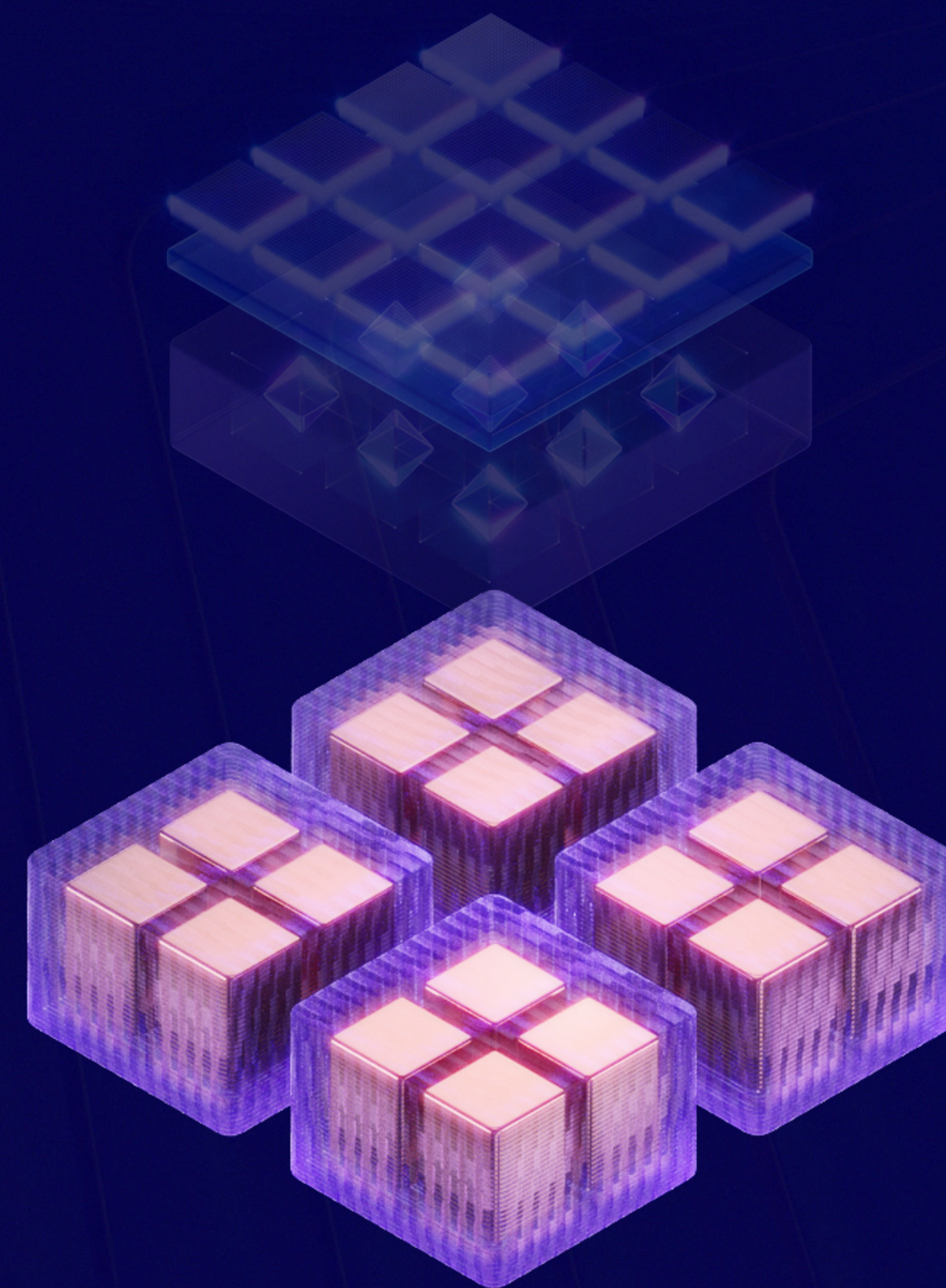
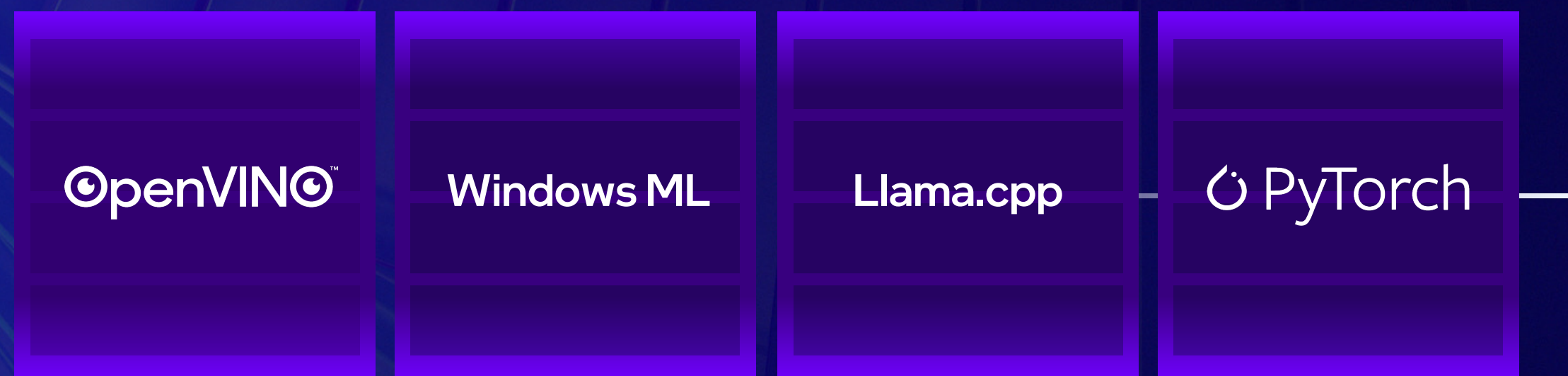
**900+**

Models  
Supported





# *Scalable Deployment*

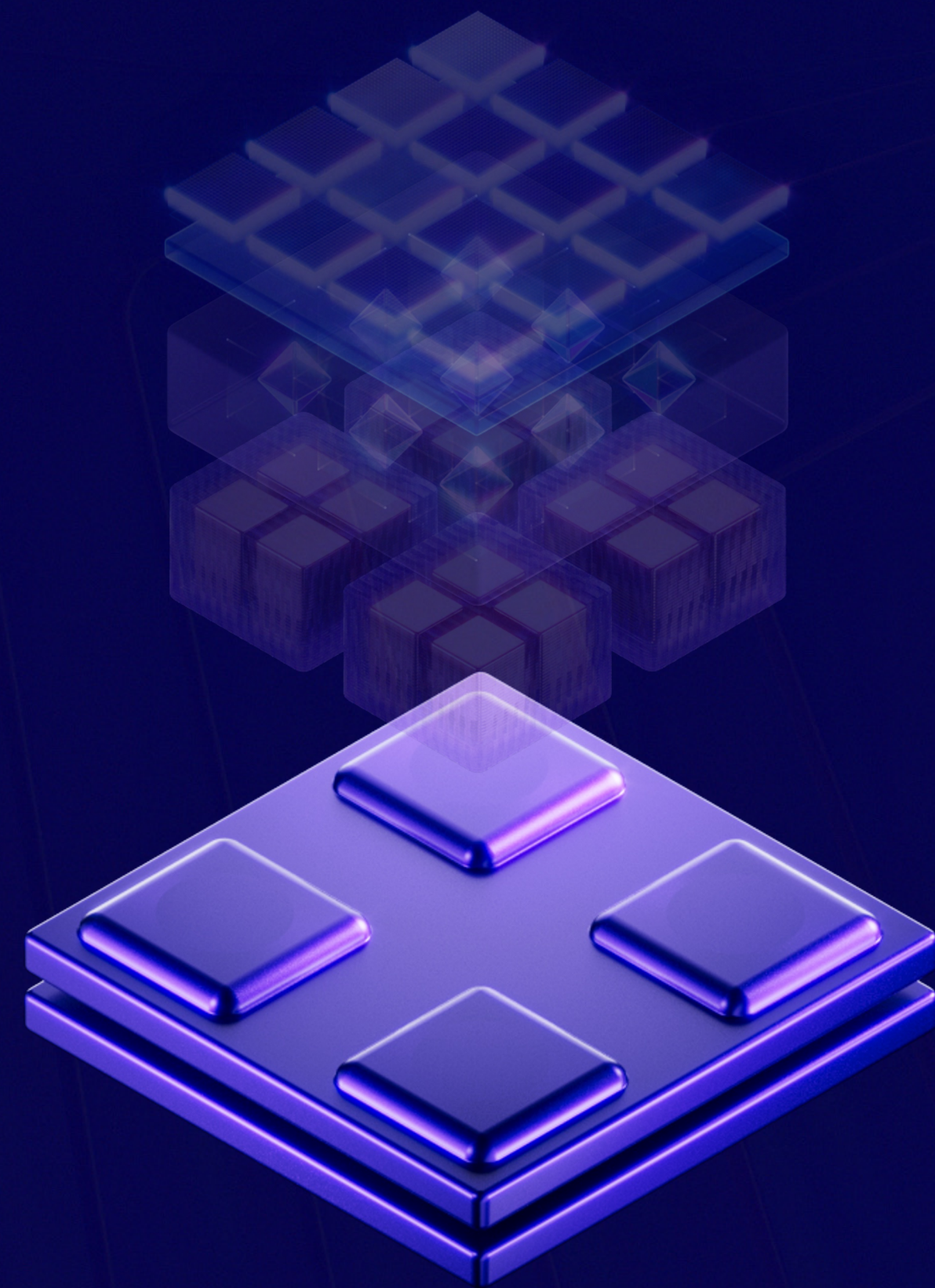




# *Deep OS Co-Engineering*



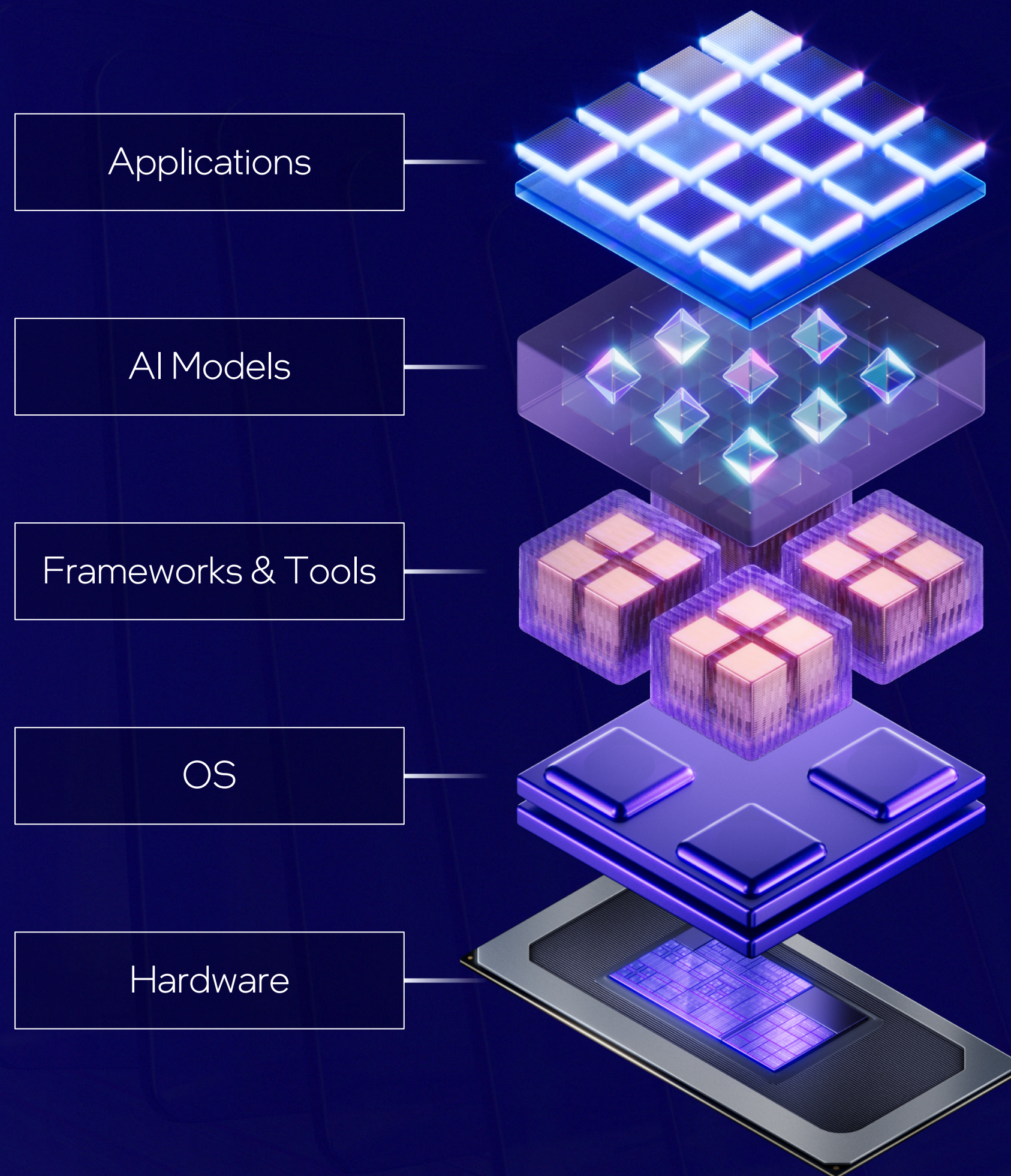
Copilot+PC





# *Intelligent Stack*

Engineered to scale new experiences







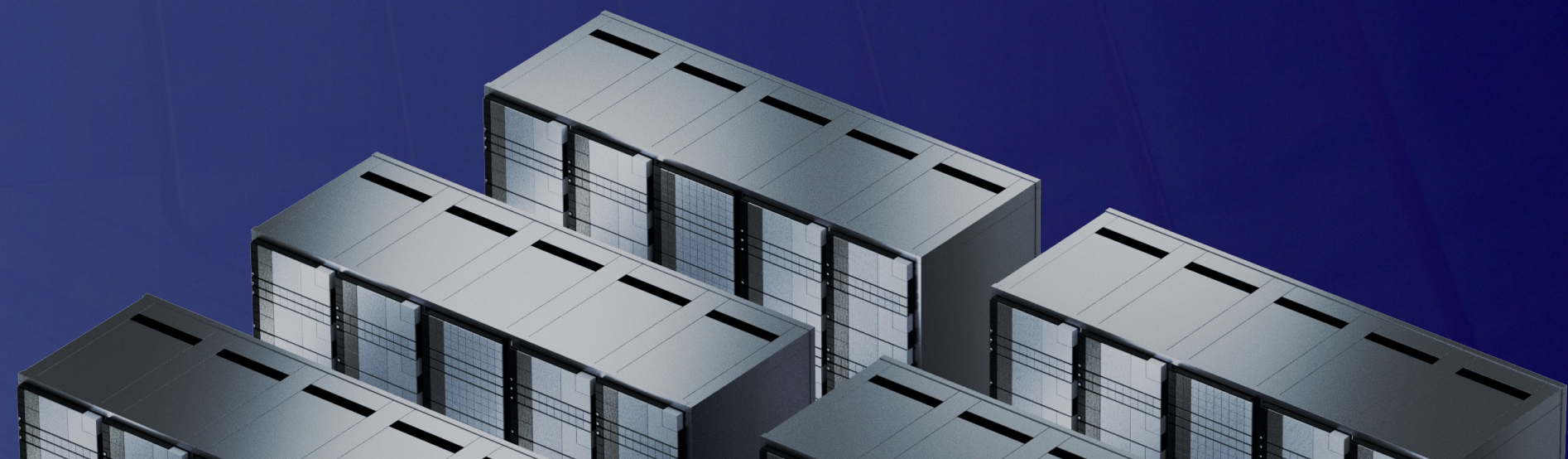
~4

Zetta Ops  
of Intel AI PCs

=

40

Data  
Centers







PC  
Intelligence  
Stack

Hybrid  
***AI Era***

AI  
Data Center  
Stack



# Hybrid *Agentic AI*

Local

Small Agent Network

Robust SW

PC AI Engines

Private Data



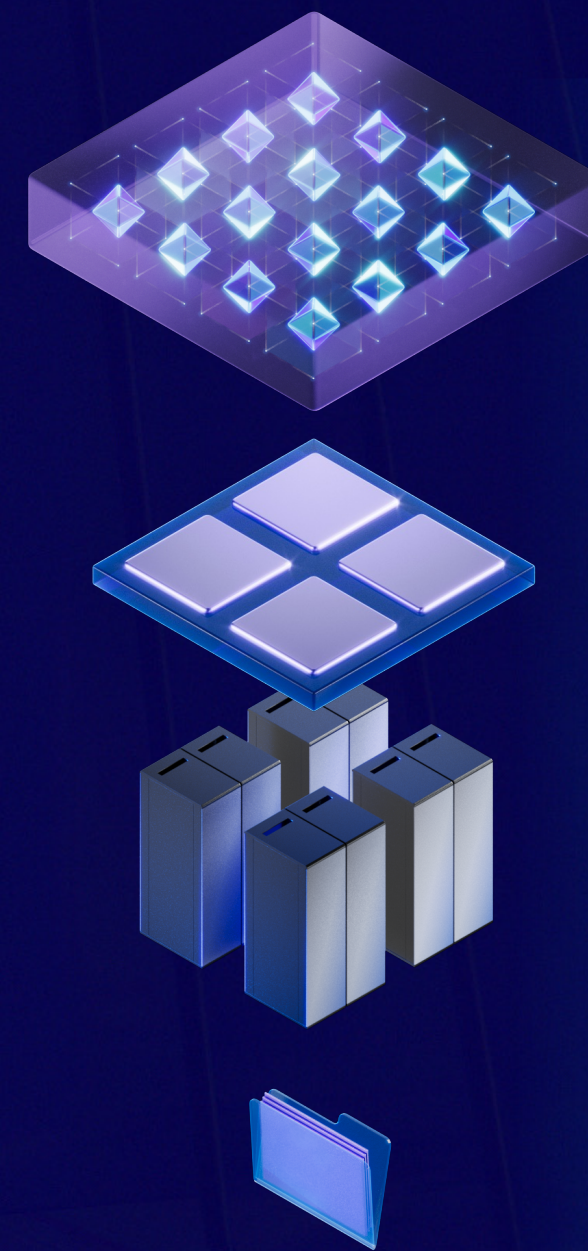
Cloud

Agent Network

Client Aligned SW

DC AI HW

Non-confidential Data





Local

Small Agent Network

Robust SW

PC AI Engines

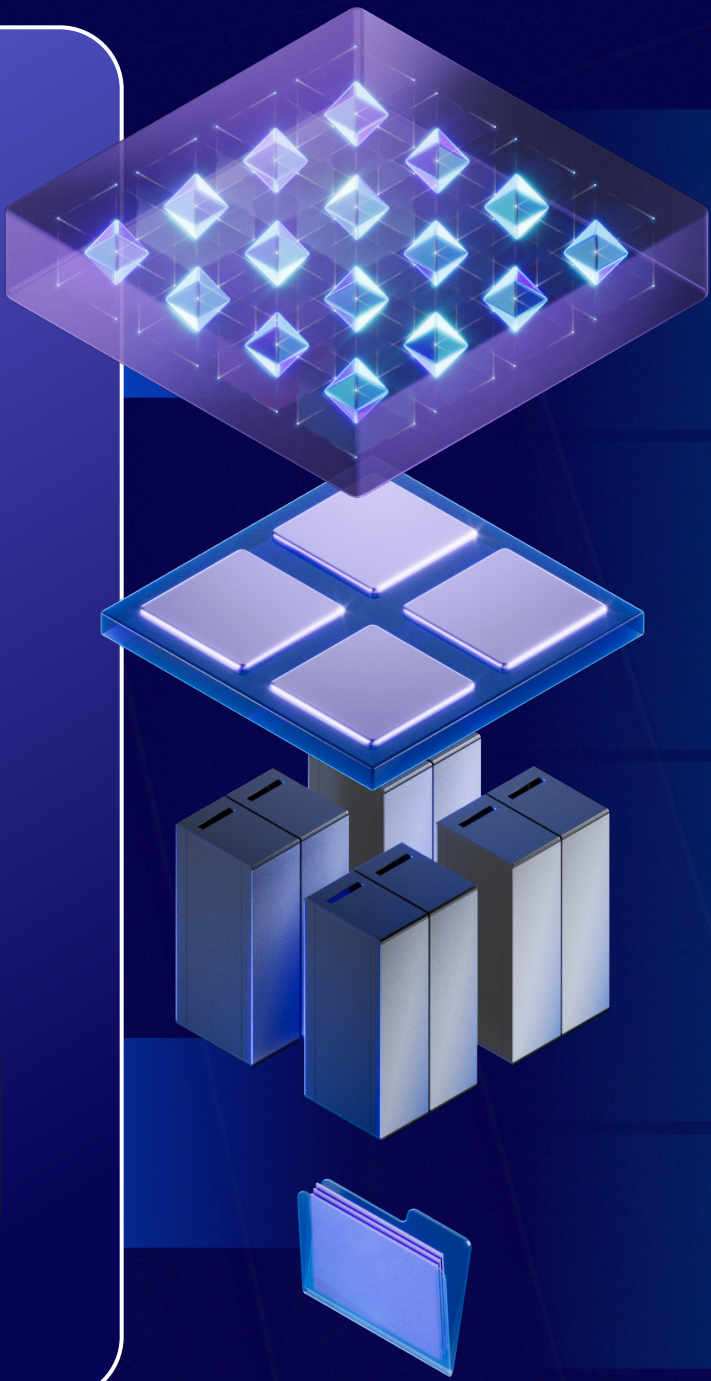
Private Data



Hybrid Agentic Planner

# AI Super Builder

Privacy Preserved Communication



Cloud LLM

Client Aligned SW

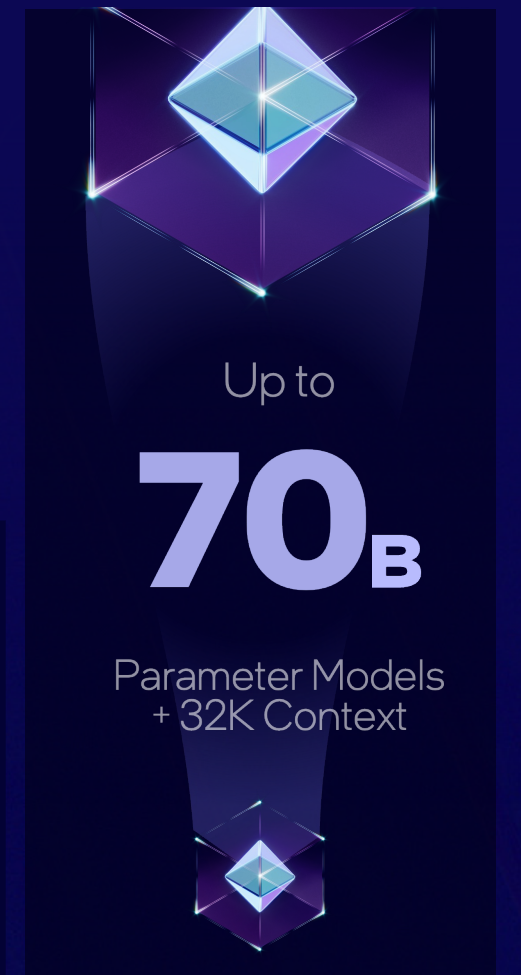
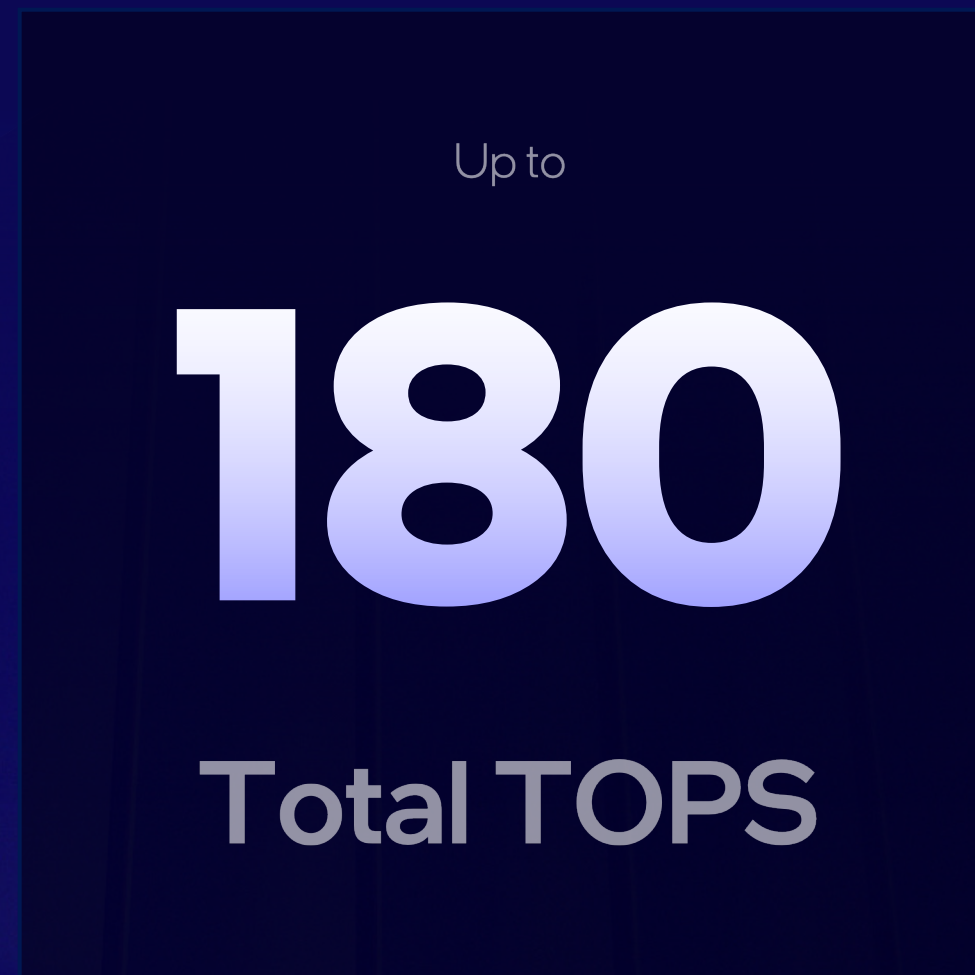
Data Center

Non-Confidential Data

Cloud



# AI Powerhouse



Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.



Intel® Core™ Ultra Series 3

# ***The Only PC Processor with 2 Fully Featured AI Engines***

Dense Matrix Compute

High Bandwidth Memory

**GPU**



Xe Matrix Extensions



Full System Memory Access

**NPU**



Dense MAC Arrays



Full System Memory Access

See [intel.com/performanceindex](https://intel.com/performanceindex) for details.



# Leadership Performance Across ALL AI Engines

Geekbench AI 1.6 Scores

<div>Series 3</div> <div>intel CORE ULTRA X9</div>		Intel® Core™ Ultra X9 388H	
		vs. AMD HX 370	vs. Qualcomm 84-100
CPU	INT8	1.2x	1.5x
	FP16	2.3x	1.7x
	FP32	1.2x	2.7x
GPU	INT8	9.0x	DNR ❌
	FP16	3.1x	DNR ❌
	FP32	2.3x	DNR ❌
NPU	INT8	DNR ❌	1.3x
	FP16	DNR ❌	2.2x
	FP32	DNR ❌	2.6x

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



# Consistent & Fast LLM Performance



Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.



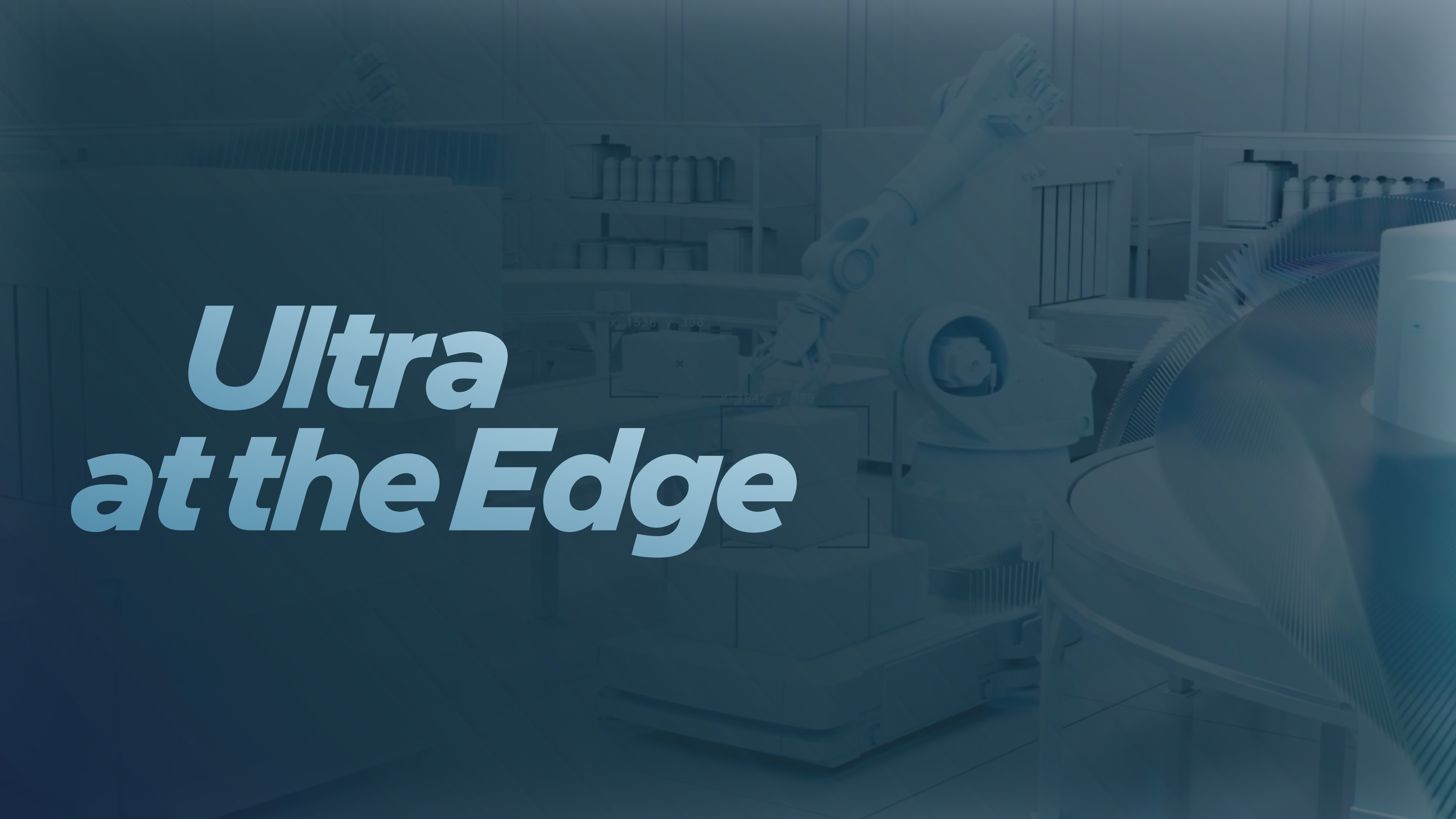
# AI creation runs best on Intel® Core™ Ultra Series 3

Intel® Core™ Ultra 9 388H vs. Intel® Core™ Ultra 9 285H

 <b>Adobe After Effects</b> Scene Edit Detection	up to <b>1.1x</b>	 <b>Pr</b> <b>Adobe Premiere Pro</b> Auto Reframe	up to <b>1.2x</b>	 <b>DaVinci Resolve Studio</b> Magic Mask 2	up to <b>1.3x</b>
 <b>Canvid</b> AI Background	up to <b>1.4x</b>	 <b>Ollama</b> GPT-OSS 20B	up to <b>2.5x</b>	 <b>LM Studio</b> Llama4 Dolphin 8B	up to <b>1.5x</b>
 <b>DistinctAI RenderFX</b> Image Render	up to <b>1.1x</b>	 <b>Blender</b> Cycles Render	up to <b>1.5x</b>	 <b>Microsoft Power BI</b> AI Data Splits	up to <b>1.1x</b>
 <b>DxO PhotoLab<sup>9</sup></b> Denoise Image	up to <b>1.2x</b>	 <b>Axell Ailia</b> DX Insights Benchmark Geomean	up to <b>1.5x</b>	 <b>Cyberlink Promeo</b> AI Marketing Advisor	up to <b>1.5x</b>
 <b>EdgeRunner AI</b> Answer Question	up to <b>2x</b>	 <b>Microsoft Excel</b> Data Refresh	up to <b>1.1x</b>	 <b>Topaz Photo</b> 4X Upscale	up to <b>1.3x</b>

Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.





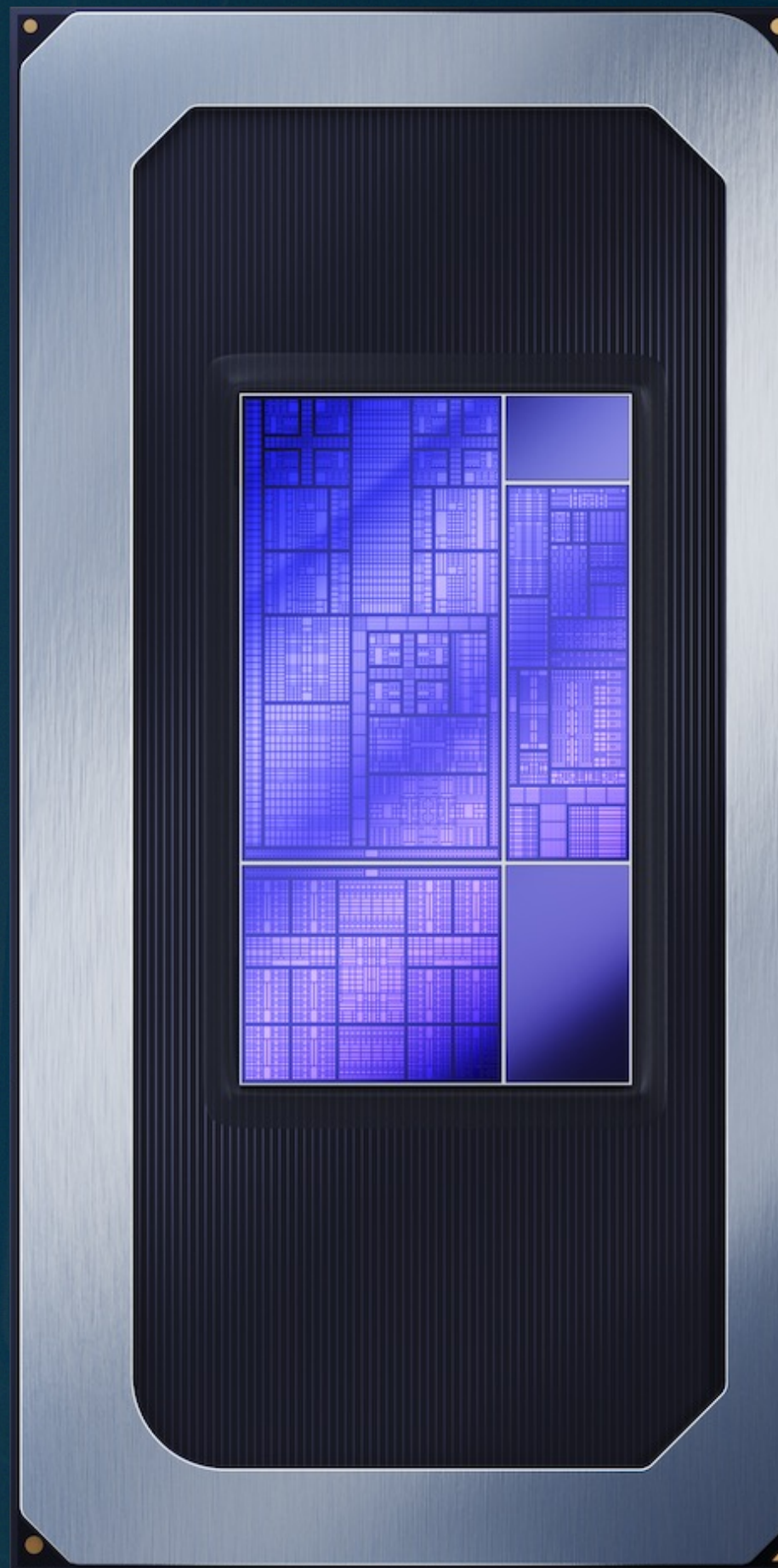
# ***Ultra at the Edge***



# Intel® Core™ Ultra Series 3

## for Edge

Proven Ideal for Mission-Critical  
Edge and Physical AI



Power-efficient  
AI and graphics



Deterministic  
performance



Industrial  
durability &  
flexibility



Built for  
developer agility





# ***Modern Edge Performance***

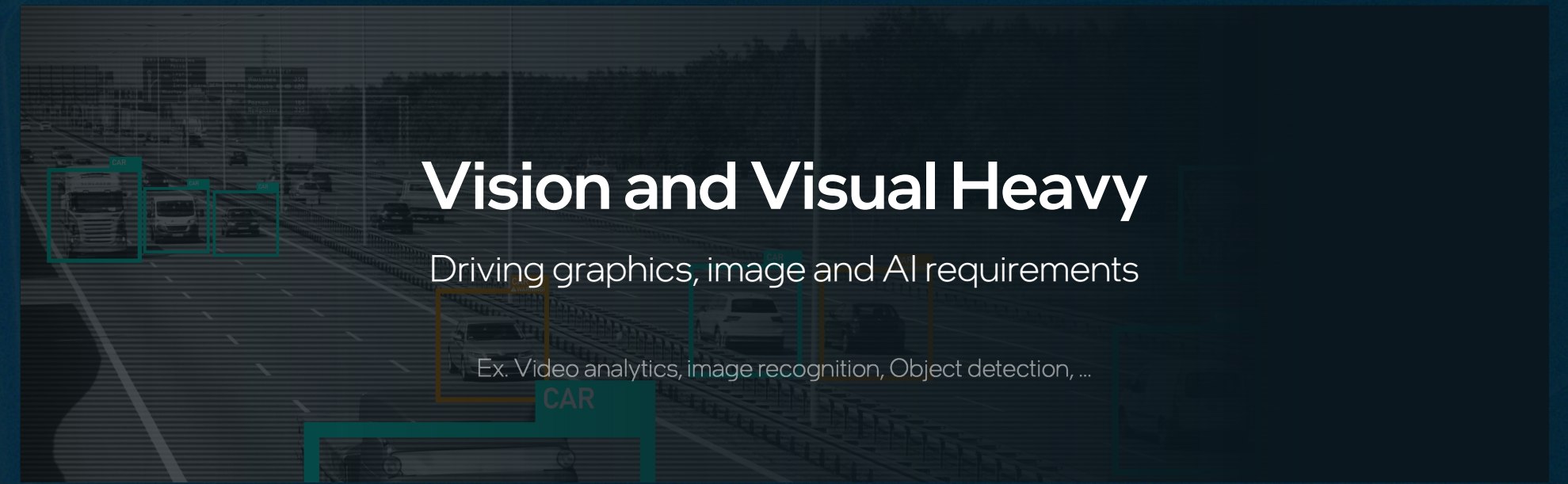
x: 1538 y: 308

x: 1642 y: 379





# ***Modern Edge Workload Requirements***



## **Vision and Visual Heavy**

Driving graphics, image and AI requirements

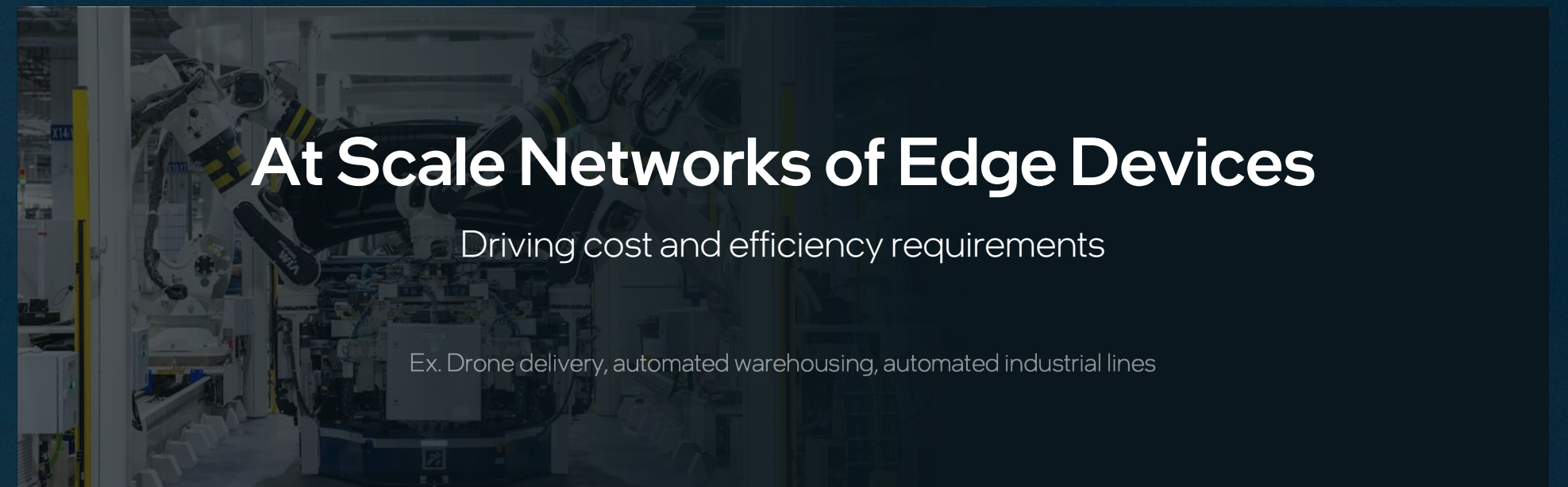
Ex. Video analytics, image recognition, Object detection, ...



## **Real-Time Action Based**

Driving AI Performance and Latency requirements

Ex. Vision Language Action models, Humanoid robotics, delivery robots, ...



## **At Scale Networks of Edge Devices**

Driving cost and efficiency requirements

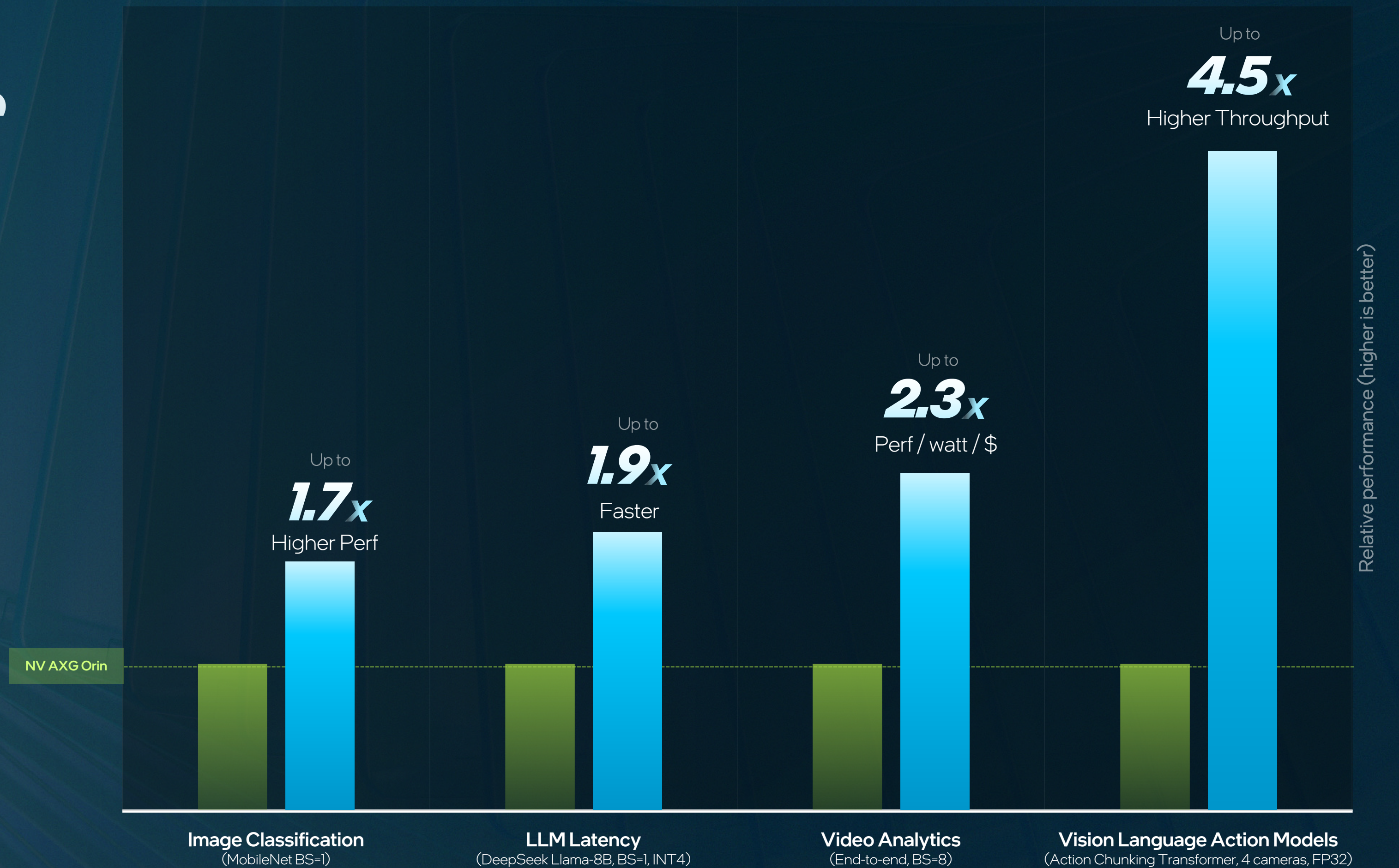
Ex. Drone delivery, automated warehousing, automated industrial lines



# Ultra Performance at the Edge

Intel® Core™ Ultra X9 388H vs.  
NVIDIA® Jetson AGX Orin 64GB

Intel® Core™ Ultra X9 388H  
NVIDIA® Jetson AGX Orin 64GB



Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.



# Modern Edge Workload Mastery

Intel® Core™ Ultra X9 388H vs.  
Intel® Core™ Ultra 9 285H



## Object Detection

YoloV11m | BS=8

Up to  
**9.6x**  
Higher Perf

288H

NPU

GPU

## Image Classification

Resnet-50 | BS=8

Up to  
**6.8x**  
Faster

NPU

## Time to First Token

Llama-3.2-3B, DeepSeek-Qwen-1.5B,  
Phi-4-Mini-3.8B, Mistral-7B v0.1, and  
DeepSeek-Llama-8B

Up to  
**3.8x**  
Faster

NPU

GPU

Relative performance (higher is better)

Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.



# Modern Edge Workload Mastery

Intel® Core™ Ultra X9 388H vs.  
AMD Ryzen AI 9 and Ryzen AI Max+

## Object Detection

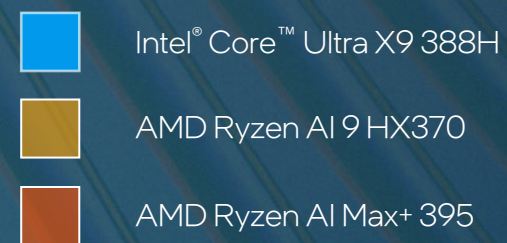
YoloV11m | BS=8

Up to  
**4.8x**  
Higher Perf

## Image Classification

Resnet-50 | BS=8

Up to  
**8.3x**  
Higher Perf



AMD Ryzen AI 9

Relative performance (higher is better)

Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.



# Proven TCO savings for Edge AI

Intel Core Ultra Series 3 displaces competition across multiple verticals and customers

intel  
CORE  
ULTRA X7

## Document Parsing

OCR and Document AI

Up to

**39%**

Savings per system  
over 5 years

Displaced NV RTX 4060

## Robotics AI

Vision Language Action and  
imitation learning policy

Up to

**42%**

Savings per system

Displaced NV Jetson AGX  
Orin 64GB

## Humanoid Robotics

Speech synthesis,  
VLM and multi-task vision

Up to

**67%**

Savings per system  
over 5 years

Displaced NV Jetson Thor

Details at [intel.com/performanceindex](https://intel.com/performanceindex). Results may vary.





...achieved nearly 9X faster throughput compared to NVIDIA® Jetson Nano™... giving delivery robots the context they need to evaluate higher-stakes decisions, ... enables fast perception with deep reasoning, **making possible, VLM-driven intelligence for last-mile delivery robots**

Davit Buniatyan - CEO



...1.4X lower latency and 2.7X higher power efficiency compared to an NVIDIA RTX 4060 GPU... **enables real-time document parsing and text recognition on compact edge devices,** helping businesses automate workflows

Alex Zhang - Senior Product Manager



localization runs up to 152X faster on the NPU, heart segmentation up to 25X faster on the CPU, and calcium segmentation nearly 27X faster on the integrated Arc GPU. This near-real-time performance **accelerates clinical decision-making while keeping sensitive cardiac data securely on-device**

Sharon Saban - General Manager

**TROSSEN**

...**substantial improvement in policy throughput** — 4.9× faster on our lighter model, 8.3× faster on our mid-range model, and 8.6× faster on our higher-load model than Jetson AGX Orin...

Luke Schmitt - Lead Software Engineer

# Pushing the Edge with Partners

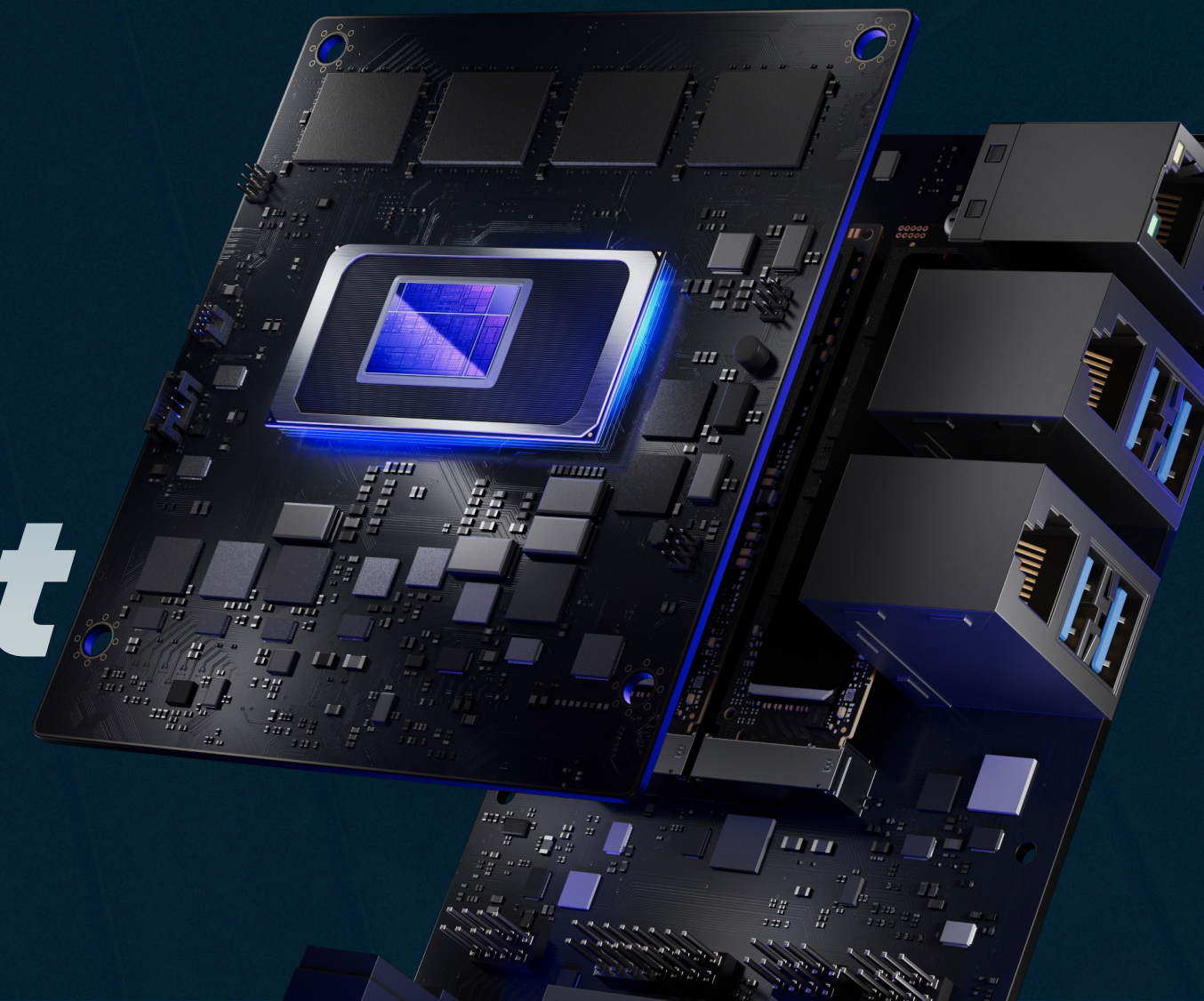




AI Robotics Software Suite



Reference Board



***Pushing the  
Edge  
of Enablement***



The background features a dynamic, abstract design. On the left, there are dense, wavy lines in shades of blue and purple that create a sense of depth and movement. In the center, a semi-transparent dark blue rectangle serves as a backdrop for the text. Behind this rectangle, a portion of a laptop keyboard is visible, showing keys and a trackpad. The overall color palette is dominated by cool blues and purples, with a hint of red/pink on the right side where the wavy lines curve. 

# *Appendix*



# Appendix

Claim	Claim Details/Citation
Up to 15% better perf/watt	Source : Intel internal analysis, 2024.Results may vary.
Up to 30% better chip density	Source : Intel internal analysis, 2024.Results may vary.
Get as much as 27 hours	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Lenovo IdeaPad reference design; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2.8k; OS: Windows 11 26200.7171; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced"; Lenovo Vantage = Balanced. Battery Size: 99.9Whr
Up to 60% higher CPU performance	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".  Processor: Intel Core Ultra 9 288V (Lunar Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 8533; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: 32.0.101.6987; NPU Driver: 32.0.100.4239; BIOS: LNLMFWI1.R00.3223; Power Plan set to Balanced, Power Mode set to "Best Performance".
Up to 77% faster graphics	Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=25W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".  Processor: Intel Core Ultra 9 288V (Lunar Lake) PL1 = 25W; tested in Intel reference platform; Memory: 32GB LPDDR5 8533; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: 32.0.101.8331; NPU Driver: 32.0.100.4239; BIOS: LNLMFWI1.R00.3223; Power Plan set to Balanced, Power Mode set to "Best Performance".
Up to 2x faster AI performance	Processor: Intel Core Ultra X7 358H (Panther Lake); tested in MSI Prestige 14; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2.8k; OS: Windows 11 26200.7171; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance"; MSI Center = Performance. Battery Size: 78.6Whr  Processor: AMD Ryzen AI 9 365 (Strix Point); tested in ASUS Zenbook S 16; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: UM5606WA.319; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 78Whr
Up to 40% lower power at similar perf	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".  Processor: Intel Core Ultra 9 288V (Lunar Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 8533; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: 32.0.101.6987; NPU Driver: 32.0.100.4239; BIOS: LNLMFWI1.R00.3223; Power Plan set to Balanced, Power Mode set to "Best Performance".  Processor: Intel Core Ultra 9 285H (Arrow Lake); tested in Intel reference platform; Memory: 64GB DDR5 6400; Storage: Samsung PM9A1 512GB; Display Resolution: 1920x1200; OS: Windows 11 26200.6725; Graphics Driver: 32.0.101.8132; NPU Driver: 32.0.100.4404; BIOS: MTLPFWI1.R00.5385; Power Plan set to Balanced, Power Mode set to "Best Performance".
>60% more performance at similar power	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".  Processor: Intel Core Ultra 9 288V (Lunar Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 8533; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: 32.0.101.6987; NPU Driver: 32.0.100.4239; BIOS: LNLMFWI1.R00.3223; Power Plan set to Balanced, Power Mode set to "Best Performance".



# Appendix

Claim	Claim Details/Citation
>60% more performance at similar power	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".
	Processor: Intel Core Ultra 9 288V (Lunar Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 8533; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: 32.0.101.6987; NPU Driver: 32.0.100.4239; BIOS: LNLMPFWI1.R00.3223; Power Plan set to Balanced, Power Mode set to "Best Performance".
>10% more performance at similar power	Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".
	Processor: Intel Core Ultra 9 285H (Arrow Lake) PL1=45W; tested in Intel reference platform; Memory: 64GB DDR5 6400; Storage: Samsung PM9A1 512GB; Display Resolution: 1920x1200; OS: Windows 11 26200.6725; Graphics Driver: 32.0.101.8132; NPU Driver: 32.0.100.4404; BIOS: MTLPFWI1.R00.5385; Power Plan set to Balanced, Power Mode set to "Best Performance".
Thin & powerful productivity performance	As measured by Crossmark: Overall, Procyon: Office Productivity , Speedometer 3.1 (Chrome), Procyon: Photo Editing, Procyon: Video Editing, and Blender: GPU Benchmark on the Intel Core Ultra X9 388H (Reference Platform, 45W sustained), Intel Core Ultra 9 285H (reference platform, 45W sustained), Qualcomm 84-100 (Customer Chassis, ~50W sustained, and AMD HX 370 (Customer Chassis, 53W sustained)
Thin & light productivity performance	As measured As measured by Crossmark: Overall, Procyon: Office Productivity , Speedometer 3.1 (Chrome), Procyon: Photo Editing, Procyon: Video Editing, and Blender: GPU Benchmark on the Intel Core Ultra X9 388H (Reference Platform, 25W sustained), Intel Core Ultra 9 285H (reference platform, 25W sustained), Intel Core Ultra 7 255H (Reference platform, 25W sustained) and AMD AI 365 (Customer Chassis, 22W sustained)
Up to 2.8x processor power reduction while streaming video with an Intel® Core™ Ultra X9 388H vs. Intel® Core™ 7 150U	"Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to ""Balanced"".
	Processor: Intel Core 7 150U (Raptor Lake Refresh); tested in Intel reference platform; Memory: 32GB LPDDR5 6400; Storage: Samsung PM9A1 512GB; Display Resolution: 1920x1080; OS: Windows 11 26100.2454; Graphics Driver: 32.0.101.6314; NPU Driver: NA; BIOS: RPLPFWI1.R00.5401; Power Plan set to Balanced, Power Mode set to ""Balanced""."
Up to 57% lower SOC power	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced".
	Processor: Intel Core Ultra 7 255H (Arrow Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 8533; Storage: Samsung PM9A1 512GB; Display Resolution: 1920x1200; OS: Windows 11 26200.6725; Graphics Driver: 32.0.101.8132; NPU Driver: 32.0.100.4404; BIOS: MTLPFWI1.R00.5385; Power Plan set to Balanced, Power Mode set to "Balanced".
Up to 78% lower SOC power	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced".
	Processor: AMD Ryzen AI 9 365 (Strix Point); tested in MSI Prestige A16 AI+; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: 32.0.13022.5002; NPU Driver: 32.0.203.280; BIOS: UM5606WA.319; Power Plan set to Balanced, Power Mode set to "Balanced"; MSI Center = Balanced. Battery Size: 80Whr



# Appendix

Claim	Claim Details/Citation
The x86 Battery Life King	<p>Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced".</p> <p>Processor: Intel Core Ultra 9 288V (Lunar Lake); tested in Intel reference platform; Memory: 32GB LPDDR5 8533; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: 32.0.101.6987; NPU Driver: 32.0.100.4239; BIOS: LNLMFVII.R00.3223; Power Plan set to Balanced, Power Mode set to "Balanced".</p> <p>Processor: AMD Ryzen AI 9 365 (Strix Point); tested in MSI Prestige A16 AI+; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: 32.0.13022.5002; NPU Driver: 32.0.203.280; BIOS: UM5606WA.319; Power Plan set to Balanced, Power Mode set to "Balanced"; MSI Center = Balanced. Battery Size: 80Whr</p> <p>Processor: AMD Ryzen AI 9 HX 375 (Strix Point); tested in HP EliteBook X G1a; Memory: 32GB LPDDR5 8000; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: X88 v01.03.11; Power Plan set to Balanced, Power Mode set to "Balanced"; HP= Smart Sense. Battery Size: 74.5Whr</p>
27 hours Netflix Streaming	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Lenovo IdeaPad reference design; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2.8k; OS: Windows 11 26200.7171; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced"; Lenovo Vantage = Balanced. Battery Size: 99.9Whr
17 hours UL Procyon Battery Life: Office Productivity	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Lenovo IdeaPad reference design; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2.8k; OS: Windows 11 26200.7171; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced"; Lenovo Vantage = Balanced. Battery Size: 99.9Whr
9 hours Microsoft Studio Effects	Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Lenovo IdeaPad reference design; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2.8k; OS: Windows 11 26200.7171; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced"; Lenovo Vantage = Balanced. Battery Size: 99.9Whr
Get as much as 16.5 hours while Netflix streaming with an Intel® Core™ Ultra X7 358H tested in next generation HP EliteBook X	Processor: Intel Core Ultra X7 358H (Panther Lake); tested in HP EliteBook X G2i; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 1 TB; Display: 2.8k OLED; OS: Windows 11 26200.7171; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced"; HP = Smart Sense. Battery Size: 68Whr
Get as much as 7.5 hours with Teams 10 Person Video call & Windows Studio Effects with an Intel® Core™ Ultra X7 358H tested in next generation HP EliteBook X	Processor: Intel Core Ultra X7 358H (Panther Lake); tested in HP EliteBook X G2i; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 1 TB; Display: 2.8k OLED; OS: Windows 11 26200.7171; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Balanced"; HP = Smart Sense. Battery Size: 68Whr
12.6 hours	<p>As measured by Netflix streaming at 1080p in Edge browser. Individual system results may vary as power and performance are affected by use, configuration and other factors.</p> <p>Processor: AMD Ryzen AI 9 HX 375 (Strix Point); tested in HP EliteBook X G1a; Memory: 32GB LPDDR5 8000; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: X88 v01.03.11; Power Plan set to Balanced, Power Mode set to "Balanced"; HP= Smart Sense. Battery Size: 74.5Whr</p>



# Appendix

Claim	Claim Details/Citation
7.3 hours	<p>As measured by Teams 3x3 (10 person) call using Windows Studio Effects. Individual system results may vary as power and performance are affected by use, configuration and other factors. S</p> <p>Processor: AMD Ryzen AI 9 HX 375 (Strix Point); tested in HP EliteBook X G1a; Memory: 32GB LPDDR5 8000; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: X88 v01.03.11; Power Plan set to Balanced, Power Mode set to "Balanced"; HP= Smart Sense. Battery Size: 74.5Whr</p>
17.7 hours	<p>As measured by Netflix streaming at 1080p in Edge browser. Individual system results may vary as power and performance are affected by use, configuration and other factors.</p> <p>Processor: Qualcomm Snapdragon X Elite X1E-78-100; tested in HP EliteBook Ultra G1q; Memory: 16GB LPDDR5 8448; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2240x1400; OS: Windows 11 26200.7171; Graphics Driver: 31.0.121.1; NPU Driver: 30.0.145.1000; BIOS: InsydeF.32; Power Plan set to Balanced, Power Mode set to "Balanced"; Battery Size: 59Whr</p>
6.9 hours	<p>As measured by Teams 3x3 (10 person) call using Windows Studio Effects. Individual system results may vary as power and performance are affected by use, configuration and other factors.</p> <p>Processor: Qualcomm Snapdragon X Elite X1E-78-100; tested in HP EliteBook Ultra G1q; Memory: 16GB LPDDR5 8448; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2240x1400; OS: Windows 11 26200.7171; Graphics Driver: 31.0.121.1; NPU Driver: 30.0.145.1000; BIOS: InsydeF.32; Power Plan set to Balanced, Power Mode set to "Balanced"; Battery Size: 59Whr</p>
Up to 76% better gaming performance vs. Arrow Lake with an Intel® Core™ Ultra X9 388H vs. Intel® Core™ Ultra 9 285H	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: Intel Core Ultra 9 285H (Arrow Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 8400; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2560x1800; OS: Windows 11 26200.7462; Graphics Driver: 32.0.101.8331; NPU Driver: 32.0.100.4404; BIOS: MTLPFW11.R00.5385; Power Plan set to Balanced, Power Mode set to "Best Performance".</p>
Up to 77% better gaming performance vs. Lunar Lake with an Intel® Core™ Ultra X9 388H vs. Intel® Core™ Ultra 9 288V	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=25W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: Intel Core Ultra 9 288V (Lunar Lake) PL1 = 25W; tested in Intel reference platform; Memory: 32GB LPDDR5 8533; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: 32.0.101.8331; NPU Driver: 32.0.100.4239; BIOS: LNLMFW11.R00.3223; Power Plan set to Balanced, Power Mode set to "Best Performance".</p>
Up to 73% better gaming performance vs. AMD Strix Point with an Intel® Core™ Ultra X9 388H vs. AMD Ryzen™ AI 9 HX 370	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7462; Graphics Driver: 32.0.21025.15011; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p>
82% faster on average vs. AMD HX 370	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7462; Graphics Driver: 32.0.21025.15011; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p>



# Appendix

Claim	Claim Details/Citation
2.6x faster on average	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: Qualcomm Snapdragon X Elite X1E-84-100; tested in Samsung Galaxy Book4 Edge; Memory: 16GB; Storage:1 TB; Display Resolution: 3K OLED; OS: Windows 11 26200.7462; Graphics Driver: 31.0.121.1; NPU Driver: 30.0.145.1000; BIOS: P00AKX.061.250718.WY.1; Power Plan set to Balanced, Power Mode set to "Best Performance"; Samsung= High Performance. Battery Size: 60.5Whr</p>
Up to 10% better gaming performance vs. NVIDIA 4050 Laptop with an Intel® Core™ Ultra X9 388H vs. Intel® Core™ Ultra 7 255H with NVIDIA RTX 4050 Laptop	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 96GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 1920x1080; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: Intel Core Ultra 7 255H (Arrow Lake); tested in Dell 14 Premium with Nvidia GeForce RTX 4050; Memory: 32GB LPDDR5 8400; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2k IPS; OS: Windows 11 26200.7171; Graphics Driver(s): dGPU: 32.0.15.8180 (GeForce 581.80) &amp; iGPU: 32.0.101.8250; NPU Driver: 32.0.100.4404; BIOS: v1.4.0; Power Plan set to Balanced, Power Mode set to "Best Performance"; Dell Optimized = Ultra Performance. Battery Size: 68Whr</p>
Leadership Modern Gaming: 4x smoother gaming experience in Cyberpunk 2077 with Ultra Settings and RT On vs. AMD Strix Point with an Intel® Core™ Ultra X9 388H + XeSS 3 MFG vs. AMD Ryzen™ AI 9 HX 370 + FSR FG	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7462; Graphics Driver: 32.0.22029.9039; NPU Driver: 32.0.203.280; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p>
Leadership Modern Gaming: 3x smoother gaming experience in Battlefield 6 with Overkill Settings vs. AMD Strix Point with an Intel® Core™ Ultra X9 388H + XeSS 3 MFG vs. AMD Ryzen™ AI 9 HX 370 + FSR FG	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7462; Graphics Driver: 32.0.22029.9039; NPU Driver: 32.0.203.280; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p>
Leadership Modern Gaming: 3x smoother gaming experience in Cyberpunk 2077 with Ultra Settings and RT On.vs. Nvidia RTX 4050 with an Intel® Core™ Ultra X9 388H + XeSS 3 MFG vs. AMD Ryzen™ AI 9 HX 370 + FSR FG	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: Intel Core Ultra 7 255H (ARL-H); tested in Dell 14 Premium DA14250; Memory: 32GB LPDDR5 8400; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 1920x1200; OS: Windows 11 26200.7462; Graphics Driver: 32.0.15.9159; NPU Driver: 32.0.100.4297; BIOS: 1.4.0; Power Plan set to Balanced, Power Mode set to "Best Performance"; OEM App Power Setting set to Ultra Performance. Battery Size: 68Whr</p>
Leadership Modern Gaming: 2x smoother gaming experience in Battlefield 6 with Overkill Settings vs. Nvidia RTX 4050 with an Intel® Core™ Ultra X9 388H + XeSS 3 MFG vs. AMD Ryzen™ AI 9 HX 370 + FSR FG	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 4TB; Display Resolution: 2880x1800; OS: Windows 11 26200.7462; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: Intel Core Ultra 7 255H (ARL-H); tested in Dell 14 Premium DA14250; Memory: 32GB LPDDR5 8400; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 1920x1200; OS: Windows 11 26200.7462; Graphics Driver: 32.0.15.9159; NPU Driver: 32.0.100.4297; BIOS: 1.4.0; Power Plan set to Balanced, Power Mode set to "Best Performance"; OEM App Power Setting set to Ultra Performance. Battery Size: 68Whr</p>



# Appendix

Claim	Claim Details/Citation
AI Super Builder	Learn more here: <a href="https://newsroom.intel.com/client-computing/ai-assistant-builder-delivers-free-ai-assistants">https://newsroom.intel.com/client-computing/ai-assistant-builder-delivers-free-ai-assistants</a>
350+ ISVs	Intel Analysis as of January 2026
500+ AI Features	Intel Analysis as of January 2026
900+ Models Support	Intel Analysis as of January 2026
Up to 4.3x MLPerf Client 1.5 NPU AI Performance with an Intel® Core™ Ultra X9 388H vs. AMD Ryzen™ AI 9 HX 370	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p>
Up to 1.9x MLPerf Client 1.5 GPU AI Performance with an Intel® Core™ Ultra X9 388H vs. AMD Ryzen™ AI 9 HX 370	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p>
The only PC Processor with 2 Fully Featured AI Engines	As of December 2025 among Windows based PCs.
Geekbench AI 1.6 scores Leadership Performance Across ALL AI Engines	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p> <p>Processor: Qualcomm Snapdragon X Elite X1E-84-100; tested in Samsung Galaxy Book4 Edge; Memory: 16GB; Storage:1 TB; Display Resolution: 3K OLED; OS: Windows 11 26200.7171; Graphics Driver: 31.0.121.1; NPU Driver: 30.0.145.1000; BIOS: P00AKX.061.250718.WY.1; Power Plan set to Balanced, Power Mode set to "Best Performance"; Samsung= High Performance. Battery Size: 60.5Whr</p>



# Appendix

Claim	Claim Details/Citation
AI Super Builder	Learn more here: <a href="https://newsroom.intel.com/client-computing/ai-assistant-builder-delivers-free-ai-assistants">https://newsroom.intel.com/client-computing/ai-assistant-builder-delivers-free-ai-assistants</a>
350+ ISVs	Intel Analysis as of January 2026
500+ AI Features	Intel Analysis as of January 2026
900+ Models Support	Intel Analysis as of January 2026
Up to 4.3x MLPerf Client 1.5 NPU AI Performance with an Intel® Core™ Ultra X9 388H vs. AMD Ryzen™ AI 9 HX 370	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p>
Up to 1.9x MLPerf Client 1.5 GPU AI Performance with an Intel® Core™ Ultra X9 388H vs. AMD Ryzen™ AI 9 HX 370	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p>
The only PC Processor with 2 Fully Featured AI Engines	As of December 2025 among Windows based PCs.
Leadership Performance Across ALL AI Engines	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p> <p>Processor: Qualcomm Snapdragon X Elite X1E-84-100; tested in Samsung Galaxy Book4 Edge; Memory: 16GB; Storage:1 TB; Display Resolution: 3K OLED; OS: Windows 11 26200.7171; Graphics Driver: 31.0.121.1; NPU Driver: 30.0.145.1000; BIOS: P00AKX.061.250718.WY.1; Power Plan set to Balanced, Power Mode set to "Best Performance"; Samsung= High Performance. Battery Size: 60.5Whr</p>



# Appendix

Claim	Claim Details/Citation
Consistent & Fast LLM Performance	<p>Processor: Intel Core Ultra X9 388H (Panther Lake) PL1=45W; tested in Intel reference platform; Memory: 32GB LPDDR5 9600; Storage: Samsung PM9A1 512GB; Display Resolution: 2880x1800; OS: Windows 11 26200.6725; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".</p> <p>Processor: AMD Ryzen AI 9 HX 370 (Strix Point); tested in ASUS Vivobook S 15; Memory: 32GB LPDDR5 7500; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2880x1620; OS: Windows 11 26200.7171; Graphics Driver: 32.0.22029.1019; NPU Driver: 32.0.203.314; BIOS: M5506WA.314; Power Plan set to Balanced, Power Mode set to "Best Performance"; MyAsus= Performance. Battery Size: 75Whr</p> <p>Processor: Qualcomm Snapdragon X Elite X1E-84-100; tested in Samsung Galaxy Book4 Edge; Memory: 16GB; Storage:1 TB; Display Resolution: 3K OLED; OS: Windows 11 26200.7171; Graphics Driver: 31.0.121.1; NPU Driver: 30.0.145.1000; BIOS: P00AKX.061.250718.WY.1; Power Plan set to Balanced, Power Mode set to "Best Performance"; Samsung= High Performance. Battery Size: 60.5Whr</p>
AI Creation runs best on Intel Core	<p>Processor: Intel Core Ultra X9 388H (Panther Lake); tested in Lenovo IdeaPad reference design with sustained PL1=65W; Memory: 32GB LPDDR5 9600; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2.8k; OS: Windows 11 26200.7171; Graphics Driver: Intel Arc Graphics Pre-Production driver; NPU Driver: Pre-Production driver; BIOS: Pre-Production BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance"; Lenovo Vantage = Performance. Battery Size: 99.9Whr</p> <p>Processor: Intel Core Ultra 9 285H (Arrow Lake); tested in Lenovo IdeaPad Pro 5 with sustained PL1=65W; Memory: 32GB LPDDR5 8533; Storage: Samsung 9100 Pro 1 TB; Display Resolution: 2.8k; OS: Windows 11 26200.7171; Graphics Driver: 32.0.101.8250; NPU Driver: 32.0.100.4404; BIOS: PZCN49WW; Power Plan set to Balanced, Power Mode set to "Best Performance"; Lenovo Vantage = Performance. Battery Size: 84Whr</p>
Ultra Performance at the Edge	<p>System 1: CPU Model: Intel(R) Core(TM) Ultra X9 388H Host Name: ptl, Time: Mon Nov 17 03:50:58 AM MST 2025, System Name: Intel Corporation Panther Lake Client Platform, Baseboard: Intel Corporation PTL-UP LPS T3 RVPI, Chassis: Intel Corporation Laptop, CPU Model: Intel(R) Core(TM) Ultra X9 38BH, Architecture: x86_64, Microarchitecture: —, L3 Cache: 18 MiB, Cores per Socket: 16, Sockets: 1, Hyperthreading: Enabled, CPUs: 16, Intel Turbo Boost: Enabled, Base Frequency: 4.0 GHz, All-Core Maximum Frequency: 5.0 GHz, NUMA Nodes: 1, Prefetchers: 1, PINs: —, Accelerators Available [used]: DLB: 0 [0], DSA: 0 [0], IAA: 0 [0], QAT: 0 [0], vRAN Boost: 0 [0], Installed Memory: 16 GB (2x8 GB LPDDR5 8533 MT/s [7467 MT/s]), Hugepagesize: 2048 kB, Transparent Huge Pages: madvise, Automatic NUMA Balancing: Disabled, NIC: 4x, Disk: 1x3.67 Samsung SSD 990 EVO Plus 4TB, BIOS: PTLFWT1.800.3332.D52.2509404547, Microcode: 0xD0, OS: Ubuntu 24.04.3 LTS, Kernel: 6.17-next, TDP: 45W, Energy Performance Bias: Balanced Performance (6), Scaling Governor: powersave, Driver: intel_pstate, C-States: POLL: Enabled, C1: ACPI Enabled, C2: ACPI Enabled, C3: ACPI Enabled, Efficiency Latency Control: Enabled, Vulnerabilities: L1g OK, Q Vulnerable.</p> <p>System 2: Name: orin, CPU: 12-core Arm Cortex-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3 @ 2.2GHz, GPU: NVIDIA Ampere architecture with 2048 NVIDIA® CUDA® cores and 64 Tensor cores @ 1.3GHz, Memory: 64GB 256-bit LPDDR5 @ 204.8 GB/s, Storage: 64GB eMMC 5.1, Accelerator: 2x NVDLA v2.0, PVA v2.0, Accelerator: APE, NVENC, NVDEC, NVJPG, NVJPGI, VIC, SE, OS: Ubuntu 22.04.5 LTS, Kernel: 5.15.148-tegra, Jetpack: 6.2.1, Deepstream: 7.0, CUDA: 12.6, TensorRT: v100300, Jetson clocks: Default, NVP modes: 0 - MAXN.</p>
Modern Edge Workload Mastery Intel® Core™ Ultra X9 388H vs. Intel® Core™ Ultra 9 285H	See <a href="https://www.intel.com/performanceindex">intel.com/performanceindex</a>
Modern Edge Workload Mastery Intel® Core™ Ultra X9 388H vs. AMD Ryzen AI 9 and Ryzen AI Max+	See <a href="https://www.intel.com/performanceindex">intel.com/performanceindex</a>



# Appendix

Claim	Claim Details/Citation
Proven TCO savings for Edge AI	<p>System 1: NVIDIA Jetson Thor (T5000) Blackwell GPU 128GB Ubuntu 24.04</p> <p>System 2: Nvidia Jetson AGX Orin Ampere GPU 32GB Ubuntu 22.04</p>





intel<sup>®</sup>