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The Intel logo is displayed in white text on a blue square background. The background of the entire slide features a stylized, colorful graphic of a laptop fan and a processor chip, with a gradient of blue, purple, and pink.

**TECH.**  
tour.us

# ***Panther Lake Recap***

Nish Neelalojanan  
Sr Director Product Management  
PC Products

# Panther Lake

AI PC Excellence at Scale



Built with

intel  
18A

x86 power  
efficiency



scaled  
performance





INTRODUCING

# Panther Lake

Built for scale

More  
designs

More  
price points

More  
experiences

# Architectural Learnings for Scalability

Lunar Lake

x86 power  
efficiency



Arrow Lake

scaled  
performance



Leveraging the best of “both”

IP and partitioning-agnostic fabric

Mature Foveros-S 2.5D packaging technology

Separated GPU tile for scaling to segments

Grouped I/O and platform-based IP

# New Core IP

Increasing performance  
while retaining efficiency

Designed and  
optimized for 18A

Better performance  
at lower power

Additional IPC  
optimization

## Cougar Cove P-core



## Darkmont E-core & LPE-core



# Hybrid Core Strategy

## P-core

Driving ST performance  
& throughput

## E-core

Driving MT performance  
& parallelism

## LP E-core

Driving efficiency

# Caches & Compute Cluster Types

## Performance cluster

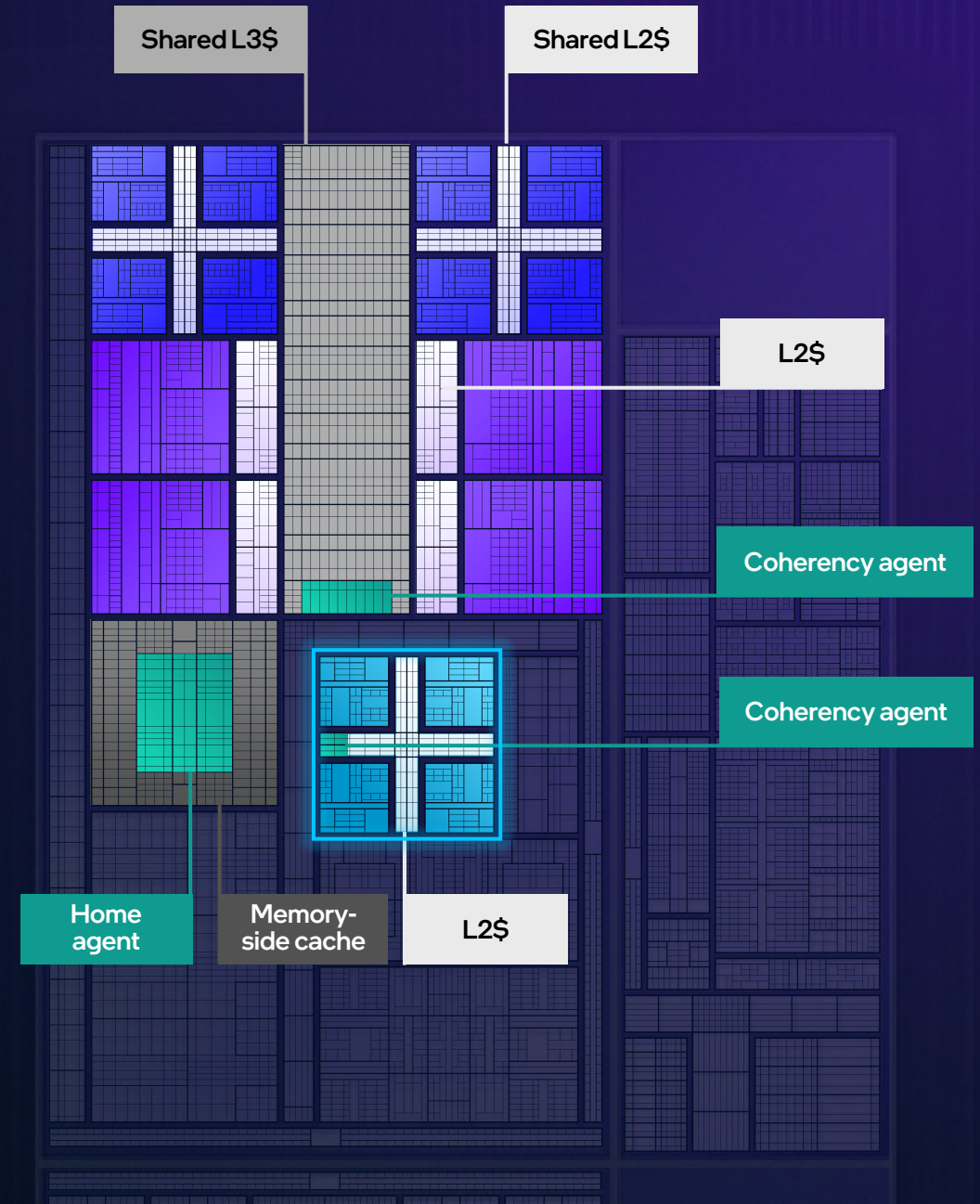
P-Core and E-core modules with a shared last level cache

## Efficiency cluster

E-core module with separate resources and memory connection

## Home Agent (HA) cross-agents system coherency

## Per-cluster Coherency Agent (CA)

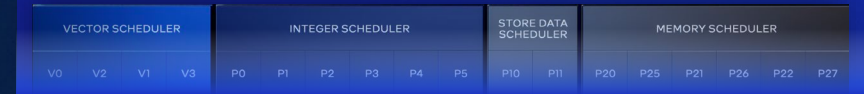


# Cougar Cove P-core

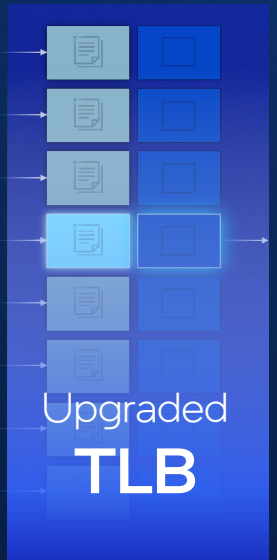
Exceptional throughput on Intel 18A

**AI-based**  
power management

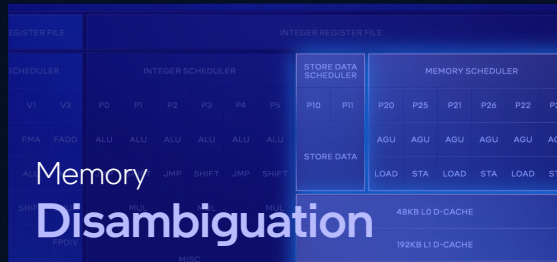
**18** Execution  
ports



**Up to 18MB**  
shared L3 cache



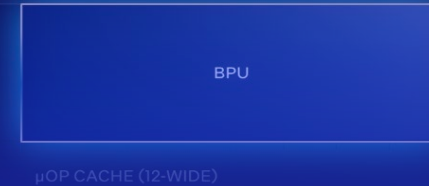
Upgraded  
**TLB**



**16.67MHz**  
Fine clock  
intervals

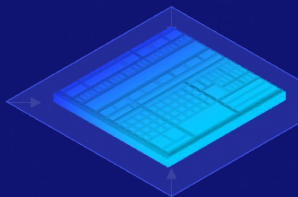
**Wide scheduling**

across both allocation/rename  
& retire



Enhanced  
branch prediction

Optimized for  
**PPA**



**VEC**

**Split**  
out of order  
engine

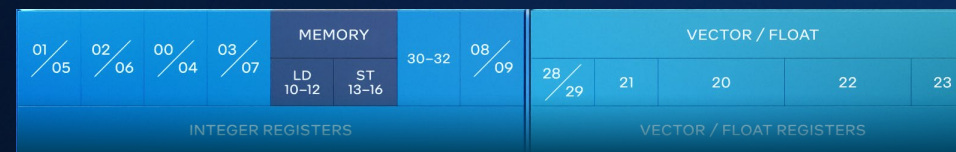
**INT**

**intel**

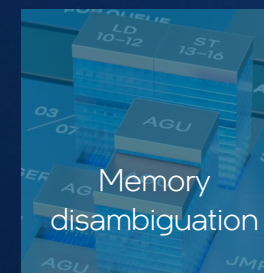
# Darkmont E-core

Power-efficient, multi-threaded  
performance

**26**  
dispatch ports



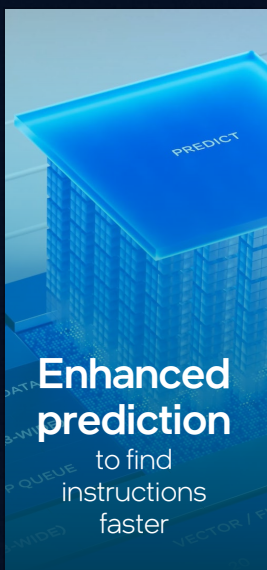
Improved  
nanocode  
performance



Memory  
disambiguation



**4MB**  
shared  
L2 cache



Enhanced  
prediction  
to find  
instructions  
faster

**128B/cycle**  
L2 cache  
bandwidth

Deep  
queueing  
for better  
parallelism

Scalable & flexible  
across multiple  
implementations

Dynamic  
prefetcher controls



AI throughput  
from 4x128bit  
FP & SIMD vector

intel®

# Cache & Memory Subsystem

## 8 E-cores on L3 cache ring

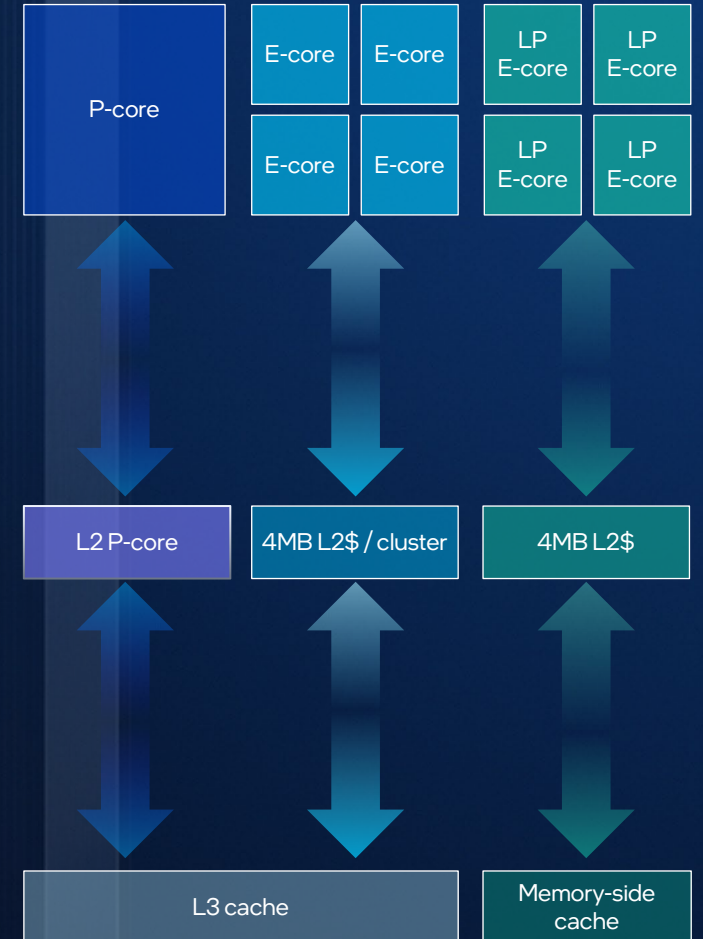
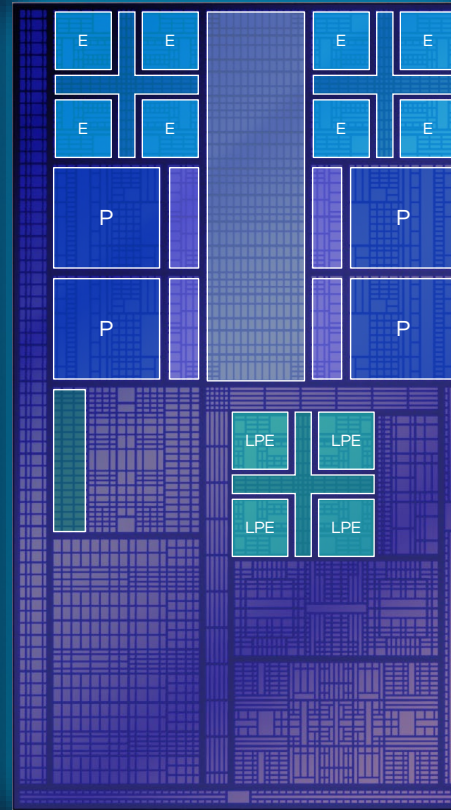
compared to none on Lunar Lake

## Double the L2 cache for LP E-cores

compared to Meteor & Arrow Lake

## Memory-side cache & controller on compute tile

vs. no memory-side cache and controller on SOC tile on Arrow Lake



# Panther Lake Thread Director

Enhanced & optimized intelligent thread guidance  
across a wider set of use cases

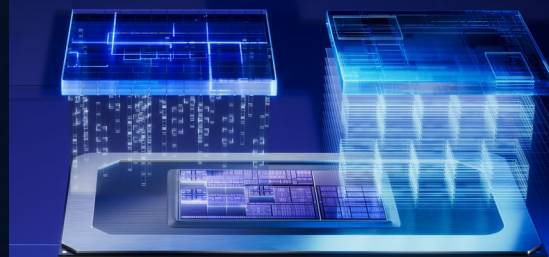
**Expanded**  
"busy" use case  
coverage



**Simultaneous**  
execution across P-core,  
E-core and LP E-core



**Improved**  
power management  
input



**Optimized** classification models

OS containment zones



Efficiency



Hybrid / compute



Zoneless

# Panther Lake XPU<sub>s</sub>

## GPU

Scale to larger configurations

Throughput optimized

## NPU

Consistency across the stack

Efficiency optimized



# Xe3

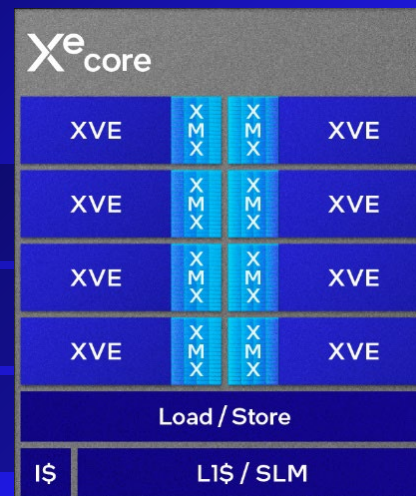
Optimized from engine to slice  
for a more consistent experience

## 3rd gen Xe-core

8 512-bit  
Vector engines

8 2048-bit  
XMN engines

+33% shared  
L1\$/SLM

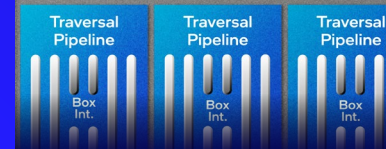


## Enhanced ray tracing unit

Dynamic ray management  
for async ray tracing

### Ray Tracing Unit

#### BVH Cache

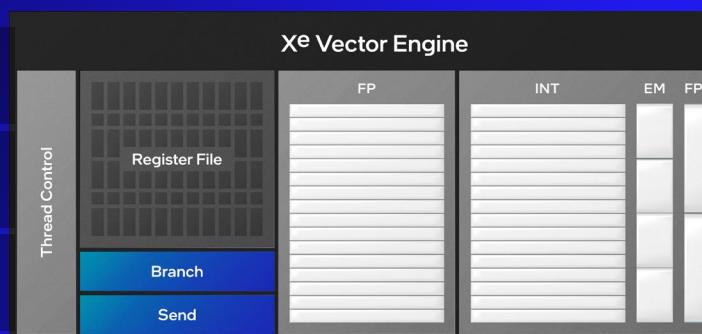


## Xe vector engine – increased utilization

Up to **25%** more threads

**Variable** register allocation

**FP8** dequantization support



## Enhanced GFX fixed function

**NEW**  
URB manager

Up to **2x**  
anisotropic filtering

Up to **2x**  
stencil test rate



Panther Lake

Xe3

Performance

**>50% Performance**  
vs. Lunar Lake



Based on geomean power consumption across measured benchmark and game testing. Details at [intel.com/performanceindex](https://intel.com/performanceindex)

# Panther Lake GPU

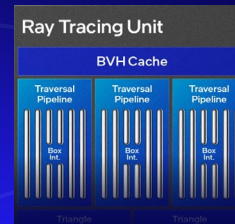
Better, faster and more  
efficient on all fronts

Latest  
features

DirectX  
**XII**  
ULTIMATE

Up to

**12** enhanced  
ray tracing units



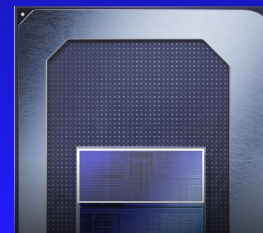
**>40%**

better graphics  
perf/watt  
vs. Arrow Lake H

Up to **120** TOPS

**>50%**

faster graphics  
performance  
vs. Lunar Lake GPU



Encode &  
decode

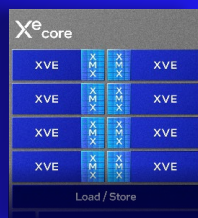


Decode

Up to

**12**

3<sup>rd</sup> gen  
Xe-cores

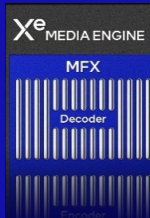


Xe matrix  
extensions

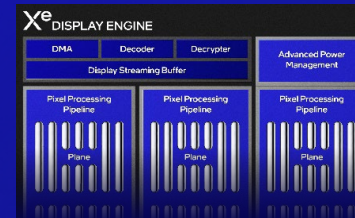


eDP 1.5

**16MB**  
L2 cache



Efficiency-optimized  
media & display engines



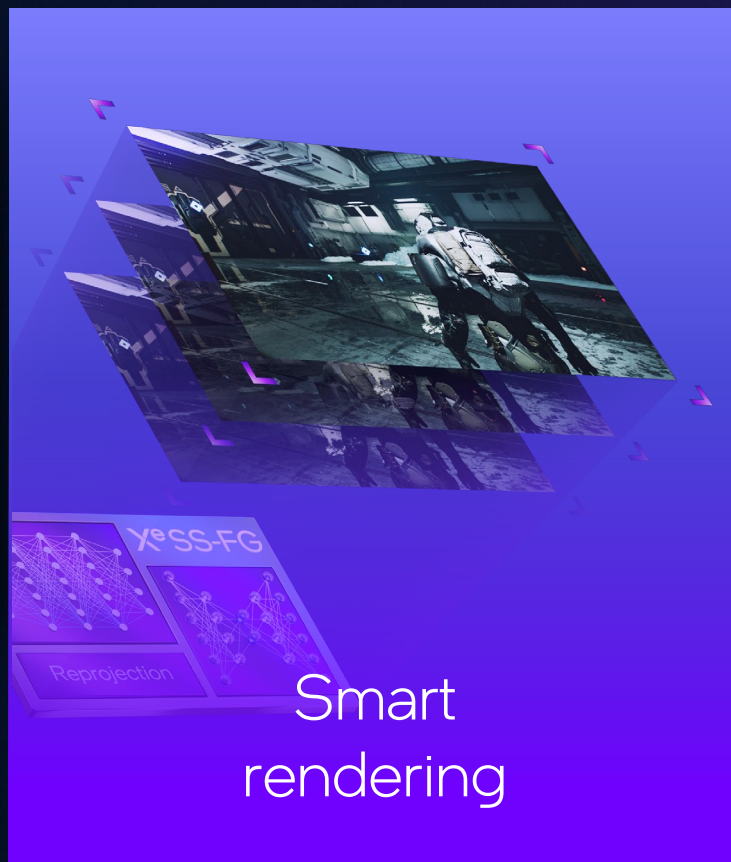
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Details at [intel.com/performanceindex](https://intel.com/performanceindex)

# Gaming at Low Power



High-performance  
GPU IP



Smart  
rendering



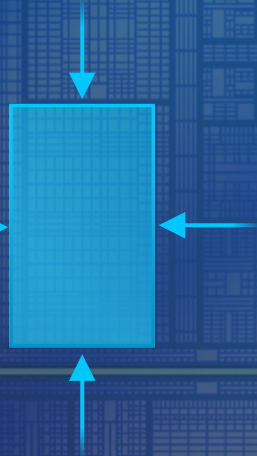
Platform  
tuning

# Next-Gen NPU5

Major leap in efficiency and performance, powering next-gen AI accelerators

>40%

improvement in  
TOPS per area



New activation  
function support

0.0

1.0

Up to

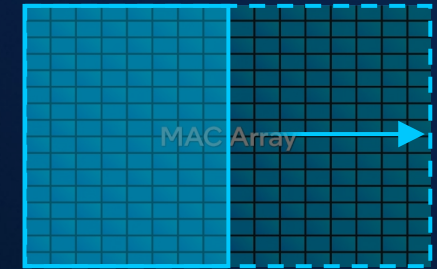
50

TOPS

Enhanced  
datatype  
conversion



MAC array  
doubled in size



Native FP8

datatype support

E4M3



E5M2



Copilot+PC

3

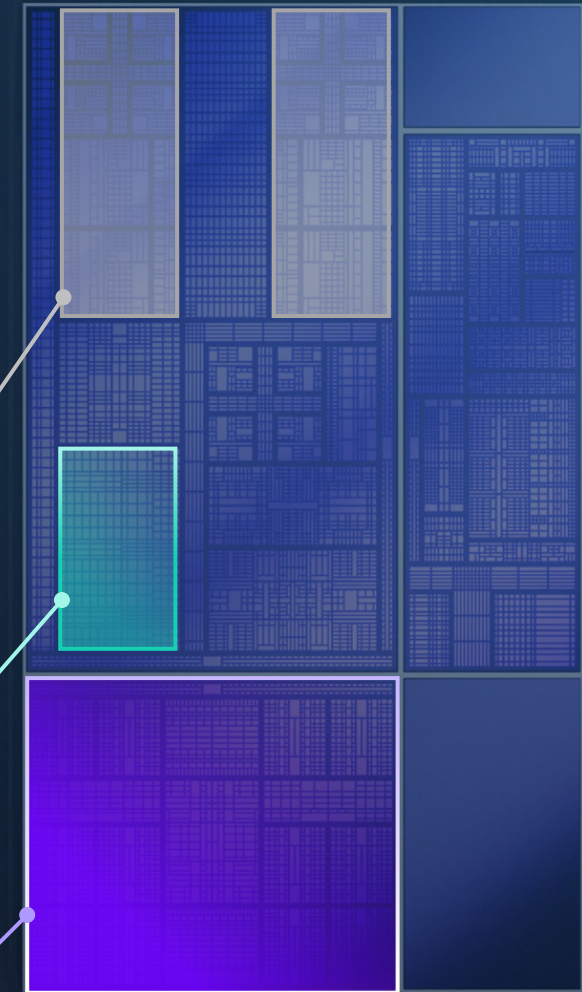
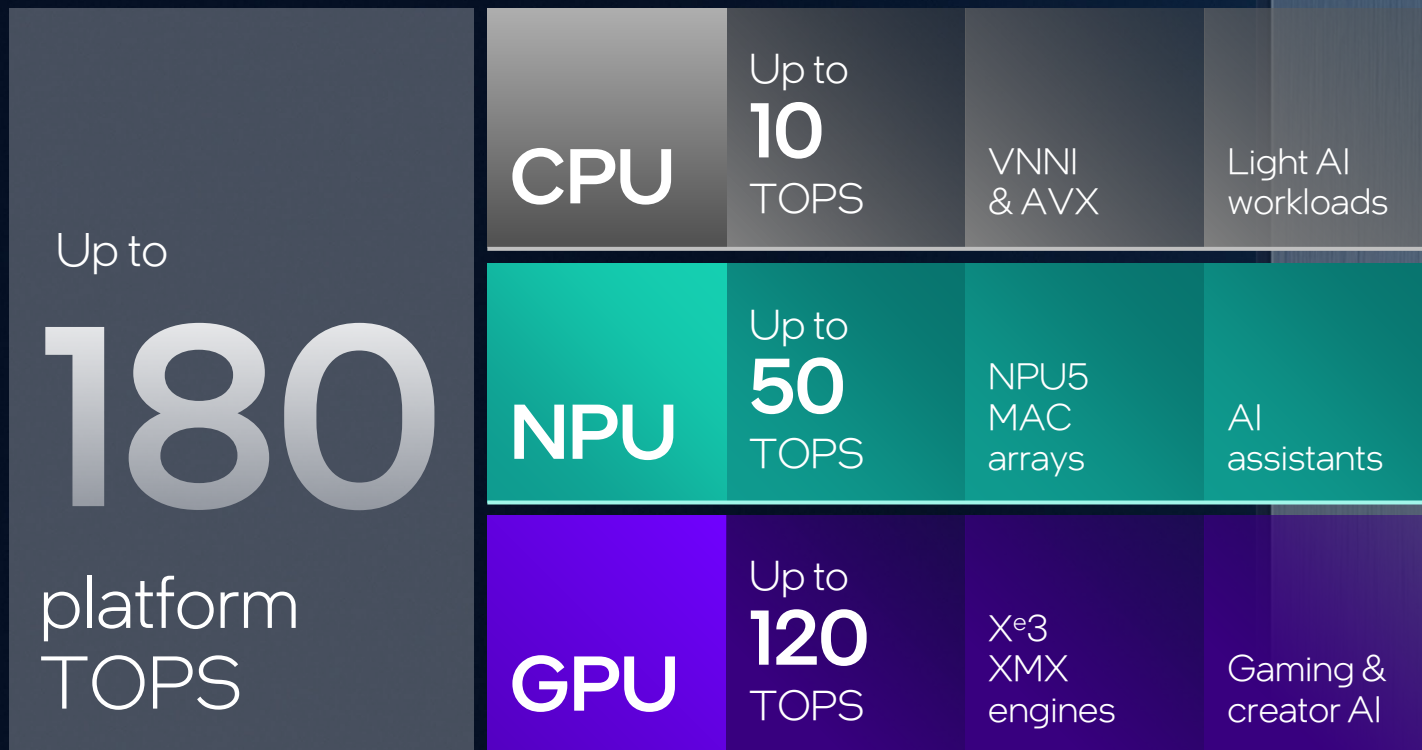
Neural compute  
engines



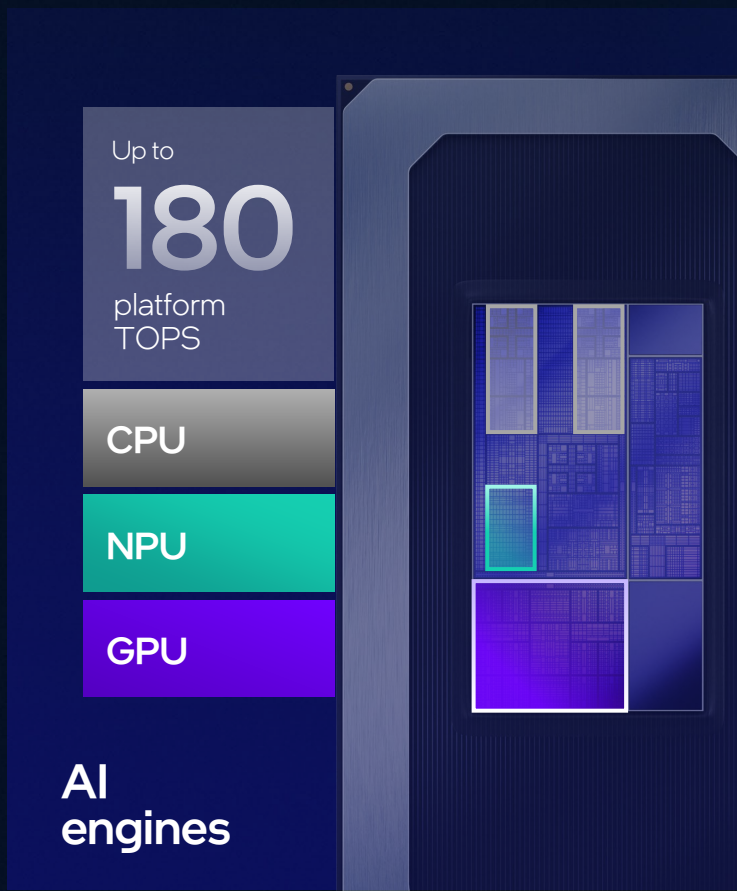
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Details at [intel.com/performanceindex](https://intel.com/performanceindex)

# AI Engines in Panther Lake



# Panther Lake Built for Agentic AI



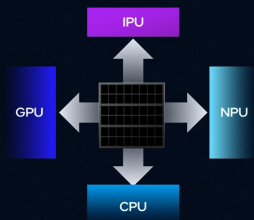
Software  
optimization



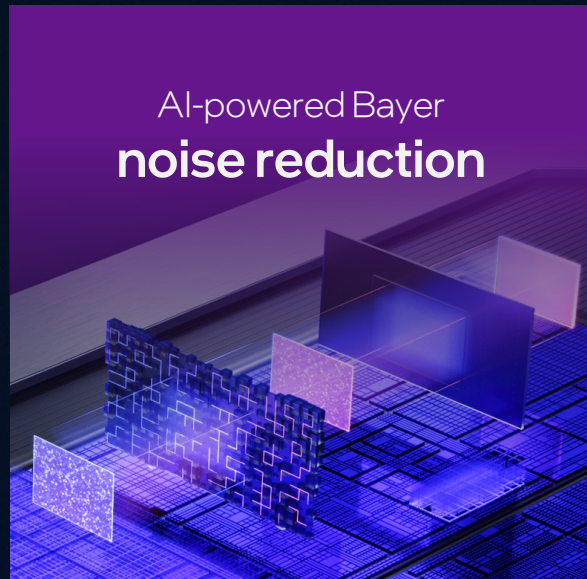
Ecosystem  
engagement

# Next-Gen IPU 7.5

Vivid and lifelike visuals across a wide spectrum of lighting conditions on Panther Lake

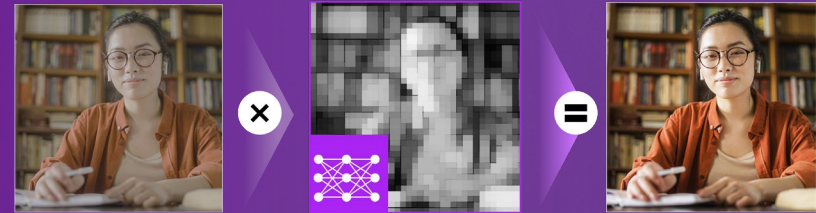


**Seamless workloads**  
with other accelerators



AI-powered Bayer  
**noise reduction**

AI-powered  
**local tone mapping**



Up to  
**16MP stills**  
with zero shutter lag

Full-stack IP  
solution

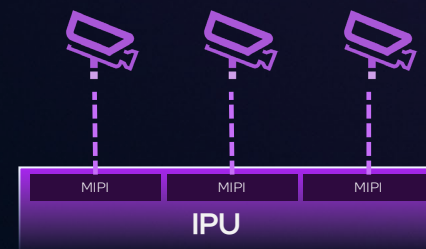


Improved  
**power efficiency**



Hardware-based  
**staggered HDR**

Up to  
**3** concurrent  
cameras



**1080p120**  
slow  
motion

**intel**

# Best-in-class Wireless for AI PCs

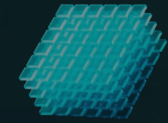
Powered by Panther Lake

Breadth of innovations

Platform integration

Coordinated development in tandem with Intel AI PC platforms

The only full-service PC wireless vendor



Testing  
Platform level validation & performance testing



Manageability  
SIPP with vPro manageability



Security  
Highest level security protocols supported (WPA3, FIPS)

Maximized standards support



20+ years

Delivering PC platform wireless solutions

120+ positions

Leadership positions across wireless technology industry groups



Expansive ecosystem  
Across OSVs, ISVs, OEMs & IHVs

Nearly 2B units of lifetime volume

For unmatched PC connectivity footprint

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

"...the benchmark for industry engagement by Wi-Fi client-side chipset vendors is Intel." Claus Hetting, Wi-Fi NOW, Sep'25

# Panther Lake

Scaling platform performance & efficiency

vs. Lunar Lake

>10%

more **ST performance**  
at similar power

**CPU**

vs. Lunar Lake

>50%

more **MT performance**  
at similar power

**CPU**

vs. Arrow Lake

>30%

lower power at  
similar MT performance

**CPU**

vs. Lunar Lake  
& Arrow Lake

>50%

more performance

**GPU**

vs. Lunar Lake

>40%

more **TOPS/area**

**NPU**

vs. Lunar Lake

1.5W

reduction in power  
with HW staggered HDR

**IPU**

vs. Lunar Lake  
Up to

10%

lower power

**SoC**

vs. Arrow Lake

40%

lower power

**SoC**



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

# Panther Lake Architecture Scalability

Majority of compute engines on compute tile

All I/O IP on PCD tile

Separated GPU tile

Foveros 2.5D packaging

Same package across all designs



# Panther Lake 8 core

**Compute tile**

Built on

intel 18A

CPU

up to  
**8**  
cores

**P-cores**  
**4**  
Cougar Cove

**LP E-cores**  
**4**  
Darkmont

xPU

**IPU 7.5**  
Image signal processor

**NPU 5**

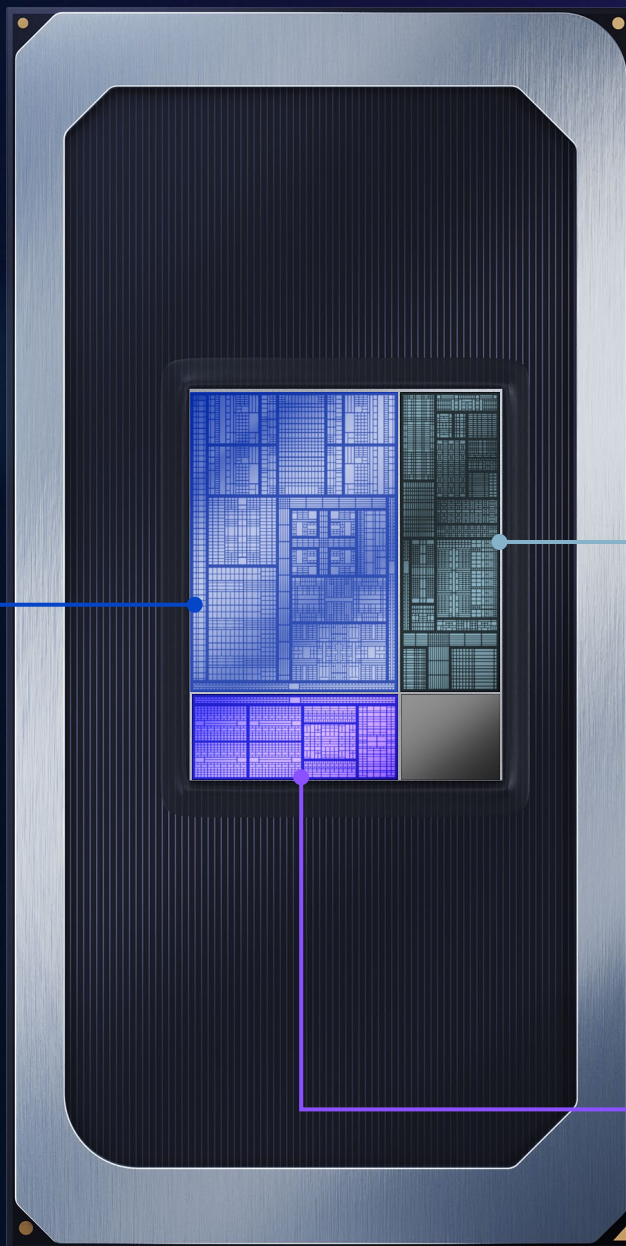
**Xe**  
Media & display engines

Memory

Up to  
**6800 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

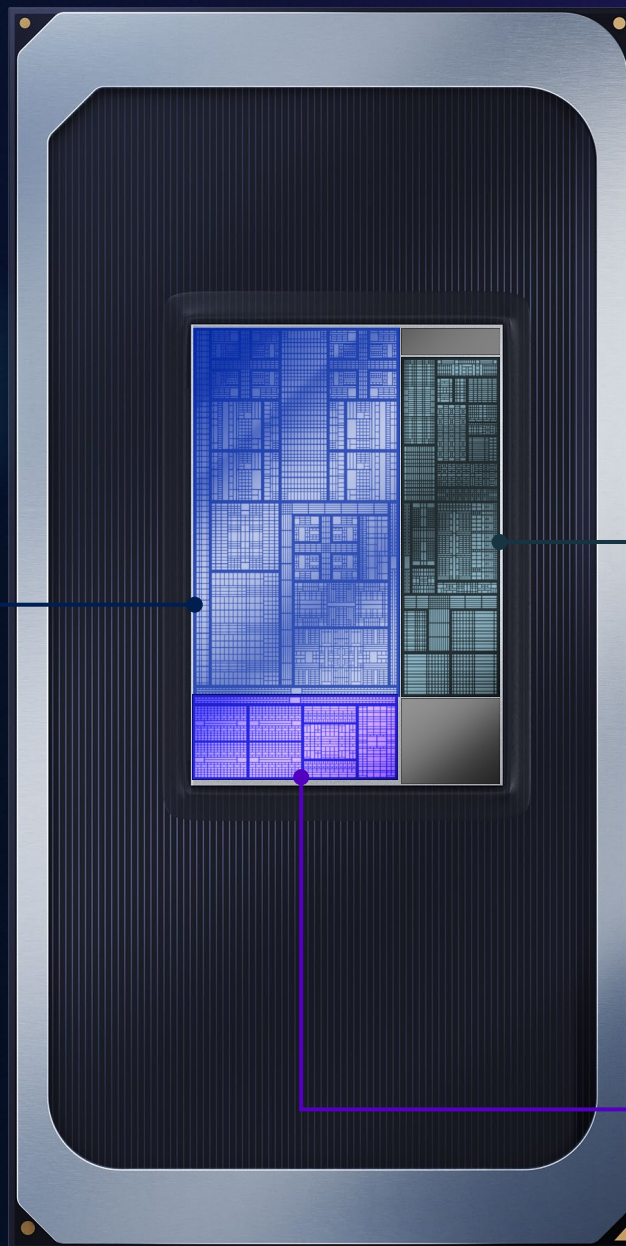
intel 3

**Xe3**  
Architecture

**4**  
Xe-cores

**4**  
Ray tracing units

# Panther Lake 16 core



# Panther Lake

## 16 core 12Xe

**Compute tile**

Built on

intel 18A

CPU

up to  
**16**  
cores

P-cores  
**4**  
Cougar Cove

E-cores  
**8**  
Darkmont

LE E-cores  
**4**  
Darkmont

xPU

IPU 7.5  
Image signal processor

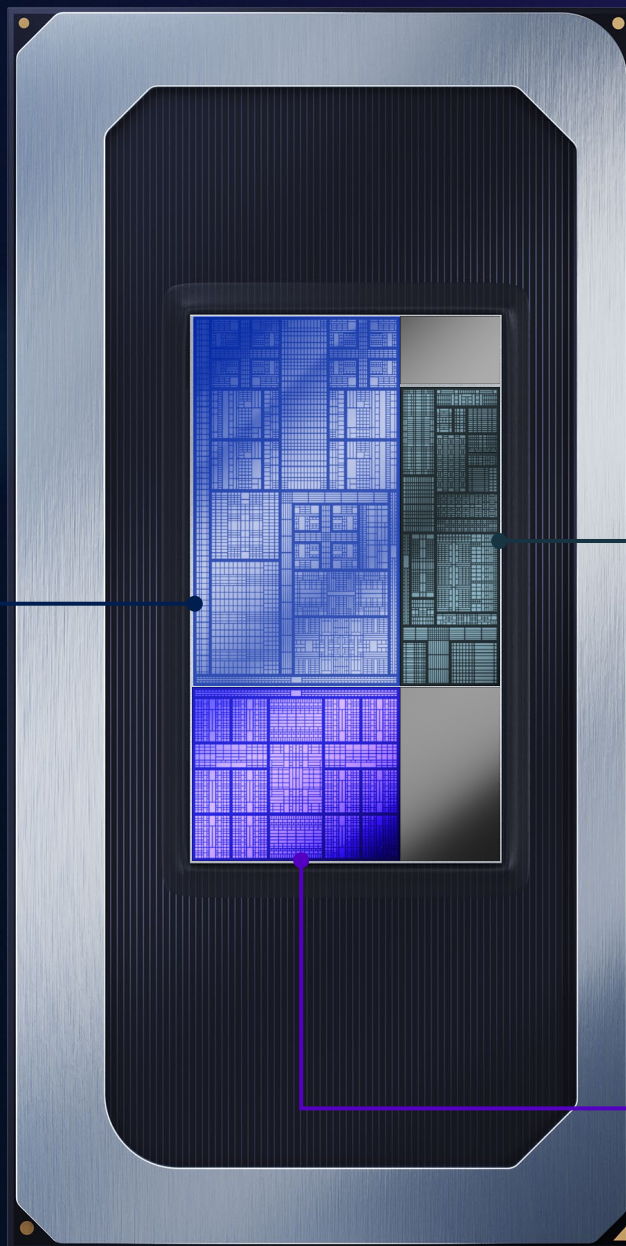
NPU 5

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

Up to  
**16**  
CPU cores

Up to  
**96GB**  
LPDDR5

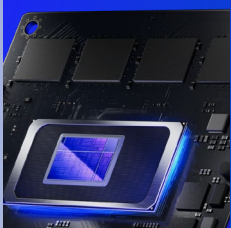
Next-gen  
IPU 7.5

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

Next-gen  
NPU 5

New  
Xe3 GPU

**XeSS**  
Multi-Frame  
Generation



  
Integrated  
Thunderbolt™ 4

# Panther Lake

Built for scale

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

**8c**  
**4Xe**

**16c**  
**4Xe**

**16c**  
**12Xe**

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**

# Panther Lake

AI PC Excellence at Scale

vs. Lunar Lake  
& Arrow Lake

>50%  
more performance

**GPU**

vs. Lunar Lake

>50%  
more **MT performance**  
at similar power

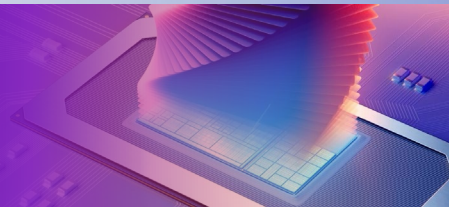
**CPU**



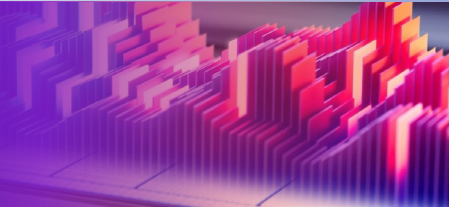
Core  
performance



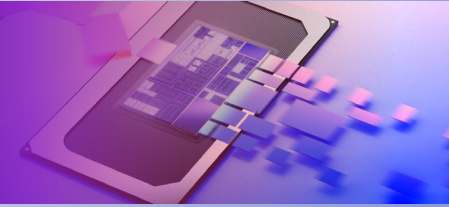
Game-changing  
graphics



Leading  
AI experiences



Power  
efficiency



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

The Intel logo, consisting of the word "intel" in white lowercase letters on a blue square background.

intel

The logo for TECH.tour.us, with "TECH" in bold white uppercase letters and ".tour.us" in white lowercase letters below it.

TECH.  
tour.us

The words "Thank you" in a large, white, italicized serif font, centered on a dark blue rectangular background.

*Thank  
you*

# Appendix

| Claim                                                                                                             | Claim Details/Citation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| >50% more CPU & GPU performance vs. Lunar Lake & Arrow Lake                                                       | <p>Testing by Intel as of September 2025.</p> <p>Data based on Panther Lake reference validation platform measurement vs Lunar Lake &amp; Arrow Lake reference validation platform(s) as estimated by SPECrate®2017_int_base (n-copy) for long-term expected steady state processor power consumption.</p> <p>Data based on Panther Lake reference validation platform measurement vs Lunar Lake and Arrow Lake-H reference validation platforms as measured by 3Dmark Solar Bay, Cyberpunk 2077 and Borderlands 3.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Best-in-class Wireless for AI PCs                                                                                 | <p>The Intel® Wi-Fi 7 (5 Gig) wireless solution available for the new Intel® Core® Ultra (series 3) AI PC platforms is best-in-class based on: support for optional performance-enhancing features of the latest unlicensed wireless standards (Wi-Fi 7 R2, Bluetooth® Core 6.0); PC-first focused wireless solution design, technology integration, and coordinated development in tandem with Intel AI PCs; extensive end-to-end platform-level wireless validation and performance testing; breadth of Intel platform connectivity innovations: new features, software applications, telemetry, analytics, and power savings; support for the highest levels of industry standards-based security protocols (WPA3, FIPS), and support for SIPP with vPro manageability (Active Management Technology); Intel is the only full-service PC WLAN card vendor (Silicon, M.2 cards, BIOS, drivers, software, world-wide regulatory services, safety testing, standards certification, supply-chain, logistics, and OEM &amp; end-user customer support); expansive connectivity ecosystem enabling and interoperability testing (OSV/ISV/PC OEM/IHV); wireless Industry leadership as measured by a history of more than 20 years of delivering wireless solutions for Intel PC platforms and more than 120 leadership positions across wireless technology industry groups; and the nearly 2 billion unit global lifetime footprint of Intel® processor-based PC clients with Intel® WLAN since the initial launch of the Intel® Centrino® platform in 2003. Learn more at <a href="https://intel.com/wireless">intel.com/wireless</a>.</p> |
| Dual Bluetooth Superior Range<br>- Nearly 2x better vs previous gen<br>- Increasing range by an additional 1.5-2x | Intel Taiwan Wireless Test Facility; Clients: (Intel) PTL RVP - Intel Whale Peak, BE200, AX211 – 23.90.24304 - Windows 11 24H2, (QCOM) Asus Vivobook S 15 – Qualcomm Snapdragon X Elite – FC7800 – 1.0.404.8300 - Windows 11 24H2;<br>Speaker - Harmon Kardon Luna Speaker; Playback Application – Microsoft Media Player                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| IPU 7.5                                                                                                           | IPU 7.5 is available on select systems. OEM enablement required. Check with OEM or retailer for system configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| >10% more ST performance at similar power vs. Lunar Lake                                                          | Testing by Intel as of September 2025. Data based on Panther Lake reference validation platform measurement vs Lunar Lake & Arrow Lake reference validation platform(s) as estimated by SPECrate®2017_int_base (l-copy) for long-term expected steady state processor power consumption.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| >50% more MT performance at similar power vs. Lunar Lake                                                          | Testing by Intel as of September 2025. Data based on Panther Lake reference validation platform measurement vs Lunar Lake reference validation platform(s) as estimated by SPECrate®2017_int_base (n-copy) for long-term expected steady state processor power consumption.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| >30% lower power at similar MT performance vs. Arrow Lake                                                         | Testing by Intel as of September 2025. Data based on Panther Lake reference validation platform measurement vs Lunar Lake & Arrow Lake reference validation platform(s) as estimated by SPECrate®2017_int_base (n-copy) for long-term expected steady state processor power consumption.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| >50% more performance vs. Lunar Lake & Arrow Lake                                                                 | Testing by Intel as of Sept 2025. Data based on Panther Lake reference validation platform measurement vs Lunar Lake and Arrow Lake-H reference validation platforms as measured by 3Dmark Solar Bay, Cyberpunk 2077 and Borderlands 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| >40% more TOPS/area vs. Lunar Lake                                                                                | As measured by comparing peak TOPS to measured die area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1.5W reduction in power with HDR staggered HDR vs. Lunar Lake                                                     | Power reduction is dependent on resolution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Up to 10% lower power vs. Lunar Lake                                                                              | Testing by Intel as of September 2025. Data based on Panther Lake reference validation platform measurement vs Lunar Lake & Arrow Lake reference validation platform(s) as estimated by SPECrate®2017_int_base (l-copy) for long-term expected steady state processor power consumption.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 40% lower power vs. Arrow Lake                                                                                    | Testing by Intel as of September 2025. Data based on Panther Lake reference validation platform measurement vs Lunar Lake & Arrow Lake reference validation platform(s) as estimated by SPECrate®2017_int_base (l-copy) for long-term expected steady state processor power consumption.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |