

Accelerate Business Results with HP and Intel®



HP devices with Intel vPro® platform powered by Intel® Core™ Ultra processors (Series 2), provide a premium, secure, commercial-grade solution that helps organizations achieve better business outcomes.

Extraordinary Performance



2X Performance per watt gen on gen¹
3X AI Performance gen on gen²

Unparalleled Security



Reduced attack surface >70%³
150 Intel vPro® hardware-based security mitigations⁴
Intel vPro® Security compliments HP Wolf Security by mitigating potential security threats

Unmatched AI Compute



20+ ISV solutions using AI on Intel xPUs, most in industry
>400 AI PC ISV optimized features
99.7% Windows 11 Pro application compatibility⁵

Enhanced Connectivity



Premium connectivity with Intel® Wi-Fi 7 (5 Gig) and Intel® Connectivity Performance Suite
Up to 120 Gbps with discrete Thunderbolt™ 5
No hardware changes up to nine quarters depending on the SOC and flexible software updates⁶

Extreme Efficiency



Enables best battery life in x86⁷
Up to 50% power efficiency gen on gen¹
Enables up to 20% more productivity vs. 3-year-old PC⁸

213%

Intel vPro® platform can provide 213% ROI over a 3-year period⁹

EPEAT Silver or Gold status



Minimize costly downtime with HP Command and Intel vPro®

intel
CORE
ULTRA

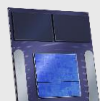
intel
XEON

An HP Portfolio Built for Every Business User

HP offers a lineup of leadership products across the HP EliteBook, HP ProBook, and HP ZBook platforms; each serving different user needs and featuring Intel vPro® built with Intel® Core™ Ultra processors (Series 2) for AI PCs and Intel® Xeon® processors for HP ZDesk workstations.

Intel® Core™ Ultra 200V series processor

Powering the next gen AI PC



V-SKU

Intel's most efficient, most secure, high performing mobile processor¹⁰ in the HP commercial portfolio

Intel® Core™ Ultra 200U/H/HX/S series processors

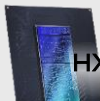
Scale up performance & efficiency to empower AI PCs in more forms than ever, from laptops to desktops and workstations



U-SKU



H-SKU



HX-SKU



S-SKU

AI PCs in scale for on-the-go mobile workers

Mobile AI PCs for content creators and developers with high compute needs

High performance AI mobile workstations for technical creators

Versatile AI PCs for desktop computing environments

Intel® Xeon® W-3500 and W-2500 processors⁺

Powers the ultimate HP Precision workstations for the most demanding, compute-intensive tasks



Designed for AI development and high-end power users requiring performance and business stability

Can enable **20+ hours** of battery life¹¹

while performing Microsoft Office applications

Up to **5X** faster wireless¹²

Up to **99** platform TOPS

Up to **40%** performance / watt¹³

Intel's **1st NPU** for desktops

Up to **83%** faster in product development workloads¹⁴

The Right HP PC for the Job

Business
End-users
needs



Mainstream (HP ProBook 4, 6)	Premium (HP EliteBook 8, X, X Flip, Ultra)	High Performance (HP ZBook 8, X, NBX, Fury)
Routine Workers	Knowledge Workers Modern Leader	Specialized
Ease of use / peace of mind	Efficiency & control	Specific needs (demanding tasks), self expression
▪ Collaborative experience ▪ Fast, reliable PCs ▪ Save time to focus on higher-value tasks ▪ Gain time with AI personal assistant	▪ Be mobile without limits on battery life ▪ Enhanced connectivity for hybrid collaboration ▪ Gain time with faster, more responsive PCs and new AI-driven apps	▪ Premium computing for data-intensive and performance-hungry workloads ▪ Accelerate creative process ▪ Power large AI development and inferencing workloads

IT needs to prioritize security in every aspect of their infrastructure and compute endpoints without compromising performance



intel
vPRO

- Ensure devices meet employee satisfaction and productivity needs
- Provide robust device security against evolving threats below the OS
- Efficient, streamlined operations for proactive and reactive fleet management

HP Mobile PC/
Workstation



HP 4, 6, 8, & ZBook 8
with Intel® Core™ Ultra
200U series processor
with Intel vPro®

HP Ultra, X, X Flip and 8
with Intel® Core™ Ultra
200V series processor
with Intel vPro®

**Analysts: HP 8, ZBook 8, X
and NBX with Intel®
Core™ Ultra 200H series
processor with Intel vPro®**

HP Desktop/
Stationary
Workstation



HP Prodesk 4 desktop
with Intel® Core™ Ultra
200S series processor
with Intel vPro®

HP Elitedesk 8 with Intel®
Core™ Ultra
200S series processor
with Intel vPro®

**Analysts: HP Z2 G1i
desktop with Intel® Core™
Ultra 200S series processor
with Intel vPro®**

**Technical Creators: HP Z
4, 6 and Z 8 and Z8 Fury
workstations Intel®
Xeon® W-3500 / W-
2500 processors+**

Why an HP PC with Intel vPro® matters

\$9.36M

average cost of a security breach
in the U.S., which far exceeds
the up-front expense of an
organizational PC refresh¹⁵



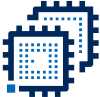
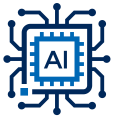
71%

companies are
permanently
allowing some type
of remote work¹⁶

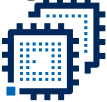


- Supercharged productivity and creativity
- Local data protection and automated security scans
- Predictive, proactive, self-healing AI for IT operations

HP Laptop Intel Processor Specifications

	Intel® Core™ Ultra 200V series processor Available on HP Ultra, HP X, X Flip and 8	Intel® Core™ Ultra 200U series processor Available on HP 4, 6, 8 and ZBook 8	Intel® Core™ Ultra 200H series processor Available on HP ProBook 4 EliteBook 6 and 8 ZBook 8 X, HP Z NBX	Intel® Core™ Ultra 200HX series processor Arriving in March '25 on HP Fury!
Workloads Definitions	Intel's most efficient, most secure, high performing mobile processor ¹⁰	AI PCs in scale for on-the-go workers	Mobile AI PCs for analysts and content creators with high compute needs	High-performance AI mobile workstations for technical creators
CPU 	8 cores (4P + 4LPE) 5 TOPS CPU	Up to 12-core Hybrid config (2P + 8E + 2LPE) up to 4 TOPS CPU	Up to 16-core Hybrid config (6P+8E+2LPE) up to 9 TOPS CPU	Up to 24-core Hybrid config (8P+16E) up to 15 TOPS CPU
AI Compute 	Intel's premium AI PC 48 TOPS NPU Up to 120 platform TOPS 350+ AI features & Microsoft Copilot+	Second generation AI PC 12 TOPS NPU Up to 24 platform TOPs 350+ AI features	Improved integrated AI across XPU 13 TOPS NPU Up to 99 platform TOPS 350+ AI features	Integrated Intel NPU AI accelerator 13 TOPS NPU Up to 36 platform TOPS 350+ AI features
Graphics 	Next gen Xe2 architecture up to 8 Xe2 cores Intel® Arc™ GPU 67 TOPS GPU	Intel® Graphics Xe LPG architecture 4 Xe cores 8 TOPS GPU	New Intel Xe LPG+ graphics architecture Up to 8 Xe cores Intel® Arc™ GPU 77 TOPS GPU	Intel® Graphics Xe LPG architecture 4 Xe cores 8 TOPS GPU
Connectivity 	Integrated: Intel® Wi-Fi 7 (5 Gig)	Integrated: Intel® Wi-Fi 7 (5 Gig)	Integrated: Intel® Wi-Fi 7 (5 Gig)	Integrated: Intel® Wi-Fi 6E (Gig+) Discrete: Intel® Wi-Fi 7 (5 Gig)
	Integrated: Thunderbolt™ 4	Integrated: Thunderbolt™ 4	Integrated: Thunderbolt™ 4 Support discrete: Thunderbolt™ 5	Integrated: Thunderbolt™ 4 Support discrete: Thunderbolt™ 5
	Integrated: Bluetooth™ 5.4	Integrated: Bluetooth™ 5.4	Integrated: Bluetooth™ 5.4	Integrated: Bluetooth™ 5.4

HP Desktop Intel Processor Specifications

	Intel® Core™ Ultra 200S series processor for Desktop Available on HP Prodesk 4, Elitedesk 8 and HP Z2 GiI	Intel® Xeon® W-2500 processors for Mainstream Stationary Workstation Available on HP Z 4, 6 8 and 8 Fury workstations	Intel® Xeon® W-3500 processors for Expert Stationary Workstation Available on HP Z 4, 6 8 and 8 Fury workstations
Workloads Definitions	Versatile AI PCs for desktop computing environments	Premium computing for data-intensive and performance-hungry workloads	
CPU 	Up to 24 cores (8P+16E) Up to 15 TOPS CPU	Up to 26 cores (26P+0E) Up to 52 Threads	Up to 60 cores (60P+0E) Up to 120 Threads
AI Compute 	Integrated Intel NPU AI accelerator 350+ AI features 13 TOPS NPU Up to 36 platform TOPS	Intel® AMX ¹⁷ Instructions: bfloat16 & Int8 data types Intel® Deep Learning Boost: VNNI (CPU) Up to 175.4 platform TOPS	Intel® AMX ¹⁷ Instructions: bfloat16 & Int8 data types Intel® Deep Learning Boost: VNNI (CPU) Up to 274.2 platform TOPS
Graphics 	Intel® Graphics Up to 4 Xe ^e cores Support for discrete Intel® Arc™ GPU 8 TOPS GPU	No integrated graphics support Support for up to 3x discrete graphics cards	No integrated graphics support Support for up to 4x discrete graphics cards
Memory 	2CH DDR5 UDIMM Supports up to 6400 Mt/s Up to 192GB memory	4CH DDR5 ECC RDIMM Supports up to 4800 Mt/s Up to 2TB memory	8CH DDR5 ECC RDIMM Supports up to 4800 Mt/s Up to 4TB memory
Connectivity  	Integrated: Intel® Wi-Fi 6E (Gig+) Optional discrete: Intel® Wi-Fi 7 (5 Gig)	Integrated: Intel® Wi-Fi 6E (Gig+) support	Integrated: Intel® Wi-Fi 6E (Gig+) support
	Integrated: Thunderbolt™ 4 Optional discrete: Thunderbolt™ 5	Optional support: Thunderbolt™ 4 Thunderbolt™ 5	Optional support: Thunderbolt™ 4 Thunderbolt™ 5
I/O 	PCIe Gen 5.0, 16 lanes PCIe Gen 4.0, 8 lanes	CPU - PCIe Gen 5.0, up to 64 lanes PCH - PCIe Gen 4.0, up to 16 lanes	CPU - PCIe Gen 5.0, up to 112 lanes PCH - PCIe Gen 4.0, up to 16 lanes

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Intended for Sales Enablement

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*TOPS = Platform Trillions of operations per second. Learn more at [Intel Newsroom](#)

+ Intel® Xeon® provides limited Intel vPro® feature set

For footnotes 1-17, see [www.intel.com/PerformanceIndex](#) for workloads and configurations. Results may vary.

1. 2X Performance per Watt and up to 50% power efficiency gen on gen: As measured by processor power during UL Procyon Office Productivity benchmark on an Intel® Core™ Ultra 9 processor 288V vs. an Intel® Core™ Ultra 7 processor 165H.
2. 3X AI Performance gen on gen: As measured by UL Procyon AI Computer Vision benchmark using OpenVINO vs. Intel® Core™ Ultra 7 155H.
3. Reduced attack surface >70%: Based on IOActive's "Intel vPro 13th Gen Attack Surface Study" published March 2023 (commissioned by Intel), which evaluates Intel vPro® devices powered by 13th Gen Intel Core processors against 4-year-old Intel-based PCs. Additional details at [www.intel.com/performance-vpro](#).
4. As of December 2024, based on [MITRE data report and blog](#). See [www.intel.com/performance-vpro](#) for details. Results may vary.
5. 99.7% Windows 11 Pro application compatibility: Microsoft Azure program data from October 2018 to February 2022.
6. No hardware changes up to nine quarters depending on the SOC (5Q for most products, 9Q for products refreshed on a two-year cadence)
7. Best battery life in x86: As measured by UL Procyon Battery Life Office Productivity test. Results as of August 2024. Tested on the same OEM, 14-16" chassis, 1080p display, ~75Whr battery.
8. Enables up to 20% more productivity: As measured by Procyon Office Productivity benchmark on Intel Core Ultra 7 268V vs. Intel Core i7 1280P. Individual system results may vary as power and performance are affected by use, configuration and other factors. Testing by Intel as of 12/15/2024.
9. Intel vPro® platform can provide 213% ROI over a 3-year period: Forrester, The Total Economic Impact™ (TEI) of The Intel vPro® Platform, January 2024 study commissioned by Intel. The TEI study and results are based on a composite organization with 10,000 employees and PCs, with some purchases of Intel vPro® platform devices already completed.
10. Refers to Intel Core Ultra 200V series processors, based on the unique hardware-based security features, unrivaled combination of above and below the OS security capabilities, and impressive performance, even at lower power compared to prior generation. Workload description: As of August 2024, based on Intel Core Ultra Series 2 processors' unique architecture, hardware-based security features, unrivaled combination of above and below the OS security capabilities, and impressive performance even at lower power, including in comparison to prior generation, as measured by:
 - Strong performance across CPU, GPU, and NPU
 - Lower processor power consumption during typical user scenarios on Microsoft Teams, Netflix, YouTube, and Web browsing
 - Reduced processor power that enables longer battery life
 - Security by design principles, prudent handling of vulnerabilities, a robust Intel Platform Update process, an esteemed bug bounty program, as well as internal research through red teams and more. Learn more at [intel.com/security](#).
11. 20+ hrs battery life: - sed on measured battery life of HP EliteBook X G1i – 68Wh by UL Procyon Battery Life Benchmark - Office Productivity subscore for Intel Core Ultra Core 7 268V. System performance will vary significantly with different battery capacity, screen type and other OEM design factors
12. For details, see [intel.com/performance-wireless](#). Results may vary. Based on the theoretical maximum data rate under IEEE 802.11 standards for 2x2 Wi-Fi 7 devices using 80/160 MHz channels in 6 GHz as compared with 2x2 Wi-Fi 6 devices using 20/40 MHz channels in 5 GHz which is typical for business networks.
13. Up to 40% performance/watt - As measured by Cinebench 2024 multi-core benchmark on an Intel Core Ultra 9 processor 285HX vs. an Intel Core i9 processor 14900HX. Individual system results may vary as power and performance are affected by use, configuration, and other factors. Testing by Intel as of 1/3/2025.
14. Up to 83% faster in product development workloads: Based on estimations of SPECworkstation 3 Product Development – CPU score results on Intel Xeon w7-2595X processor vs. Intel Xeon W-2295 processor.
15. 9.36M average cost of a security breach: Statista. Average Cost of a Data Breach in the United States from 2006 to 2024. [Link](#)
16. 71% companies are permanently allowing some type of remote work: Buffer, State of Remote Work 2023 – [https://buffer.com/state-of-remote-work/2023](#)
17. Intel® Advanced Matrix Extensions (Intel® AMX)

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

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

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

All versions of the Intel vPro® platform require an eligible Intel processor, a supported operating system, Intel LAN and/or WLAN silicon, firmware enhancements, and other hardware and software necessary to deliver the manageability use cases, security features, system performance, and stability that define the platform. See [http://www.intel.com/Performance-vPro](#) for details.

No product or component can be absolutely secure.

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

Intel is committed to the continued development of more sustainable products, processes, and supply chain as we strive to prioritize greenhouse gas reduction and improve our global environmental impact. Where applicable, environmental attributes of a product family or specific SKU will be stated with specificity. Refer to Intel Corporate Responsibility Report ([https://csrreportbuilder.intel.com/pdfbuilder/pdfs/CSR-2023-24-Full-Report.pdf](#)) or visit [www.Intel.com/2030goals](#) for further information.

Intel® Arc™ graphics only available on select Intel® Core™ Ultra processor-powered systems. OEM enablement required. Check with OEM or retailer for system configuration.

While Wi-Fi 7 is backward compatible with previous generations, new Wi-Fi 7 features require PCs configured with Intel Wi-Fi 7 solutions, PC OEM enabling, operating system support, and use with appropriate Wi-Fi 7 routers/APs/gateways. 6 GHz Wi-Fi 7 may not be available in all regions. Performance varies by use, configuration, and other factors.

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