Intel vPro®
with Intel® Core™ Ultra Processors
2024: Refresh your PC Fleet now, be AI ready

Introducing Intel® Core™ Ultra for Business End Users

- Biggest architecture update in 40 years
- Ushering in AI PC era

Raising the bar with Intel vPro® for IT

- Bringing productivity, security, manageability, and stability to help IT manage PC transitions with confidence

New Experiences

AI PC Acceleration Program

100+ ISVs addressing what business users want and need

Windows 11 Pro

Copilot
Commercial Client Portfolio

For Employees of Businesses of all sizes

NEW

Notebook

NEW

Desktop
New AI PC
Era Powered by
Intel® Core™ Ultra
Processors

The Biggest Architecture Update
In 40 Years Driving the Future of
Computing at All Organizations
Introducing Intel® Core™ Ultra Processors for Business Users

Up to **47%** better office app productivity vs 3-year-old PC

Up to **36%** processor power reduction gen-over-gen for video conferencing

Up to **2.2x** AI performance gen-over-gen for video editing

1. Intel® Core™ Ultra 7 165H vs. 11th Gen Intel® Core™ i7-1185G7
2. Intel® Core™ Ultra 7 165U vs. 13th Gen Intel® Core™ i7-1365U

See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
Significant Productivity Gain Over 3-year-old PC

Up to 47%

better office application productivity vs. 3-year-old PC

See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
Leadership Productivity Performance

Up to 27% better productivity vs. AMD

See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
Intel’s Most-efficient Client Video Conferencing\(^1\)

Up to 36% processor power reduction

gen-over-gen for video conferencing

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1. Refers to Intel® Core™ Ultra processors powering ultrathin systems, based on processor power measurements (as of February 2024). See intel.com/performanceindex for details. Results may vary.
Best-in-Class Video Conferencing

Up to 21% lower processor power vs. AMD on video conferencing applications

1. Among x86 Windows-based processors powering ultrathin systems (as of Feb. 2024), based on impressive performance, unique architecture, and extensive AI-enabled advancements that combine to deliver the best overall video conferencing experience in comparison to competition. May require additional purchase or specific compatibility requirements. See intel.com/performanceindex for details. Results may vary.
Intel® Core™ Ultra brings AI PC to business
What is an AI PC?

A PC with Intel® Core™ Ultra that brings new AI experiences in productivity, creativity, and security through a combination of the CPU, GPU, and the new NPU.
## New AI Experiences

### Collaboration
- Smart framing
- Background removal
- Eye tracking
- Noise suppression

### Productivity
- Document draft
- Live captions
- Meeting Transcriptions

### Security
- Anti-Phishing
- Memory scanning
- Security ML on device
- Ransomware detection

### Content Creation
- Video editing
- Rendering
- Text to Image effects
- Text to Audio effects

### Accessibility
- Audio transcription
- American Sign Language Translation

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AI features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Learn more at intel.com/aipc. Performance varies by use, configuration and other details.
Al Runs
Best on Intel

3 AI ENGINES:

CPU

GPU

NPU

Up to 2.2x
AI Performance
gen-over-gen

Intel® Core™ Ultra 7 165U vs.
13th Gen Intel® Core™ i7-1365U

Up to 3.4x
AI Performance on vs
AMD on Procyon AI

Intel® Core™ Ultra 7 165U vs.
AMD Ryzen™ 7 7840U

1. Refers to laptop applications on Intel® Core™ Ultra processors, based on the broad compatibility, extensive software options, unique architecture, and impressive performance that combine to deliver the best overall AI experience, including in comparison to competition processors (as of February 2024). AI features may require additional purchase or specific compatibility requirements. See intel.com/performanceindex for details. Results may vary.
Intel® Core™ Ultra processors deliver the best AI PC experience¹

Up to

2.2x

AI Performance gen-over-gen

1. Based on the broad compatibility, extensive software options, unique architecture, and impressive performance of Intel® Core™ Ultra processors that combine to deliver the best overall AI experience, including in comparison to competition processors (as of February 2024). AI features may require additional purchase or specific compatibility requirements. See intel.com/performanceindex for details. Results may vary.
Workstation

The Halo products in the commercial client portfolio
Workstation Portfolio
For Engineers, Professional Creators, Data Scientists and Power Users

NEW

Expert & Mainstream

Mobile & Entry Desktop
Slim & Powerful Mobile Workstations

**Available built-in Intel® Arc™ GPU & Arc™ Pro Driver**

- Built-in AI
- Built-in RT
- Encode & Decode AV1

**PRO ISV Certified Graphics**

- Autodesk
- Bentley
- SOLIDWORKS
- Siemens
- ptc
- Vectorworks

To see the full list of ISV Certified applications visit: [Intel.com/support/CertifiedGraphics](https://Intel.com/support/CertifiedGraphics)
Winning Application Performance for Designers & Engineers

Up to 12x Better performance gen-over-gen

See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
Intel vPro®
Raising the bar with Intel vPro® for IT
The Intel vPro® Platform
Built for Business. Delivers what users want and what IT needs.

Productivity
✓ New AI experiences
✓ Premium connectivity solutions
✓ Leadership performance & longer battery life

Security
✓ Silicon assisted threat detection
✓ Comprehensive attack prevention
✓ Best-in-class security practices

Manageability
✓ Increased visibility into each endpoint
✓ Proactive and reactive maintenance
✓ New cloud-native solutions

Stability
✓ Application Compatibility
✓ Comprehensive platform validation
✓ Deployment with confidence

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1. As of February 2024, based on 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.
Connectivity with Intel® Platform Technologies

**Wireless Connectivity**
- Available Intel® Wi-Fi 7 (5 Gig)
- Intel® Bluetooth® LE Audio

Faster and more responsive connectivity, optimized for collaboration and more secure cloud-connected work from anywhere

**Wired Connectivity**
- Intel® Thunderbolt™ 4
- Intel® Ethernet

Engineered for enterprise and the hybrid workforce, validated accessories for best-in-class connectivity

**Software**
- Intel® Connectivity Performance Suite
- Intel® Connectivity Analytics

Intelligent connection manager and unique insights resulting in optimized experiences

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1. All features available on Windows only. Not all features are available across all Intel vPro® offerings
2. As of February 2024, details at intel.com/performance-wired. Results may vary.
Security with Intel vPro® Platform

**ENHANCED**

**ABOVE THE OS**

**Intel® Threat Detection Technology**

Only AI-based security in deployment across a windows PC

**ENHANCED**

**OS LAYER**

**Windows 11 Pro**

Enabling comprehensive silicon security on Windows 11 Pro

**NEW**

**BELOW THE OS**

**Intel® Silicon Security Engine**

Critical security partitioning with dedicated hardware for firmware authentication
Risk Reduction with Intel vPro® Security

Intel vPro® silicon security offers an estimated 70% attack surface reduction vs 4-year-old devices¹

21% Fewer impactful security events²

26% Lower risk of major PC-related security events²

+17% security team efficiency gains²


1. 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 four-year-old Intel-based PCs.

2. Based on IDC’s “The Business Value of Intel Security for PCs” report published March 2023 (commissioned by Intel), which cites greater reported efficiencies around security-related implementations and responses with Intel-based PCs versus other PCs.
Device Visibility with Intel vPro® Platform

**NEW**

**Intel® Device Discovery**

Enables remote query of PCs to collect identity, history, features and capabilities

- **Intel® Unique Platform ID**
  - Identify the system

- **Intel® Platform Brand Identity**
  - Make systems features discoverable over a network

- **Intel® Platform Service Record**
  - PC history and wear/tear data

**NEW**

**Intel® Device Health**

Visibility into fleet patching requirements against known vulnerabilities

- eclypsium™
- Workspace ONE™

**Intel® Innovation Platform Framework Manageability Providers**

Helps applications easily discover and interact with platform features

All features available on Windows only. Not all features are available across all Intel vPro® offerings.
Manageability with Intel vPro® Platform

**Intel® Active Management Technology**
Remote access to a PC even if powered down, the OS is unavailable, or the user is not present

**Intel® Endpoint Management Assistant**
Enterprise-class software for managing Intel vPro® Enterprise PCs

**Cloud-Native Management**
Software-as-a-Service to manage Intel vPro® Enterprise PCs, ready for integration into third party solutions
Stability with Intel vPro® Platform

**Stable IT Platform Program**
A stable platform that IT can qualify once then deploy with confidence\(^1\)

**Comprehensive Validation**
Spans all Intel® hardware, all software, and all Intel vPro® security and manageability use cases

**Windows 10 & Windows 11**
Support for multiple OS versions to help IT transition at their own pace

**99.7%**
Windows 11 Pro application compatibility\(^2\)

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1 Refers to Intel vPro® Enterprise only
2 Microsoft App Assure program data from Oct 2018 to Feb 2022
ROI with Intel vPro® Platform

213% ROI over 3-year period at organizations maintaining Intel vPro® as their endpoint standard.

Easier Endpoint device setup & management:
- Up to 30% less time to deploy vs a non-Intel vPro®-based device

Giving time & resources back to IT:
- Up to 90% Reduction in hardware related onsite visits
- Up to 40% Fewer device related help desk tickets
- Up to 83% Faster hardware related issues resolution

65% less time to manage Intel vPro® devices than non-Intel vPro® devices.

All figures above are estimated based on Intel-commissioned study with Forrester that surveyed 500 corresponds with experience using Intel vPro® as their endpoint standard, “The Total Economic Impact™ Of Intel vPro,” January 22, 2024.
Sustainability with Intel vPro® Platform

A single use of Intel vPro® to support a PC remotely, instead of dispatching a technician via truck, can save carbon emissions equal to 2 years of use of that PC.

94%
Intel vPro® devices registered on EPEAT are Silver or better

71%
Achieved EPEAT Gold certification

up to 90%
Reduced on-site service calls with remote manageability, resulting in up to 368,000kg less CO2 emissions over 3 years

up to 64%
Lower total energy consumption on Intel® Core™ Ultra based notebooks than ENERGY STAR 8.0 requirements

Intel® Platform Service Record
provides device usage and event details to maximize PC residual value and re-use

See appendix for more information.
Intel vPro® Platform, an Intel® Evo™ Design

Collection of the best designs for both IT and End User Experiences

**Intel vPro®**
- Productivity
- Security
- Manageability
- Stability

**Intel® Evo™ Edition**
- No Compromise Mobile Experience
- Intelligent Collaboration
- Multidevice experience
- Engineered for Intel® Evo™ Accessories

**OVER 30**
Unique Designs Coming This Year
Intel vPro® Platform
with Intel® Core™ Ultra

Delivers productivity, security, manageability and stability

**Up to 36% lower processor power gen-over-gen**

**Up to 12x**
Workstation performance gen-over-gen with Intel®
Arc™ Pro drivers

Intel® Core™ Ultra ushers in the AI PC era for commercial customers, enabling IT to transition with confidence

**Up to 47% better productivity**
vs 3-year-old PC

Single use of Intel vPro® to support a PC remotely can save carbon emissions equal to 2 years of use of that PC

**Up to 2.2x**
AI performance gen-over-gen

Unmatched ISV ecosystem partnership – 100+ ISVs delivering new experiences, Windows 11 Pro & Copilot

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

Up to 70% of attack surface reduction

Up to 36% lower processor power gen-over-gen

Up to 12x
Workstation performance gen-over-gen with Intel® Arc™ Pro drivers

Intel® Core™ Ultra ushers in the AI PC era for commercial customers, enabling IT to transition with confidence

Up to 47% better productivity vs 3-year-old PC

See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.
Available Starting Q1 2024

90+ Commercial Designs with Intel® Core™ Ultra

10+ Designs for Workstation

Manufacturers:
- Acer
- ASUS
- Dell Technologies
- dynabook
- Fujitsu
- HP
- Lenovo
- LG
- Microsoft
- NEC
- Panasonic
- Samsung
- VAIO
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<thead>
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<th>Processor Number</th>
<th>Cores/Threads</th>
<th>P-cores</th>
<th>E-cores</th>
<th>LP E-cores</th>
<th>Intel® Smart Cache (LLC)</th>
<th>Max Turbo Frequency (GHz)</th>
<th>GPU/Max Frequency (GHz)</th>
<th>Xe-cores</th>
<th>Neural Processor</th>
<th>Neural Compute Engines</th>
<th>Max Memory Speed</th>
<th>Maximum Memory Capacity</th>
<th>Process or Base Power (W)</th>
<th>Maximum Turbo Power (W)</th>
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</table>

1. Only available on systems with at least 16GB of system memory in dual channel configuration. Learn more at ark.intel.com.
# Intel® Core™ 14th Gen Processors

## S-Series Desktop

| Processor Number | Processor Cores (P) | Processor Threads (L) | Total L3 Cache | Core Frequencies (GHz) | Turbo Frequencies (GHz) | Processor Frequency (GHz) | Processor Turbo Frequency (GHz) | Processor Base Frequency (GHz) | Processor Base Frequency (GHz) | PCI Express Lanes | DDR Channels | Memory Channels | Memory Capacity | Processor Power (W) | Maximum Turbo Power (W) | Reliability, Availability & Serviceability | Intel® Stable IT Platform Program (Intel® SIPP) | Intel® vPro® Essentials | Intel® ISM | Intel® vPro® Enterprise | Intel® AMT | Intel® ISM | Intel Technologies |
|------------------|-------------------|----------------------|----------------|------------------------|------------------------|--------------------------|----------------------------|-------------------------------|-------------------------------|----------------|--------------|----------------|----------------|----------------|-------------------|---------------------------------|-------------------|------------------|---------------------|---------------|---------------|-----------------|
| Socket LGA 1700 – Performance |
| i9-14900K | 24 (8+16) | 32 | 36 MB | 32 MB | Up to 6.0 | Up to 5.8 | Up to 5.6 | Up to 4.4 | 3.2 | 2.4 | √ | UHD Graphics 770 | Intel® UHD Graphics 770 | DDR5 5600 | DDR4 3200 | 2 | 192GB | 125 | 253 | √ | √ | √ | √ |
| i7-14700K | 20 (8+12) | 28 | 33 MB | 28 MB | n/a | Up to 5.6 | Up to 5.5 | Up to 4.3 | 3.4 | 2.5 | √ | UHD Graphics 770 | Intel® UHD Graphics 770 | DDR5 5600 | DDR4 3200 | 2 | 192GB | 125 | 253 | √ | √ | √ | √ |
| i5-14600K | 14 (6+8) | 20 | 24 MB | 20 MB | n/a | n/a | Up to 5.3 | Up to 4.0 | 3.5 | 2.6 | √ | UHD Graphics 770 | Intel® UHD Graphics 770 | DDR5 5600 | DDR4 3200 | 2 | 192GB | 125 | 181 | √ | √ | √ | √ |

| Socket LGA 1700 – Mainstream |
| i9-14900 | 24 (8+16) | 32 | 36 MB | 32 MB | Up to 5.8 | Up to 5.6 | Up to 5.4 | Up to 4.3 | 2.0 | 1.5 | √ | UHD Graphics 770 | Intel® UHD Graphics 770 | DDR5 5600 | DDR4 3200 | 2 | 192GB | 65 | 219 | √ | √ | √ | √ |
| i7-14700 | 20 (8+12) | 28 | 33 MB | 28 MB | n/a | Up to 5.4 | Up to 5.3 | Up to 4.2 | 2.1 | 1.5 | √ | UHD Graphics 770 | Intel® UHD Graphics 770 | DDR5 5600 | DDR4 3200 | 2 | 192GB | 65 | 219 | √ | √ | √ | √ |

Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

All processors are lead-free (per EU RoHS directive July 2006) and halogen free (residual amounts of halogens are below November 2007 proposed IPC/JEDEC J-STD-079 standards).

All processors support Intel® Virtualization Technology (Intel® VT-x).

1. Processor cores listed first are the total number of cores in the processor. The number of Performance-cores and the number of Efficient-cores are listed in parentheses (P+E).
2. Intel® Hyper-Threading Technology, Intel® Turbo Boost Max Technology 3.0, and Intel® Thermal Velocity Boost are only available on Performance-cores.
3. Efficient-core frequencies are lower to optimize power usage. The frequency of cores and core types varies by workload, power consumption, and other factors. Visit www.intel.com/technology/turboboost for more information.
4. Unlocked features for overclocking are present when paired with the eligible Intel® 600/700 Series chipset SKU. See altering clock frequency or voltage disclaimer on slide 2.
5. Maximum memory speeds are associated with 1 DIMM per Channel (1DPC) configurations. Additional DIMM loading on any channel may impact maximum memory speed. Up to DDR5-5600 MT/s 1DPC UDIMM IRx8, IRx16 and DDR4-5200 IRx8, IRx16, 2Rx8 on select SKUs. Maximum memory capacity is achievable with 2DPC configurations. For additional 2DPC configuration details, refer to the Raptor Lake Processor External Design Specification (EDS). Doc ID 649966.
6. When paired with the eligible Intel® 400 Series chipset SKU (an eligible Intel® 700 Series chipset SKU will not be available), a motherboard with supporting hardware and software, and potential service activation.
7. Eligible for Intel® Stable IT Platform Program (Intel® SIPP) starting with Raptor Lake-S Commercial platform availability.
8. Intel® vPro® Enterprise with Intel® Active Management Technology (Intel® AMT) or Intel® vPro® Essentials with Intel® Standard Manageability (Intel® ISM).

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8. Intel® vPro® Enterprise with Intel® Active Management Technology (Intel® AMT) or Intel® vPro® Essentials with Intel® Standard Manageability (Intel® ISM).
# Intel® Core™ 14th Gen Processors

## S-Series Desktop

<table>
<thead>
<tr>
<th>Processor Number</th>
<th>Core Count (P+E)</th>
<th>Processor Threads</th>
<th>Processor Turbo Frequency</th>
<th>Processor Base Frequency</th>
<th>Processor Graphics</th>
<th>CPU PCIe Lanes</th>
<th>Memory Channels</th>
<th>Maximum Memory Capacity</th>
<th>Processor Base Power (W)</th>
<th>Maximum Turbo Power (W)</th>
<th>Intel® SIPP</th>
<th>Intel® vPro®</th>
<th>Intel® ISM</th>
<th>Intel® Technologies</th>
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<td>i5-14600</td>
<td>14 (6+8)</td>
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<td>20MB</td>
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<td>Up to 5.2</td>
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<td>192GB</td>
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<td>i5-14500</td>
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Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

All processors are lead-free (per EU RoHS directive July 2006) and halogen free (residual amounts of halogens are below November 2007 proposed IPC/JEDEC J-STD-709 standards).

All processors support Intel® Virtualization Technology (Intel® VT-x).

1. Processor cores listed first are the total number of cores in the processor. The number of Performance-cores and the number of Efficient-cores are listed in parentheses (P+E).
2. Intel® Hyper-Threading Technology, Intel® Turbo Boost Max Technology 3.0, and Intel® Thermal Velocity Boost are only available on Performance-cores.
3. Efficient-core frequencies are power to optimize power usage. The frequency of cores and core types varies by workload, power consumption, and other factors. Visit www.intel.com/technology/turboboost for more information.
4. Unlocked features for overclocking are present when paired with the eligible Intel® 600 Series chipset SKU. See altering clock frequency or voltage disclaimer on slide 2.
5. Maximum memory speeds are associated with 1 DIMM per Channel (1DPC) configurations. Additional DIMM loading on any channel may impact maximum memory speed. Up to DDR5-5600 MT/s 1DPC UDIMM 1Rx8, 1Rx16 and DDR5-5200 1Rx8, 1Rx16, 2Rx8 on select SKUs. Maximum memory capacity is achievable with 2DPC configurations. For additional 2DPC configuration details, refer to the Raptor Lake Processor External Design Specification (EDS), Doc ID 640555.
6. When paired with the eligible Intel® 600 Series chipset SKU (an eligible Intel® 700 Series chipset SKU will not be available), a motherboard with supporting hardware and software, and potential service activation.
7. Eligible for Intel® Stable IT Platform Program (Intel® SIPP) starting with Raptor Lake-S Commercial platform availability.
8. Intel® vPro® Enterprise with Intel® Active Management Technology (Intel® AMT) or Intel® vPro® Essentials with Intel® Standard Manageability (Intel® ISM).
Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

All processors are lead-free (per EU RoHS directive July 2006) and halogen free (residual amounts of halogens are below November 2007 proposed IPC/JEDEC J-STD-709 standards).

All processors support Intel® Virtualization Technology (Intel® VT-x).

1. Processor cores listed first are the total number of cores in the processor. The number of Performance-cores and the number of Efficient-cores are listed in parentheses (P+E).

2. Intel® Hyper-Threading Technology, Intel® Turbo Boost Max Technology 3.0, and Intel® Thermal Velocity Boost are only available on Performance-cores.

3. Efficient-core frequencies are lower to optimize power usage. The frequency of cores and core types varies by workload, power consumption, and other factors. Visit www.intel.com/technology/turboboost for more information.

4. Unlocked features for overclocking are present when paired with the eligible Intel® 600/700 Series chipset SKU. See altering lock frequency or voltage disclaimer on slide 2.

5. Maximum memory speeds are associated with 1 DIMM per Channel (1DPC) configurations. Additional DIMM loading on any channel may impact maximum memory speed. Up to DDR5-5600 MT/s/1DPC, DDR4-3200 2DPC.

6. When paired with the eligible Intel® 600 Series chipset SKU (an eligible Intel® 700 Series chipset SKU will not be available), a motherboard with supporting hardware and software, and potential service activation.

7. Eligible for Intel® Stable IT Platform Program (Intel® SIPP) starting with Raptor Lake-S Commercial platform availability.

8. Intel vPro® Enterprise with Intel® Active Management Technology (Intel® AMT) or Intel vPro® Essentials with Intel® Standard Manageability (Intel® ISM).

| Processor Number | Processor Cores (P+E) | Processor Threads4 | Intel® Smart Cache (L3) | Total L2 Cache | Intel® Turbo Boost Max Technology Frequency (GHz)5 | P-core Max Turbo Frequency (GHz)2 | E-core Max Turbo Frequency (GHz)2 | P-core Base Frequency (GHz)1 | E-core Base Frequency (GHz)1 | Unlocked5 | Processor Graphics | CPU PCIe Lanes | Maximum Memory Speed (MT/s)5 | Memory Channels | Maximum Memory Capacity5 | Processor Base Power (W) | Maximum Turbo Power (W) | Reliability, Availability & Serviceability6 | Intel® SIPP7 | Intel vPro®4,8 | Intel® ISM9 | Boxed |
|------------------|-----------------------|-------------------|------------------------|---------------|---------------------------------|------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| i9-14900T        | 24 (8+16)             | 32                | 36MB                   | 32MB          | n/a                             | Up to 5.5         | Up to 5.1        | 1.1              | 0.8             | n/a             | Intel® UHD Graphics 770 | 20                | DDR5 5600 DDR4 3200 | 2                | 192GB           | 35               | 106               | ECC√             | √                | √                | √                |                |
| i7-14700T        | 20 (8+12)             | 28                | 33MB                   | 28MB          | n/a                             | Up to 5.2         | Up to 5.0        | 1.3              | 0.9             | n/a             | Intel® UHD Graphics 770 | 20                | DDR5 5600 DDR4 3200 | 2                | 192GB           | 35               | 106               | ECC√             | √                | √                | √                |                |
| i5-14600T        | 14 (6+8)              | 20                | 24MB                   | 20MB          | n/a                             | Up to 5.1         | Up to 3.6        | 1.8              | 1.3             | n/a             | Intel® UHD Graphics 770 | 20                | DDR5 5600 DDR4 3200 | 2                | 192GB           | 35               | 92                | ECC√             | √                | √                | √                |                |
| i5-14500T        | 14 (6+8)              | 20                | 24MB                   | 11.5MB        | n/a                             | Up to 4.8         | Up to 3.4        | 1.7              | 1.2             | n/a             | Intel® UHD Graphics 770 | 20                | DDR4 3200 DDR4 3200 | 2                | 192GB           | 35               | 92                | ECC√             | √                | √                | √                |                |
Appendix
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<th>Claim # &amp; Statement</th>
<th>Slide # &amp; Title/Details</th>
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<tr>
<td>4. The Biggest Architecture Update in 40 Years Driving the Future of Computing at All Organizations</td>
<td></td>
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</tbody>
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1. The Biggest Architecture Update in 40 Years Driving the Future of Computing at All Organizations

As of February 2024, based on new process technology, broad compatibility, extensive software options, unique architecture, and impressive performance, including AI workloads, of Intel® Core™ Ultra processors including:

- Intel 4 technology
- Broad selection of publicly available applications and proof of concepts
- Ongoing expansion of AI features and ISV-developed applications
- Dedicated AI engine to enable increased security and privacy with local AI processing
- Improved built-in GPU
- Strong AI performance on CPU, GPU, and NPU features, including on UL Procyon AI Inference benchmark

AI features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Learn more at intel.com/aipc. Performance varies by use, configuration and other details.

5. Introducing Intel® Core™ Ultra Processors for Business Users

2. Up to 47% better office app productivity vs. 3-year-old PC

Performance results are based on testing as of February 2024.

Full Configurations:
Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS, Power Plan set to Balanced, Power Mode set to “Best Performance”.

Processor: 11th Gen Core i7 1185G7 processor, 4 Core; tested in Dell Latitude 5420; Memory: 32GB DDR4-3200; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated Intel graphics, Graphics Driver: 31.0.101.4644; BIOS: 1.33.0 Power Plan set to Balanced, Power Mode set to “Best performance”.
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<tr>
<td>5. Introducing Intel® Core™ Ultra Processors for Business Users</td>
<td></td>
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</table>
| 3. Up to 36% processor power reduction gen-over-gen for video conferencing | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 i7-1665U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”.  
Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”.  |
| 4. Up to 2.2x AI performance gen-over-gen for video editing | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 i7-1665U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; ; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Performance”.  |
<p>| 5. Up to 47% better office application productivity vs. 3-year-old PC | See claim #2.  |</p>
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<td>6. Significant Productivity Gain Over 3-year-old PC</td>
<td>Performance results are based on testing as of February 2024. Full Configurations: Processor: Intel Core Ultra 7165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Performance”. Processor: 11th Gen Core i7 1185G7 processor, 4 Core; tested in Dell Latitude 5420; Memory: 32GB DDR4-3200; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated Intel graphics, Graphics Driver: 31.0.101.4644; BIOS: 1.33.0 Power Plan set to Balanced, Power Mode set to “Best Performance”.</td>
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<td>7. Up to 1.47x performance with SYSmark 30 with an Intel® Core™ Ultra 7165H</td>
<td>Performance results are based on testing as of February 2024. Full Configurations: Processor: Intel Core Ultra 7165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Performance”. Processor: 11th Gen Core i7 1185G7 processor, 4 Core; tested in Dell Latitude 5420; Memory: 32GB DDR4-3200; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated Intel graphics, Graphics Driver: 31.0.101.4644; BIOS: 1.33.0 Power Plan set to Balanced, Power Mode set to “Best performance”</td>
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| 6. Significant Productivity Gain over 3-year-old PC | **8. Up to 1.28x performance with WebXPRT 4 - Chrome with an Intel® Core™ Ultra 7 165H**  
Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS, Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: 11th Gen Core i7 1185G7 processor, 4 Core; tested in Dell Latitude 5420; Memory: 32GB DDR4-3200; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated Intel graphics, Graphics Driver: 31.0.101.4644; BIOS: 1.33.0 Power Plan set to Balanced, Power Mode set to “Best performance” |

| **9. Up to 1.33x performance with Speedometer 2.1 (Chrome) with an Intel® Core™ Ultra 7 165H**  
Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS, Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: 11th Gen Core i7 1185G7 processor, 4 Core; tested in Dell Latitude 5420; Memory: 32GB DDR4-3200; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated Intel graphics, Graphics Driver: 31.0.101.4644; BIOS: 1.33.0 Power Plan set to Balanced, Power Mode set to “Best performance” |

| **10. Up to 1.36x performance with PowerBI data refresh workload with an Intel® Core™ Ultra 7 165H**  
Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS, Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: 11th Gen Core i7 1185G7 processor, 4 Core; tested in Dell Latitude 5420; Memory: 32GB DDR4-3200; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated Intel graphics, Graphics Driver: 31.0.101.4644; BIOS: 1.33.0 Power Plan set to Balanced, Power Mode set to “Best performance” |
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<td>7. Leadership Productivity Performance</td>
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<td>11. Up to 27% better productivity vs. AMD</td>
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Performance results are based on testing as of February 2024.

Full Configurations:
- Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS, Power Plan set to Balanced, Power Mode set to “Best Performance”.

Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver: Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Performance”.

12. Up to 1.08x performance with CrossMark with an Intel® Core™ Ultra 7 165H |

Performance results are based on testing as of February 2024.

Full Configurations:
- Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS, Power Plan set to Balanced, Power Mode set to “Best Performance”.

Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver: Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Performance”.

13. Up to 1.08x performance with SYSMark with an Intel® Core™ Ultra 7 165H |

Performance results are based on testing as of February 2024.

Full Configurations:
- Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS, Power Plan set to Balanced, Power Mode set to “Best Performance”.

Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver: Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Performance”.


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<td><strong>7. Leadership Productivity Performance</strong></td>
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| **14. Up to 1.06x performance with WebXPRT 4 - Chrome with an Intel® Core™ Ultra 7 165H** | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS ,Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver:Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Performance”. |
| **15. Up to 1.27x performance with Speedometer 2.1 (Chrome) with an Intel® Core™ Ultra 7 165H** | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS ,Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver:Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Performance”. |
| **16. Up to 1.20x performance with PowerBI data refresh workload with an Intel® Core™ Ultra 7 165H** | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on a Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS ,Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver:Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Performance”. |
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<tr>
<td><strong>8. Intel’s Most Efficient Video Conferencing</strong></td>
<td>Among Intel® Core™ processors powering ultrathin systems (≤28W processor base power, without discrete GPU), the Intel® Core™ Ultra processor is the most efficient client video conferencing processor based on processor power measurements, including:</td>
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<td>• Processor power on select AI video conferencing apps</td>
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<td></td>
<td>• Reduced processor power that enables longer battery life</td>
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<tr>
<td></td>
<td>• AI video effects running on the NPU when available and enabled</td>
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<tr>
<td><strong>17. Intel’s most efficient video conferencing</strong></td>
<td>As of February 2024. Video conferencing features may require additional purchase or specific compatibility requirements. AI features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Learn more at intel.com/aipc. Performance varies by use, configuration and other details.</td>
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<tr>
<td><strong>18. Up to 36% processor power reduction gen-over-gen for video conferencing</strong></td>
<td>Performance results are based on testing as of 02/14/2024: Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on an Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”. Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores, PL1=15W, 12 Cores; tested on an Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”.</td>
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| **19. Up to 15% lower power with Microsoft Teams 3x3 with an Intel® Core™ Ultra 7 165U** | Performance results are based on testing as of February 2024. Full Configurations: Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on an Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”. Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores, PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”.

See claim #3.
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<td>8. Intel’s Most Efficient Video Conferencing</td>
<td>8. Intel’s Most Efficient Video Conferencing</td>
</tr>
<tr>
<td>20. Up to 15% lower power with Microsoft Teams 3x3 with effects with an Intel® Core™ Ultra 7 165U</td>
<td>Performance results are based on testing as of February 2024.</td>
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<tr>
<td></td>
<td>Full Configurations:</td>
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<td>Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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<td>Processor: 13th Gen Intel® Core™ (7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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<tr>
<td>21. Up to 36% lower power with Zoom 1x1 call with effects with an Intel® Core™ Ultra 7 165U</td>
<td>Performance results are based on testing as of February 2024.</td>
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<td>Full Configurations:</td>
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<td>Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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<td>Processor: 13th Gen Intel® Core™ (7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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<td>22. Up to 34% lower power with XSplit Vcam with an Intel® Core™ Ultra 7 165U</td>
<td>Performance results are based on testing as of February 2024.</td>
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<td>Full Configurations:</td>
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<td>Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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<td>Processor: 13th Gen Intel® Core™ (7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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| **23.** Up to 21% lower power with Windows Live Captions with an Intel® Core™ Ultra 7 165U | **9. Best-in-Class Video Conferencing**  
Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11.22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Power Efficiency".  
Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11.22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Power Efficiency". |
| **24.** Intel® Core™ Ultra processors deliver best-in-class video conferencing | Among x86 Windows-based processors powering ultrathin systems (≤28W processor base power, without discrete GPU), based on based on the broad compatibility, unique architecture, and impressive performance, including:  
• Lower processor power consumption during typical video conferencing scenarios on Microsoft Teams, Zoom, and XSplit VCam applications  
• Reduced processor power that enables longer battery life  
• AI video effects running on the NPU when available and enabled  
• Ongoing expansion of AI features and ISV-developed application  
• Dedicated AI engine to enable increased security and privacy with local AI processing  
• Broad advanced connectivity options and compatibility  
that combine to deliver the best overall video conferencing experience in comparison to Intel i7-1365U and AMD Ryzen™ 7 7840U (as of February 2024). Video conferencing features may require additional purchase or specific compatibility requirements. AI features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Learn more at intel.com/aipc. Performance varies by use, configuration and other details. |
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<tr>
<td>9. Best-in-Class Video Conferencing</td>
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<tr>
<td>25. Up to 21% lower power vs. comp on video conferencing applications with an Intel® Core™ Ultra 7 165U</td>
<td>Performance results are based on testing as of February 2024. Full Configurations: Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11.22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;. Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon ™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver:Na; BIOS: UMS302La.301 Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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<tr>
<td>26. Up to 11% lower power with Microsoft Teams 3x3 with an Intel® Core™ Ultra 7 165U</td>
<td>Performance results are based on testing as of February 2024. Full Configurations: Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11.22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;. Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon ™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver:Na; BIOS: UMS302La.301 Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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<tr>
<td>27. On par power performance with Microsoft Teams 3x3 with effects with an Intel® Core™ Ultra 7 165U</td>
<td>Performance results are based on testing as of February 2024. Full Configurations: Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11.22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;. Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon ™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver:Na; BIOS: UMS302La.301 Power Plan set to Balanced, Power Mode set to &quot;Best Power Efficiency&quot;.</td>
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<tr>
<td>9. Best-in-Class Video Conferencing</td>
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| 28. Up to 16% lower power with Zoom 1x1 call with effects with an Intel® Core™ Ultra 7 165U | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Power Efficiency".  
Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver: Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”. |
| 29. Up to 21% lower power with XSplit Vcam with an Intel® Core™ Ultra 7 165U | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Power Efficiency".  
Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver: Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”. |
| 30. Up to 4% lower power with Windows Live Captions with an Intel® Core™ Ultra 7 165U | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Power Efficiency".  
Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver: Na; BIOS: UM5302La.301 Power Plan set to Balanced, Power Mode set to “Best Power Efficiency".
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| 13. AI Runs Best on Intel | As of February 2024, refers to laptop applications on Intel® Core™ Ultra processors, based on the broad compatibility, extensive software options, unique architecture, and impressive performance and other attributes that combine to deliver the best overall AI experience, including in comparison to AMD Ryzen 7 7840U, Qualcomm Snapdragon 8cx Gen 3, and Apple M3, as measured by:  
  • Strong AI performance on CPU, GPU, and NPU features, including on UL Procyon AI Inference benchmark  
  • Broad selection of publicly available applications & proof of concepts  
  • Ongoing expansion of AI features and ISV-developed application  
  • Dedicated AI engine to enable increased security and privacy with local AI processing  
AI features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Learn more at intel.com/aipc. Performance varies by use, configuration and other details. |
| 31. AI Runs Best on Intel | Performance results are based on testing as of 02/14/2024:  
Processor: Intel Core Ultra 7 165H Processor (MTL-H); PL1=28W, 16 Cores; tested on an Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank; Storage: Samsung PM9AI NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 22H2 22621.2215; Graphics driver: Pre-production driver ; BIOS :Preproduction BIOS ,Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: 13th Gen Core i7 1370P processor, 14 Core (6P + 8E); tested on an Intel Internal development system; Memory; LPDDR5-6000 2x16GB Dual Rank; Storage: Samsung PM9AI NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22H2 22621.608, Graphics driver: 30.0.101.4575; BIOS version:RPLFFW1.R00.3361.A14.2211151548; Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: Lenovo T16 AMD Ryzen 7-PRO-7840U processor Memory: LPDDR5-6400 2x16GB Dual Rank; Storage: Samsung 990 PRO NVMe 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22621.2428 (22H2), Graphics driver: 31.0.14005.8004; BIOS version: 1.13; Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”.  
Processor: Snapdragon 8cx Gen3; 8 Cores; tested on Lenovo X13 Model 21BX0016US , Memory: LPDDR4X 4266 32GB; Storage: Union Memory SSD P/N SSSQL25210 512GB; OS: Windows 11 Pro; 22H2 Version:1000.22000.1165.0; Kernel Version: N3HET86W(1.58 (9-19-2023); Graphics: Adreno integrated GPU; Resolution set to default; Screen Size: 13.3” 1920 x1200; PC BIOS: N/A; GPU Mode: N/A; OS Power Plan: Preferences->Battery->Power Adaptor->energy mode is set to "Default"; VBS:ON; Defender: ON: Tamper Protection: ON  
Processor: Apple M3; 8(4performance +4 efficiency); tested on MacBook Pro 14” Model A2918, Memory: LPDDR5 24GB; Storage Brand: Apple, Storage: Apple SSD AP2048ZT2B; OS: MacOS Version:14.1; Kernel Version: Darwin 23.1.0; Graphics: Apple 10 cores integrated GPU; Resolution set to default; Screen Size: 14” 3024x1964 Liquid Retina XDR; PC BIOS: N/A; GPU Mode: N/A; OS Power Plan: Preferences->Battery->Power Adaptor->energy mode is set to "Default"; VBS: N/A; Defender: N/A; Tamper Protection: N/A |
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<tr>
<td>13. AI Runs Best on Intel</td>
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<tr>
<td>32. Up to 2.2x AI Performance gen over gen with an Intel® Core™ Ultra 7 165U</td>
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<tr>
<td>Performance results are based on testing as of February 2024.</td>
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<tr>
<td>Full Configurations: Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11.22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Performance”.</td>
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<td>Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11.22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Performance”.</td>
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<td>33. Up to 3.4x AI Performance vs Competition with Procyon AI Inference with an Intel® Core™ Ultra 7 165U</td>
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<td>Performance results are based on testing as of February 2024.</td>
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<td>Full Configurations: Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11.22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.1101.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best Performance”.</td>
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<td>Processor: AMD Ryzen 7 7840U-PRO, 8 Core; tested in HP Elitebook 845 G10; Memory: 32GB DDR5-5600MHz; Storage: Samsung SSD 980 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22631.3007; Graphics card: Integrated AMD Radeon™ 780M, Graphics Driver: 31.0.14070.15002; NPU Driver:Na; BIOS: U5302La.301 Power Plan set to Balanced, Power Mode set to “Best Performance”.</td>
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| 14. Intel® Core™ Ultra processors deliver the best AI PC experience | As of February 2024, refers to laptop applications on Intel® Core™ Ultra processors, based on the broad compatibility, extensive software options, unique architecture, and impressive performance and other attributes that combine to deliver the best overall AI experience, including in comparison to AMD Ryzen 7 7840U, Qualcomm Snapdragon 8cx Gen 3, and Apple M3, as measured by:  
  • Strong AI performance on CPU, GPU, and NPU features, including on UL Procyon AI Inference benchmark  
  • Broad selection of publicly available applications & proof of concepts  
  • Ongoing expansion of AI features and ISV-developed application  
  • Dedicated AI engine to enable increased security and privacy with local AI processing  
AI features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Learn more at intel.com/aipc. Performance varies by use, configuration and other details. |

| 34. Intel® Core™ Ultra processors deliver the best AI PC experience | Performance results are based on testing as of 02/14/2024.:  
Full Configurations:  
Processor: Intel Core Ultra 7 165H Processor (MTL-H) PL1=28W, 16 Cores; tested on an Intel Internal development system; Memory: LPDDR5-7467 2x16GB Dual Rank Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11.22H2 22621.2215; Graphics driver: Pre-production driver; BIOS: Preproduction BIOS, Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: 13th Gen Core i7 1370P processor, 14 Core (6P + 8E); tested on an Intel Internal development system; Memory: LPDDR5-6000 2x16GB Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22H2 22621.608, Graphics driver: 30.0.101.4575; BIOS version: RPLPFWI1.R00.3361.A14.2211151548; Power Plan set to Balanced, Power Mode set to “Best Performance”.  
Processor: Lenovo T16 AMD Ryzen 7-PRO-7840U processor Memory: LPDDR5-6400 2x16GB Dual Rank; Storage: Samsung 990 PRO NVMe 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 22621.2428 (22H2), Graphics driver: 31.0.14005.8004; BIOS version: 1.13; Power Plan set to Balanced, Power Mode set to “Best Power Efficiency”.  
Processor: Snapdragon 8cx Gen3: 8 Cores; tested on Lenovo X13 Model 21BX0016US, Memory: LPDDR4X 4266 32GB; Storage: Union Memory SSD P/N SSSQL25210 512GB; OS: Windows 11 Pro 22H2 Version:1000.22000.165.0; Kernel Version: N3HET86W(1.58 (9-19-2023); Graphics: Adreno integrated GPU; Resolution set to default; Screen Size: 13.3" 1920 x1200; PC BIOS: N/A; GPU Mode: N/A; OS Power Plan: Preferences->Battery->Power Adaptor->energy mode set to “Default”; VBS:ON; Defender: ON: Tamper Protection: ON  
Processor: Apple M3; 8(4 performance + 4 efficiency); tested on MacBook Pro 14" Model A2918, Memory: LPDDR5 24GB; Storage Brand: Apple, Storage: Apple SSD AP2048Z 2TB; OS: MacOS Version:14.1.1; Kernel Version: Darwin 231.0; Graphics: Apple 10 cores integrated GPU; Resolution set to default; Screen Size: 14” 3024x1964 Liquid Retina XDR; PC BIOS: N/A; GPU Mode: N/A; OS Power Plan: Preferences->Battery->Power Adaptor->energy mode is set to “Default”; VBS: N/A; Defender: N/A: Tamper Protection: N/A |
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| 14. Intel® Core™ Ultra processors deliver the best AI PC experience | 35. Up to 2.2x AI Performance gen over gen with an Intel® Core™ Ultra 7 165U  
Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".  
Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; ; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance". |
| 36. Up to 1.5x performance on Procyon AI Inference CPU (int8) with an Intel® Core™ Ultra 7 165U  
Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".  
Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; ; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance". |
| 37. Up to 1.1x performance on Procyon AI Inference GPU (int8) with an Intel® Core™ Ultra 7 165U  
Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance".  
Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; ; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best Performance". |
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<td>14. Intel® Core™ Ultra processors deliver the best AI PC experience</td>
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<tr>
<td>38. Up to 1.5x performance on Procyon AI Inference NPU (int8) with an Intel® Core™ Ultra 7 165U</td>
<td><strong>Performance results are based on testing as of February 2024.</strong></td>
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<td><strong>Full Configurations:</strong></td>
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<td>Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Performance&quot;.</td>
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<td>Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Performance&quot;.</td>
</tr>
<tr>
<td>39. Up to 1.2x performance with Adobe Lightroom Classic AI Photo Editing with an Intel® Core™ Ultra 7 165U</td>
<td><strong>Performance results are based on testing as of February 2024.</strong></td>
</tr>
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<td><strong>Full Configurations:</strong></td>
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<td>Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Performance&quot;.</td>
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<td>Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Performance&quot;.</td>
</tr>
<tr>
<td>40. Up to 2.2x performance with Adobe Premiere Pro AI Video Editing with an Intel® Core™ Ultra 7 165U</td>
<td><strong>Performance results are based on testing as of February 2024.</strong></td>
</tr>
<tr>
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<td><strong>Full Configurations:</strong></td>
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<td>Processor: Intel® Core™ Ultra 7 165U processor (MTL-U) PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-7467 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22631.2506; Graphics Driver: 31.0.101.5007; NPU Driver: 31.110.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Performance&quot;.</td>
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<td>Processor: 13th Gen Intel® Core™ i7-1365U processor, 10 Cores; PL1=15W, 12 Cores; tested on a Intel internal development system; Memory LPDDR5-6000 2x16GB, Dual Rank; Storage: Samsung PM9A1 NVMe 512GB; Display Resolution: 1920x1080; OS: Windows 11 22621.2361; Graphics Driver: 31.0.101.5007; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to &quot;Best Performance&quot;.</td>
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<td>Claim # &amp; Statement</td>
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| 41. Up to 12.2x estimated performance with SPECviewperf 2020 SNX with an Intel® Core™ Ultra 9 185H | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver:Preproduction driver; NPU Driver:31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”  
Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; PL1=45W, 14 Cores; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME ITB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics: Graphics Driver: 31.0.101.5186; BIOS: E1592IMS.70A; Power Plan set to Balanced, Power Mode set to “Best Performance”. |
| 42. Up to 8.0x performance with Autodesk Viewport GPU raytracing with an Intel® Core™ Ultra 9 185H | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver:Preproduction driver; NPU Driver:31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”  
Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; PL1=45W, 14 Cores; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME ITB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics: Graphics Driver: 31.0.101.5186; BIOS: E1592IMS.70A; Power Plan set to Balanced, Power Mode set to “Best Performance”. |
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<tr>
<td>18. Winning Application Performance for Designers &amp; Engineers</td>
<td>43. Up to 3.4x estimated performance with SPECviewperf 2020/Medical with an Intel® Core™ Ultra 9 185H</td>
</tr>
<tr>
<td>Performance results are based on testing as of February 2024.</td>
<td>Full Configurations: Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver:Preproduction driver; NPU Driver:31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”</td>
</tr>
<tr>
<td>Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver:Preproduction driver; NPU Driver:31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”</td>
<td><strong>44. Up to 3.1x performance with Blender Final Frame GPU raytracing with an Intel® Core™ Ultra 9 185H</strong></td>
</tr>
<tr>
<td>Performance results are based on testing as of February 2024.</td>
<td>Full Configurations: Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver:Preproduction driver; NPU Driver:31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”</td>
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<td>Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver:Preproduction driver; NPU Driver:31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”.</td>
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| 45. Up to 3.0x estimated performance with SPECviewperf 2020 Energy with an Intel® Core™ Ultra 9 185H | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO ITB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver: Preproduction driver; NPU Driver: 31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best performance"  
Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; PL1=45W, 14 Cores; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME ITB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics; Graphics Driver: 31.0.101.5186; BIOS: E15921MS.70A; Power Plan set to Balanced, Power Mode set to "Best Performance". |
| 46. Up to 2.3x estimated performance with SPECviewperf 2020 Solidworks with an Intel® Core™ Ultra 9 185H | Performance results are based on testing as of February 2024.  
Full Configurations:  
Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO ITB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver: Preproduction driver; NPU Driver: 31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to "Best performance"  
Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; PL1=45W, 14 Cores; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME ITB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics; Graphics Driver: 31.0.101.5186; BIOS: E15921MS.70A; Power Plan set to Balanced, Power Mode set to "Best Performance". |
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<tr>
<td>18. Winning Application Performance for Designers &amp; Engineers</td>
<td>47. Up to 2.1x performance with Adobe Premiere Pro Beta AI Video Editing with AV1 with an Intel® Core™ Ultra 9 185H</td>
</tr>
<tr>
<td>Performance results are based on testing as of February 2024.</td>
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<td>Full Configurations:</td>
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<td>Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO ITB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085 ; Graphics card: Integrated Intel Arc graphics, Graphics Driver:Preproduction driver; NPU Driver:31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”</td>
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<tr>
<td>Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; : PL1=45W, 14 Cores; MSI; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME ITB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics: Graphics Driver: 31.0.101.5186; BIOS: E1592IMS.70A; Power Plan set to Balanced, Power Mode set to “Best Performance”.</td>
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<tr>
<td>48. Up to 1.6x estimated performance with SPECviewperf 2020 Catia with an Intel® Core™ Ultra 9 185H</td>
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<td>Performance results are based on testing as of February 2024.</td>
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<td>Full Configurations:</td>
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<td>Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO ITB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085 ; Graphics card: Integrated Intel Arc graphics, Graphics Driver:Preproduction driver; NPU Driver:31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”</td>
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<td>Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; : PL1=45W, 14 Cores; MSI; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME ITB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics: Graphics Driver: 31.0.101.5186; BIOS: E1592IMS.70A; Power Plan set to Balanced, Power Mode set to “Best Performance”.</td>
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<tr>
<td>18. Winning Application Performance for Designers &amp; Engineers</td>
<td>18. Winning Application Performance for Designers &amp; Engineers</td>
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49. Up to 1.6x performance with DaVinci Resolve Studio AI Video Editing with an Intel® Core™ Ultra 9 185H

Performance results are based on testing as of February 2024.

Full Configurations:
Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver: Preproduction driver; NPU Driver: 31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”

Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; PL1=45W, 14 Cores; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME 1TB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics: Graphics Driver: 31.0.101.5186; BIOS: E15921MS.70A; Power Plan set to Balanced, Power Mode set to “Best Performance”.

50. Up to 1.5x performance with Procyon AI Inference GPU int8 with an Intel® Core™ Ultra 9 185H

Performance results are based on testing as of February 2024.

Full Configurations:
Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver: Preproduction driver; NPU Driver: 31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”

Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; PL1=45W, 14 Cores; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME 1TB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics: Graphics Driver: 31.0.101.5186; BIOS: E15921MS.70A; Power Plan set to Balanced, Power Mode set to “Best Performance”. 
18. Winning Application Performance for Designers & Engineers

51. Up to 1.3x estimated performance with SPECworkstation 3.1 Energy Composite with an Intel® Core™ Ultra 9 185H

Performance results are based on testing as of February 2024.

Full Configurations:
Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver: Preproduction driver; NPU Driver: 31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”

Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; PL1=45W, 14 Cores; MSi; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME 1TB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics: Graphics Driver: 31.0.101.5186; BIOS: E1592IMS.70A; Power Plan set to Balanced, Power Mode set to “Best Performance”.

52. Up to 1.3x estimated performance with SPECworkstation 3.1 Life Sciences Composite with an Intel® Core™ Ultra 9 185H

Performance results are based on testing as of February 2024.

Full Configurations:
Processor: Intel Core Ultra 9 185H processor (MTL-H) PL1=45W, 16 Cores; tested in MSI Summit E16; Memory: 32GB DDR5-6400MHz; Storage: Samsung SSD 990 PRO 1TB; Display Resolution: 1920x1080; OS: Microsoft Windows 11 Pro 23H2 22631.3085; Graphics card: Integrated Intel Arc graphics, Graphics Driver: Preproduction driver; NPU Driver: 31.0.100.1688; BIOS: Preproduction BIOS; Power Plan set to Balanced, Power Mode set to “Best performance”

Processor: Intel® Core™ i9-13900H processor, 14 Cores; tested in MSI Summit E16; PL1=45W, 14 Cores; MSi; Memory DDR5-5200MHz 2x16GB, Dual Rank; Storage: Samsung 990 Pro NVME 1TB; Display Resolution: 1920x1080; OS: Windows 11 22631.3085; Graphics card: Integrated Iris Xe Graphics: Graphics Driver: 31.0.101.5186; BIOS: E1592IMS.70A; Power Plan set to Balanced, Power Mode set to “Best Performance”.
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<tr>
<td>53. Intel vPro® silicon security offers an estimated 70% attack surface reduction vs 4-year-old devices</td>
<td>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 four-year-old Intel-based PCs, given similar or potentially improved features and capabilities of Intel vPro systems powered by Intel® Core™ Ultra processors.</td>
</tr>
<tr>
<td>54. 21% fewer impactful security events</td>
<td>Based on IDC’s “The Business Value of Intel Security for PCs” report published March 2023 (commissioned by Intel), which cites greater reported efficiencies around security-related implementations and responses with Intel-based PCs versus other PCs.</td>
</tr>
<tr>
<td>55. 26% lower risk of major PC-related security events</td>
<td>Based on IDC’s “The Business Value of Intel Security for PCs” report published March 2023 (commissioned by Intel), which cites greater reported efficiencies around security-related implementations and responses with Intel-based PCs versus other PCs.</td>
</tr>
<tr>
<td>56. +17% security team efficiency gains</td>
<td>Based on IDC’s “The Business Value of Intel Security for PCs” report published March 2023 (commissioned by Intel), which cites greater reported efficiencies around security-related implementations and responses with Intel-based PCs versus other PCs.</td>
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<td>Claim # &amp; Statement</td>
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<tr>
<td>27. ROI with Intel vPro® Platform</td>
<td>Based on “The Total Economic Impact™ of the Intel vPro Platform,” an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro®, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. For the study’s findings, Forrester aggregated the data and experiences from the interviewees into a composite organization with an assumed revenue of $1 billion per year and 10,000 employees.</td>
</tr>
<tr>
<td>57. 213% ROI over 3-year-period at organizations maintaining Intel vPro® as their endpoint standard</td>
<td>Based on “The Total Economic Impact™ of the Intel vPro Platform,” an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro®, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. For the study’s findings, Forrester aggregated the data and experiences from the interviewees into a composite organization with an assumed revenue of $1 billion per year and 10,000 employees.</td>
</tr>
<tr>
<td>58. Up to 90% reduction in hardware related onsite visits</td>
<td>Based on “The Total Economic Impact™ of the Intel vPro Platform,” an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro®, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. For the study’s findings, Forrester aggregated the data and experiences from the interviewees into a composite organization with an assumed revenue of $1 billion per year and 10,000 employees.</td>
</tr>
<tr>
<td>59. Up to 40% fewer device related help desk tickets</td>
<td>Based on “The Total Economic Impact™ of the Intel vPro Platform,” an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro®, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. For the study’s findings, Forrester aggregated the data and experiences from the interviewees into a composite organization with an assumed revenue of $1 billion per year and 10,000 employees.</td>
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<td>60. Up to 83% faster hardware related issues resolution</td>
<td>Based on “The Total Economic Impact™ of the Intel vPro Platform,” an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro®, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. For the study’s findings, Forrester aggregated the data and experiences from the interviewees into a composite organization with an assumed revenue of $1 billion per year and 10,000 employees.</td>
</tr>
<tr>
<td>61. 30% less time to deploy vs. non-Intel vPro® based devices</td>
<td>Based on “The Total Economic Impact™ of the Intel vPro Platform,” an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro®, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. For the study’s findings, Forrester aggregated the data and experiences from the interviewees into a composite organization with an assumed revenue of $1 billion per year and 10,000 employees.</td>
</tr>
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<td>62. 65% less time to manage Intel vPro® devices than non-Intel vPro® devices</td>
<td>Based on “The Total Economic Impact™ of the Intel vPro Platform,” an Intel-commissioned study by Forrester Consulting, January 2024, which surveyed 500 ITDMs at enterprises across the world using Intel vPro®, including US, Canada, France, Germany, UK, Australia, China, India, and Japan. For the study’s findings, Forrester aggregated the data and experiences from the interviewees into a composite organization with an assumed revenue of $1 billion per year and 10,000 employees.</td>
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<td>63. A single use of Intel vPro® to support a PC remotely, instead of dispatching a technician via truck, can save carbon emissions equal to 2 years of use of that PC</td>
<td>28. Sustainability with Intel vPro® Platform</td>
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<td>As measured by 2023 internal Intel study analyzing common emissions data that factors the estimated energy required to use Intel® AMT remote manageability features as compared with the estimated equivalent fuel needed to dispatch a technician, ship an asset, or have the user visit an office. Please visit <a href="http://www.intel.com/Performance-vPro">www.intel.com/Performance-vPro</a> for more information. Results may vary.</td>
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</tr>
<tr>
<td>64. 94% Intel vPro® devices registered on EPEAT are Silver or better</td>
<td>Based on data in the EPEAT Registry as of September 13, 2023, hosted by the Global Electronics Council, for computing client products in the market 2019-2023. Data is global and covers Desktop, Integrated Desktop Computer, and Notebook form factors. Intel, AMD, Apple, Arm, Dual, MediaTek, and Qualcomm devices are compared. Visit <a href="http://www.epeat.net/about-epeat">www.epeat.net/about-epeat</a> to learn more about the registry.</td>
</tr>
<tr>
<td>65. 71% achieved EPEAT Gold certification</td>
<td>Based on data in the EPEAT Registry as of September 13, 2023, hosted by the Global Electronics Council, for computing client products in the market 2019-2023. Data is global and covers Desktop, Integrated Desktop Computer, and Notebook form factors. Intel, AMD, Apple, Arm, Dual, MediaTek, and Qualcomm devices are compared. Visit <a href="http://www.epeat.net/about-epeat">www.epeat.net/about-epeat</a> to learn more about the registry.</td>
</tr>
<tr>
<td>66. Up to 90% reduced onsite services calls with remote manageability, resulting in up to 368,000 kg less CO2 emissions over 3 years</td>
<td>See claim #58.</td>
</tr>
<tr>
<td>67. Up to 64% lower total energy consumption on Intel® Core™ Ultra based notebooks than ENERGY Star 8.0 requirements</td>
<td>Based on OEM design implementation. 64% more efficient claim is based on an Asus Zenbook 14 Laptop with the Intel® Core™ Ultra 7 155H that uses 64% less energy (Typical Energy Consumption - TEC) than total ENERGY STAR computer specification v8.0 allowance for that system (TEC of model=13.6 kWh, vs Total allowance of 38.3 kWh). All power measurements for government energy regulations are platform holistic with AC power measured at the wall. Platform configuration and implementation has obvious impact to overall platform power as it applies to power measurements for these government regulations. This data is relative to one Asus Zenbook laptop tested and may not be characteristic of all platforms on the market regardless of vendor and/or configuration.</td>
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<tr>
<td>30. Intel vPro® Platform with Intel® Core™ Ultra</td>
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<tr>
<td>68. Up to 12x workstation performance gen-over-gen with Intel® Arc™ Pro drivers</td>
<td>See claim #41.</td>
</tr>
<tr>
<td>69. Up to 70% of attack surface reduction</td>
<td>See claim #53.</td>
</tr>
<tr>
<td>70. Single use of Intel vPro® to support a PC remotely saves carbon emissions equal to 2 years of use of that PC</td>
<td>See claim #63.</td>
</tr>
<tr>
<td>71. Up to 47% better productivity vs. 3-year-old PC</td>
<td>See claim #2.</td>
</tr>
<tr>
<td>72. Intel vPro® provides 213% ROI over a 3-year-period</td>
<td>See claim #57.</td>
</tr>
<tr>
<td>73. Up to 2.2x AI performance gen-over-gen</td>
<td>See claim #35.</td>
</tr>
<tr>
<td>74. Up to 36% lower processor power gen-over-gen</td>
<td>See claim #3.</td>
</tr>
</tbody>
</table>
Notices & Disclaimers

Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex.

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details.

All Intel® Evo™ designs feature high performing Intel® Core™ CPUs, consistent system responsiveness, premium audio & visual components, broad ecosystem compatibility, sleek form factor innovations, optional touch screen and connectivity solutions. Intel’s comprehensive laptop innovation program Project Athena ensures all designs with the Intel Evo brand have been tested, measured and verified against a premium specification and key experience indicators. Individual system results may vary. See www.intel.com/performance-evo for details.

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

Intel® Arc™ GPU only available on select H-series Intel® Core™ Ultra processor-powered systems with at least 16GB of system memory in dual channel configuration. OEM enablement required; check with OEM or retailer for system configuration details.

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

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