



11th Gen Intel®
Core™ vPro® mobile
processors & Intel®
Xeon® W-11000
processors for
mobile workstations

Powering the unrivaled
Intel vPro® platform

Empowering enterprises to meet evolving business needs

Business technology needs have changed a lot over the past few years. Now, both IT and everyday end users prefer more user-friendly technology that can easily adapt to today's more flexible working environment. The Intel vPro® platform provides tools and technologies you can count on to help your business keep up with the needs of an ever-changing world.

It's time to set a new standard for business security, performance, and remote manageability in your organization. The latest 11th Gen Intel vPro® platform processors are designed to deliver business-class performance, comprehensive hardware-based security, and optimal user experiences — making it the unrivaled PC platform for business.



A scalable processor portfolio

The 11th Gen Intel® Core™ vPro® processors are segmented into the i5, i7, and i9 processor brands which, along with Intel® Xeon® W-11000 processors for mobile workstations, give enterprises greater flexibility to meet a wide variety of performance and price point requirements across their organization.

11th Gen Intel® Core™ vPro® U-series i5 and i7 processors power highly mobile business-class notebooks in a thin-and-light form factor. These PCs are designed for on-the-go employees and feature exclusive Intel® Iris® Xe graphics for impressive visual performance. Processors with the i5 brand feature 4 cores, 8 threads, and an 8 MB cache. Processors with the i7 brand support 4 cores, 8 threads, and a 12 MB cache. The i5 and i7 brand processors offer a Thermal Design Power (TDP) range of 7–28 W (cTDP-down and cTDP-up).

11th Gen Intel® Core™ vPro® H-series processors and Intel® Xeon® W-11000 processors are designed with more cores, larger cache size, and higher TDP to help professional “power users” like data scientists, financial analysts, and content creators tackle multi-threaded performance-hungry applications — even while on the go. The H-series offers a total of five SKUs across both the Intel® Core™ vPro® and Intel® Xeon® processor families. For the Intel® Core™ vPro® processor family: the Core™ vPro® i5-11500H processor offers 6 cores, 12 threads, and a 12 MB cache; the Core™ vPro® i7-11850H processor offers 8 cores, 16 threads, and a 24 MB cache; and the Core™ vPro® i9-11950H processor offers 8 cores, 16 threads, and a 24 MB cache. For the Intel® Xeon® processor family: the Xeon® W-11855M processor offers 6 cores, 12 threads, and an 18 MB cache and the Xeon® W-11955M processor offers 8 cores, 16 threads, and a 24 MB cache. All H-series and Intel® Xeon® SKUs offer a TDP range of 35–45 W.

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



Designed for IT and end users

Today's agile and highly capable IT management teams are often tasked with a wide range of maintenance and support tasks, but their most time-consuming challenge is handling day-to-day tactical activities. With Intel vPro® platform-based notebooks and mobile workstations, managed service providers and in-house IT teams can do more to manage their device deployments remotely — from performing maintenance to running diagnostics, repairing systems, and rebooting.

By intelligently investing in efficient IT solutions that enable IT teams to work smarter, businesses are better able to innovate, boost their overall effectiveness, and grow.

Unrivaled PCs for business

Notebooks and mobile workstations powered by the Intel vPro® platform meet the demands of today's dynamic business environment. The Intel vPro® platform features built-in, enhanced security solutions, runs on architecture that delivers performance, promotes workforce productivity, and helps lower total cost of ownership.

Computing systems based on the Intel vPro® platform that incorporate the eligible processor SKUs shown in the tables on pages 8 and 10 and meet the Intel vPro® brand requirements are optimized for corporate environments and an increasingly remote workforce. These systems also require either the Microsoft Windows 10 Pro or Windows 10 Enterprise OS.

Improved performance across key workloads*

Up to 18% faster system performance ¹	Up to 2.5X faster AI performance ² (ML Image Classification)	Up to 29% faster media and entertainment	Up to 29% faster product development	Up to 11% faster general operations
in SPECWorkstation 3 ³				

¹ Based on SPEC CPU® 2017, Intel Estimated based on SPECrate*2017_int_base(1-copy) for ST, SPECrate*2017_fp_base(1-copy) for ST, SPECrate* 2017_int_base(n-copy) for MT, and SPECrate*2017_fp_base(n-copy) for MT score on Intel® Core™ vPro® i9-11950H vs Intel® Core™ vPro® i9-10885H. ² As measured by MLPerf v0.7 (unverified) Inference, Closed Division with Offline Scenario using OpenVINO 2021.3 on Resnet50 model int8 CPU (Batch=4, Instances=8) on Intel internal reference platforms running with 11th Gen Intel® Core™ vPro® i9-11950H processor vs MLPerf v0.7 (unverified) Inference, Closed Division with Offline Scenario using OpenVINO 2021.3 on Resnet50 model int8 CPU (Batch=4, Instances=8) on Intel internal reference platforms running with 10th Gen Intel® Core™ vPro® i9-10885H processor. ³ Based on SPECWorkstation™ 3.1.0 Media and Entertainment, Life Sciences, Product Development, Energy (Oil & Gas), Financial Services, and General Operations score on Intel® Core™ vPro® i9-11950H vs Intel® Core™ vPro® i9-10885H.

* As compared to a previous generation of platforms. See backup for workloads and configurations. Results may vary.



Groundbreaking performance and amazing experiences for business

11th Gen Intel® Core™ vPro® U-series processors for business-class notebooks deliver the world's best productivity⁴ for business and the world's best business collaboration,⁵ and Intel® Xeon® W-11000 processors for mobile workstations provide serious performance for high-intensity workloads. With an impressive leap in architecture performance, powerful new integrated graphics that bring new levels of 3D and media performance, AI acceleration, and next-gen connectivity and responsiveness, Intel vPro® platform-based PCs deliver amazing real-world experiences for IT and end users, no matter where their work takes them.

Advanced performance and collaboration features

- ✔ **New processor core architecture** transforms hardware and software efficiency, delivering significant gains in real-world performance that lets your workforce do more work, wherever work happens.
- ✔ **Intel® Xe graphics architecture** creates more immersive work experiences with improved device performance, rich media and intelligent graphics capabilities, and built-in support for multiple high-resolution monitors.
- ✔ **Integrated Thunderbolt™ 4 technology** helps employees stay in their productivity zone, allowing them to quickly charge their devices, or connect to any display or data device through one universal computer port.
- ✔ **Integrated Intel® Wi-Fi 6 / Discrete Intel® Wi-Fi 6E (Gig+)** helps users collaborate seamlessly with ultra-fast Gigabit speed, ultra-low latency, and ultra-reliable connectivity made possible by the greatest leap in Wi-Fi technology in 20 years.⁶
- ✔ **Intel® Optane™ memory H20 with SSD** helps employees stay more productive while multitasking thanks to significant gen-over-gen improvements to responsiveness, performance, power consumption, and storage capacity options.
- ✔ **Intel® Deep Learning Boost** delivers a boost in AI performance and machine learning tasks for more improved bandwidth, increased productivity, and more intelligent, personalized business PC experiences.

Not all features are available on all SKUs. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Please check with your OEM for availability.



Comprehensive security that businesses depend on yesterday, today, and tomorrow

Intel® Hardware Shield, available exclusively on the Intel vPro® platform, provides comprehensive hardware-based security for business. 11th Gen Intel vPro® platform-based processors with Intel® Hardware Shield offer enhanced full-stack security features that help deliver data and device protection for businesses of all sizes.

Hardware-based security features of the Intel vPro® platform

Available exclusively on Intel® Core™ vPro® mobile processors and Intel® Xeon® W-11000 processors for mobile workstations, Intel® Hardware Shield delivers integrated hardware-based PC protection for more secure business productivity, including:

- ✓ **Advanced threat detection**
- ✓ **Application and data protection**
- ✓ **Below-the-OS security**

Advanced security features

- ✓ **Intel® Control-Flow Enforcement Technology** provides hardware-based protection against multiple classes of attacks, including memory safety-based attacks and increasingly popular control flow subversion techniques. This ground-breaking technology was invented by Intel engineers to help shut down an entire class of attacks that have long evaded software-only solutions.⁷
- ✓ **Intel® Total Memory Encryption** encrypts all data at the silicon level to help protect data in memory from cold boot attacks — including physical memory and DIMM removal attacks — and helps mitigate splicing attacks. OEMs can configure end user PCs with this technology based on customer requests.
- ✓ **Intel® Threat Detection Technology** provides IT teams with near real-time insights about end user devices. With the industry's first silicon-enabled AI threat detection, provided only by Intel, this enhanced security feature takes full advantage of the advanced telemetry capabilities of Intel® Hardware Shield by augmenting ISV solutions to help stop ransomware and cryptomining attacks.⁸

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



Optimal user experiences across the entire organization

From savvy business leaders and entrepreneurs looking for premium laptop experiences to professional multitaskers who need to run multiple programs and displays at once, to employees with resource-intensive data analysis, engineering, finance, visual effects production, or content creation workloads — today's workforce expects a lot out of their business PCs. The latest generation of Intel® processor technology provides flexibility, device stability, and enhanced capabilities that deliver amazing and powerful user experiences to your employees across a variety of in-demand form factors.

Advanced user experience features

- ✔ **Intel® Active Management Technology (Intel® AMT) with Intel® Endpoint Management Assistant*** — enhances your IT team's ability to remotely and securely access, repair, and maintain your PC fleet. Intel® AMT is the only wireless solution for remote manageability in business that can return your PCs to a known good state, no matter where your employees are working — even when the OS is down.⁹
- ✔ **Intel® Stable IT Platform Program (Intel® SIPP)** is an integrated validation platform that helps IT manage computer lifecycle complexities with confidence. Intel® SIPP ensures optimal device stability and reliability for all users, aiming for zero hardware changes for at least 15 months or until the next generational release.

The Intel vPro® platform includes full platform validation support for additional (post-Time to Market) Windows 10 Enterprise SAC releases, including up to two previous OS releases. The capabilities listed in the “Platform Security, Manageability, and Stability Features” table on page 12 are designed to enable, accelerate, or complement features and services within the Windows 10 Pro and Windows 10 Enterprise operating systems.

* Intel® AMT requires a network connection; must be a known network for Wi-Fi out-of-band management. Learn more at www.intel.com/11thgenvPro. Results may vary.



The Intel® Evo™ vPro® Platform

Intel® Evo™ vPro® platform-based laptops are the best thin and light business laptops for getting things done.¹⁰ These verified laptop designs, available exclusively on 11th Gen Intel® Core™ vPro® U-series mobile processors, deliver business-class performance, hardware-enhanced security features, superior remote manageability, and PC fleet stability — along with remarkable responsiveness, user productivity features, and enhanced graphics for amazing visual experiences.

Thin, stylish, and lightweight, Intel® Evo™ vPro® platform-based laptops are built with what IT needs and what end users want — and are designed to deliver the best thin and light laptop experience for business.¹⁰

The Intel® Evo™ vPro® Platform features:

- ➔ Verified Intel® Evo™ vPro® platform designs deliver an average of more than **40% improved responsiveness** compared to a 3-year-old premium laptop while on battery,¹¹ so employees' devices can stay ready for business.
- ➔ Help keep your workforce in the productivity zone with **fast charging** that delivers 4 or more hours of real-world battery life in a 30-minute charge on laptops with FHD displays.¹²
- ➔ Keep employees — and all of their video conferencing and other critical applications — up and running for longer with 9 or more hours of **real-world battery life** on systems with FHD displays.¹³
- ➔ Keep everyone working quickly and effectively with **instant wake** (<1 sec) that lets users jump right back into their workflows without missing a beat.
- ➔ Let users work how they want, as quickly as they need, with universal charging and accessory ports powered by integrated **Thunderbolt™ 4 technology** for faster file transfers and day-to-day functionality.
- ➔ Improve the quality and reliability of high-bandwidth interactions like video conferencing with **best-in-class wireless and wired connectivity**.¹⁴

See backup for workloads and configurations. Results may vary.

The Intel vPro® platform mobile processor family

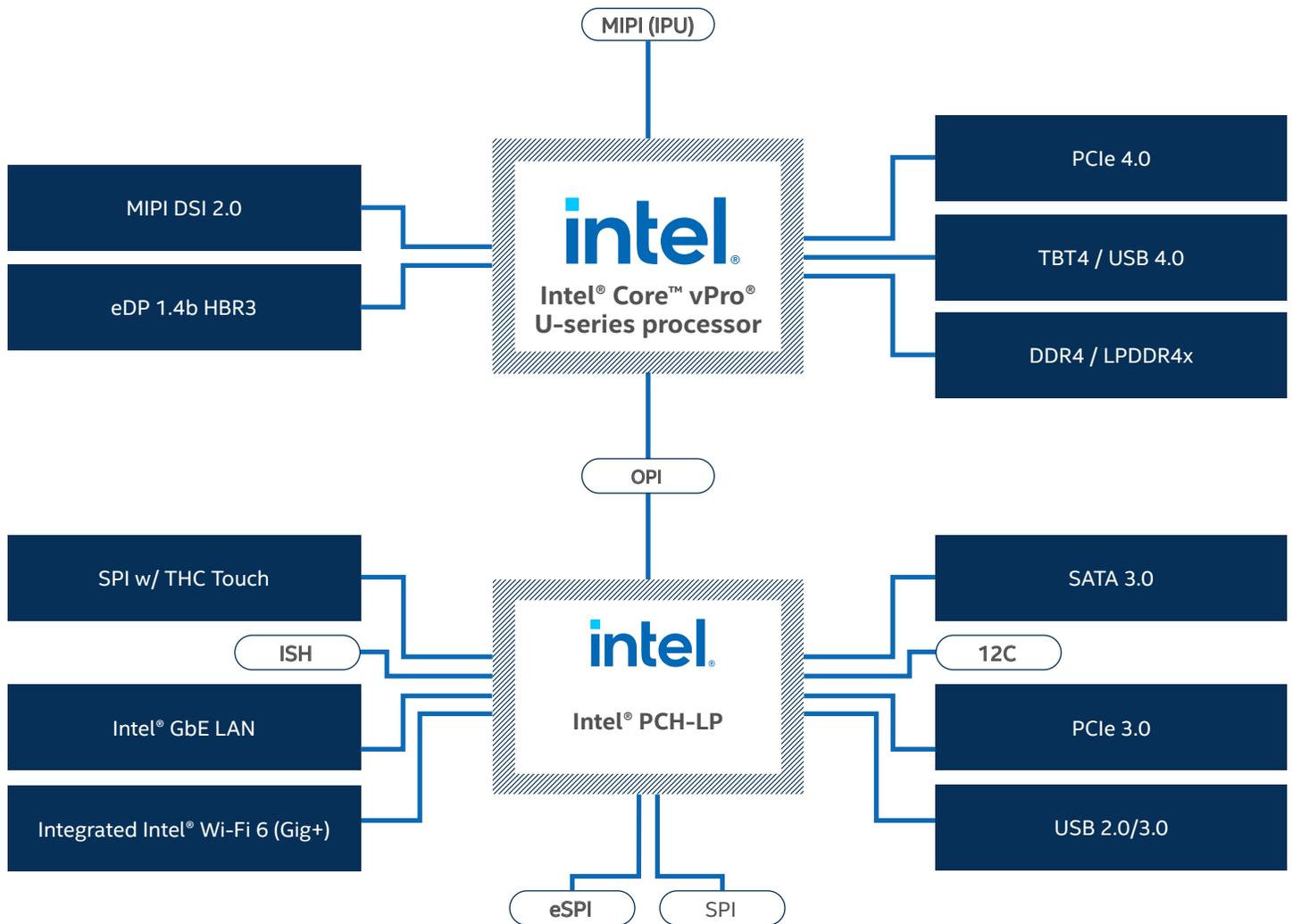
Intel® Core™ vPro® U-series mobile processors

Processor Name	i7-1185G7	i7-1180G7	i5-1145G7	i5-1140G7
Configurable TDP-up frequency (GHz)	3.0	2.2	2.6	1.8
Configurable TDP-down frequency (GHz)	1.2	0.9	1.1	0.8
Intel® Smart Cache (M)	12	12	8	8
Cores/Threads	4/8	4/8	4/8	4/8
Intel® single core turbo frequency (GHz)	4.8	4.6	4.4	4.2
Intel® all core turbo frequency (GHz)	4.3	3.7	4.0	3.5
Unlocked	Yes	Yes	Yes	Yes
Processor graphics	Intel® Iris® X ^e graphics	Intel® Iris® X ^e graphics	Intel® Iris® X ^e graphics	Intel® Iris® X ^e graphics
PCIe lanes 4.0	4	4	4	4
Memory speed	DDR4-3200 LPDDR4x-4266	LPDDR4x-4266	DDR4-3200 LPDDR4x-4266	LPDDR4x-4266
Memory channels	2	2	2	2
Maximum memory capacity (GB)	64	32	64	32
Thermal Design Power (W)	12–28	7–15	12–28	7–15

Not all features are available on all SKUs. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Please check with your OEM for availability.

The Intel vPro® platform mobile processor family

11th Gen Intel® Core™ vPro® U-series processor block diagram



Not all features are available on all SKUs. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Please check with your OEM for availability.

The Intel vPro® platform mobile processor family

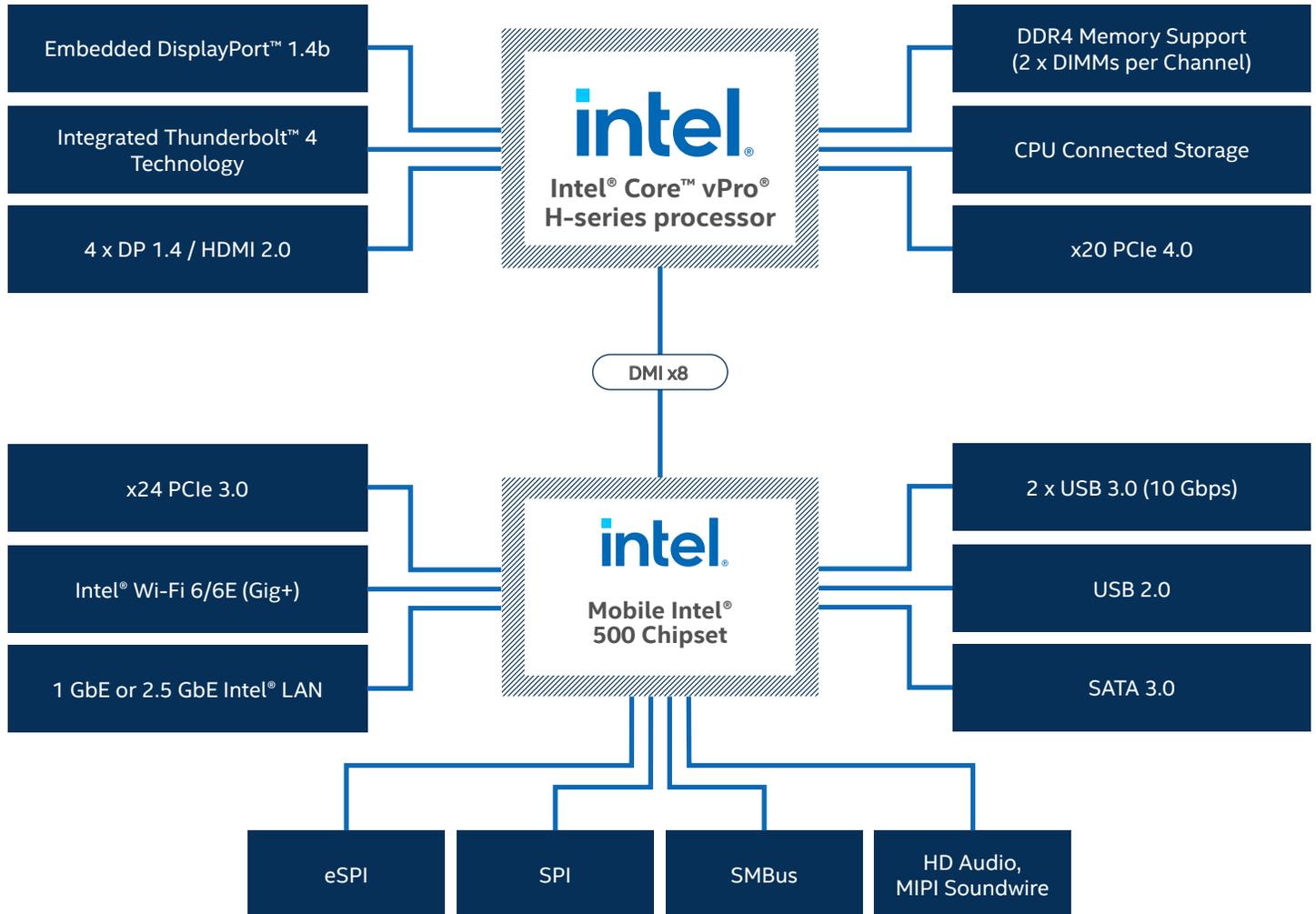
Intel® Core™ vPro® H-series mobile processors, including Intel® Xeon® W-11000 processors for mobile workstations

Processor Name	i9-11950H	i7-11850H	i5-11500H	Xeon® W-11955M	Xeon® W-11855M
Configurable TDP-up frequency (GHz)	2.6	2.5	2.9	2.6	3.2
Configurable TDP-down frequency (GHz)	2.1	2.1	2.4	2.1	2.6
Intel® Smart Cache (M)	24	24	12	24	18
Cores/Threads	8/16	8/16	6/12	8/16	6/12
Intel® single core turbo frequency (GHz)	5.0	4.8	4.6	5.0	4.9
Intel® Turbo Boost Max Technology 3.0 turbo frequency (GHz)	5.0	N/A	N/A	5.0	4.9
Intel® all core turbo frequency (GHz)	4.5	4.3	4.2	4.5	4.4
Processor graphics	Intel® UHD graphics	Intel® UHD graphics	Intel® UHD graphics	Intel® UHD graphics	Intel® UHD graphics
PCIe lanes 4.0	20	20	20	20	20
Memory speed	DDR4-3200	DDR4-3200	DDR4-3200	DDR4-3200	DDR4-3200
Memory channels	2	2	2	2	2
Maximum memory capacity (GB)	128	128	128	128	128
ECC memory support	No	No	No	Yes	Yes
Thermal Design Power (W)	35–45	35–45	35–45	35–45	35–45

Not all features are available on all SKUs. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Please check with your OEM for availability.

The Intel vPro® platform mobile processor family

11th Gen Intel® Core™ vPro® H-series processor block diagram



Not all features are available on all SKUs. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Please check with your OEM for availability.

The Intel vPro® platform mobile processor family

Features at a glance

Platform security, manageability, and stability features	Benefits
Intel® Active Management Technology (Intel® AMT)*	Remote out-of-band management for efficient proactive and reactive system maintenance
Intel® Endpoint Management Assistant	Remotely and securely manage devices beyond the firewall from the cloud
Intel® Remote Secure Erase	Allows IT administrators to remotely wipe the data from Intel and third-party SSDs via Intel® AMT
Intel® Stable IT Platform Program	Delivers integrated hardware validation that helps IT teams ensure long-term device reliability and compatibility
Intel® Hardware Shield	A set of built-in, hardware-enabled platform protection technologies
Intel® Threat Detection Technology	Delivers advanced threat detection and enhanced security
Intel® Runtime BIOS Resilience	Intel® Hardware Shield technology that helps protect system firmware
Intel® Trusted Execution Technology	Intel® Hardware Shield technology providing hardware root-of-trust for critical software
Intel® System Security Report	Communicates the current Intel® Hardware Shield configuration to the OS
Intel® System Resource Defense	Helps prevent malicious software injection by locking down system critical resources
Intel® Virtualization Technology	Provides hardware assist to the virtualization software, helping to reduce size, cost, and complexity
Intel® Transparent Supply Chain	Mechanism for confirming authenticity of system components

* Intel® AMT requires a network connection; must be a known network for Wi-Fi out-of-band management. Learn more at www.intel.com/11thgenvPro. Results may vary.

Not all features are available on all SKUs. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Please check with your OEM for availability.

The Intel vPro® platform mobile processor family

Features at a glance

Business productivity and technologies	Benefits
Intel® Iris® Xe graphics	Available on U-series mobile processors. Delivers stunning creation and graphics capabilities for immersive work experiences
Intel® Xe graphics architecture	Available on H-series mobile processors. Rich media and intelligent graphics capabilities offer built-in support for multiple high-resolution monitors and improved device performance
Integrated Thunderbolt™ 4 technology	Provides simple and reliable connectivity, charging, and peripheral usage through just one universal computer port
Intel® Optane™ memory H20 with SSD*	Delivers significant gen-over-gen performance gains and large storage capacity options
Integrated Intel® Wi-Fi 6 / Discrete Intel® Wi-Fi 6E (Gig+)	Offers fast speeds, ultra-reliable connectivity, and great wireless experiences
Intel® Deep Learning Boost	Accelerates AI inference, vastly improving performance for iterative deep learning workloads; ¹⁵ Extends Intel® AVX-512 to accelerate AI/machine learning inference
Intel® Dynamic Tuning Technology	Intelligently adapt power and performance based on usage mode and system temperature
Intel® Hyper-Threading Technology	Delivers two processing threads per core, allowing applications to handle greater workloads for more efficient multitasking
Intel® Smart Cache Technology	Dynamically allocates shared cache to each processor core based on workload
Intel® Smart Sound Technology	An integrated audio DSP (Digital Signal Processor) that enables quick responses to voice commands and offers high fidelity audio without impacting system performance
Intel® Gaussian Neural Accelerator 2.0 (GNA 2.0)	Delivers a dedicated engine for background workloads such as voice processing and noise suppression

* Intel® Optane™ memory H20 with SSD is optional.

Not all features are available on all SKUs. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Please check with your OEM for availability.

The Intel vPro® platform mobile processor family

Features at a glance

Business productivity and technologies	Benefits
Intel® Turbo Boost Technology 2.0¹⁶	Dynamically increases the processor's frequency, as needed, by taking advantage of thermal and power headroom when operating below specified limits
Intel® Speed Shift Technology with Energy-Performance Preference	Improves responsiveness for single-threaded transient workloads by allowing the processor to more quickly select its best operating frequency and voltage for optimal performance and power efficiency
Per-core P-states	Allows the monitoring of voltage-frequency control states for each processor core
Intel® Turbo Boost Max Technology 3.0¹⁷	Identifies the best performing core(s) on a processor and provides increased performance on those cores by taking advantage of power and thermal headroom to increase frequency as needed. Intel® Turbo Boost Max Technology 3.0 frequency is the clock frequency of the CPU when running in this mode
Integrated Memory Controller	Improves memory read/write performance through efficient pre-fetching algorithms, lower latency, and higher memory bandwidth (DDR4 up to 3200)
PCI Express (PCIe) Gen4 Interface	Offers up to 20 CPU PCIe 4.0 lanes for fast access to peripheral devices and networking
Intel® Rapid Storage Technology	Offers excellent levels of performance for SATA/PCIe storage components and optional Intel® Optane™ memory H20 with SSD
Serial ATA (SATA)	High speed storage interface supporting up to 6 Gb/s transfer rates for optimal data access (up to 3 SATA ports for U-series and up to 8 SATA ports for H-series)
Support for error correcting code memory	ECC memory is a type of system memory that can detect and correct common kinds of internal data corruption*

* ECC memory support requires both processor and chipset support. ECC memory is only available on Intel® Xeon® processors.

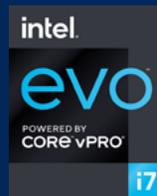
Not all features are available on all SKUs. Please check with your OEM for availability.

Better business-class notebook and mobile workstation experiences start here

with the unrivaled
Intel vPro® platform



Learn more about the built-for-business [Intel vPro® platform](#)



Discover the premium [Intel® Evo™ vPro® platform](#)



Explore the [11th Gen Intel® Core™ vPro® processors](#)



Learn more about [Intel® Iris® Xe graphics](#)

Notices and disclaimers

¹ Based on SPEC CPU® 2017, Intel Estimated based on SPECrate*2017_int_base(1-copy) for ST, SPECrate*2017_fp_base(1-copy) for ST, SPECrate*_2017_int_base(n-copy) for MT, and SPECrate*2017_fp_base(n-copy) for MT score on Intel® Core™ vPro® i9-11950H vs Intel® Core™ vPro® i9-10885H.

² As measured by MLPerf v0.7 (unverified) Inference, Closed Division with Offline Scenario using OpenVINO 2021.3 on Resnet50 model int8 CPU (Batch=4, Instances=8) on Intel internal reference platforms running with 11th Gen Intel® Core™ vPro® i9-11950H processor vs MLPerf v0.7 (unverified) Inference, Closed Division with Offline Scenario using OpenVINO 2021.3 on Resnet50 model int8 CPU (Batch=4, Instances=8) on Intel internal reference platforms running with 10th Gen Intel® Core™ vPro® i9-10885H processor.

³ Based on SPECWorkstation™ 3.1.0 Media and Entertainment, Life Sciences, Product Development, Energy (Oil & Gas), Financial Services, and General Operations score on Intel® Core™ vPro® i9-11950H vs Intel® Core™ vPro® i9-10885H.

^{4,5} In thin & light Windows-based devices, based on unique features and performance testing (as of December 1, 2020) on industry benchmarks and Representative Usage Guides of Intel® Core™ vPro® i7-1185G7, including in comparison to AMD Ryzen 7 PRO 4750U. Visit www.intel.com/11thgenvPro for details. Results may vary.

⁶ See www.intel.com/PerformanceIndex (connectivity). Results may vary.

⁷ Intel® Control-flow Enforcement Technology (Intel® CET) is designed to help protect against jump/call-oriented programming (JOP/COP) attack methods and return-oriented programming (ROP) attack methods, malware known as memory safety issues and which comprise over half of ZDI-disclosed vulnerabilities. Visit www.intel.com/11thgenvPro for details. Results may vary.

⁸ In thin & light Windows-based PCs, based on December 2020 IOActive study (commissioned by Intel) comparing malware detection by 11th Gen Intel® Core™ vPro® platform with Intel® TDT and AMD Ryzen Pro 4750U-based system. Visit www.intel.com/11thgenvPro for details on Intel's industry-leading CPU behavior monitoring technology. Results may vary.

⁹ As measured by December 2020 IOActive study (commissioned by Intel) of in-band software-based remote management functions; out-of-band hardware-based remote management functions; and cloud-based support in thin & light Windows-based PCs. AMT requires a network connection; must be a known network for Wi-Fi out-of-band management. Learn more at www.intel.com/11thgenvPro. Results may vary.

¹⁰ In thin & light Windows-based devices, based on 1) unique features and performance testing on industry benchmarks and Representative Usage Guides across 3 key usages: productivity, creation, and collaboration, comparing Intel® Core™ vPro® i7-1185G7 to AMD Ryzen 7 PRO 4750U and 2) an IOActive study (commissioned by Intel) comparing Intel® Hardware Shield security capabilities on 11th Gen Intel® Core™ vPro® processors with corresponding competitor technologies. All testing as of December 2020. Intel® Evo™ vPro® designs are co-engineered as part of Intel's comprehensive laptop innovation program Project Athena then tested, measured, and verified against a premium specification and key experience indicators to ensure unparalleled user experiences. Visit www.intel.com/11thgenvPro for details. Results may vary.

¹¹ Measured average responsiveness of premium Windows OS-based designs while performing typical workflows in a realistic environment, compared to 3-year-old premium design. Visit www.intel.com/11thgenvPro for details. Results may vary.

¹² Charge attained from OEM-default shutdown level. Visit www.intel.com/11thgenvPro for details. Results may vary.

¹³ Time taken to drain from 100% to critical battery level while performing typical workflows in a realistic environment. Visit www.intel.com/11thgenvPro for details. Results may vary.

¹⁴ Best in class wireless and wired connectivity. Based on integrated Intel® Wi-Fi 6 (Gig+) and Thunderbolt™ 4 technology. For more complete information about performance and benchmark results, visit www.intel.com/11thgen. For workloads and configurations visit www.intel.com/PerformanceIndex. Results may vary.

¹⁵ Results have been estimated or simulated based on internal Intel® analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance. All dates and plans are subject to change without notice. For more complete information about performance and benchmark results, visit www.intel.com/benchmarks. Performance results are based on testing as of the date set forth in the configurations and may not reflect all publicly available updates.

¹⁶ Intel® Turbo Boost Technology requires a PC with a processor with Intel® Turbo Boost Technology capability. Intel® Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel® Turbo Boost Technology. For more information, see www.intel.com/technology/turboboost.

¹⁷ Intel® Thermal Velocity Boost opportunistically and automatically increases clock frequency above single-core and multi-core Intel® Turbo Boost Technology frequencies based on how much the processor is operating below its maximum temperature and whether turbo power budget is available. The frequency gain and duration is dependent on the workload, capabilities of the processor, and the processor cooling solution.

All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications, roadmaps, and related information.

See backup for workloads and configurations. Results may vary.

For workloads and configurations visit www.intel.com/PerformanceIndex. Results may vary.

Altering clock frequency or voltage may void any product warranties and reduce stability, security, performance, and life of the processor and other components. Check with system and component manufacturers for details.

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. No product or component can be absolutely secure.

Your costs and results may vary.

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

Intel contributes to the development of benchmarks by participating in, sponsoring, and/or contributing technical support to various benchmarking groups, including the BenchmarkXPRT Development Community administered by Principled Technologies.

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Backup

Mobile workstation performance claims system configuration

Testing by Intel as of May 3, 2020

New

11th Gen Intel® Core™ i9-11950H processor (TGL-H) PL1=45W TDP, 8C16T; Motherboard: Intel RVP; Memory: Dual Channel 2X16GB DDR4-3200MHz; Graphics: Integrated UHD Graphics, Graphics Driver: 27.20.100.9365, Storage: Samsung 970 EVO Plus 500GB; Display Resolution: 1920x1080; OS: Microsoft Windows 10 Enterprise 10.0.19042.844; Edge Version: 44.19041.423.0; Power Plan: Balanced; AC Power Slider Setting: Better Performance; BIOS version A01. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex.

Previous Gen

10th Gen Intel® Core™ i9-10885H processor (CML-H) PL1=45W TDP, 8C16T, Motherboard: Intel RVP; Memory: Dual Channel 2X16GB DDR4-2933MHz; Graphics: Integrated UHD Graphics, Graphics Driver: 27.20.100.8935, Storage: Samsung 970 EVO Plus 500GB; Display Resolution: 1920x1080; OS: Microsoft Windows 10 Enterprise 10.0.19042.844; Edge Version: 44.19041.423.0; Power Plan: Balanced; AC Power Slider Setting: Better Performance; BIOS version D00. Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex.

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