



11th Gen Intel® Core™ vPro® Processors

**Built for Business.
Wherever Business Happens.**

**PARTNER
SOLUTION BRIEF**



11th Gen Intel® Core™ vPro® Processors

intel[®]

The Intel vPro® platform is powered by the world's best business processors.¹ 11th Gen Intel® Core™ vPro® processors enable amazing experiences for IT and end users and set a new standard in business security, performance, and remote manageability.

Today, more businesses and outsourced IT service providers are discovering how the built-in benefits of the Intel vPro® platform can support today's needs and scale to provide a reliable foundation for growth and business continuity.

From small businesses to large enterprises, end users and IT staff have long enjoyed the benefits of Intel's trusted, built-for-business computing platform. The Intel vPro® platform delivers groundbreaking performance for amazing end user experiences, comprehensive security features, and leading remote manageability and PC stability across all major PC form factors, including state-of-the-art desktops, laptops, and workstations.



The Business World Is Changing Faster Than Ever

The needs of today's business PC users are changing to keep up with a business world that's changing faster than ever.

With more employees working remotely than ever before, many businesses are struggling to keep up with security, manageability, and day-to-day PC troubleshooting that would have otherwise been handled deskside and in-office.

To help alleviate some of the increased demand on IT teams, many businesses have turned to managed service providers (MSPs). Intel has a proven record of working with these specialists to enable robust remote management capabilities and help bolster employee productivity and security for remote workforces. Managed service providers can support businesses' IT needs from anywhere, and are able to help companies minimize PC downtime, make the most of businesses' IT investment, and provide end users with a seamless workflow, wherever a workforce may be.

The Intel vPro® Platform

The Intel vPro® platform delivers a scalable, reliable foundation for growth and business continuity.

PCs 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 and promotes workforce productivity, and helps lower total cost of ownership.

Business-class performance & experiences



Increase productivity and improve the employee experience wherever work happens.

A built-in, more secure foundation



The Intel vPro® platform offers more heavyweight protection of valuable corporate assets with strong hardware-enhanced security features.



Cost-effective device management from initial provisioning to retirement, wherever devices are.

Modern manageability for IT



Cross-industry validation of rigorous use cases and hardware interoperability help keep systems stable, even in variable system environments.

Reliable, stable platforms





The Intel vPro® Platform Advantage

With PCs based on 11th Gen Intel® Core™ vPro® platform processors, businesses and service providers can take full advantage of the latest innovations designed to empower employees to accomplish more — wherever work happens — with:



Groundbreaking **performance** and amazing experiences for business



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



Leading **remote manageability** and platform **stability**

Designed for Intel Partners and Managed Service Providers

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 11th Gen Intel® Core™ vPro® processor-based PCs, however, managed service providers can do more to manage their PC deployments remotely — from performing maintenance to running diagnostics, repairing systems, and rebooting.

By intelligently investing in efficient IT solutions that enable IT teams to compete smarter, businesses can better innovate, boost overall effectiveness, and grow.

Performance and Collaboration



Groundbreaking Performance and Amazing Experiences for Business

The 11th Gen Intel vPro® platform delivers the world's best productivity² for business and the world's best business collaboration.³ With an impressive leap in architecture performance, powerful graphics, and next-gen connectivity and responsiveness, 11th Gen Intel® Core™ vPro® processors deliver amazing real-world experiences for IT and end users, and allow today's workforces to collaborate and work productively from anywhere.

Advanced Performance and Collaboration Features:

- ➊ Your customers' workforces — no matter where they work — can get more done thanks to the power of **Intel® Iris® Xe graphics** that power enhanced collaboration, productivity, creation, and performance for creative applications.
- ➋ **Intel Thunderbolt™ 4 technology** offers just one connection for reliable notebook charging and multiple monitors, letting workers be more productive with content on a large screen by seamlessly connecting to accessories and peripherals.
- ➌ **Intel® Optane™ memory H20 with SSD** enhances the unique advantage of the Intel platform by delivering a new level of performance and large storage capacity options. Compared to its predecessor, the Intel® Optane™ memory H20 with SSD delivers gen-over-gen performance benefits, lower power, and support for Intel® Stable IT Platform Program.
- ➍ **Intel® Wi-Fi 6/6E (Gig+)** provides the best Wi-Fi technology for video conferencing,⁴ offering faster speeds, ultra reliable connectivity, and great wireless experiences that allow employees to collaborate anywhere seamlessly.⁵
- ➎ Be ready for the future of **AI on PCs**. 11th Gen Intel® Core™ vPro® processors are designed to dramatically accelerate the future of AI-enhanced applications and workflows, with up to 8x better AI performance vs. 8th Gen Intel® Core™ vPro® i7-8650U processors.⁶

Comprehensive Security Features



Comprehensive Security Features That Businesses Depend on Yesterday, Today, and Tomorrow

Intel® Hardware Shield, available exclusively on the Intel vPro® platform, provide the world's most comprehensive hardware-based security for business.⁷ The 11th Gen Intel vPro® platform with 11th Gen Intel® Core™ vPro® mobile processors and Intel® Hardware Shield offer enhanced full-stack security features that deliver best-in-class data and device protection for businesses of all sizes.

How Intel® Hardware Shield Works

Intel® Hardware Shield helps provide the balance that IT teams and employees need. The enhanced, built-in security features of the Intel vPro® platform help enable better device performance, increased end user productivity, and remote remediation in the event of a security breach.

Intel® Hardware Shield:

- ④ Designed for **platform integrity** throughout the entire compute lifecycle to help keep your customers' business secure.
- ④ Enables **full-stack PC protection** with advanced threat detection above the OS, app and data protection for the OS and virtual machines, and below-the-OS security for hardware and firmware.
- ④ Provides your customers' workforces with **comprehensive security solutions and uninterrupted end user productivity** by offloading virus scanning from the CPU to the GPU.

Advanced Security Features:

Help secure endpoints from hard-to-detect attacks with:

- ④ **Intel® Control-Flow Enforcement Technology (Intel® CET)**, which provides hardware-based protection against multiple classes of attacks, including memory safety-based attacks and increasingly popular control flow subversion techniques. This solution helps keep your customers' workforces working from everywhere on more secure devices out of the box, and enables more confident computing no matter where employees are.
- ④ **Intel® Threat Detection Technology (Intel® TDT)**, which 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

Manageability and Stability



Leading Remote Manageability and Platform Stability

Keep your customers' fleet of business devices up and running from anywhere with the Intel vPro® platform. With Intel® Active Management Technology (Intel® AMT) with Intel® Endpoint Management Assistant (Intel® EMA), IT teams have access to the only solution that offers cloud-based, remote remediation to return PCs to a known good state, no matter where employees are working — even when the OS is down.⁹

Advanced Manageability and Stability Features:

Intel® Active Management Technology and **Intel® Endpoint Management Assistant** provide:

- ⌚ The only wireless solution for remote manageability in business through Intel® Active Management Technology, available exclusively on the Intel vPro® platform.⁹
- ⌚ Control over PC fleets — both inside and outside the corporate firewall. These advanced solutions are scalable to multiple devices and support both wireless and wired connectivity.
- ⌚ Cloud-ready, out-of-band remote management (via Intel® EMA) helps businesses save time and money.
- ⌚ Remote management capabilities, including remote power control, remote access, and the recently expanded Intel® Remote Secure Erase.

Intel® Stable IT Platform Program (Intel® SIPP) provides industry platform validation that ensures optimal device stability and reliability for all users, with zero hardware changes for at least 15 months or until the next generational release. Intel works collaboratively with OEM partners to certify that devices are built to give IT and end users the stability and reliability of a true business-class device.

The Intel vPro® platform is also supported across a multitude of digital devices — from laptops to digital signage, IoT devices, and more — to give your customers more control over the devices their businesses depend on.



The Intel® Evo™ vPro® Platform

Premium laptops built to deliver the best thin and light laptop experience for business.¹⁰

Thin, stylish, and light, these verified designs — a cutting-edge innovation of Project Athena — represent the best thin and light business laptops for getting things done.¹⁰

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 customers' workforces in their 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 **Intel 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

Choose a Modern Business PC Platform for the Modern Business World

Powered by the 11th Gen Intel® Core™ 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 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 across 3 key usages: productivity, creation, and collaboration 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.

^{2,3} 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™ i7-1185G7, including in comparison to AMD Ryzen 7 Pro 4750U. Visit www.intel.com/11thgenvpro for details. Results may vary.

⁴ For more information about the data presented, visit www.intel.com/wifi6disclaimers. For workloads and configurations visit www.intel.com/PerformanceIndex. Results may vary.

⁵ See www.intel.com/PerformanceIndex (connectivity). Results may vary.

⁶ As measured by MLPerf v0.7 Inference, Mobile Notebooks, Closed Division with Offline Scenario using OpenVINO 2021.1 Pre framework on MobileNetEdge model int8 GPU (Batch=16) on 11th Gen Intel® Core™ i7-1185G7 processor vs highest attainable MLPerf v0.7 Inference, Mobile Notebooks, Closed Division with Offline Scenario using OpenVINO 2021.1 Pre framework on MobileNetEdge model int8 GPU (Batch=1) on 8th Gen Intel® Core™ vPro® i7-8650U processor. For workloads and configurations visit www.intel.com/PerformanceIndex. Results may vary.

⁷ In thin & light Windows-based devices, based on unique features and testing by IOActive (commissioned by Intel; as of December 2020) comparing Intel® Hardware Shield security capabilities with corresponding technologies in an AMD Ryzen Pro 4750U-based system. 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 Intel 11th Gen 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. 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.

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.

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

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. No product or component can be absolutely secure.

Your costs and results may vary.

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

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See configuration disclosure for details. No product or component can be absolutely secure.

Certain features are not available on all SKUs.

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