



Top 10 reasons to adopt HPE ProLiant Gen11 servers powered by the latest AMD EPYC™ processors

Modernize your business with compute engineered for your hybrid world. Hewlett Packard Enterprise and AMD deliver groundbreaking advances in compute and artificial intelligence (AI) that enable countless industries to unlock more value from data and accelerate outcomes that drive insights and innovation. HPE ProLiant Gen11 servers powered by 4th and 5th Gen AMD EPYC™ processors are the next step in our legacy. These robust compute platforms are built to overcome business challenges at the edge, core, and cloud offering a complete portfolio of widely deployed, optimized solutions trusted by industry leaders worldwide.



Here are the top 10 reasons to modernize your business with compute engineered for edge to cloud:

1

Select trusted industry solutions: Enterprises must balance growing demands for performance and capacity across a broad range of workloads while managing tight budgets, data center space, power availability, and other limitations. They rely on industry leaders to provide technologies that can accommodate the most intensive data and AI workloads with a sustainable, futureproof approach. HPE has partnered with AMD on every generation of AMD EPYC processors, proudly continuing with HPE ProLiant Gen11 servers featuring 4th and 5th Gen AMD EPYC processors that are proven to meet evolving business requirements and prepare you for whatever comes next. From supporting enterprise AI-enablement initiatives to hosting complex business-critical applications, our compute platforms offer leadership performance, efficiency, density, and security backed by trusted solutions from HPE, AMD, and our global ecosystem.

2

Evolve with the demands of AI: HPE and AMD provide a powerful foundation for AI, whether you are running single AI pilots or large language models and generative AI workloads. AMD EPYC processor-based systems deliver exceptionally high efficiency for a broad range of AI applications (e.g., AI chatbots and recommendation systems) without the need for GPU acceleration. For more demanding applications (such as fraud detection, edge computer vision, and video analytics), AMD EPYC processors are optimized for use as host CPUs for GPU-enabled systems that provide compelling high performance, energy efficiency, memory, and IO scalability to get maximum value from your AI investments. These capabilities are pivotal for freeing up real estate, energy, and funding to support mixed and traditional workloads and expand your use of AI.

3

Modernize your edge: A new approach to edge computing is needed to gain operational resilience and drive faster insights that increase value. Data at edge is key to understanding customers and processes. HPE ProLiant Gen11 servers modernize your edge by eliminating the wait for immense amounts of data to travel to and from the data center. Powered by 4th and 5th Gen AMD EPYC processors, you can leverage your data anywhere to transform and grow strategically. Our compute platforms are purpose-built for emerging workloads, such as AI, and engineered for every environment. You can harness actionable insights at the edge, where seconds count. Whether you are developing an edge strategy, modernizing, or expanding existing deployments, HPE and AMD help you work seamlessly in any edge environment.



4

Leverage out-of-the-box performance: Accelerate innovation with out-of-the-box performance that allows you to quickly gain value from your investments. HPE ProLiant Gen 11 servers hold 60 world records in performance and efficiency, showcasing our relentless pursuit of computing innovation. This powerful portfolio supports 4th and 5th Gen AMD EPYC processors up to 400W, delivering high performance to optimize your most demanding workloads, from the data center to the edge. Considered the world's best data center processors for enterprise applications, the AMD EPYC family has set hundreds of performance and efficiency world records to outpace many top competitors.

5

Improve energy efficiency: Creating an energy efficient IT environment is critical to supporting your business objectives. The latest AMD EPYC processors provide exceptional performance per watt to help increase data center energy efficiency, which allows enterprises to manage growing workload needs while reducing energy consumption. For quantitative analysis workloads, AMD EPYC processors can deliver up to 2.33x more throughput while improving energy efficiency by approximately 1.31x compared to previous generations for dramatic improvements in data center efficiency.

6

Free up operating space and resources: Improved processor efficiency enables high performance per system and per rack. This means your environment can use less power per unit of work and requires a smaller number of servers to run your workloads. This performance-per-watt enables maximum rack density to run large-scale data management and analytics workloads with fewer demands on data center footprints. HPE ProLiant Gen11 servers based on the latest AMD EPYC processors support IT initiatives such as reining in data center by enabling server consolidation. Our solutions free up space and resources for AI and other business initiatives in your existing footprint. HPE ProLiant Compute Gen11 servers with AMD EPYC processors can provide significant sustainability improvements, reducing server footprint by 64% and cutting power and cooling costs by 49% when consolidating a multigenerational server environment.

7

Power diverse configurations: Higher core count server systems allow enterprises to adopt increasingly large instance configurations, supporting more workloads and enhancing business performance. You can deploy AMD EPYC processor-based servers seamlessly alongside existing x86 server infrastructure to efficiently host new or growing applications. For cloud environments, top-of-stack AMD EPYC processor with 192 cores will support 33% more virtual CPUs than the leading competitive processor with 144 cores.¹ With proven cost-effectiveness delivering excellent performance and agility, you have the flexibility to deploy single server instances up to large-scale, cloud-based infrastructures. Select the right configuration to enable your critical workloads without compromising performance, agility, or efficiency.

¹ 1 vCPU per core with similarly provisioned vCPUs; 192/144 = 1.33

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Rapidly deploy new solutions: Enterprises face demands from alternative platforms to adopt new instruction sets, recompile and maintain new binaries, or to do software work to enable new features and technologies. HPE servers powered by AMD are easily deployable and readily accessible to help accelerate your transformation. You gain peace of mind knowing joint offerings from HPE and AMD are compatible with existing technology infrastructure and can help futureproof for years to come. The complete line of server-based processors is unified by familiar x86 software compatibility that allows you to quickly and non-disruptively deploy the performance or efficiency you need with a common instruction set architecture.

9

Scale flexibly as requirements change: Enterprises need unbounded capacity to adapt to evolving IT and industry requirements and business-critical applications that enable strategic decisions and drive business value. Legacy systems often struggle to scale at the rate your business data is growing and carry burdensome operational and power costs affecting your budget for innovative projects. That's why enterprises trust HPE and AMD to deliver right-size solutions that meet the wide array of challenges faced in the market today. Our compute platforms drive better outcomes by taking advantage of modern infrastructure that is optimized and scalable. Including a wide range of core counts (from a base of 8 cores all the way to 160 cores) with energy efficiency and competitive cost points, HPE ProLiant Gen11 servers can scale to support virtually any business need.

10

Work confidently with trusted security by design: Cyberattacks are becoming more sophisticated as technology advances, and legacy infrastructure can put your data at risk. To protect your hybrid environment, enhanced security features are needed to secure your infrastructure, workloads, and data. Trusted security by design is an edge-to-cloud security architecture that offers threat protection from silicon to software and across the supply chain. HPE ProLiant Gen11 servers are hardened at the core through a zero-trust approach that minimizes threats to hardware and risks from third-party software. Enhanced security features with the HPE silicon root of trust are built into firmware, creating a digital fingerprint for the AMD EPYC processor to validate prior to boot. AMD Infinity Guard adds an additional layer of defense with a silicon-embedded security subsystem that provides both physical and virtual security features.

Prepare your business to disrupt and lead

Get the performance you need to drive business innovation forward. HPE and AMD deliver the performance, efficiency, density, security features, and compatibility to accelerate any workload and prepare for future challenges. Our latest computing platforms unlock the power of data to empower strategic insights and actions from the data center to multiple clouds and edges.

Let's take your business to the next level with compute designed for a hybrid world.

Learn more at

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