HPE ProLiant Compute DL380 Gen12, powered by Intel Xeon 6

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Handling demanding workloads in today's dynamic IT environments can be challenging. The HPE ProLiant Compute DL380 Gen12 is a robust and versatile server designed to answer the challenge. Known for its exceptional performance, the DL380 is a 2U rack server that supports up to two Intel® Xeon® 6 processors, each with up to 144 cores per socket. It features a memory capacity of up to 8 TB, plus high-speed PCIe Gen5 and flexible IO for accelerator options such as GPUs. Its 2U form factor provides a balance of density and expandability, offering ample room for future growth with support for a wide range of storage options, including NVMe drives for fast data access.

Built with a focus on reliability, security, and ease of management, the HPE ProLiant Compute DL380 Gen12 comes equipped with advanced features such as silicon root of trust technology to safeguard your critical data against cyberthreats. It offers a comprehensive suite of management tools, including HPE Compute Ops Management as well as HPE iLO 7, which provide remote management capabilities, enabling IT administrators to manage and troubleshoot the server from anywhere, reducing downtime and operational costs.

Whether you are a small business looking to scale or a large enterprise managing complex workloads in the data center, the HPE ProLiant Compute DL380 Gen12 delivers unparalleled performance, flexibility, and resilience to support your business-critical applications and drive your IT initiatives forward.

HPE ProLiant Compute

Secured
Next-level security

Optimized
More performance and efficiency

Automated
AI-driven productivity

Next-level performance, efficiency, and security

Secured: Like all HPE ProLiant Compute Gen12 servers, the HPE ProLiant Compute DL380 Gen12 delivers next-level security with built-in, industry-leading HPE iLO Silicon Root of Trust, to safeguard every phase of the server lifecycle now and for the future—from manufacturing to end-of-life.

Optimized: Run data-intensive workloads with exceptional performance and efficiency with the lower carbon footprint you demand. Harness unparalleled expansion capabilities to power diverse and demanding workloads with the economic, energy, and space savings of a dual socket 2U system. With ever-increasing power demands on data centers, superior cooling innovations deliver energy efficiency without compromising performance or productivity.

Automated: Ensure smooth enterprise operations with proactive and predictive automation from data center to edge, leveraging a single management solution powered by AI-driven insights. Enable operators to react quicker and gain greater control, from forecasting energy costs to managing a global server footprint. Boost productivity of IT staff by quickly pinpointing problem areas through dashboards, intelligent alerts, and global map view of all servers with status and activity.

HPE ProLiant DL380 Gen12 specifications

Form factor	2U 2P
Processors	Up to: (2) Intel Xeon 6 Processors
GPU support	Up to: (3) double-wide or (8) single-wide
I/O slots	Up to: (6) x16, PCIe Gen5 (2) x16 OCP
Memory	Up to: 8 TB of DDR5 up to 6400 MT/s
Storage	Up to 36x EDSFF, 30x SFF or 20x LFF drives
Cooling	Choice of: Air cooling with standard or performance heatsink and fan kit Direct liquid cooling and fan kit
Management	HPE iLO 7

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Intel Xeon 6 processors

Intel Xeon 6 processors are designed to address market needs for diverse performance and efficiency requirements. These new processors are available with either efficiency cores (E-Cores) or with performance cores (P-Cores), allowing better optimization for user workloads while sharing a common platform foundation and shared software stack. Compute, general purpose, and intensive AI workloads can benefit from the P-Core processors, which are optimized for high performance. High-core density and scale-out workloads benefit from the E-Core processors, optimized for performance-per-watt.

Intel Xeon 6 processor specs

	Intel Xeon 6700-Series Processors with E-Cores	Intel Xeon 6700-Series Processors with P-Cores	Intel Xeon 6500-Series Processors with P-Cores
Ideal workloads	Highest performance-per-watt with enhanced core density for cloud native workloads.	Enhanced performance, ideal for a wide array of data center environments.	Essential performance, ideal for mainstream server and edge environments.
Total cores	Up to 144	Up to 86	Up to 32
Max turbo frequency	Up to 3.2 GHz	Up to 4.3 GHz	Up to 5.1 GHz
Base frequency	Up to 2.4 GHz	Up to 4.0 GHz	Up to 3.5 GHz
Cache	Up to 108 MB	Up to 336 MB	Up to 144 MB
TDP	205W–330W	195W–350W	150W–225W

New generation HPE iLO 7

HPE ProLiant Compute Gen12 servers come equipped with HPE iLO 7, enabling you to securely manage and update the server. HPE iLO 7 has been enhanced for increased usability with an improved UI featuring workflow-based organization of functions, feature search capability, and simplified dashboards with real-time actionable data. Built atop HPE iLO Silicon Root of Trust, HPE iLO 7 features an additional layer of protection with secure enclave, an embedded security processor within the HPE iLO ASIC, ensuring a highly controlled, tamper-resistant environment, and eliminating vulnerabilities associated with external EEPROM storage.

Reduce cost and complexity of virtualized workloads

HPE ProLiant Compute Gen12 combined with HPE VM Essentials, delivers a compelling solution for organizations working to simplify management of their virtual environments. With HPE VM Essentials, customers can manage existing virtualized workloads, re-platform to the HPE VME hypervisor, and experience a simple VM-vending experience across both stacks. Get started now with a free 60-day trial.

HPE Services

HPE Services experts can help you plan, operate, and beyond, so you can adopt AI, accelerate transformation, optimize operations, and maximize IT investments.
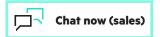
Take the next step toward your data-driven future

The next-gen benefits of the new HPE ProLiant Compute DL380 Gen12, powered by Intel Xeon 6 processors, are within reach. To learn more, contact your authorized HPE representative right away.

Learn more at

HPE.com/ProLiant

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Chat now (sales)

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