HPE ProLiant Compute DL380 Gen12

What's new

- Intel® Xeon® 6 processors that support up to 144 cores, up to 8 TB of DDR5 memory at speeds up to 6400 MT/s, and up to 2x average higher performance for general compute versus previous generations.
- Optional front accessible boot device for quicker access.
- Choice of two cooling options — air cooling or direct liquid cooling (DLC) for performance and energy efficiency to support sustainability initiatives.
- Up to 36 EDSFF E3.S NVMe drives.
- Up to three double-wide (DW) or eight single-wide (SW) GPUs.
- HPE Integrated Lights-Out 7 (iLO 7) server management software with streamlined manageability through a redesigned GUI, Redfish API, and increased security via the patented secure enclave technology.

Overview

Are you looking for a two-socket scalable server that powers data analytics and supports hybrid cloud workloads?

The HPE ProLiant Compute DL380 Gen12 is a scalable 2U 2P server that delivers exceptional compute performance, memory density with scalability and high-speed data transfer rate to run your most demanding applications. Powered by Intel® Xeon® 6 processors with up to 144 cores and up to 8 TB of memory as well as 36 EDSFF E3.S drives, the HPE ProLiant Compute DL380 Gen12 is an ideal hybrid cloud platform for enterprise applications and workloads.

The HPE ProLiant Compute DL380 Gen12 is engineered for your future, with next-level security, optimized performance and efficiencies, and automated, AI-driven productivity.

Features

Next-Level Security

From silicon to software, from factory to cloud, and from generation to generation, HPE ProLiant Compute Gen12 is engineered with a fundamental security approach to defend against increasingly complex threats through an uncompromising commitment to constant security advancements built into our DNA.

With the silicon root of trust from HPE and a zero-trust security framework to help ensure firmware integrity, this server continuously detects if it is compromised and is prevented from booting if malicious code is found. Additionally, this server is safeguarded with default IDevID certificates.

HPE ProLiant Compute servers provide automated recovery from a security event, including restoration of validated firmware, and facilitating recovery of operating system, application and data connections, providing the fastest path to bring a server back online and into normal operations.

The HPE ProLiant Compute DL380 Gen12, powered by Intel® Xeon® 6 processors, adds hardware- and software-assisted security features, including Intel® Software Guard Extensions (SGX) for application isolation and Trusted Domain Extensions (TDX) for VM isolation.

HPE iLO 7 supports quantum-resistant (PQC) algorithms and signs HPE ProLiant Compute Gen12 firmware with algorithms approved by CNSA 2.0, which enhances resilience against potential future attacks by quantum computers.

Optimized Performance for Your Workloads

An excellent choice for compute and data storage demanding workloads requiring maximum core count, GPU capabilities, and network and I/O bandwidth.

Powered by Intel® Xeon® 6 processors with next-generation technology including 16 DIMM channels per processor that supports up to 144 cores and up to 8 TB of DDR5 memory at speeds up to 6400 MT/s.

Advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 6x 16 PCIe Gen5 and 2 OCP slots to improve I/O throughput and reduce latency.

HPE iLO 7 provides real-time operational feedback on server performance plus recommendations for fine-tuning BIOS settings to customize for changing business needs.

Choice of two cooling options — air-cooling or direct liquid cooling (DLC) for performance and energy efficiency to support sustainability initiatives.

Automated, AI-Driven Productivity

HPE ProLiant Compute DL380 Gen12 servers power demanding workloads with the highest security standard for every stage of the server lifecycle, and visibility to drive energy usage and cost efficiencies, helping you optimize your business from edge to cloud.

Transform operations to do more, see more, and gain greater, more proactive control through AI-driven insights. Monitor and maintain all servers within your distributed environment with actionable dashboards that provide a clear view of up-to-date status of server health across all locations.

Automate tasks for efficiency in deployment, instant scalability, and seamless, simplified support and lifecycle management reducing tasks and shortening maintenance windows.

These experiences are engineered and built into all HPE ProLiant Compute Gen12 servers, whether purchased as physical servers or consumed as-a-service using GreenLake as your compute and storage demands grow.

Simplify and secure server management from edge to cloud with HPE Compute Ops Management, an as-a-service compute management experience that delivers greater simplicity, agility, and speed across your distributed compute environment.

Technical specifications	HPE ProLiant Compute DL380 Gen12
Processor type	Intel
Processor family	Intel® Xeon® 6 Scalable processors
Processor number	1 or 2
Processor core available	8 to 144 core, depending on processor
Processor speed	3.9 GHz maximum, depending on processor
Processor cache	2.5 MB to 112.5 MB L3, depending on processor
Memory type	HPE DDR5 Smart Memory
Maximum memory	8 TB with 256 GB DDR5
Memory slots	32
Memory protection features	RAS – Advanced ECC, online spare, mirroring, combined channel (lockstep) functionality, and HPE Fast Fault Tolerant Memory (ADDDC) Intel® Optane™ Persistent Memory
Accelerators	Optional
System fan features	Hot-plug redundant fans, Standard Fan Kit or High Performance Fan Kit, depending on model
Expansion slots	Up to 8 PCIe Gen5, and 2 OCP 3.0 (front or rear), for detailed descriptions reference the QuickSpecs
Form factor	2U Rack
Network controller	1 Gb, 10 Gb, 10/25 Gb, 100 Gb, or 200 Gb, in PCIe adapter or OCP 3.0 form factor, depending on model. For detailed descriptions reference the QuickSpecs.
Storage controller	HPE MR216i-o and/or MR216 i-p, HPE MR416i-o and/or HPE MR416i-p, HPE MR408e-p, HPE 408i-0 and/or HPE MR408i-p, depending on model. For detailed descriptions reference the QuickSpecs.
Drive supported	8 or 12 LFF SAS/SATA/SSD 8, 16, or 24 SFF SAS/SATA/SSD, depending on configuration. 6 SFF rear drive optional or or 2 SFF rear-drive optional, 20 SFF NVMe optional, NVMe support through Express Bay will limit maximum drive capacity, depending on model.
Optical drive type	Optional DVD-ROM Optional through Universal Media Bay External support only.
Power supply type	800W, 1000W, 1600W or 1800W-2200W Dual hot-plug redundant 1+1 HPE Flexible Slot Power Supplies, depending on model.

Technical specifications	HPE ProLiant Compute DL380 Gen12
Infrastructure management	HPE iLO Standard with intelligent provisioning (embedded), HPE OneView Standard (requires download) (standard) HPE iLO Advanced, HPE OneView Advanced (optional, requires licenses), and HPE Compute Ops Management. Refer to the iLO 7 User Guide
Security	HPE TPM 2.0 standard on motherboard. Optional locking Bezel Kit, Intrusion Detection Kit. For full security features refer to the QuickSpecs.
Warranty	3/3/3: Server Warranty includes three years of parts, three years of labor, and three years of on-site support coverage. Additional HPE support and service coverage, to supplement the product warranty, is available. For more information, visit https://www.hpe.com/support.

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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