Data sheet

HPE ProLiant Compute DL360 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 and redesigned intake on front of chassis for optimal airflow and enhanced thermal efficiency.
- Three cooling options — air-cooling, closed-loop liquid cooling for high performance processors, and direct liquid cooling for performance/energy efficiency to support sustainability initiatives.
- Ability to use up to 10 SFF or 20 EDSFF E3.S drives as well an OS Boot device and OCP NICs in the front cage.
- Up to three 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 patented secure enclave technology.

Overview

Are you looking for a compact, rack-optimized two-socket server that supports hybrid cloud workloads?

The HPE ProLiant Compute DL360 Gen12 is a compact 1U 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 20 EDSFF E3.S NVMe drives, the HPE ProLiant Compute DL360 Gen12 is an ideal hybrid cloud platform for enterprise applications and workloads. This server also provides extreme scalability through a hybrid front storage cage that supports not only SFF and E3.S drives, but also an OS Boot device and two front OCP NICs as optional.

The HPE ProLiant Compute DL360 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 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 DL360 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 and Efficiency

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 3 x16 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 three cooling options — air-cooling, closed loop liquid cooling for high performance processors, and direct liquid cooling for performance and energy efficiency to support sustainability initiatives.

Automated, AI-Driven Productivity

HPE ProLiant Compute DL360 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 consume as-a-service using HPE 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 DL360 Gen12
Processor type	Intel
Processor family	Intel® Xeon® 6 Scalable processors
Processor core available	8 to 144 core, depending on processor
Processor cache	48 MB to 336 MB L3 cache, depending on processor
Processor number	1 or 2
Processor speed	4.0 GHz maximum, depending on processor
Maximum memory	8 TB with 256 GB DDR5
Memory slots	32 DDR5 DIMM slots (16 per processor)
Memory type	HPE DDR5 Smart Memory
Memory protection features	On-Die ECC (Error Correction Code) designed to correct bit errors within the DRAM
Drive supported	Up to 4 LFF SAS/SATA HDDs or SSDs, optional 1 OS Boot device (Internal, external accessible from rear wall); Up to 8+2 SFF SAS/SATA HDDs or SATA/SAS/NVMe U.3 SSDs, optional 1 OS Boot device (Internal, external accessible from rear wall); Up to 10 SFF/20 E3.S to be mixed, optional 1 OS Boot Device (Internal, external accessible from rear wall or front cage), Optional 2 front OCP NICs
Optical drive type	Optional - HPE 9.5mm SATA DVD-RW Optical Drive, HPE Mobile USB DVD-RW Drive.
Security	UEFI Secure Boot and Secure Start support. Intel® Software Guard Extensions (SGX) support. Immutable Silicon Root of Trust. Optional Trusted Supply Chain, iLO Security modes, Chassis Intrusion detection and Bezel Locking kits.
Infrastructure management	Included - HPE iLO7 Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download). Optional - HPE iLO7 Advanced, and HPE OneView Advanced.
Power supply type	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit
Expansion slots	Maximum 3 PCIe Gen5 slots (x16 lanes/each) & Maximum 2 OCP3.0 slots (x16 lanes/each)
Network controller	Optional - Minimum 1 to be selected. Wide range of speeds, cabling, chipsets and form factors (PCIe stand-up adapter and OCP3.0 in rear/front). Please see QuickSpecs for network card choices.

Technical specifications	HPE ProLiant Compute DL360 Gen12
Storage controller	Optional - HPE ProLiant Compute Smart Array Gen12 Storage Controller in Variety of protocols -including NVMe, port count, array utilities, and form factors (PCIe stand-up adapter and OCP3.0) Optional - Intel® VROC Hybrid RAID for NVMe Optional - HPE ProrLiant Compute Gen12 OS Boot Device, in rear or front accessible or internal. Please see QuickSpecs for storage controllers selection.
System fan features	Standard Fan Kit (Q'ty 5), Standard Fan Kit (Q'ty 2) for 2nd Processor, High performance Fan Kit (Q'ty 7), Close Loop Liquid Cooling Heatsink & Fan kit, Direct Liquid Cooling Solution.
Form factor	1U Rack
Warranty	3/3/3: Server Warranty includes three years of parts, three years of labor, and three years of on-site support coverage. Additional information regarding worldwide limited warranty and technical support is available at: https://support.hpe.com/hpesc/public/docDisplay?docId=sd00004309en_us. Additional HPE support and service coverage, to supplement the product warranty, is available. For more information, visit: https://www.hpe.com/support.
Accelerators	3 Single-wide GPU in rear

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.

HPE GreenLake

HPE GreenLake edge-to-cloud platform is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them here.

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

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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