Data sheet

HPE ProLiant Compute DL340 Gen12



What's new

- Powered by Intel® Xeon® 6 processors; Up to 144 cores per socket. Increased memory bandwidth to 6400 MT/s, up to 4 TB DDR5 memory capacity.

Overview

Do you need a 2U single-socket server that highlights reduced power consumption and better thermals for your data and storage-centric workloads that need more PCIe lanes?

The HPE ProLiant Compute DL340 Gen12 is a 2U 1P server that offers three CTO chassis that support SFF, LFF, and GPU configurations. The 3-box modular front design enhances the configuration flexibility. Due to the configuration flexibility and the energy efficiency (reduced power consumption due to better thermals within a 2U chassis), the HPE ProLiant Compute DL340 Gen12 server is ideal for customers that have a requirement for Infrastructure-as-a-Service (IaaS), Platform-as-a Service (PaaS), and Software-as-a-Service (SaaS) workloads.

Powered by Intel® Xeon® 6 processors with up to 144 cores, increased memory capability (up to 4 TB), and high-speed PCIe Gen5, the HPE ProLiant Compute DL340 Gen12 server is a great 2U single-socket performance solution driving better datacenter efficiency.

Features

Next-Level Security, Chip to Cloud

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

Silicon root of trust by HPE, establishes a zero-trust security framework at the silicon level to ensure firmware integrity. Continuous protection detects compromised servers and prevents them from booting if malicious code is found. Edge servers are 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.

Intel® Xeon® 6 processors add hardware- and software-assisted security features like such as Intel® Software Guard Extensions (SGX) for application isolation and Trusted Domain Extensions (TDX) for VM isolation, which help protect the server hardware foundation and safeguard data in memory.

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: Accelerated, Open, and Efficient

The HPE ProLiant Compute DL340 Gen12 server is an excellent choice for data and storage centric workloads that need more PCIe lanes.

Harness major compute performance. The HPE ProLiant Compute DL340 Gen12 server is powered by Intel® Xeon® 6 processors that support up to 144 cores.

Enjoy advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 6x16 PCIe Gen5 and 2 x16 OCP slots to improve I/O throughput and reduce latency.

Utilize 16 DIMM slots for up to 4 TB DDR5 memory with increased memory bandwidth and performance.

The server provides air cooling with standard or performance heatsink and fan kits.

Intuitive Cloud Operating Experience: Simple, Self-service, and Automated

HPE ProLiant Compute DL340 Gen12 servers are engineered for your hybrid world. The new HPE ProLiant Compute Gen12 servers simplify the way you control your business's compute—from edge to cloud—with a cloud operating experience.

Transform business operations and pivot your team from reactive to proactive with global visibility and insight through a self-service console.

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

Industry-leading Services and Ease of Deployment

The HPE ProLiant Compute DL340 Gen12 server comes with a complete set of HPE Services, delivering confidence, reducing risk, and helping customers realize agility and stability.

HPE Services simplify all stages of the IT journey. Advisory and Transformation Services professionals understand your challenges and design an effective solution. Professional Services enable rapid deployment of solutions and Operational Services provide ongoing support.

Services provided under Operational Services include: HPE Flexible Capacity, HPE Datacenter Care, HPE Infrastructure Automation, HPE Campus Care, HPE Proactive Services and multi-vendor coverage.

HPE IT investment solutions help you transform into a digital business with IT economics that align with your business goals.

Benefit from real-time operational feedback on server performance plus recommendations for fine-tuning BIOS settings to customize for changing business needs.

Technical specifications	HPE ProLiant Compute DL340 Gen12
Processor type	Intel
Processor family	Intel® Xeon® 6 processors
Processor core available	8 to 144 core, depending on processor
Processor cache	48 - 336 MB L3, depending on processor
Processor number	1
Processor speed	3.5 GHz maximum, depending on processor
Maximum memory	4.0 TB, when populated with 256 GB DDR5 Memory
Memory slots	16
Memory type	HPE DDR5 Smart Memory
Drive supported	Up to 12 LFF SAS/SATA, Up to 24 SFF SAS/SATA/NVMe, Up to 36 EDSFF drives, depending on chassis type and system configuration
Optical drive type	Optional DVD-ROM / DVD-RW Optical Drive
Security	For full security features refer to the QuickSpecs
Infrastructure management	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download), HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced (require licenses), HPE Compute Ops Management (subscription included). Refer to the iLO 7 User Guide
Power supply type	1000W, 1500W, 2400W, or 3200W Titanium Hot Plug Modular - Common Redundant Power Supply (M-CRP)
Expansion slots	Up to 6 PCIe Gen5, and 2 OCP 3.0, for detailed descriptions reference the QuickSpecs
Network controller	Wide range of speeds, cabling, chipsets and form factors (PCIe stand-up adapter and OCP3.0). Please refer to the QuickSpecs for network card choices.
Storage controller	Optional - HPE MR216i-o, MR216i-p, MR408i-o, MR408i-p, MR416i-o, and MR416i-p storage controllers. Please refer to the QuickSpecs for storage controller selection.
System fan features	6 Hot-plug redundant fans included, Standard Fan Kit or High Performance Fan Kit, depending on system configuration
Form factor	2U Rack

Technical specifications	HPE ProLiant Compute DL340 Gen12
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://www.hpe.com/support/ProLiantServers-Warranties. Additional HPE support and service coverage, to supplement the product warranty, is available at: https://www.hpe.com/support.
Accelerators	Maximum of 4 double-wide in the front or 6 single-wide in the rear, depending on model

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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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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PSN1014835192USEN, April, 2026.

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