

HPE ProLiant Compute DL340e Gen12



What's new

- New and enhanced storage server with 2U 1P storage density optimized design for larger storage capacity and higher data management efficiency, built for data intensive applications.
- Supports up to 24 LFF in the front and optional up to 10 EDSFF in the rear within a 2U standard depth chassis.
- Powered by Intel® Xeon® 6 processors up to 144 cores per socket. Increased memory bandwidth to 6400 MT/s, up to 2 TB DDR5 memory capacity.
- HPE iLO7 management and security features

Overview

Power datadriven initiatives with the balanced performance and efficient economics of HPE ProLiant Compute DL340e Gen12, a secure, highdensity 2U singlesocket enhanced storage server. It features a single CTO chassis supporting up to 24 front LFF drives with optional rear EDSFF, delivering scalable capacity in a compact footprint. As the next generation of the HPE Alletra Storage Server 4000 family, DL340e Gen12 is optimized for dataintensive workloads such as AI and analytics data lakes, softwaredefined file and object storage, data protection, and deep archive. Its balanced data processing architecture improves data flow for storageheavy workloads, while the established ProLiant, cloudenabled management experience simplifies operations. Built with security as a core design principle, DL340e Gen12 helps customers reduce risk, meet compliance requirements, and achieve higher data management efficiency at a lower cost per GB.

Features

Built for data intensive applications: accomplish more as data grows and evolves

The HPE ProLiant Compute DL340e Gen12 server can manage larger storage capacity with higher efficiency by supporting up to 24 LFF in the front and optionally up to 10 EDSFF in the rear within a 2U standard depth chassis.

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

Play an ideal data lake role within data center infrastructure by supporting advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 6 PCIe Gen5 and up to 2 OCP slots to improve I/O throughput and reduce latency.

Utilize 16 DIMM slots for up to 2 TB DDR5 memory with the right memory capacity and performance needed for storage workloads.

The server provides air cooling with performance fan and heatsink kits to be deployed in various environment.

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.

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

HPE ProLiant Compute DL340e 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 DL340e Gen12 server offers 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 DL340e 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	2.0 TB, when populated with 128 GB DDR5 Memory
Memory slots	16
Memory type	HPE DDR5 Smart Memory
Drive supported	Up to 24 LFF SAS/SATA in the front, optional up to 10 EDSFF drives in the rear, depending on system configuration
Security	For full security features refer to the QuickSpecs
Infrastructure management	<p>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).</p> <p>Refer to the iLO 7 User Guide</p>
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 up to 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	Minimum 1 and optional up to 4 HPE MR216i-p or MR416i-p storage controllers. Please refer to the QuickSpecs for storage controller selection.
System fan features	6 Hot-plug High Performance fans included
Form factor	2U 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://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 5 single-wide in the rear, depending on configuration

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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