Data sheet

HPE ProLiant Compute DL345 Gen12

What's new

- Powered by 5th Generation AMD EPYC Processors; Up to 192 cores, 500W. Up to 6 TB DDR5 memory capacity, 5200MT/s.
- Ability to use up to 24 SFF or 36 EDSFF E3.S drives as well an OS boot device and OCP NICs in the front cage.
- Optional front-accessible boot device for quicker access and redesigned intake on front of chassis for optimal airflow and enhanced thermal efficiency.
- Up to four double-width 400W or six single-wide 75W GPUs.
- HPE Integrated Lights-Out 7 (iLO 7) server management software with streamlined manageability through a redesigned GUI, Redfish API, and increased security through patented secure enclave technology.

Overview

Are you looking for a single-socket scalable server solution to power your virtualized data-intensive, large-capacity memory workloads?

The HPE ProLiant DL345 Gen12 server is a scalable 2U 1P solution that delivers exceptional compute performance and large-capacity storage options at 1P economics. This efficient and workload-optimized solution is ideal for virtualization, SDS, and data management.

Powered by 5th Generation AMD EPYC™ processors with up to 192 cores, increased memory bandwidth (up to 6 TB), high-speed PCIe Gen5 I/O and EDSFF storage, up to 12 LFF/ 26 SFF/ 36 EDSFF, and up to four double-width GPUs at the front, this server is a superb single-socket 2U solution for your data-intensive workloads.

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.

5th Generation AMD EPYC with Infinity Guard is built-in at the silicon level, offering advanced capabilities required to help defend against internal and external threats to keep your data safe.

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 DL345 Gen12 server is an efficient, scalable solution optimized for large storage capacity.

Transform your data center and advance your business. The HPE ProLiant Compute DL345 Gen12 server is powered by 5th Generation AMD EPYC 9005 processors that support up to 192 cores and 500W.

Experience advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to six PCIe Gen5 and and two front or rear OCP NIC or controller add-in cards slots to improve I/O throughput and reduce latency.

Utilize 24 DIMM slots for up to 6 TB DDR5 memory with increased memory bandwidth and performance.

This server provides air cooling or direct liquid cooling.

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

HPE ProLiant Compute DL345 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.

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.

Industry-leading Services and Ease of Deployment

The HPE ProLiant Compute DL345 Gen12 server comes with a complete set of HPE Services, delivering confidence, reducing risk, and helping customers realize agility and stability.

HPE Services simplifies the 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 DL345 Gen12
Processor type	AMD
Processor family	5th Generation AMD EPYC™ Processors
Processor core available	8 to 192 core, depending on processor
Processor cache	64 - 512 MB L3, depending on processor
Processor number	1
Processor speed	5 GHz maximum, depending on processor
Maximum memory	6.0 TB with 256 GB DDR5
Memory slots	24 DDR5 DIMM slots
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 12 LFF SAS/SATA, 24 SFF SAS/SATA/NVMe, or 36 EDSFF NVMe at the front Up to 2 SFF SAS/SATA/NVMe at the rear depending on model
Optical drive type	Optional DVD-ROM Optional via Universal Media Bay External support only
Security	Dual locking bezel with high-security Medeco locks and tamper-evident enclosure seals TPM 2.0, Silicon Root of Trust, Secure Boot, optional configuration lock, optional data-at-rest hardware encryption, optional Secure Erase, lockable bezel
Infrastructure management	Included - HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download) Optional - HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced
Power supply type	Up to 2 HPE Modular Common Redundant (M-CRPS) Power Supplies, wattage depending on model
Expansion slots	Up to 6 PCIe Gen5 slots (x16 lanes/each) & 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). See QuickSpecs for network card choices.
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 - HPE ProLiant Compute Gen12 OS boot device, in rear or front accessible or internal. See QuickSpecs for storage controllers selection.
System fan features	7 fans included, standard fan or performance fan
Form factor	2U Rack

Technical specifications	HPE ProLiant Compute DL345 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 HPE support and service coverage, to supplement the product warranty, is available. For more information, visit https://www.hpe.com/support
Accelerators	Up to 4 double-width 400W or 6 single-width 75W GPUs

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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