HPE ProLiant DL345 Gen11

ProLiant DL300 Servers

What's new

- Powered by the 4th Generation AMD EPYC™ Processors with 5nm technology that supports up to 96 cores at 400 W, 384 MB of L3 cache, and 12 DIMMs for DDR5

Overview

Are you looking for a single-socket scalable server solution to power your virtualized data-intense, large-capacity storage workloads?
The HPE ProLiant DL345 Gen11 server is a scalable 2U 1P solution that delivers exceptional compute performance and

memory up to 4800MT/s.

- 12 DIMM channels per processor for up to 3 TB[1] total DDR5 memory with increased memory bandwidth and performance, and lower power requirements.
- Advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 6x16 PCIe Gen5 and two OCP slots.
- Includes HPE Integrated Lights-Out 6 (iLO 6) server management software that enables you to securely configure, monitor, and update your HPE ProLiant Gen11 servers seamlessly from anywhere.
- Supports hot-pluggable, high-availability RAID M.2 boot options.
- Supports mid/rear drive bay options, total of up to 34 SFF / 20 LFF drives

large capacity storage options at 1P economics. Powered by 4th Generation AMD EPYC™ Processors with up to 96 cores, increased memory bandwidth (up to 3 TB[1]), high-speed PCIe Gen5 I/O and EDSFF[2] storage, up to 20 LFF/ 34 SFF, and up to four GPUs at the front[2], this server is a superb single-socket 2U solution for your data-intensive workloads. Enhanced security features with the silicon root of trust from HPE are built into the firmware, creating a digital fingerprint for the AMD Secure Processor to validate safe operation prior to boot. The HPE ProLiant DL345 Gen11 server provides impressive storage performance and options for data-intensive workloads such as software-defined storage, video transcoding, and virtualized apps.

Features

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

HPE ProLiant DL345 Gen11 servers are engineered for your hybrid world. The HPE ProLiant Gen11 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 and instant scalability for seamless, simplified support and lifecycle management, reducing tasks and shortening maintenance windows.

These experiences are engineered and built into all HPE ProLiant Gen11 servers, whether purchased as physical servers or consumed as-a-service using HPE GreenLake as your compute and storage demands grow.

Simplify and secure server management from edge to cloud with HPE GreenLake for Compute Ops ManagementHPE GreenLake for Compute Ops Management is an as-a-service compute management experience that delivers greater simplicity, agility, and speed across your entire compute landscape, globally.

Trusted Security by Design: Uncompromising, Fundamental, and Protected

The HPE ProLiant DL345 Gen11 server is tied into the silicon root of trust and the AMD Secure Processor, a dedicated security processor embedded in the AMD EPYC™ system on a chip (SoC), to manage secure boot, memory encryption, and secure virtualization.

HPE ProLiant Gen11 servers use the silicon root of trust to anchor the firmware of an HPE ASIC, creating an immutable fingerprint for the AMD Secure Processor that must be matched exactly before the server will boot. This helps ensure malicious code is contained, and healthy servers are protected.

HPE ProLiant Gen11 servers continuously protect healthy servers at the edge by providing rapid detection of security-compromised servers, even to the point of not allowing them to boot if it identifies and contains malicious code, with IDevID certificates installed by default.

HPE ProLiant Gen 11 servers provide automated recovery from a security event, including restoration of validated firmware, and facilitating recovery of the operating system, application, data connections, and providing a fast path to bring a server back online and into normal operations.

From silicon to software, from factory to cloud, and from generation to generation, HPE ProLiant Gen11 is engineered with a fundamental security approach to defend against increasingly complex threats through an uncompromising commitment to constant security advancements that are built into our DNA.

Customized Performance for your Workloads: Accelerated, Open, and Efficient

The HPE ProLiant DL345 Gen11 server is an excellent choice for data-intensive workloads such as software-defined storage, video transcoding, and such, and virtualized apps that require large storage capacity, and high I/O and memory bandwidth.

Harness major computer performance. The HPE ProLiant DL345 Gen11 server is powered by the 4th Generation AMD EPYC™ Processors with 5nm technology that supports up to 96 cores, 400W, and 384 MB of L3 cache.

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

Increase memory bandwidth and performance, and lower power requirements with 12 DIMM channels per processor for up to 3 TB[1] total DDR5 memory.

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

Technical specifications — HPE ProLiant DL345 Gen11

Processor family	4th Generation AMD EPYC™ Processors
Processor core available	Up to 96, depending on processor
Processor cache	Up to 384 MB L3 cache, depending on processor model
Processor speed	4.0 GHz maximum, depending on processor
Power supply type	2 Flexible Slot power supplies maximum, depending on model
Expansion slots	8 maximum, for detailed descriptions refer to the QuickSpecs
Maximum memory	3.0 TB[1] with 256 GB DDR5
Memory slots	12
Memory type	HPE DDR5 SmartMemory
Memory protection features	ECC
System fan features	6 fans included
Network controller	Optional OCP and/or optional PCIe Network adapters, depending on model
Storage controller	HPE Smart Array SAS/SATA Controllers or Tri-Mode controllers, refer to the QuickSpecs for more details
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 GreenLake for Compute Ops Management (subscription included)
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/hpsc/wc/public/home. Additional HPE support and service coverage for your product can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to the HPE website at https://www.hpe.com/support.
Drive supported	8 or 12 LFF SAS/SATA with 4 LFF mid drives and 4 LFF rear drives optional. 8 or 16 or 24 SFF SAS/SATA/NVMe with 8 SFF mid drives and 2 SFF rear drives optional. 36 EDSFF NVMe[2]

Maximum memory capacity support available Q1 2023. Subject to change.

Enterprise and Data Center SSD Form Factor (EDSFF) and GPUs chassis support available Q1 2023. Subject to change.

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

HPE Pointnext Services

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- GreenLake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support 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 is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads 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.

Explore **HPE GreenLake**

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Contact our presales specialists.

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