HPE ProLiant DL345 Gen11



What's new

- Powered by the 4th and 5th Generation AMD EPYC™ Processors with 5nm technology that supports up to 160 cores at 400W, 384 MB of L3 cache, and 12 DIMMs for DDR5 6400 MT/s memory.
- 12 DIMM channels per processor for up to 3 TB total DDR5 6400 MT/s 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, two OCP 3.0 slots, and up to 36 EDSFF E3.S 1T NVMe.
- 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.

Overview

Are you looking for a single-socket scalable server solution to power your virtualized data-intense, large-capacity storage workloads while meeting your energy efficiency target?

The HPE ProLiant DL345 Gen11 server is a scalable 2U 1P solution that delivers exceptional compute performance and large capacity storage options at 1P economics. Powered by 4th and 5th Generation AMD EPYC™ Processors with up to 160 cores, increased memory bandwidth (up to 3 TB 6400 MT/s), high-speed PCIe Gen5 I/O and EDSFF storage, up to 20 LFF/ 34 SFF/ 36 EDSFF, and up to four GPUs at the front, 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. This server provides impressive storage performance and options for data-intensive workloads such as software-defined storage.

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 GreenLake Flex Solutions as your compute and storage demands grow.

Simplify and secure server management from edge to cloud with HPE Compute Ops Management HPE 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 Gen11 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 and 5th Generation AMD EPYC™ Processors with 5nm technology that supports up to 160 cores, 400W, and 1150 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 total DDR5 6400 MT/s 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 type	AMD
Processor family	4th and 5th Generation AMD EPYC™ Processors
Processor core available	Up to 160, depending on processor
Processor cache	Up to 1150 MB L3 cache, depending on processor model
Processor number	1
Processor speed	5.0 GHz maximum, depending on processor
Maximum memory	3.0 TB with 256 GB DDR5
Memory slots	12
Memory type	HPE DDR5 Smart Memory
Memory protection features	ECC
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 E3.S 1T NVMe
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)
Power supply type	2 Flexible Slot power supplies maximum, depending on model
Expansion slots	8 maximum, for detailed descriptions refer to the QuickSpecs
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
System fan features	6 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://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.

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 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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