HPE ProLiant DL345 Gen11 9124 2.7GHz 16-core 1P 32GB-R MR408i-o 8LFF 800W PS Server (P58793-B21)

What's new

- Powered by the 4th Generation AMD EPYC™ Processors with 5nm technology that supports up to 128 cores at 400W, 384 MB of L3 cache, and 12 DIMMs for DDR5 memory up to 4800 MT/s.
- 12 DIMM channels per processor for up to 3 TB 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, 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,

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 large capacity storage options at 1P economics. Powered by 4th Generation AMD EPYC™ Processors with up to 128 cores, increased memory bandwidth (up to 3 TB), 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. The HPE ProLiant DL345 Gen11 server provides impressive storage performance and options for data-intensive workloads such as software-defined storage, video transcoding,

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.

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 Management HPE 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 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 Generation AMD EPYC™ Processors with 5nm technology that supports up to 128 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 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 9124 2.7GHz 16-core 1P 32GB-R MR408i-o 8LFF 800W PS Server

Product Number	P58793-B21
Processor name	AMD EPYC™ 9124 (16 core, 3.0 GHz, 64 MB L3, 200W)
Processor number	1 processor included
Processor core available	16 core
Processor cache	64 MB L3
Processor speed	3.0 GHz
Power supply type	1x HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit
Expansion slots	1 OCP 3.0, 2 PCIe Gen 5 x16, for detailed descriptions refer to the QuickSpecs
Persistent memory type	##Blank##
Persistent memory media capacity	##Blank##
Memory type	HPE DDR5 SmartMemory
Included hard drives	None ship standard, 8 LFF supported
Optical drive type	Optional, None ship standard
System fan features	6 standard fans included
Network controller	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
Storage controller	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller
Product dimensions	60.02 x 91.77 x 27 cm
DIMM capacity	32 GB RDIMM
Weight	26.5 kg
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.

GPUs chassis support available in Q3 2023. Subject to change.

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.

Consulting 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.

Operational 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.

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.

The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.

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.

Explore **HPE GreenLake**

**Make the right purchase decision.
Contact our presales specialists.**

Find a partner

Chat now (sales)

Share now

Get updates

**Hewlett Packard
Enterprise**