HPE ProLiant DL320 Gen11

What's new

- Powered by the 4th and 5th Gen Intel® Xeon® Scalable Processors with next-generation 5nm technology that supports up to 60 cores at 270W and 16 DIMMs of DDR5 memory up to 5600 MT/s.
- 16 DIMMs per processor for up to 2 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 2x16 PCIe Gen5 and 1 OCP3.0 slots.
- Includes the new 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 or internal, high-availability RAID1 NVMe M.2 boot options.
- Support for up to 4 Single Wide or 2 Double Wide GPUs in the front cage with the GPU CTO server.

Overview

Are you looking to run edge AI workloads like Computer Vision that need GPU accelerators or distributed data solutions that require expandable storage?

The HPE ProLiant DL320 Gen11 is a 1U 1P server with a unique compact design and workload-driven modular design that is purpose-built for edge computing delivering exceptional performance at 1P economics and an excellent choice for both virtualized and containerized workloads.

Powered by 4th and 5th Gen Intel® Xeon® Scalable Processors with up to 60 cores, 270W, increased memory capability (up to 2 TB 5600 MT/s), and high-speed PCIe Gen5 supporting up to four single-wide GPUs (or two double-wide), the HPE ProLiant DL320 Gen11 server is a perfect low-cost, 1U 1P, performance solution.

The HPE ProLiant Gen11 servers are engineered to optimize IT at the edge with a cloud operating experience, built-in security, and optimized performance for workloads to drive your business forward.

Features

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

HPE ProLiant DL320 Gen11 servers are engineered for your hybrid world. The HPE ProLiant DL320 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, instant scalability, and 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 consume 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 DL320 Gen11 server is tied into the silicon root of trust and the 4th and 5th Gen Intel® Xeon® Scalable Processor, a dedicated security processor embedded in the Intel Xeon 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 Intel® Xeon® Processor that must be matched exactly before the server will boot. This ensures malicious code is contained and healthy servers are protected.

HPE ProLiant Gen11 servers continuously protect healthy servers 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, and secure servers at the edge 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, and data connections, providing the fastest 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.

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

The HPE ProLiant DL320 Gen11 server is an excellent choice for virtualized workloads such as software-defined compute, CDN, and VDI, and secure edge apps that require balancing processor, memory, and network bandwidth.

Harness major computer performance. The HPE ProLiant DL320 Gen11 server is powered by 4th and 5th Gen Intel® Xeon® Scalable Processors with modern 5nm technology that support up to 60 cores and 270W TDP.

Enjoy advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 2x16 PCIe Gen5 and 1 OCP slots to improve I/O throughput and reduce latency.

Utilize 16 DIMM channels per processor for up to 2 TB total DDR5 memory with increased memory bandwidth and performance, and lower power requirements.

Benefit from real-time operational feedback on server performance plus recommendations for fine-tuning BIOS settings to customize for changing

business needs.

Delivered As-a-Service

The HPE ProLiant DL320 Gen11 server is supported by HPE GreenLake to simplify IT. With 24x7 monitoring and management, our experts do the heavy lifting to manage your environment with services built into consumption-based solutions.

Hewlett Packard Enterprise provides customers choice in how they acquire and consume IT. Beyond traditional financing and leasing, HPE offers options that free trapped capital, accelerate infrastructure updates and provide for on-premises pay-per-use consumption with HPE GreenLake.

Rapidly deploy a broad portfolio of cloud services such as, containers, compute, virtual machines (VMs), accelerated storage, data protection, and more. Workload-optimized, preconfigured solutions can be quickly on-boarded, accelerating your agility

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 DL320 Gen11

Processor type	Intel®
Processor family	5th Gen Intel® Xeon® Scalable Processors and 4th Gen Intel® Xeon® Scalable Processors
Processor number	1
Processor core available	8 to 60 core, depending on processor.
Processor cache	22.50 - 300 MB L3, depending on processor.
Processor speed	3.9 GHz maximum, depending on processor.
Power supply type	HPE 500W Flex Slot Platinum Hot Plug Power Supply, HPE 800W Flex Slot Platinum Hot Plug Power Supply, HPE 1000W Flex Slot Titanium Power Supply, HPE 1600W Flex slot Platinum Hot Plug Power Supply, HPE 1800-2000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit depending on model.
Expansion slots	Maximum, 2 PCIe Gen5 & 1 OCP 3.0 PCIe Gen5, for detail descriptions please refer to the QuickSpecs.
Maximum memory	2.0 TB per socket, one socket only, when populated with 128 GB DDR5 Memory.
Memory slots	16 DIMM slots per socket, one socket only
Memory type	HPE DDR5 Smart Memory
Memory protection features	HPE Fast Fault Tolerant Memory Advanced ECC Memory Online Spare Memory Mirrored Memory
Optical drive type	None included, optional HPE 9.5mm SATA DVD-RW Optical Drive or HPE Mobile USB DVD-RW Drive
System fan features	Standard Fan Kit or High Performance Fan Kit, depending on model.
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	Included - Embedded SATA controller (AHCI or Intel SATA software RAID controller) Optional - HPE Smart Array Gen11 Storage Controller in Variety of protocols -including NVMe-, port count, array utilities, and form factors (PCIe stand-up adapter and OCP3.0). Please refer to the QuickSpecs for storage controllers selection.
DIMM capacity	16 GB to 128 GB
Infrastructure management	Included - HPE GreenLake for Compute Ops Management, HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download). Optional - HPE iLO Advanced, and HPE OneView Advanced.
Warranty	3/3/3: Server Warranty includes three years of parts, three years of labor, and three years of onsite support coverage. Additional information regarding worldwide limited warranty and technical support is available at: https://h20564.www2.hpe.com/hpsc/wc/public/home. Additional HPE support and service coverage, to supplement the product warranty, is available. For more information, visit https://www.hpe.com/support
Drive supported	Up to 8+2 SFF SAS/SATA HDDs or SATA/SAS/NVMe U.2 or U.3 SDDs, depending on model. Up to 12 LFF SAS/SATA HDDs or SSDs, depending on the model. Up to 8 EDSFF E3.s 1T, depending on model. Optional embedded 2 M.2 Boot SSD. Optional RAID 1 NVMe M.2 Boot device (Internal or external accessible from rear wall with 2x NVMe M.2 incorporated).

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

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

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