# HPE ProLiant DL320 Gen11

## HPE ProLiant DL320 Gen11 5416S 2.0GHz 16c 1P 2x32GB-R 8SFF NS204i-u 2x800W PS NA Server (P69302-005)

### 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 2x 16 PCIe Gen5 and 1 OCP 3.0 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 four single-wide or two 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 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 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 2x 16 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 GreenLake Flex Solutions to simplify IT. With 24/7 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 GreenLake Flex Solutions.

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 5416S 2.0GHz 16c 1P 2x32GB-R 8SFF NS204i-u 2x800W PS NA Server |
|---|---|
| **Product Number** | P69302-005 |
| **Processor name** | Intel® Xeon® Gold 5416S (16 core, 2.00 GHz, 30 MB L3, 150W) |
| **Processor number** | 1 processor included |
| **Processor core available** | 16 core |
| **Processor speed** | 2.00 GHz |
| **Processor cache** | 30 MB L3 |
| **Memory type** | HPE DDR5 Smart Memory |
| **Included memory** | 64 GB (2x32 GB, 4800 MT/s) |
| **Accelerators** | Supports up to two double-wide or four single-wide PCIe Accelerators (GPU), depending on model. See QuickSpecs for details. |
| **System fan features** | 7x High Performance Fans |
| **Expansion slots** | One PCIe Gen5 & One OCP 3.0 PCIe Gen5 |
| **Form factor** | 1U Rack |
| **Network controller** | Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T Adapter |
| **Storage controller** | HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device |
| **Included drives** | None ship standard, 8 SFF supported |
| **Optical drive type** | None included (Optical Drive options available) |
| **Power supply type** | 2x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit |
| **Infrastructure management** | Included - HPE Compute Ops Management, HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download).<br>Optional - HPE iLO Advanced, and HPE OneView Advanced. |
| **Security** | UEFI Secure Boot and Secure Start support.<br>Intel® Software Guard Extensions (SGX) support.<br>Immutable Silicon Root of Trust.<br>Optional Trusted Supply Chain, iLO Security modes, TPM, Chassis Intrusion detection and Bezel Locking kits. |
| **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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