HPE ProLiant DL360 Gen11

HPE ProLiant DL360 Gen11 4510 2.4GHz 12c 1P 2x32GB-R 8SFF NS204i-u MR408i-o 2x800W PS AP Server (P81578-375)

What's new

- Powered by 5th Gen Intel® Xeon® Scalable Processors that supports up to 64 cores & 385W, and 16 DIMMs for up to 8 TB of high bandwidth DDR5 memory up to 5600 MHz.
- 16 DIMMs per processor for up to 8 TB total DDR5 memory per server with increased performance, High Bandwidth Memory (HBM) support, 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 2 OCP 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 up to three single-wide (SW) GPUs[1] to accelerate graphic intense workloads.
- Supports Liquid Cooling Modules for highest thermal design points (TDPs).

Overview

Are you looking for a scalable, compute-dense solution for hybrid cloud or other data workloads in a virtualized and containerized environment?

The HPE ProLiant DL360 Gen11 server is a rack-optimized, 1U 2P solution that delivers exceptional compute performance, upgraded high-speed data transfer rate, and memory depth at 2P compute capability.

Powered by 4th and 5th Gen Intel® Xeon® Scalable Processors with up to 64 cores, 8 TB of memory, and 20 EDSFF drives as well as increased memory bandwidth and high-speed PCIe Gen5 I/O, the HPE ProLiant DL360 Gen11 server is a perfect solution for Electronic Design Automation (EDA), CAD, and VDI.

The HPE ProLiant 360 Gen11 server is engineered to optimize IT 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 DL360 Gen11 servers are engineered for your hybrid world. ProLiant DL360 Gen11 servers are powered by 4th and 5th Gen Intel® Xeon® Scalable Processors and 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 to reduce and shorten maintenance windows.

Self-service automated 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 DL360 Gen11 server utilizes the HPE Silicon Root of Trust, HPE's fundamental approach to security that provides zero-trust architecture at the silicon level and ensures all server essential firmware is free from malware or compromised code.

Powered by 4th and 5th Gen Intel® Xeon® Scalable Processors, adds hardware- and software-assisted security features, including Intel® Software Guard Extensions and Intel® Boot Guard, which help secure the server hardware foundation on which critical apps run and better protect data in memory.

HPE ProLiant Gen11 servers continuously protect healthy servers by a) providing rapid detection of security-compromised servers, even to the point of not allowing them to boot if it identifies malicious code, and b) securing 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 a fast path to bring a server back online and into normal operations.

Embedded in Hewlett Packard Enterprise servers, HPE Integrated Lights-Out 6 (iLO 6) is an exclusive core intelligence that monitors server status, providing the means for reporting, ongoing management, service alerting, and local or remote management to quickly identify and resolve issues.

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

The HPE ProLiant DL360 Gen11 server is an excellent choice for EDA, CAD, CDN, general-purpose virtualization workloads (including large-scale VDI), Inteligent Video Analytics, and Platforms (VCF & Containers) that require increased compute density with built-in security and flexibility.

Harness major computer performance. The HPE ProLiant DL360 Gen11 server is powered by the 4th and 5th Gen Intel® Xeon® Scalable Processors with next-generation technology that supports up to 64 cores, 385W, and up to 8 TB of memory.

The HPE ProLiant DL360 Gen11 server provides advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 3x 16 PCIe Gen5 and 2 OCP slots to improve I/O throughput and reduce latency.

The server provides 16 DIMMs per processor for up to 8 TB total DDR5 memory with increased memory bandwidth and performance, and lower power requirements.

The HPE ProLiant DL360 Gen11 server provides real-time operational feedback on server performance plus recommendations for fine-tuning BIOS settings to customize for changing business needs.

Technical specifications	HPE ProLiant DL360 Gen11 4510 2.4GHz 12c 1P 2x32GB-R 8SFF NS204i-u MR408i-o 2x800W PS AP Server
Product Number	P81578-375
Processor name	Intel® Xeon® Silver 4510 (12 core, 2.40 GHz, 30 MB L3, 150W)
Processor number	1 processor included
Processor core available	12 core
Processor speed	2.40 GHz
Processor cache	30 MB L3
Memory type	HPE DDR5 Smart Memory
Included memory	64 GB (2x32 GB, 5600 MT/s)
Accelerators	Optional
System fan features	7x High Performance Fans
Expansion slots	2-slots (x16 FH, x16 HH) as standard. Upgradeable to 3rd slot in HH (or remove Slot 2 bracket to be FH at Slot 3) in a 2nd processor configuration. And maximum 2 OCP 3.0 PCIe5 slots.
Form factor	1U Rack
Network controller	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
Storage controller	HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller
Included drives	None ship standard, 8 SFF supported
Optical drive type	Optional - HPE 9.5 mm SATA DVD-RW Optical Drive, HPE Mobile USB DVD-RW Drive.
Power supply type	2x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Infrastructure management	Included - HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download). Optional - HPE iLO Advanced, HPE OneView Advanced and HPE Compute Ops Management Refer to the iLO 6 User Guide
Security	UEFI Secure Boot and Secure Start support. Intel® Software Guard Extensions (SGX) support. Immutable Silicon Root of Trust. Optional Trusted Supply Chain, iLO Security modes, TPM, Chassis Intrusion detection and Bezel Locking kits. For full security features refer to the QuickSpecs.

Technical specifications	HPE ProLiant DL360 Gen11 4510 2.4GHz 12c 1P 2x32GB-R 8SFF NS204i-u MR408i-o 2x800W PS AP Server
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://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.
Shipping weight	31.38 kg
Shipping dimensions	60 x 99 x 24.1 cm

[1] Hardware RAID controller support in EDSFF storages available Q2 2024

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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