HPE ProLiant DL560 Gen11

What's new

- Powered by the 4th Generation Intel® Xeon® Scalable Processors with modern technology that support up to 60 cores at 350W and 16 DIMMs for DDR5 memory at speeds up to 4800 MHz.
- Support for up to 16 TB total DDR5 memory with 8 DIMM channels per processor that deliver increased performance and lower power requirements.
- Support for PCIe Gen5, resulting in improved bandwidth, advanced data transfer rates, and higher network speeds from the PCIe Gen5 serial expansion bus.
- Includes the 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 up to six single wide (SW) or two double wide (DW) GPUs to accelerate graphic-intense workloads.

Overview

Looking for a dense but highly scalable server for your data center application and virtualization needs? Looking for a quad socket enterprise server that is highly scalable for your data intensive workloads in your data center?

The HPE ProLiant DL560 Gen11 server is a high-density, four-socket (4S) server with high performance, scalability, and reliability, all in a 2U chassis. Powered by 4th Gen Intel® Xeon® Scalable Processors with up to 60 cores, the HPE ProLiant DL560 Gen11 server offers greater processing power, up to 16 TB of faster DDR5 memory, I/O of up to six PCIe 5.0 slots, and up to 2 OCP slots.

The HPE ProLiant DL560 Gen11 server is an excellent choice for business critical, virtualization, server consolidation, compute, business processing, and in-memory database and data analytics workloads requiring maximum core count, memory capacity, and network and I/O bandwidth.

Features

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

HPE ProLiant DL560 Gen11 servers are engineered for your hybrid world and can 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 DL560 Gen11 server utilizes the HPE Silicon Root of Trust, which features a fundamental approach to security that provides zero-trust architecture at the silicon level and verifies all server-essential firmware is free from malware or compromised code.

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

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 protect servers at the edge with IDevID certificates installed by default.

HPE ProLiant servers provide automated recovery from a security event, including restoration of validated firmware, and facilitating recovery of 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 DL560 Gen11 server is an excellent choice for compute and in-memory database and data analytics workloads requiring maximum core count, memory capacity, and network and I/O bandwidth.

Harness major computer performance. The HPE ProLiant DL560 Gen11 server is powered by the 4th Generation Intel® Xeon® Scalable Processors with modern technology that supports up to 60 cores per processor, 350W, and up to 16 TB of memory.

The HPE ProLiant DL560 Gen11 server provides advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 6 x16 PCIe Gen5 and 2 OCP slots to improve I/O throughput and reduce latency.

It provides 8 DIMM channels per processor for up to 16 TB total DDR5 memory with increased memory bandwidth and performance, and lower power requirements.

It provides real-time operational feedback on server performance plus recommendations for fine-tuning BIOS settings to customize for changing business needs.

Available in an As-a-Service Experience

The HPE ProLiant DL560 Gen11 server is supported by GreenLake Flex Solutions to simplify IT infrastructure management across your entire hybrid estate. 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 with choices in how they acquire and consume IT beyond traditional financing and leasing, offering options that free trapped capital, accelerate infrastructure updates, and provide on-premises pay-per-use consumption with GreenLake Flex Solutions.

Technical specifications	HPE ProLiant DL560 Gen11
Processor type	Intel®
Processor family	4th Generation Intel® Xeon® Scalable Processors
Processor number	2 or 4
Processor core available	8 to 60 core, depending on processor.
Processor speed	3.7 GHz maximum, depending on processor.
Processor cache	22.5 MB to 112.5 MB L3, depending on processor.
Memory type	HPE DDR5 SmartMemory
Maximum memory	16 TB with 256 GB DDR5
Memory slots	64
Memory protection features	RAS – Advanced ECC, online spare, mirroring, combined channel (lockstep) functionality, and HPE Fast Fault Tolerant Memory (ADDDC) Intel Optane Persistent Memory
System fan features	Liquid cooling solution, Hot-plug redundant fans, Performance Fan Kit or High Performance Fan Kit, depending on model.
Expansion slots	Up to 6 PCIe Gen5, and 2 OCP 3.0, for detailed descriptions reference the QuickSpecs.
Network controller	1 Gb, 10 Gb, 10/25 Gb, 100 Gb, or 200 Gb, in PCIe adapter or OCP 3.0 form factor for detailed descriptions reference the QuickSpecs.
Storage controller	HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller, HPE SR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller, HPE SR932i-p Gen11 x32 Lanes 8GB Wide Cache PCI SPDM Plug-in Storage Controller, HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller, HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller, HPE SR308i-p Gen11 x8 Lanes 2GB Cache PCI Plug-in Storage Controller, HPE SR308i-o Gen11 x8 Lanes 2GB Cache OCP Storage Controller, HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller, HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller, HPE MR216i-o Gen11 x16 Lanes without Cache OCP SPDM Storage Controller, for detailed descriptions reference the QuickSpecs.
Drive supported	8, 16, or 24 SFF SAS/SATA/SSD/NVMe, depending on configuration.
Optical drive type	Optional DVD-ROM Optional via Universal Media Bay External support only.
Power supply type	800W, 1000W, 1600W or 2200W Dual hot-plug redundant 1+1 redundant or 2+2 redundant or 3+1 redundant and 4+0 redundant, depending on model.

Technical specifications	HPE ProLiant DL560 Gen11
Infrastructure management	HPE iLO Standard with intelligent provisioning (embedded), HPE OneView Standard (requires download) (standard) HPE iLO Advanced, HPE OneView Advanced (optional, requires licenses), and HPE Compute Ops Management.
Security	HPE TPM 2.0 standard on motherboard. Optional locking Bezel Kit, Intrusion Detection Kit.
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.

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 Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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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PSN1014705735PLEN, October, 2026.

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