Data sheet

HPE ProLiant DL380 Gen11

HPE ProLiant DL380 Gen11 4510 2.4GHz 12c 1P 2x32GB-R 8SFF MR416i-o 2x480GB SSD 2x800W PS AP Server (P82652-375)

What's new

- Powered by the 4th and 5th Gen Intel® Xeon® Scalable Processors with next-generation technology that support up to 64 cores at 350W and 16 DIMMs for DDR5 memory at speeds up to 5600 MHz.
- Support for up to 8 TB total DDR5 memory with 16 DIMM channels per processor delivers increased performance, lower power requirements, and High Bandwidth Memory (HBM) support.
- 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 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.

Overview

Are you looking for a dual-socket scalable server solution to power data analytics or hybrid cloud workloads?

The HPE ProLiant DL380 Gen11 server is a scalable 2U 2P solution that delivers exceptional compute performance, memory density with scalability and high-speed data transfer rate to run your most demanding applications.

Powered by 4th and 5th Gen Intel® Xeon® Scalable Processors with up to 64 cores, 8 TB of memory, and 20 EDSFF drive as well as increased memory bandwidth and high-speed PCIe Gen5 I/O, the HPE ProLiant DL380 Gen11 server is a perfect solution for software-defined storage, video transcoding, and virtualized apps.

The HPE ProLiant DL380 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.

- Supports hot-pluggable, high-availability RAID M.2 boot options.
- Supports up to eight single-wide (SW) or three double-wide (DW) GPUs to accelerate graphic intense workloads.

Features

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

HPE ProLiant DL380 Gen11 servers are engineered for your hybrid world. HPE ProLiant DL380 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 DL380 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.

The server, 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 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 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 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 DL380 Gen11 server is an excellent choice for compute and data storage demanding workloads (AI, ML, telco, DB analytics, VDI, containers) requiring maximum core count, GPU capabilities, and network and I/O bandwidth.

Harness major computer performance. The HPE ProLiant DL380 Gen11 server is powered by 4th and 5th Gen Intel® Xeon® Scalable Processors with next-generation technology that supports up to 64 cores per processor, 350W, and up to 8 TB of memory.

The HPE ProLiant DL380 Gen11 server provides 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 to improve I/O throughput and reduce latency.

It provides 16 DIMM channels per processor for up to 8 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

HPE ProLiant DL380 Gen11 server is supported by GreenLake Flex Solutions to simplify IT infrastructure management across your entire hybrid estate. 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 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 DL380 Gen11 4510 2.4GHz 12c 1P 2x32GB-R 8SFF MR416i-o 2x480GB SSD 2x800W PS AP Server
Product Number	P82652-375
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	4x Standard Fans
Expansion slots	Up to 8 PCIe Gen5, and 2 OCP 3.0, for detailed descriptions reference the QuickSpecs
Form factor	2U Rack
Network controller	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
Storage controller	HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller
Included drives	2x HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD
Optical drive type	Optional DVD-ROM via Universal Media Bay External support only
Power supply type	2x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Infrastructure management	HPE iLO Standard with intelligent provisioning (embedded), and HPE Compute Ops Management (optional subscription available)
Security	HPE TPM 2.0 standard on motherboard. Optional locking Bezel Kit, Intrusion Detection Kit. For full security features refer to the QuickSpecs.
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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