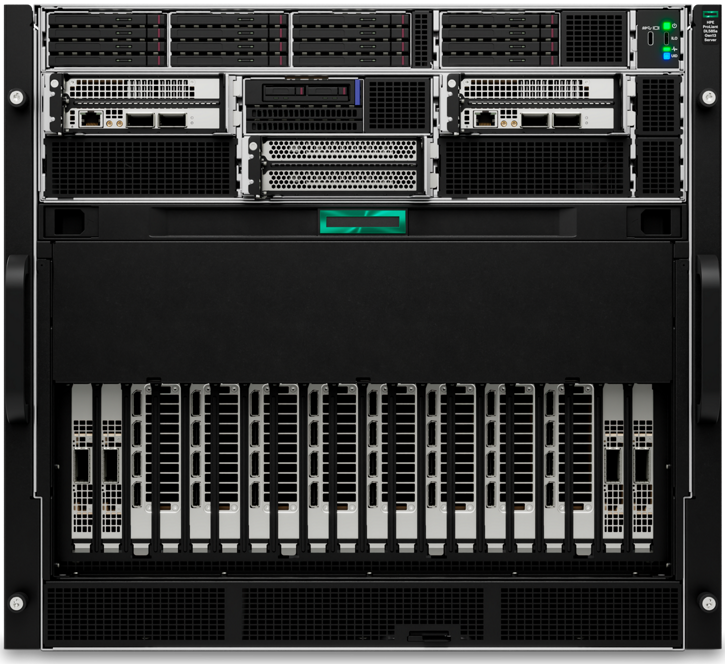
HPE ProLiant DL585a Gen13 Server



What's new

- Available in a 10U chassis and powered by AMD EPYC™ 9006 Server Processors - next-generation technology that supports up to 256 cores at 600W.
- Support for eight double-wide GPUs as well as the ability to boost inference speeds by connecting four neighboring GPUs via NVIDIA®'s 4-way NVLink Bridge.
- Dual power domains - with 12 power supplies dedicated to GPUs for N+N redundancy - result in more efficient and reliable performance for both the

Overview

Are you looking for a server engineered to scale AI workloads with exceptional GPU density and performance?

The new HPE ProLiant DL585a Gen13 Server, supporting dual AMD EPYC™ SP7 processors and up to eight double-wide GPUs in a 10U format, is purpose-built for production AI. By maximizing GPU utilization and token throughput, it helps organizations operationalize AI inference and visualization. Designed with flexible GPU, cooling, power, and fabric options, the DL585a meets evolving workload and data center requirements today and in the future.

The HPE ProLiant DL585a Gen13 Server also provides advanced security capabilities, comprehensive infrastructure management tools, and intelligent automation—helping enterprises deploy and operate AI infrastructure with

system as well as the GPUs themselves.

- Advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 8x 16 PCIe Gen6 and 1 OCP slot.
- Support for 32 DIMMs of DDR5 memory at speeds up to 8000 MHz, resulting in total memory of up to 8 TB.
- Includes HPE Integrated Lights-Out 8 (iLO 8) and HPE Compute Ops Management, enabling secure configuration, monitoring, and seamless updates of HPE ProLiant Gen13 servers.

confidence.

Features

Automated Protection, Verified Trust, Built for What's Next

The HPE ProLiant DL585a Gen13 Server with HPE iLO 8 standardizes on self-encrypting drives through Auto-SED, automatically protecting data at rest from first boot without additional configuration, external key managers, or manual activation.

Multi-person authorization adds built-in approval controls for high-impact administrative actions such as key provisioning and secure erase, helping reduce risk from single-user mistakes, unauthorized actions, or credential misuse.

The HPE ProLiant DL585a Gen13 Server with HPE iLO 8 delivers extended post-quantum cryptography (PQC) protection through live communications between HPE iLO, platform firmware, option firmware, embedded components, and management systems to be protected.

The HPE ProLiant DL585a Gen13 Server with HPE iLO 8 expands component attestation by authenticating and ensuring integrity of an expanded list of critical system components at every stage of the server lifecycle, so nothing operates unless it is trusted.

HPE iLO 8 protects and makes sure servers stay updated throughout their lifecycle by combining security management, proactive guidance, security-focused recommendations, and direct access to HPE specialists through HPE Tech Care Service.

Accelerate Innovation with AI-Era Compute Economics

Dual AMD EPYC™ processors with high core counts deliver the host compute needed to support growing AI and business workloads over time.

Flexible AI acceleration lets you start with only the GPUs you need and expand up to 8 double-wide PCIe GPUs as workloads increase.

Support for PCIe Gen6 and next-generation fabrics enables smoother adoption of future AI innovations and protects investments as AI infrastructure evolves.

Modular architecture is designed to fit within existing and future data center power and cooling environments.

Familiar and reliable HPE ProLiant experience simplifies deployment, monitoring, and support atscale.

Advancing the Next Era of AI-Driven Server Operations

Improve day-2 operational decision making with expert guidance, personalized insights, and self-service resources that help identify risks and optimize environments with HPE Tech Care services.

Simplify server onboarding across distributed environments with low-touch operations that reduce manual effort with HPE Compute Ops Management.

Accelerate issue resolution with closed-loop, AI-enabled workflows and HPE Support integration, delivering lighter-touch operations, faster mean time to repair (MTTR), and fewer support loops.

Advisory intelligence powered by agentic AI analyzes advisories against the customer environment and remediation moves from manual reviews to automated workflows.

Make informed power decisions with power capacity data that help plan rack capacity and support more confident infrastructure growth.

Technical specifications	HPE ProLiant DL585a Gen13 Server
Processor type	AMD
Processor family	AMD EPYC™ 9006 Series Server CPUs
Processor number	2
Processor core available	64 to 256 core, depending on processor.
Processor speed	5 GHz maximum, depending on processor.
Processor cache	1024 MB maximum, depending on processor.
Memory type	HPE DDR5 Smart Memory
Maximum memory	8 TB RDIMM (4 TB per processor)
Memory slots	32 DIMM slots
Memory protection features	RAS – Advanced ECC, online spare, mirroring, combined channel (lockstep) functionality, and HPE Fast Fault Tolerant Memory (ADDDC)
Accelerators	Support for eight double-wide GPUs
System fan features	15 dual rotor fans
Expansion slots	Up to 8, for detailed descriptions refer to the QuickSpecs.
Form factor	10U Rack
Drive supported	EDSFF (Enterprise and Datacenter Standard Form Factor)
Power supply type	Up to 14 M-CRPS. Single 1+1 redundancy for system board. N+N redundancy for GPUs.
Infrastructure management	HPE iLO Standard with intelligent provisioning (embedded), HPE OneView Standard (requires download) (standard), HPE iLO Advanced, and HPE OneView Advanced (optional, requires licenses).
Security	Intrusion Detection kit, and embedded HPE TPM 2.0
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

Visit HPE.com

Chat now

© Copyright 2026 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

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.

AMD and AMD EPYC are trademarks of Advanced Micro Devices, Inc.
NVIDIA and NVLink are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries.
All third-party marks are property of their respective owners.

Image may differ from the actual product.

PSN1014998362USEN, October, 2026.

HEWLETT PACKARD ENTERPRISE

hpe.com