



Delivering flexible, efficient, and high-performance computing for modern workloads

HPE ProLiant DL345 Gen12, powered by
the 5th Gen AMD EPYC™ processors



Addressing a wide range of workload demands

The HPE ProLiant DL345 Gen12 server is purpose-built to empower businesses with a versatile, single-socket platform that delivers exceptional performance, scalability, and cost-efficiency. Designed to address the demands of AI, storage, and compute-intensive workloads, the HPE ProLiant DL345 Gen12 server combines innovative features with simplified management, all while reducing total cost of ownership (TCO).

Powered by the cutting-edge 5th Gen AMD EPYC™ processors, the HPE ProLiant DL345 Gen12 delivers breakthrough performance, energy efficiency, and security features to help organizations tackle even the most demanding workloads.

Key features and benefits



1. Flexible I/O for tiered storage

- **Mix-and-match drive support:** The DL345 Gen12 supports a combination of EDSFF and SFF drives, enabling tiered storage configurations tailored to your workload needs.
- **Optimized for storage density:** You can achieve the same drive capacity as a dual-socket DL385 server in a cost-effective, single-socket design.



2. Enhanced usability and manageability

- **Front OCP connectivity:** The DL345 Gen12 introduces support for front OCP network modules, simplifying cable management and improving accessibility for IT teams.
- **Single-socket efficiency:** You can simplify workload deployment with no NUMA concerns or interconnect (such as UPI or XGMI) complexity found in dual-socket systems.



3. Powered by 5th Gen AMD EPYC processors

- **Trusted enterprise leadership:** The DL345 Gen12 leverages 5th Gen AMD EPYC processors, delivering exceptional compute power with industry-leading core density and energy efficiency.
- **Enhanced security:** Take advantage of AMD integrated security features, including Secure Memory Encryption (SME) and Secure Encrypted Virtualization (SEV), to protect data and workloads.
- **Optimized for modern workloads:** Ideal for AI, analytics, virtualization, and storage-heavy applications, the 5th Gen AMD EPYC processors redefine performance and scalability for single-socket servers.



4. Advanced GPU support for AI workloads

- **Rear GPU support:** The DL345 Gen12 provides robust AI inference capabilities with support for up to 6 single-wide GPUs or 4 double-wide GPUs, enabling high-performance inferencing workloads for deep learning and machine learning applications.
- **High-performance GPUs:** The DL345 Gen12 supports next gen 400 W GPUs, delivering the power needed for demanding AI training and inferencing applications.



5. Cost-efficient memory scalability

- **2 DIMMs per channel (2DPC):** The HPE DL345 Gen12 2DPC design allows you to utilize smaller capacity DIMMs to achieve a more cost-effective memory deployment, depending upon the workload—enabling businesses to optimize TCO.
- **Large memory capacity:** Scale memory coverage from 3 TB to 6 TB (Gen11 to Gen12), providing the flexibility to accommodate memory-intensive workloads and applications.

Myth vs. fact: Is the HPE ProLiant DL345 Gen12 for storage workloads only?

Myth: The HPE ProLiant DL345 Gen12 is designed exclusively for storage workloads and lacks versatility for other applications.

Fact: While the DL345 Gen12 excels in tiered storage configurations due to its flexible support for EDSFF and SFF drives, it is far more than just a storage-oriented server. The DL345 Gen12 is a high-performance, single-socket platform engineered to handle a wide range of workloads—from AI inferencing and training to virtualization, data analytics, and general-purpose compute.

- **AI acceleration:** With support for up to 6 single-wide GPUs or 4 double-wide GPUs, the DL345 Gen12 is optimized for AI workloads, offering the processing power required for deep learning and inferencing.
- **Compute efficiency:** Powered by 5th Gen AMD EPYC processors, the DL345 Gen12 delivers robust performance for compute-intensive applications and enables organizations to handle modern workloads with ease.
- **Memory scalability:** Expand up to 6 TB of memory, enabling the DL345 to support memory-hungry workloads such as large-scale analytics and in-memory databases.

The HPE ProLiant DL345 Gen12 is an all-around solution that balances storage, compute, and GPU acceleration, providing businesses with the versatility they need to adapt to modern IT demands.

Why choose the HPE ProLiant DL345 Gen12?

The HPE ProLiant DL345 Gen12 is ideal for organizations seeking high-density storage, powerful GPU acceleration, and simplified server management in a cost-efficient single-socket platform. Whether you're modernizing your AI infrastructure, optimizing storage tiers, or reducing operational complexity, the DL345 Gen12 offers the perfect balance of performance, scalability, and affordability.

Technical highlights

Single-socket design: Reduces power consumption and eliminates dual-socket complexity.

- **Powered by 5th Gen AMD EPYC processors:** Delivers industry-leading performance, no-compromise efficiency, and security features for compute-intensive workloads.
- **AI-ready architecture:** Supports single-wide GPUs for inference and double-wide GPUs for training workloads.
- **Flexible storage options:** Enables you to mix EDSFF and SFF drives for tiered storage solutions.
- **Memory expansion:** Delivers up to 6 TB of memory using Gen12 2DPC design.
- **Thermal efficiency:** A 2U form factor allows for the use of the full 5th Gen AMD EPYC processors portfolio without the need for liquid cooling; in addition, the larger-diameter fans have better acoustical performance than a smaller platform.





Unlock your data center potential with HPE ProLiant DL345 Gen12

Setting a new standard for single-socket servers, the HPE ProLiant DL345 Gen12 provides the flexibility, performance, and efficiency needed to meet the demands of today's diverse workloads. The solution offers unparalleled compute power and scalability in an economic single-socket design. From AI acceleration to tiered storage configurations, this server is designed to help you achieve your business goals while maximizing value.

Contact your HPE representative today to learn more about the HPE ProLiant DL345 Gen12 server. Discover how it can transform your IT infrastructure.

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