

# HPE ProLiant DL385 Gen11



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## What's new

- Powered by the 4th Generation AMD EPYC™ 9004 Series Processors with 5nm technology that supports up to 128 cores at 400W, 1152 MB of L3 Cache, and 24 DIMMs for DDR5 memory up to 4800 MT/s.
- 12 DIMM channels per processor for up to 6 TB total DDR5 memory with increased memory bandwidth and performance, and lower power requirements.
- Advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 2x16 PCIe Gen5 and two OCP slots.
- Includes HPE Integrated Lights-Out 6 (iLO 6) server management software that

## Overview

Are you looking for an accelerator-optimized performance solution to run your AI, ML, or Big Data analytics workloads?

The HPE ProLiant DL385 Gen11 server is a 2U 2P solution that delivers exceptional compute performance, upgraded high-speed data transfer rate and memory depth at 2P compute capability. Powered by 4th Generation AMD EPYC™ 9004 Series Processors with up to 128 cores, increased memory bandwidth and capacity, high-speed PCIe Gen5 I/O, enhanced GPU support, and EDSFF storage, the HPE ProLiant DL385 Gen11 server is a superb accelerator-optimized 2U 2P solution.

Enhanced security features with the silicon root of trust from HPE are built into the firmware, creating a digital fingerprint for the AMD Secure Processor to validate safe operation prior to boot.

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.
- New features including PCIe Gen5 EDSFF support and up to 8x single-wide and 4x double-wide GPU support.

HPE ProLiant DL385 Gen11 server is an excellent choice for compute and data storage demanding workloads requiring increased core count, and storage and I/O scalability.

## Features

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

HPE ProLiant DL385 Gen11 servers are engineered for your hybrid world. The HPE ProLiant 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 and instant scalability for 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 HPE GreenLake as your compute and storage demands grow.

Simplify and secure server management from edge to cloud with HPE GreenLake for Compute Ops Management. HPE GreenLake for 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 DL385 Gen11 server is tied into the silicon root of trust and the AMD Secure Processor, a dedicated security processor embedded in the AMD EPYC system on a chip (SoC), to manage secure boot, memory encryption, and secure virtualization.

HPE ProLiant Gen11 servers use the silicon root of trust to anchor the firmware of an HPE ASIC, creating an immutable fingerprint for the AMD Secure Processor that must be matched exactly before the server will boot. This verifies that malicious code is contained, and healthy servers are protected.

HPE ProLiant Gen11 servers continuously protect healthy servers at the edge 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, 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, data connections, and providing a fast 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.

### **Customized Performance for your Workloads: Accelerated, Open, and Efficient**

Harness major computer performance. The HPE ProLiant DL385 Gen11 server is powered by the 4th Generation AMD EPYC™ 9004 Series Processors with 5nm technology that supports up to 128 cores, 400W, and 1152 MB of L3 cache.

Advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 8x16 PCIe Gen5 and two OCP slots, improve I/O



throughput and reduce latency.

Increased memory bandwidth and performance, and lower power requirements with 12 DIMM channels per processor for up to 6 TB total DDR5 memory.

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

## Technical specifications

## HPE ProLiant DL385 Gen11

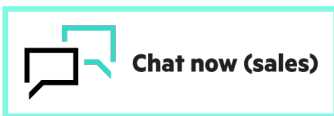
|                                   |   |
|-----------------------------------|---|
| <b>Processor type</b>             | AMD   |
| <b>Processor family</b>           | 4th Generation AMD EPYC™ Processors   |
| <b>Processor number</b>           | Up to 2   |
| <b>Processor core available</b>   | Up to 128, depending on the processor   |
| <b>Processor cache</b>            | 64 MB, 128 MB, 256 MB, 384 MB or 1152 MB L3 cache, depending on processor model   |
| <b>Processor speed</b>            | 4.4 GHz maximum, depending on the processor   |
| <b>Power supply type</b>          | 2 Flexible Slot power supplies maximum, depending on model  |
| <b>Expansion slots</b>            | 8 maximum, for detailed descriptions refer to the QuickSpecs  |
| <b>Maximum memory</b>             | 6.0 TB with 256 GB DDR5   |
| <b>Memory slots</b>               | 24  |
| <b>Memory type</b>                | HPE DDR5 Smart Memory   |
| <b>Memory protection features</b> | ECC   |
| <b>System fan features</b>        | 6 fans included   |
| <b>Network controller</b>         | Choice of optional OCP plus standup, depending on model   |
| <b>Storage controller</b>         | HPE Tri-Mode Controllers, refer to the QuickSpecs for more detail   |
| <b>Infrastructure management</b>  | HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download); HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced (require licenses)<br>Compute Ops Management Software  |
| <b>Warranty</b>                   | 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: <a href="https://support.hpe.com/hpsc/wc/public/home">https://support.hpe.com/hpsc/wc/public/home</a> . Additional HPE support and service coverage for your product can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to the HPE website at <a href="https://www.hpe.com/support">https://www.hpe.com/support</a> . |
| <b>Drive supported</b>            | Up to 12 LFF SAS/SATA with 4 LFF mid drive optional, 4 LFF rear drive<br>Up to 24 SFF SAS/SATA/NVMe with 8 SFF mid drive optional and 2 SFF rear drive optional<br>Up to 36 EDSFF   |



[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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