



# HPE ProLiant DL560 Gen10 Server

## ProLiant DL Servers



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### What's new

- Support for the new Intel Xeon Scalable processors.
- Support for 128 GB LRDIMMs to enable 6 TB memory configurations.
- Up to 24 NVDIMMs and 2X capacity of first-generation HPE NVDIMMs, 2H 2017. [2]
- Up to 24 NVDIMMs and 2X capacity of 1st generation HPE NVDIMMs, 2H 2017. [3]

### Overview

Looking for a dense but highly scalable server for your data center application and virtualization needs? The HPE ProLiant DL560 Gen10 Server is a high-density, 4P server with high-performance, scalability, and reliability, in a 2U chassis. Supporting the Intel® Xeon® Scalable processors with up to a 68% performance gain [1], the HPE ProLiant DL560 Gen10 Server offers greater processing power, up to 3 TB of faster memory, I/O of up to eight PCIe 3.0 slots, plus the intelligence and simplicity of automated management with HPE OneView and HPE iLO 5. The HPE ProLiant DL560 Gen10 Server is the ideal server for business critical workloads, virtualization, server

consolidation, database, business processing, and general 4P data-intensive applications where data center space and the right performance are paramount.

## Features

### Scalable 4P Performance in a Dense 2U Form Factor

The HPE ProLiant DL560 Gen10 Server provides 4P computing in a dense 2U form factor and supports up to four Intel Xeon Platinum (8100 series) and Gold (6100 and 5100 series) processors which provide up to 68% [1] more processor performance and 27% [3] more cores than the previous generation.

Up to 48 DIMM slots which support up to 3 TB for 2666 MT/s DDR4 HPE SmartMemory. HPE DDR4 SmartMemory improves workload performance and power efficiency while reducing data loss and downtime with enhanced error handling.

Choice of HPE FlexibleLOM adapters offers range of networking bandwidth (1GbE to 25GbE) and fabric so you can adapt and grow to changing business needs.

HPE Innovation with Intelligent System Tuning enhances workload performance using customized profiles to tune internal resources; with improved throughput for all workloads including latency-sensitive workloads such as high frequency trading with jitter smoothing.

### Flexible New Generation Expandability and Reliability for Multiple Workloads

The HPE ProLiant DL560 Gen10 Server has a flexible processor tray allowing to scale up from two to four processors only when you need, saving on upfront costs and the flexible drive cage design supports up to 24 SFF SAS/SATA with a maximum of 12 NVMe drives.

Supports up to eight PCIe 3.0 expansion slots for graphical processing units (GPUs) and networking cards offering increased I/O bandwidth and expandability.

Up to four, 96% efficient HPE 800W or 1600W Flex Slot Power Supplies, which enable higher power redundant configurations and flexible voltage ranges. The slots provide the capability to trade-off between 2+2 power supplies or use as extra PCIe slots.

### Secure and Reliable

HPE offers industry standard servers with HPE designed custom BMC (HPE iLO5) silicon chip that is physically altered to anchor most server essential firmware including HPE iLO, UEFI, IE, ME, and SPLD. This anchor into the HPE silicon chip creates a true Silicon Root of Trust that protects.

Millions of lines of firmware code run before server operating system boots and with Runtime Firmware Validation, enabled by HPE iLO Advanced Premium Security Edition, the server firmware is checked every 24 hours verifying validity and credibility of essential system firmware.

Secure Recovery allows server firmware to rollback to the to last known good state or factory settings after detection of compromised code.

Additional security options are available with, Trusted Platform Module (TPM), to prevent unauthorized access to the server and securely stores artifacts used to authenticate the server platforms while the Intrusion Detection Kit logs and alerts

when the server hood is removed.

### **Agile Infrastructure Management for Accelerating IT Service Delivery**

With the HPE ProLiant DL560 Gen10 Server, HPE OneView provides infrastructure management for automation simplicity across servers, storage and networking.

A suite of embedded and downloadable tools is available for server lifecycle management including Unified Extensible Firmware Interface (UEFI), Intelligent Provisioning; HPE iLO 5 to monitor and manage; HPE iLO Amplifier Pack, Smart Update Manager (SUM), and Service Pack for ProLiant (SPP).

HPE Pointnext services simplifies the stages of the IT journey. Advisory and Transformation Services professionals understand customer challenges and design an better solution. Professional Services enables rapid deployment of solutions and Operational Services provides ongoing support.

HPE IT investment solutions help you transform to a digital business with IT economics that align to your business goals.

## Technical specifications

## HPE ProLiant DL560 Gen10 Server

|                                       |   |
|---------------------------------------|---|
| <b>Processor</b>                      | Intel® Xeon® Scalable processors  |
| <b>Processor family</b>               | Intel® Xeon® Scalable 8100 series Intel® Xeon® Scalable 6100 series Intel® Xeon® Scalable 5100 series   |
| <b>Processor core available</b>       | 28 or 26 or 24 or 22 or 20 or 18 or 16 or 14 or 12 or 10 or 8 or 6 or 4, per processor, depending on model  |
| <b>Processor cache</b>                | 13.75 MB L3 or 16.50 MB L3 or 19.25 MB L3 or 22.00 MB L3 or 24.75 MB L3 or 27.50 MB L3 or 30.25 MB L3 or 33.00 MB L3 or 35.75 MB L3 or 38.50 MB L3  |
| <b>Processor speed</b>                | 3.6 GHz, maximum depending on processor   |
| <b>Power supply type</b>              | 4 HPE Flexible Slot Power Supplies, maximum depending on model  |
| <b>Expansion slots</b>                | 8 maximum, for detail descriptions reference the QuickSpecs   |
| <b>Maximum memory</b>                 | 3.0 TB  |
| <b>Memory slots</b>                   | 48 DIMM slots maximum   |
| <b>Memory type</b>                    | HPE DDR4 SmartMemory  |
| <b>System fan features</b>            | Hot plug redundant standard   |
| <b>Network controller</b>             | Optional FlexibleLOM  |
| <b>Storage controller</b>             | HPE Smart Array S100i or HPE Smart Array P408i-a SR Gen10 Controller or HPE Smart Array P816i-a SR Gen10 Controller, depending on model   |
| <b>Minimum dimensions (W x D x H)</b> | 8.75 x 44.55 x 75.47 cm   |
| <b>Weight</b>                         | 34.12 kg  |
| <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 (optional require licenses)  |
| <b>Warranty</b>                       | 3/3/3 - Server Warranty includes three years of parts, three years of labor, three years of onsite support coverage. Additional information regarding worldwide limited warranty and technical support is available at: <a href="http://h20564.www2.hp.com/hpsc/wc/public/home">http://h20564.www2.hp.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="http://www.hp.com/support">http://www.hp.com/support</a> |
| <b>Processor</b>                      | Intel   |
| <b>Form factor</b>                    | Rack (2U)   |

**Additional resources**

**QuickSpecs**

[hpe.com/h20195/v2/GetDocument.aspx?](http://hpe.com/h20195/v2/GetDocument.aspx?docname=a00008181enus)

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**HPE Pointnext**

**HPE Pointnext** leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help evolve and grow today and into the future.

**Operational Services**

- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.

**Advisory Services** includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

**Professional Services** helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

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[1] HPE measurements. Up to 68% performance increase of Intel Xeon Platinum versus previous generation E5-4600 v4 average performance based on generational gains on HPE servers comparing 4-socket Intel Xeon Platinum 8180 to E5-4669 v4 Family processors. Any difference in system hardware, software design, or configuration may affect actual performance. May 2017

[2] Comparing 8 GB NVDIMM to 16 GB NVDIMM equals 2X capacity increase, September, 2017

[3] Up to 27% performance increase of Intel Xeon Platinum versus previous generation comparing 4-socket Intel Xeon Platinum 8180 (28 cores) to E5-4669 v4 (22 cores). Calculation 28 cores / 2x cores = 1.27 = 27%. May 2017.

[4] Up to 27% performance increase of Intel Xeon Platinum vs. previous generation comparing 4-socket Intel Xeon Platinum 8180 (28 cores) to E5-4669 v4 (22 cores). Calculation 28 cores/2x cores = 1.27 = 27%. May 2017.



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