



# HPE ProLiant DL580 Gen9 Server

## ProLiant DL Servers



---

### What's new

- Intel E7-4800/8800 v4 processor family offers unparalleled versatility across diverse workloads
- HPE DDR4 2400 MHz Memory modules for faster performance with data-intensive application workloads
- HPE 25 Gigabit Ethernet (25GbE) Network Adapters have the breakthrough performance you need at 2.5X increase over previous generation 10GbE and a lower

### Overview

Does your business demand fast insights, support for increased number of users and uncompromised availability? The HPE ProLiant DL580 Gen9 Server is the 4S enterprise standard x86 server offering commanding performance, rock-solid reliability and availability, and compelling consolidation and virtualization efficiencies. Supporting Intel® Xeon® E7-4800/8800 v4/v3 processors, the DL580 Gen9 Server offers enhanced processor performance, up to 6 TBs of memory, greater IO bandwidth (9 PCIe Gen 3.0 slots), and 12 Gb/s of SAS speeds. The DL580 Gen9 Server has security and data protection features for system resiliency that your business can depend on. All, making it ideal

---

overall cost for scalability to 100 Gbps

- HPE Trusted Platform Module (TPM) 2.0 prevents unauthorized access to servers and securely store artifacts used to authenticate the server platforms

for mission-critical enterprise, business intelligence, and database applications. Whether needed for highly virtualized or cloud based deployments, with intelligence and simplicity of automated management with HPE OneView and HPE iLO4 your business can achieve agile and lower cost infrastructure management.

## Features

### Commanding Performance and Scalability

The HPE ProLiant DL580 Gen9 Server provides up to 26% [1] increased processor performance with Intel Xeon E7-4800/8800 v4/v3 processors than the previous generation.

HPE SmartMemory prevents data loss and downtime with enhanced error handling. Support of up to 6 TB DDR4 max capacity (96 DIMM slots) with speeds up to 2400MHz with up to 23% [2] performance gain. Ideal for large-scale in-memory computing and virtualization.

Comes standard with nine FL/FH PCIe 3.0 slots for GPGPUs and choice of HPE FlexibleLOM or PCIe standup 1GbE, 10GbE or InfiniBand Adapters provide you flexibility of networking bandwidth and fabric so you can adapt and grow to changing business needs.

Faster access to your data with the redesigned HPE Flexible Smart Array and HPE Smart SAS HBA Controllers allow you the flexibility to choose the optimal 12 Gb/s SAS controller most suited to your environment. Additional support for HPE NVMe Mixed Use and Write Intensive PCIe Workload Accelerators.

### Rock-solid Availability and Reliability

The HPE ProLiant DL580 Gen9 Server provides increased system availability and less need for service with advanced error recovery, error diagnosis, and built-in redundancy; all features of the DL580 Server Comprehensive Fault Management and Diagnostics.

Improved reliability and data protection with HPE Smart Array Controllers featuring HPE Secure Encryption and Advanced Data Mirroring, and HPE SmartDrive technology.

Increased security with four new levels of Secure Boot [3] with Unified Extensible Firmware Interface (UEFI) mode.

HPE Proactive Care Services helps customers prevent problems before they occur by integrating uptime and productivity into a personalized, simplified support experience.

### Compelling Agility and Efficiencies for Scale-up Environments

The HPE ProLiant DL580 Gen9 Server supports improved ambient temperature ASHRAE A3 and A4 [4] standards helping to reduce your cooling expenses.

High efficiency redundant HPE Common Slot Power Supplies up 4x 1500W provide up to 94% efficiency (Platinum Plus), infrastructure power efficiencies with -48VDC input voltages and support for HPE Power Discovery Services.

Customer-inspired and easily accessible features include: front access processor/memory drawer for ease of serviceability, hot pluggable fans and drives, optional SID for health and monitoring of components and Quick Reference code

for quick access to product information.

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

With HPE ProLiant DL580 Gen9 Server, HPE OneView provides infrastructure management for automation simplicity across servers, storage and networking.

Online personalized dashboard for converged infrastructure health monitoring and support management with HPE Insight Online.

Configure in Unified Extensible Firmware Interface (UEFI) boot mode, provision local and remote with Intelligent Provisioning and Scripting Toolkits.

Embedded management to deploy, monitor and support your server remotely, out of band with HPE iLO and optimize firmware and driver updates and reduce downtime with Smart Update Solutions, consisting of SUM (Smart Update Manager) and SPP (Service Pack for ProLiant).

## Technical specifications

## HPE ProLiant DL580 Gen9 Server

<b>Processor family</b>	Intel® Xeon® E7-8800 v3 product family Intel® Xeon® E7-4800 v3 product family Intel® Xeon® E7-8800 v4 product family Intel® Xeon® E7-4800 v4 product family
<b>Number of processors</b>	4 or 3 or 2
<b>Processor core available</b>	24 or 22 or 20 or 18 or 16 or 14 or 12 or 10 or 8 or 4
<b>Processor cache</b>	60 MB L3 55 MB L3 50 MB L3 45 MB L3 40 MB L3 35 MB L3 30 MB L3 25 MB L3 20 MB L3
<b>Processor speed</b>	3.2 GHz
<b>Form factor (fully configured)</b>	4U
<b>Form factor chassis</b>	Rack
<b>Power supply type</b>	4 common slot
<b>Expansion slots</b>	9 maximum, for detailed descriptions reference the QuickSpecs
<b>Maximum memory</b>	6 TB
<b>Memory slots</b>	96 DIMM slots, maximum
<b>Memory type</b>	HPE DDR4 SmartMemory
<b>Memory protection features</b>	MCA Recovery Execution Path Patrol and Demand Scrubbing Memory Lock Step Mode Memory Online Spare Mode Advanced ECC and DIMM Address/Parity Protection
<b>Drive description</b>	(10) SFF SAS/SSD NVMe support via Express Bay will limit max drive capacity
<b>Included hard drives</b>	10 HPE SFF SAS/SSD, NVMe support via Express Bay will limit max drive capacity
<b>System fan features</b>	Hot plug redundant standard
<b>Network controller</b>	10Gb 534FLR-SFP+ FlexFabric Adapter 2 ports per controller or 1Gb 331FLR Ethernet Adapter 4 ports per controller, depending on model
<b>Storage controller</b>	HPE Smart Array P830i/2GB FBWC or HPE Smart Array P830i/4GB FBWC, depending on model
<b>Infrastructure management</b>	Standard: HPE iLO Management with Intelligent Provisioning and HPE OneView Optional: HPE iLO Advanced, HPE OneView Advanced, and HPE Insight Control
<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.hpe.com/hpsc/wc/public/home">http://h20564.www2.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 Hewlett Packard Enterprise website at <a href="http://www.hpe.com/support">http://www.hpe.com/support</a>

**Additional resources**

**QuickSpecs**

[hpe.com/h20195/v2/GetDocument.aspx?](http://hpe.com/h20195/v2/GetDocument.aspx?docname=c04601209)

[docname=c04601209](http://hpe.com/h20195/v2/GetDocument.aspx?docname=c04601209)

**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 you evolve and grow today and into the future.

**Operational Services**

- **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 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 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.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

**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.

Call to action:

[buy.hpe.com/category?catId=15351&reqC](http://buy.hpe.com/category?catId=15351&reqCatId=8090149&catlevelmulti=15351_3328412_3328422_8090149&country=us&locale=en)

[atId=8090149&catlevelmulti=15351\\_3328](http://buy.hpe.com/category?catId=15351&reqCatId=8090149&catlevelmulti=15351_3328412_3328422_8090149&country=us&locale=en)

[412\\_3328422\\_8090149&country=us&loca](http://buy.hpe.com/category?catId=15351&reqCatId=8090149&catlevelmulti=15351_3328412_3328422_8090149&country=us&locale=en)

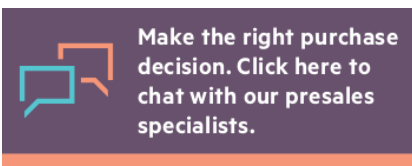
[le=en](http://buy.hpe.com/category?catId=15351&reqCatId=8090149&catlevelmulti=15351_3328412_3328422_8090149&country=us&locale=en)

[1] Intel internal measurements. comparing measurements on platform with two E7-8800 v3 vs E7-8800 v4.

[2] up to 23% better performance is based on similar capacity DIMM running on HPE server compared to a non HPE server with DDR4. Hewlett Packard Labs estimate, March 2016.

[3] Secure Boot authentication inclusive of all UEFI Drivers, any UEFI applications, OS Bootloaders and Linux Kernel Modules. Hewlett Packard Labs, Houston, TX, July 2014

[4] Please see [www.hpe.com/servers/ASHRAE](http://www.hpe.com/servers/ASHRAE) for details.



Sign up for updates



© Copyright 2018 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.

Intel® is a trademark of Intel Corporation in the U.S. and other countries; Xeon® is a trademark of Intel Corporation in the U.S. and other countries.

Image may differ from actual product  
PSN8090149USEN, November 01, 2018.