

HPE PROLIANT DL580 GEN10 6230 4P 256GB-R P408I-P 8LFF 4X1600W RPS SERVER (P22709- B21)

ProLiant DL Servers



WHAT'S NEW

- Supporting the second generation Intel® Xeon® Scalable processor family with up to a 7% per-core performance gain [3] over first generation and with memory speeds up to 2933 MT/s. [7]
- HPE Persistent Memory offers the

OVERVIEW

Looking for a highly scalable, workhorse server to address your database, storage, and graphics intensive applications?

The HPE ProLiant DL580 Gen10 server is a secure, highly expandable, 4P server with high-performance, scalability and availability in a 4U chassis. Supporting the Intel® Xeon®

flexibility to deploy as dense memory or fast storage using Intel® Optane™ DC Persistent Memory and enables per-socket memory capacity of up to 3.0 TB. [6]

- Support for HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply.
- Enhanced iLO 5 security features such as Server Configuration Lock, iLO Security Dashboard and Workload Performance Advisor.
- HPE InfoSight provides a cloud-based analytics tool that predicts and prevents problems before your business is impacted.
- Segment-optimized processors that offer flexibility and improved performance for specific workloads.

Scalable processors with up to a 45% [1] performance gain, the HPE ProLiant DL580 Gen10 server delivers greater processing power than previous generations. This provides up to 6 TB of 2933 MT/s memory with up to 82% greater memory bandwidth [2], up to 16 PCIe 3.0 slots, plus the simplicity of automated management with HPE OneView and HPE Integrated Lights Out 5 (iLO 5). HPE Persistent Memory offers unprecedented levels of performance and better business outcomes for data-intensive workloads. The HPE ProLiant DL580 Gen10 server is the ideal server for business-critical workloads and general 4P data-intensive applications where the right performance is paramount.

FEATURES

Scalable Performance In An Expandable 4U Form Factor

The HPE ProLiant DL580 Gen10 server provides 4P computing in an expandable 4U form factor and supports up to four Intel Xeon Platinum and Gold processors which provide up to 11% per-core performance gain [5] over the first generation of Intel® Xeon® Scalable processors.

Up to 48 DIMM slots which support up to 6 TB for 2933 MT/s HPE DDR4 SmartMemory. HPE DDR4 SmartMemory improves workload performance and power efficiency while reducing data loss and downtime with enhanced error handling.

Up to 12 TB of HPE Persistent Memory [6] that works with DRAM to provide fast, high capacity, cost effective memory and enhances compute capability for memory intensive workloads such as structured data management and analytics.

Support for processors with Intel® Speed Select technology that offer configuration flexibility and granular control over CPU performance and VM density optimized processors that enable support of more virtual machines per host.

HPE enhances performance by taking server tuning to the next level. Workload Performance Advisor adds real-time tuning recommendations driven by server resource usage analytics and builds upon existing tuning features such as Workload Matching and Jitter Smoothing.

Remarkable Expandability and Availability For Multiple Workloads

HPE ProLiant DL580 Gen10 server has a flexible processor tray allowing it to scale up from one to four processors as needed, saving on upfront costs and the flexible drive cage design supports up to 48 Small Form Factor (SFF) SAS/SATA drives and a maximum of 20 NVMe drives.

Supports up to 16 PCIe 3.0 expansion slots including up to four full length/full height graphics processing units (GPUs), as well as networking cards or storage controllers offering increased expandability.

Up to four, 96% efficient HPE 800W or 1600W [4] Flex Slot Power Supplies which enable higher power redundancy with 2+2 configurations and flexible voltage ranges.

Choice of HPE FlexibleLOM Adapters offers a range of networking speeds



(1GbE to 25GbE) and fabrics so you can adapt and grow to changing business needs.

Secure and Reliable

HPE iLO 5 enables the world's most secure industry standard servers with HPE Silicon Root of Trust technology to protect your servers from attacks, detect potential intrusion and recover your essential server firmware securely.

New features include Server Configuration Lock that ensures secure transit and locks server hardware configuration, iLO Security Dashboard helps detect and address possible security vulnerabilities and Workload Performance Advisor provides server tuning recommendations for better server performance.

With Runtime Firmware Verification the server firmware is checked every 24 hours verifying validity and credibility of essential system firmware. Secure Recovery allows server firmware to roll back to the 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 safely 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

HPE ProLiant DL580 Gen10 server combined with the HPE OneView software provides infrastructure management for automation simplicity across servers, storage and networking.

HPE InfoSight brings artificial intelligence to HPE Servers with predictive analytics, global learning and recommendation engine to eliminate performance bottlenecks.

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).

Services from HPE Pointnext Services simplify all stages of the IT journey. Advisory and Transformation Services professionals understand customer challenges and design a better solution. Professional Services enable rapid deployment of solutions and Operational Services provide 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 DL580 Gen10 6230 4P 256GB-R
P408i-p 8LFF 4x1600W RPS Server**

| | |
|---------------------------------------|---|
| Product Number (SKU) | P22709-B21 |
| Processor Name | Intel® Xeon® Scalable 6230 (20 core, 2.1 GHz, 27.5 MB, 125 W) |
| Processor core available | 20, per processor |
| Processor cache | 27.5 MB |
| Processor speed | 2.1 GHz |
| Power supply type | 4 HPE 1600W Flex Slot Platinum hot plug power supplies |
| Expansion slots | 3 PCIe 3.0, for detailed descriptions refer the QuickSpecs |
| Memory, standard | 256 GB (8x 32 GB) RDIMM |
| Memory type | HPE DDR4 SmartMemory and HPE Persistent Memory |
| Included hard drives | None included, 8 large form factor drives supported |
| Network controller | 1 HPE 1 Gb 366FLR Ethernet adapter, 4-ports per controller |
| Storage controller | HPE Smart Array P408i-p SR Gen10 Controller |
| Minimum dimensions (H x W x D) | 17.47 x 44.55 x 75.18 cm |
| Weight | 51.71 kg |
| Warranty | 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: http://h20564.www2.hp.com/hpsc/wc/public/home . 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 http://www.hp.com/support |



[For additional technical information, available models and options, please reference the QuickSpecs](#)

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 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.

HPE GREENLAKE

HPE Greenlake is an as-a-service offering that delivers on-demand capacity and planning, combining the agility and economics of public cloud with the security and performance of on-premises IT.

[1] HPE measurements: Up to 45% performance increase of Intel Xeon Platinum vs. previous generation E7-4800 v4 average gains of STREAM, Linpack, SPEC2006 & SPEC CPU2017 metrics on HPE servers comparing 4-socket Intel Xeon Platinum 8280 to E5-8994 v4 family processors. Any difference in system hardware or software design or configuration may affect actual performance. April 2019.

[2] Percentage compare Gen10 vs Gen9: Gen10 = 12 Channels x 2933 data rate x 8 bytes = 281 GB/sec. Gen 9 = 8 channels x 2400 x 8 bytes = 154 GB/Sec. $281/154 = 1.82$ or Gen10 is 82% greater bandwidth. Any difference in system hardware or software design or configuration may affect actual performance. April 2019.

[3] Up to 17% performance increase of Intel Xeon Platinum versus previous generation comparing 4-socket Intel Xeon Platinum 8280 (28 cores) to E7-8890 v4 (24 cores). Calculation $28 \text{ cores} / 24 \text{ cores} = 1.167 = 17\%$. April 2019.

[4] HPE 1600W Flex Slot Power supplies only support high line voltage (200V AC to 240V AC)

[5] HPE measurements: Up to 11% performance increase of Intel Xeon Platinum vs. previous generation average gains of STREAM, Linpack, & SPEC CPU2017 metrics on HPE servers comparing 2-socket Intel Xeon Platinum 8280 to Intel Xeon Platinum 8180 family processors. Any difference in system hardware or software design or configuration may affect actual performance. April 2019.

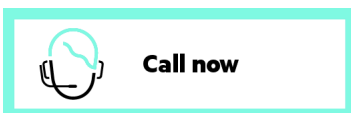
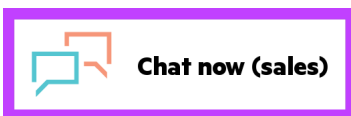
[6] 3.0 TB per socket with HPE 512GB 2666 Persistent Memory Kit



[7] HPE DDR4 SmartMemory LRDIMM on HPE ProLiant DL580 Gen10 server can support 2933 MT/s @ 2DPC

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