

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

ProLiant DL500 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]
- Intel® Optane™ persistent memory 100 series for HPE offers the flexibility to deploy as dense memory or fast storage 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

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® 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). Intel® Optane™ persistent memory 100 series for HPE 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.

specific workloads.

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 8SFF 4x1600W RPS Server

Product Number	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 Intel® Optane™ persistent memory 100 series for HPE
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
Product Dimensions (metric)	17.47 x 44.55 x 75.18 cm
Weight	51.71 kg
Infrastructure management	HPE iLO Standard with Intelligent Provisioning (embedded) and HPE OneView Standard (requires download) are included Optional: HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced (optional require licenses)
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



Data sheet

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

HPE POINTNEXT SERVICES

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[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

[HPE Pointnext Complete Care](#) is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE GREENLAKE

[HPE Greenlake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please [explore them here](#).



[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)

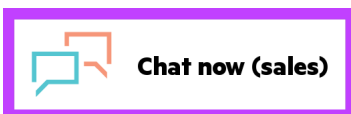
[5] HPE measurements: Up to 11% performance increase of Intel Xeon Platinum vs. previous generation average gains of STREAM, Linpack, & SPEC CPU2017 metrics on HPE servers comparing 2-socket Intel Xeon Platinum 8280 to Intel Xeon Platinum 8180 family processors. Any difference in system hardware or software 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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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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[PSN1012636543HREN](#), July, 2022.


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