Hewlett Packard Enterprise

HPE PROLIANT DL380 GEN10 5222 1P 32GB-R S100I NC 8SFF 800W PS SERVER (P40422-B21)

ProLiant DL300 Servers



WHAT'S NEW

- Defend applications and data before your server is built with the new HPE Trusted Supply Chain offering.
- Supporting additional second generation Intel® Xeon® Scalable processor family offerings.
- Increased Single-Width GPU Density with up to 7 NVIDIA Tesla T4 16GB Computational Accelerators or 7 Xilinx Alveo U50 Accelerators supported in a standard-depth 2U rack form factor
- Networking Choice (NC) server models provide greater flexibility in the primary networking selection.
- HPE Persistent Memory offers the flexibility to deploy as dense memory or fast storage using Intel® Optane™ DC

OVERVIEW

Where is your server bottlenecked…storage, compute, expansion?

The HPE ProLiant DL380 Gen10 server delivers the latest in security, performance and expandability, backed by a comprehensive warranty. Standardize on the industry's most trusted compute platform. The HPE ProLiant DL380 Gen10 server is securely designed to reduce costs and complexity, featuring the First and Second Generation Intel® Xeon® Processor Scalable Family with up to a 60% performance gain [1] and 27% increase in cores [2], plus the HPE 2933 MT/s DDR4 SmartMemory supporting 3.0 TB. It supports 12 Gb/s SAS, and up to 20 NVMe drive plus a broad range of compute options. HPE Persistent Memory offers unprecedented levels of performance for databases and analytic workloads. Run everything from the most basic to mission-critical applications and deploy with confidence.

Persistent Memory and enables per-socket memory capacity of up to 3.0 TB. [3]

- iLO 5 security enhancements: Server Configuration Lock, iLO Security Dashboard and Workload Performance Advisor. HPE InfoSight provides cloud-based analytics to predict and prevent issues proactively.

FEATURES

Defend Applications and Data Before Your Server is Built with HPE Trusted Supply Chain

A new first line of defense against cyber-attackers with select servers built to the world's toughest security standards in secured facilities, bringing together security, processes and people to deliver protection for your most sensitive applications and data even before your server is built.

Built in secure HPE facilities to the most stringent Country of Origin USA and conformance requirements, HPE Trusted Supply Chain servers are inspected to be free from malicious microcode and counterfeit parts, safeguarding it against cyber-exploits throughout its life cycle.

With hardened security built in, HPE Trusted Supply Chain hardens the protections designed into select HPE products with unrivaled supply chain visibility and standards compliance providing a 360-degree view and mitigation plan for current and emerging cyber-threats.

Allied to ensure authenticity, HPE Trusted Supply Chain doubles down on your protection with vetted HPE employees assigned to the product build to manage the product manufacturing process that adheres to the strictest sourcing, inspection and traceability standards.

Learn more about HPE Trusted Supply Chain

World-Class Performance featuring Enhanced Compute Density

The ProLiant DL380 now features significantly enhanced GPU density, expanding support from five to seven Full-Height, Half-Length, Single-Width Accelerators/GPUs; or up to six in a balanced configuration with additional PCIe expansion via the tertiary riser.

Leveraging HPE's most popular 2U rackmount server, fitting standard depth racks, customers can benefit from one of the densest Accelerator/GPU platforms with an extensive set of Accelerator options, enabling diverse cloud workload performance and optimization of AI and deep learning experiences.

Supported on the ProLiant DL380, the NVIDIA T4 GPU is ideal for Deep learning, Inferencing, Machine Learning, HPC, Rendering, VDI, Virtual Workstations and combinations thereof for mixed workloads - maximizing utilization of data center resources and lowering TCO.

Flexible Design Making Your Investment Expand As Your Business Needs Grow

The HPE ProLiant DL380 Gen10 server has an adaptable chassis, including new Hewlett Packard Enterprise modular drive bay configuration options with up to 30 SFF, up to 19 LFF or up to 20 NVMe drive options along with support for up to three double wide GPU options.

Adapting and growing to changing business needs, Networking Choice (NC) server models provide flexibility in the primary networking choice while Embedded LOM server models offer an embedded 4x1GbE by default; both provide network options (1GbE to 100GbE) via HPE FlexibleLOM or PCIe standup adapters.

HPE Persistent Memory works with DRAM to provide fast, high capacity, cost effective memory and storage to transform big data workloads and analytics by enabling data to be stored, moved, and processed quickly.

In conjunction with the embedded SATA HPE Dynamic Smart Array S100i Controller for boot, data and media needs, the redesigned HPE Smart Array

Controllers allow you the flexibility to choose the optimal 12 Gb/s controller most suited to your environment, and operate in both SAS and HBA mode.

Supporting a wide range of operating environments from Azure to Docker to ClearOS in addition to traditional operating systems.

Industry Leading Services and Ease of Deployment

The HPE ProLiant DL380 Gen10 server comes with a complete set of HPE Technology Services, delivering confidence, reducing risk, and helping customers realize agility and stability.

HPE Pointnext Services simplifies all stages of the IT journey. Advisory and Transformation Services professionals understand customer challenges and design an optimal solution. Professional Services enable rapid deployment of solutions and Operational Services provide ongoing support.

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).

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



Technical specifications

HPE ProLiant DL380 Gen10 5222 1P 32GB-R S100i NC 8SFF 800W PS Server

Product Number (SKU)	P40422-B21
Processor Name	Intel® Xeon® Scalable 5222 (4 core, 3.8 GHz, 16.5 MB, 105W)
Processor core available	4, per processor
Processor cache	16.4 MB L3
Processor speed	3.8 GHz
Power supply type	1 HPE 800W Flex Slot Universal Hot Plug Low Halogen
Expansion slots	8, for detailed descriptions reference the QuickSpecs
Memory, standard	32 GB (1x 32GB) RDIMM
Memory type	HPE DDR4 Smart Memory with optional Intel Optane Persistent Memory for HPE
Included hard drives	None ship standard, 8 SFF drives supported
Optical drive type	Optional
System fan features	4 single-rotor, standard fans included
Network controller	1 HPE Ethernet 10Gb 2-port FLR-SFP+ BCM57414 Adapter (P08440-B21) plus optional stand-up card *NOTE: No embedded networking
Storage controller	1 HPE Smart Array S100i
Minimum dimensions (H x W x D)	44.55 x 73.03 x 8.74 cm
Weight	14.76 kg
Infrastructure management	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download) (standard) HPE iLO Advanced, and HPE OneView Advanced (optional requires 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.hpe.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.hpe.com/support



For additional technical information, available models and options, please reference the QuickSpecs

HPE POINTNEXT

Access expertise at every step of your IT journey with HPE Pointnext Services. Advisory Services focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our Professional and Operational Services help speed up time-to-production and keep your IT stable and reliable.

Operational Services from HPE Pointnext Services

- **HPE Datacenter Care** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- **HPE Proactive Care** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). Read more
- **HPE Foundation Care** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. Read more.

Other related services

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

HPE Service Credits offers a menu of technical services, access additional resources, and specialist skills.

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.

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 60% performance increase of Intel Xeon Platinum vs. previous generation E5-2600 v4 average gains of STREAM, LINPACK, SPEC CPU 2006 & SPEC CPU2017 metrics on HPE servers comparing 2-socket Intel Xeon Platinum 8280 to E5-2699 v4 family processors. Any difference in system hardware or software design or configuration may affect actual performance. April 2019.

[2] Up to 27% cores increase of Intel Xeon Platinum vs. previous generation comparing 2-socket Intel Xeon Platinum 8280 (28 cores) to E5-2699 v4 (22 cores). Calculation 28 cores/22 cores= 1.27 = 27%. April 2019.

[3] 3.0 TB per socket with 512GB 2666 Persistent Memory Kit

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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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