

HPE PROLIANT DL380 GEN10 4214R 1P 32GB-R P408I-A NC 8SFF 800W PS SERVER (P24842-B21)

ProLiant DL Servers



WHAT'S NEW

- Supporting additional second generation Intel® Xeon® Scalable processor family offerings.
- Increased Single-Width GPU Density with up to 7 NVIDIA T4/Quadro P2000/P2200 or Intel PAC D5005 (Stratix 10 SX) in a 2U, standard length, rackmount server.
- Networking Choice (NC) server models

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,

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 Persistent Memory and enables per-socket memory capacity of up to 3.0 TB. [4]
- 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.

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.

FEATURES

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.

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.

Along with an embedded 4x1GbE, you have a choice of HPE FlexibleLOM or PCIe standup adapters which offer a choice of networking bandwidth (1GbE to 40GbE) and fabric so you can adapt and grow to changing business needs.

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

Security Innovations

Only Hewlett Packard Enterprise offers industry standard servers with major firmware anchored directly into the silicon. Starting with silicon root of trust, security protection is built in across the server life-cycle.

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 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 store artifacts used to authenticate the server platforms while the Intrusion Detection kit logs and alerts when the server hood is removed.



World-Class Performance featuring Enhanced Compute Density

The ProLiant DL380 now features significantly enhanced GPU density, expanding support from 5 to 7 Full-Height, Half-Length, Single-Width Accelerators/GPUs; or up to 6 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.

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 4214R 1P 32GB-R P408i-a NC 8SFF 800W PS Server

Product Number (SKU)	P24842-B21
Processor Name	Intel® Xeon® Scalable 4214R (12 core, 2.4 GHz, 16.5 MB, 100W)
Number of processors	1 or 2
Processor core available	12, per processor
Processor cache	16.5 MB L3
Processor speed	2.4 GHz
Power supply type	1 HPE 800W Flex Slot Universal Hot Plug Low Halogen
Expansion slots	8, for detail descriptions reference the QuickSpecs
Memory, standard	32 GB (1x 32GB) RDIMM
Memory type	HPE DDR4 SmartMemory and HPE Persistent Memory, depending on model
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 1Gb 4-port 366FLR FlexibleLOM Adapter (665240-B21) plus optional stand-up card *NOTE: No embedded networking
Storage controller	1 HPE Smart Array P408i-a/2GB with Smart Storage Battery and 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.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

