Have feedback on QuickSpecs? We're listening

HPE ProLiant Compute DL580 Gen12

QuickSpecs

The HPE ProLiant Compute DL580 Gen12 is a high-performance 4U server engineered for the most demanding, data-intensive workloads in mission-critical enterprise environments.

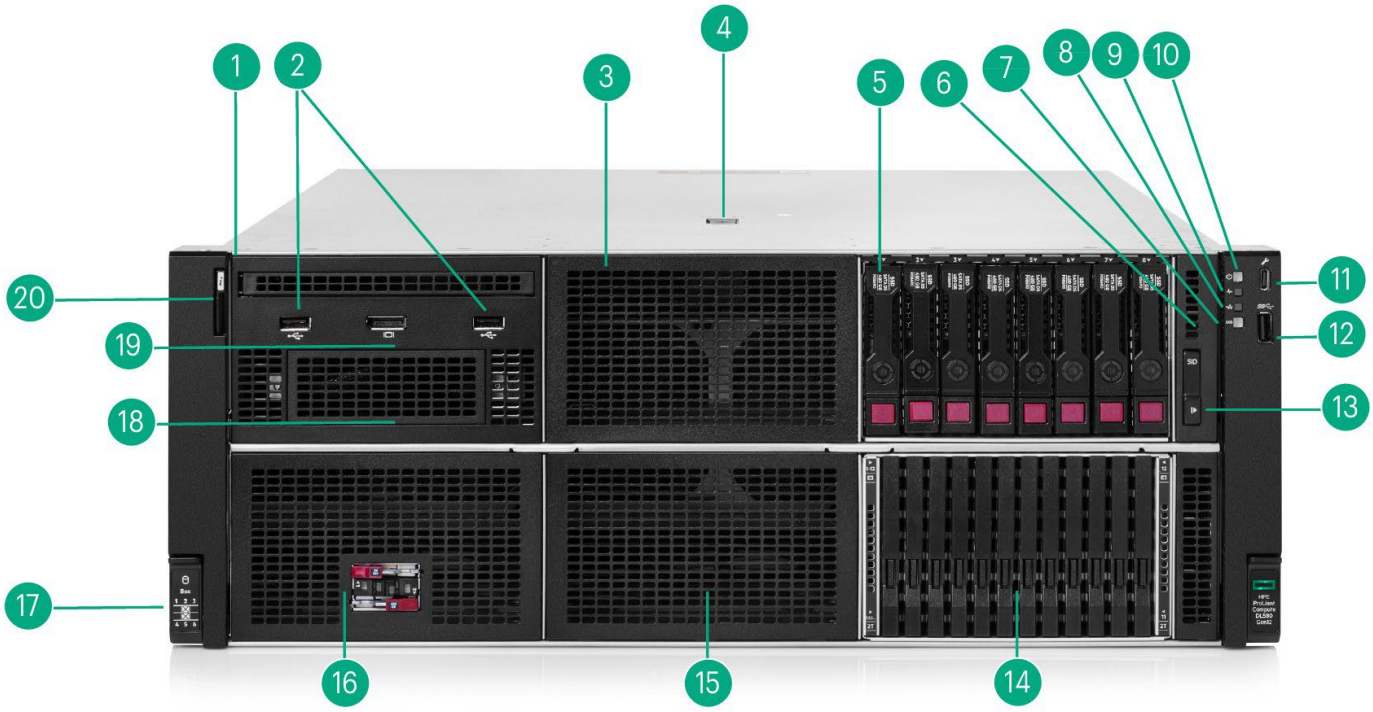
Powered by up to four Intel® Xeon® 6 processors, it delivers exceptional compute capacity with up to 86 cores per processor.

Designed for scalability and reliability, the DL580 Gen12 supports up to 16 TB of DDR5 memory and features high-throughput PCIe Gen5 I/O, making it ideal for databases, analytics, virtualization, and in-memory workloads such as SAP HANA.

HPE ProLiant Compute DL580 Gen12

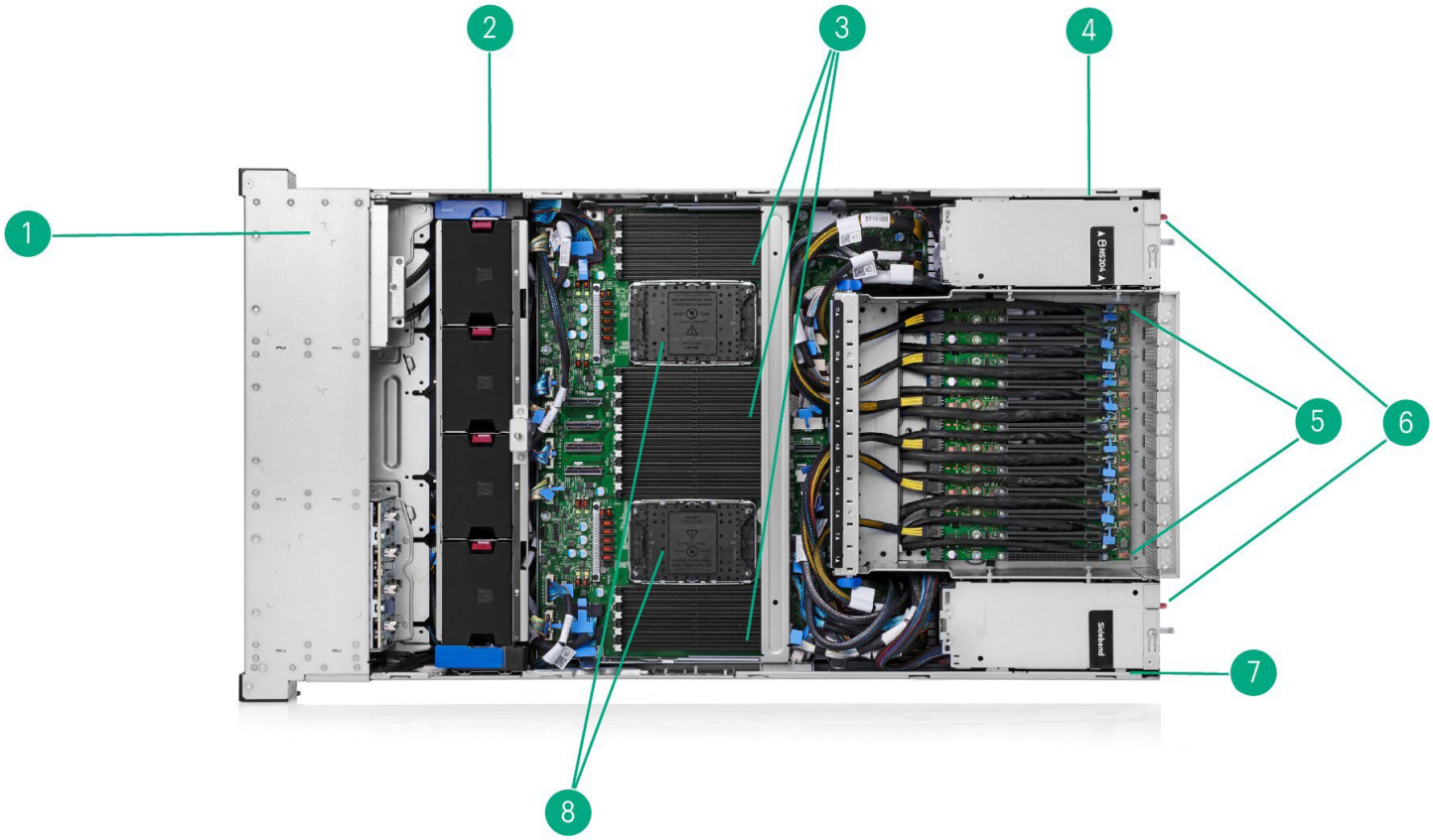
The HPE ProLiant Compute DL580 Gen12 is built with a focus on reliability, security, and ease of management. The server comes equipped with advanced features such as HPE Silicon Root of Trust technology to safeguard your critical data against cyber threats. It offers a comprehensive suite of management tools, including HPE Compute Ops Management and HPE iLO 7, which provide remote management capabilities, enabling IT administrators to manage and troubleshoot the server from anywhere, thereby reducing downtime and operational costs.

With its combination of massive memory bandwidth, compute density, and I/O flexibility, the DL580 Gen12 delivers a powerful foundation for modern enterprise IT. Its robust architecture supports a wide range of workloads, from core business applications to AI and high-performance computing. Whether deployed as a standalone system or within a broader IT strategy, the DL580 Gen12 enables organizations to scale with confidence and meet evolving performance demands.



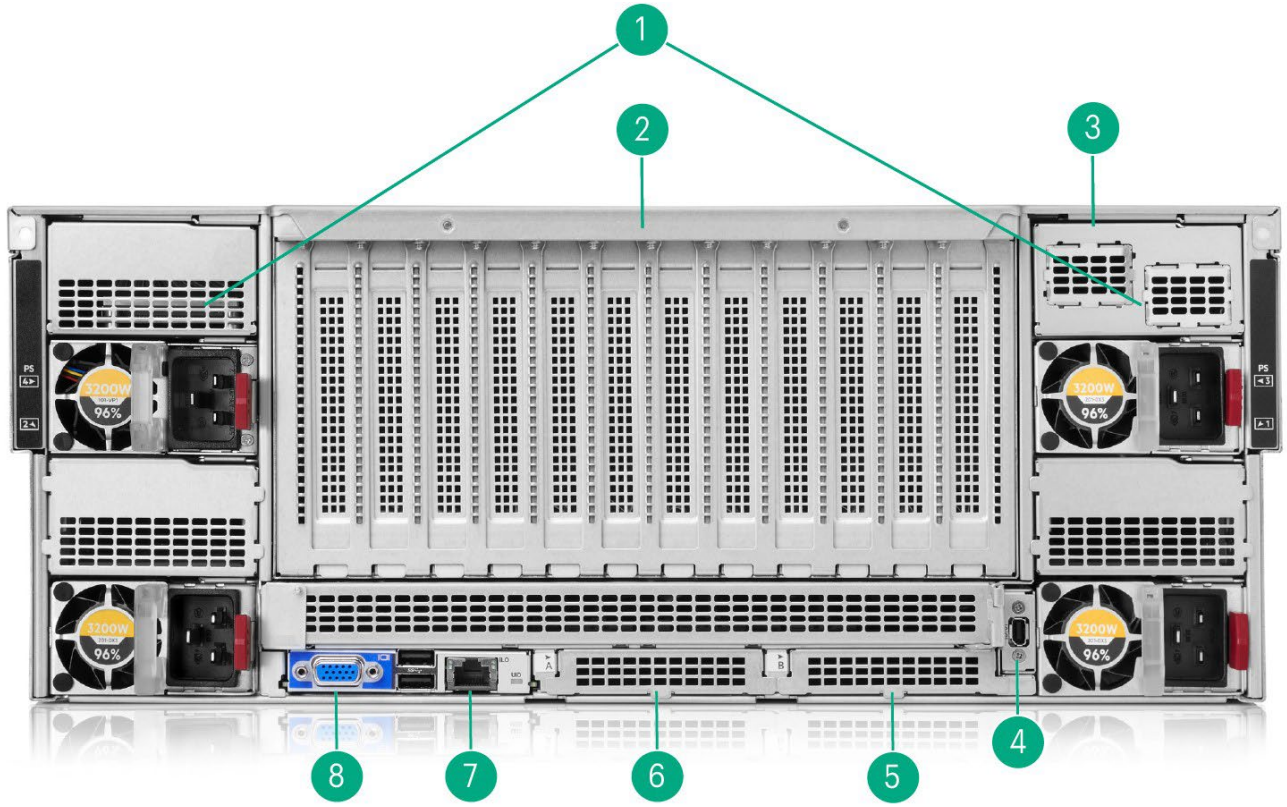
Front View – 8SFF chassis with optional multi-purpose cage

Item	Description	Item	Description
1.	Box 1 (shown empty; Optional Universal Media Bay)	11.	USB-C iLO Service Port
2.	2x USB-A 2.0 ports	12.	USB 3.2 Gen1 Port
3.	Box 2 (shown empty)	13.	System Insight Display (SID) Module
4.	Quick removal access panel	14.	Box 6 (12EDSFF shown)
5.	Box 3 (8SFF shown)	15.	Box 5 (shown empty)
6.	Quick removal access panel	16.	Box 4 (WM shown)
7.	Unit ID button/LED	17.	Box Diagram
8.	NIC status	18.	2SFF (shown empty)
9.	Health LED	19.	DisplayPort
10.	Power on/Standby button/LED	20.	Quick removal access panel



Internal View

Item	Description	Item	Description
1.	Front Option Cages	5.	12 x16 PCIe 5.0 Lanes (shown unpopulated)
2.	Hot-Plug Fans	6.	Hot-Plug Redundant HPE Flexible Slot Power Supplies
3.	DIMM Slots (shown unpopulated)	7.	Sideband Board
4.	NS204i-u boot device (optional)	8.	Processor and Performance Heat Sinks



Rear View

Item	Description	Item	Description
1.	60 mm M-CRPS	5.	OCP B
2.	12 Riser Cage	6.	OCP A
3.	External Boot Device (optional)	7.	Dedicated iLO Management Port
4.	Serial Port (optional)	8.	VGA Port

What's New

- Intel® Xeon® 6 Processors.
- Up to two rear OCP slots.
- NS204i-u front or rear install option.
- Up to 32 mixed EDSFF or SFF drives.
- Up to 16 TB DDR5 6400 MT/s memory at 1DPC.
- Direct Liquid Cooling (DLC) Module.
- SAP HANA SKUs.
- Smart Array E208e-p.

Notes: Some memory configurations have delayed availability. Contact your HPE Sales Specialist for availability details.

Platform Information

Form Factor

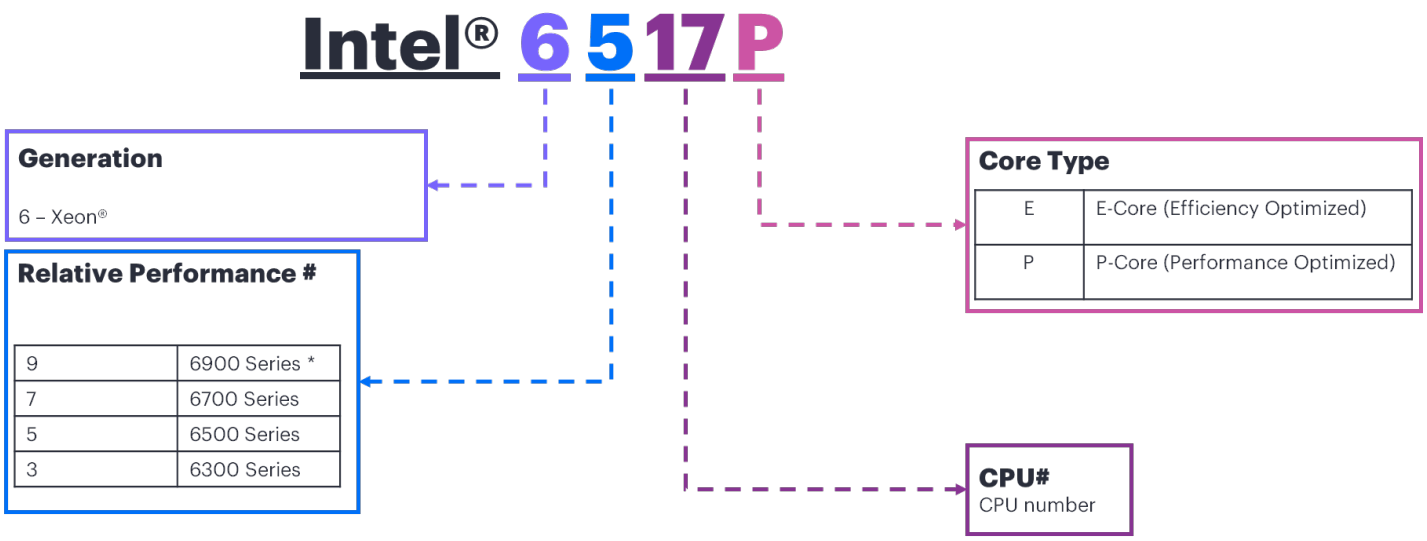
- 4U rack.

Chassis Features

- Up to 4x 8SFF or 8EDSFF front drive cages.
- Optional front NS204i-u boot device.
- Optional front Universal Media Bay.

Notes: Field upgradeable from 2 to 4 sockets.

Processors



Intel® Xeon® 6 processor naming convention

* CPU Series not supported on HPE ProLiant Compute Gen12 platforms.

For more information regarding Intel Xeon processors, please see the following https://www.intel.com/xeon.
The HPE ProLiant Compute DL580 Gen12 server supports Intel® Xeon® 6 Performance-Core (P-Core) processors. The following processors are supported on the HPE ProLiant Compute DL580 Gen12 server.

Intel® Xeon® 6 Processors with Performance-Cores (P-Cores)								
Performance General Purpose Processors								
Intel® Xeon® Models	**Base Speed (GHz)**	**Cores**	**L3 Cache (MB)**	**Power (W)**	**UPI**	**DDR5 (MT/s)***	**SGX Enclave size (GB)**	**Die****
6714P	4.0	8	48	165	4	6400	512	LCC
6724P	3.6	16	72	210	4	6400	512	LCC
6728P	2.7	24	144	210	4	6400	512	HCC
6738P	2.9	32	144	270	4	6400	512	HCC
6748P	2.5	48	192	300	4	6400	512	HCC
6768P	2.4	64	336	330	4	6400	512	XCC
6788P	2.0	86	336	350	4	6400	512	XCC

Notes:

*Intel® Xeon® 6 processors support a maximum DDR5 memory speed of 6400 MT/s at 1 DIMM per channel (DPC) and 5200 MT/s at 2DPC.

**Intel® HCC and XCC die processors have delayed availability. Contact your HPE Sales Specialist for availability details.

HPE iLO

The HPE ProLiant Compute DL580 Gen12 includes HPE iLO 7.
Read and learn more in the iLO QuickSpecs.

Memory		
Configuration	**4 Processors**	**2 Processors**
Type	HPE DDR5 Smart Memory, Registered (RDIMM)	HPE DDR5 Smart Memory, Registered (RDIMM)
DIMM Slots Available	64 DIMM Slots, 16 per processor, 8 channels per processor, 2 DIMMs per channel	32 DIMM Slots, 16 per processor, 8 channels per processor, 2 DIMMs per channel
Maximum Capacity	16 TB 64 x 256 GB RDIMM 6400 MT/s at 1DPC and 5200 MT/s at 2DPC	8 TB 32 x 256 GB RDIMM 6400 MT/s at 1DPC and 5200 MT/s at 2DPC

Notes:

- The maximum memory speed is limited by the processor selection.
- To realize the performance memory capabilities listed in this document, HPE DDR5 Smart Memory is required.
- For additional information, please visit the HPE Memory QuickSpecs and Technical White Papers.
- The -B21 memory SKUs shown in this document are to be used when ordering standalone memory only. For each -B21 SKU, there is a corresponding -F21 SKU, which is to be used when configuring servers with integrated memory DIMMs.
- For memory configuration availability details, please contact your HPE Sales Specialist.

Memory Protection

Advanced ECC

Advanced ECC uses single device data correction to detect and correct single and all multi-bit errors that occur within a single DRAM chip.

Adaptive Double DRAM Device Correction (ADDDC)

Adaptive Double DRAM Device Correction enables the server to dynamically map out a failing DRAM device. Enabling it can have some impact on system performance under certain workloads. It is enabled by default.

Mirroring

Memory Mirroring enables full memory redundancy.

Notes: For additional information, please visit the HPE Memory QuickSpecs and Technical White Papers.

Network Controller

There is no default network controller included. The HPE ProLiant Compute DL580 Gen12 server offers the customer a variety of networking options, which are outlined in the Core Options section of this document.

PCIe Expansion Slots

The HPE ProLiant Compute DL580 Gen12 can support up to six PCIe 5.0 risers, depending on processor selection. Each riser features 2x PCIe 5.0 slots and may accommodate a full-height, ¾-length card.

Notes:

- There is only one riser option.
- Two-processor configurations default to Risers 2 and 3 with their required cable kits.
- Four-processor configurations default to Risers 3 and 4 with their required cable kits.
- Correct cable kits will be automatically configured based on selected drive options and riser quantities.
- Bus width indicates the number of physical electrical lanes running to the connector.
- x16 cards installed in x8 slots might experience suboptimal performance.

Riser Configurations

2 Processor Configurations					
Riser	**Slot #**	**Bus Width**	**Connector Width**	**Description**	**Cable Kit**
1	1	N/A	N/A	N/A	N/A
1	2	N/A	N/A	N/A	N/A
2	3	x16	x16	Full-height, ¾-length slot	Default
2	4	x8	x16	Full-height, ¾-length slot	Default
3	5	x16	x16	Full-height, ¾-length slot	Default
3	6	x8	x16	Full-height, ¾-length slot	Default
4	7	x8	x16	Full-height, ¾-length slot	P80381-B21
4	8	x8	x16	Full-height, ¾-length slot	P80381-B21
5	9	N/A	N/A	N/A	N/A
5	10	N/A	N/A	N/A	N/A
6	11	N/A	N/A	N/A	N/A
6	12	N/A	N/A	N/A	N/A

4 Processor Configurations					
Riser	**Slot #**	**Bus Width**	**Connector Width**	**Description**	**Cable Kit**
1	1	x8	x16	Full-height, ¾-length slot	P81004-B21
1	2	x8	x16	Full-height, ¾-length slot	P81004-B21
2	3	x16	x16	Full-height, ¾-length slot	P80380-B21
2	4	x8	x16	Full-height, ¾-length slot	P80380-B21
3	5	x16	x16	Full-height, ¾-length slot	Default
3	6	x8	x16	Full-height, ¾-length slot	Default
4	7	x16	x16	Full-height, ¾-length slot	Default
4	8	x8	x16	Full-height, ¾-length slot	Default
5	9	x16	x16	Full-height, ¾-length slot	P80380-B21
5	10	x8	x16	Full-height, ¾-length slot	P80380-B21
6	11	x8	x16	Full-height, ¾-length slot	P81004-B21
6	12	x8	x16	Full-height, ¾-length slot	P81004-B21

OCP Expansion Slots

Expansion Slots #	Technology	Bus Width	Connector Width
1 Rear OCP A (OCP 3.0) embedded	PCIe 5.0	x8[1]	x16
1 Rear OCP B (OCP 3.0) optional cabled	PCIe 5.0	x8[1]	x16

Internal Storage Devices

- **Optical Drive -** Available (DVD-ROM or DVD-RW).
- **Hard Drives -** None ship standard.

Drive Cage Configurations: The HPE ProLiant Compute DL580 Gen12 offers a high degree of flexibility when configuring internal storage options. This flexibility can make configuring the server a challenge and could result in suboptimal drive capacity or the inability to configure additional desired options. The following matrices provide a map of drive cage, PCIe and OCP slot utilization, and supported protocols based on desired storage layout. Please keep the occupied boxes and slots in mind when choosing additional chassis and networking options.

Notes:

- Cable kits will be automatically configured based on drive cage and riser selections.
- Optional Universal Media Bay requires Box 1 to be unused.
- Front enablement of the NS204i-u boot device requires Box 4 to be available.

2 or 4 Processor Configurations

Drive Configuration	Box	Protocol	Required Controller	Qty	Cable Kit	Slots Used
8SFF x1	3	PCIe Tri-Mode	MR416i-p / MR216i-p / MR408i-p	1	P80387-B21	PCIe 7
8SFF x1	3	OROC Tri-Mode	MR416i-o / MR216i-o / MR408i-o	1	P80391-B21	OCP B
8SFF x4	3	OROC Tri-Mode	MR416i-o / MR216i-o	2	P80408-B21	OCP A + OCP B
16SFF x1	3 + 4	PCIe Tri-Mode	MR416i-p / MR216i-p	1	P80388-B21	PCIe 7
16SFF x1	3 + 4	OROC Tri-Mode	MR416i-o / MR216i-o	1	P80393-B21	OCP B
16SFF x4	3 + 4	OROC Tri-Mode	MR416i-o / MR216i-o	2	P80409-B21	OCP A + OCP B
24SFF x1	3 + 4 + 6	PCIe Tri-Mode	MR416i-p / MR216i-p	2	P80389-B21	PCIe 7 + 8
24SFF x1	3 + 4 + 6	OROC Tri-Mode	MR416i-o / MR216i-o	2	P80394-B21	OCP A + OCP B
32SFF x1	1 + 3 + 4 + 6	PCIe Tri-Mode	MR416i-p / MR216i-p	2	P80390-B21	PCIe 7 + 8
32SFF x1	1 + 3 + 4 + 6	OROC Tri-Mode	MR416i-o / MR216i-o	2	P80395-B21	OCP A + OCP B

Standard Features

Drive Configuration	Box	Protocol	Required Controller	Qty	Cable Kit	Slots Used
8SFF x4	3	Direct Attached	N/A	N/A	P80396-B21	N/A
8SFF x4	3	PCIe Tri-Mode (x2 BW)	MR416i-p / MR216i-p	1	P80417-B21	PCIe 2
8SFF x4	3	PCIe Tri-Mode	MR416i-p / MR216i-p	2	P81001-B21	PCIe 6 + 8
8EDSFF	3	Direct Attached	N/A	N/A	P80400-B21	N/A
8EDSFF + 8SFF x4	3 + 4	Direct Attached	N/A	N/A	P80414-B21	N/A
16SFF x4	3 + 4	Direct Attached	N/A	N/A	P80397-B21	N/A
16SFF x4	3 + 4	PCIe Tri-Mode (x2 BW)	MR416i-p / MR216i-p	2	P80418-B21	PCIe 2 + 8
16SFF x4	3 + 4	PCIe Tri-Mode	MR416i-p / MR216i-p	4	P81003-B21	5 + 6 + 7 + 8
16EDSFF	3 + 4	Direct Attached	N/A	N/A	P80401-B21	N/A
24SFF x4	3 + 4 + 6	Direct Attached	N/A	N/A	P80398-B21	N/A
24SFF x4	3 + 4 + 6	PCIe Tri-Mode (x2 BW)	MR416i-p	3	P80419-B21	PCIe 2 + 6 + 8
24EDSFF	3 + 4 + 6	Direct Attached	N/A	N/A	P80402-B21	N/A
16EDSFF + 16SFF x4	1 + 3 + 4 + 6	Direct Attached	N/A	N/A	P80415-B21	N/A
32SFF x4	1 + 3 + 4 + 6	Direct Attached	N/A	N/A	P80399-B21	N/A
32SFF x4	1 + 3 + 4 + 6	PCIe Tri-Mode (x2 BW)	MR416i-p	4	P80421-B21	PCIe 2 + 6 + 8 + 11
32EDSFF	1 + 3 + 4 + 6	Direct Attached	N/A	N/A	P80403-B21	N/A

4 Processor Exclusive Configurations

Notes:

- In configurations including the Universal Media Bay kit, the maximum drive support is limited to 24SFF/24EDSFF.
- In configurations including the NS204i-u option with the front enablement kit, the drive cage positioned in Box 4 is moved to Box 1, because the NS204i-u boot device is installed in the Box 4 position.
- In configurations including both the Universal Media Bay kit and the NS204i-u with the front enablement kit, the maximum drive cage support is limited to 8SFF/8EDSFF. Only Box 3 can be used for connection in this case.

Graphics

Integrated Video Standard

- VGA Port in the rear.
- DisplayPort with optional optical disk drive.
    - Video modes up to 1920 × 1200 at 60 Hz (32 bpp).
    - 16 MB Video Memory.

Interfaces	
DisplayPort	1 optional front DisplayPort via optional Universal Media Bay.
VGA Port	1 standard, rear. **Notes:** VGA and DisplayPort cannot be active simultaneously.
Network Ports	None as standard. The choice of stand-up or OCP networking card is required.
HPE iLO Remote Management Network Port	1 GbE dedicated, rear.
Front iLO Service Port	1 standard
USB 3.2 Port Gen1	Up to 7 total: 1 front (3.2 Gen1), 2 rear (3.2), 2 internal (3.2), 2 optional USB 2.0 front via Universal Media Bay.
System Insight Display (SID)	Optional, front.

Operating Systems and Virtualization Software Support for HPE Servers

HPE servers are designed for seamless integration with partner Operating Systems and Virtualization Software. By collaborating closely with our partners, we ensure that their products are optimized, certified, and fully supported within your HPE server environment.

Access the certified and supported servers for each of the OS and Virtualization software: HPE Servers Support & Certification Matrices

HPE Server UEFI

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secure configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Compute Gen12 servers have a UEFI Class 3 implementation to support UEFI Mode.

Notes: The UEFI System Utilities tool is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit https://www.hpe.com/servers/uefi.

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

- Secure Boot and Secure Start enabled for enhanced security.
- Embedded UEFI Shell.
- Operating system specific functionality.
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant.
- Support for > 2.2 TB (using GPT) boot drives.
- PXE boot support for IPv6 networks.
- USB 3.0 Stack.
- Workload Profiles for simple performance optimization.

UEFI Boot Mode only

- TPM 2.0 Support.

  Notes: Enabling TPM 2.0 no longer requires a TPM option kit for Gen12. It is an embedded feature.
- iSCSI Software Initiator Support.
- NVMe Boot Support.
- HTTP/HTTPs Boot support as a PXE alternative.
- Platform Trust Technology (PTT) can be enabled.
- Boot support for option cards that only support a UEFI option ROM.

  Notes: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.

Industry Standard Compliance

- ACPI 6.5 Compliant.
- PCIe 5.0 Compliant.
- Wake on LAN (WOL) Support.
- Microsoft® Logo certifications.
- PXE Support.
- VGA.
- DisplayPort.

  Notes: This support is on the optional Universal Media Bay.
- USB 3.2 Gen1 Compliant.
- USB 2.0 Compliant (via Universal Media Bay).

  Notes: This support is on the optional Universal Media Bay.
- ENERGY STAR®.
- SMBIOS 3.7.
- Unified Extensible Firmware Interface (UEFI) 2.10.
- UEFI Class 3.

- Redfish API.
- IPMI 2.0.
- Advanced Encryption Standard (AES).
- SNMP v3.
- TLS 1.2.
- DMTF Redfish support for Secure Boot Key Management.
- ACPI DSM Drive LED Management.
- Memory Page Retire Support.
- Retire old VMware Secure Boot Key.
- APML.
- Active Directory v1.0.
- ASHRAE A3/A4.

  Notes: For additional technical, thermal details regarding ambient temperature, humidity, and feature support, please visit DL580 Gen12 Extended Ambient Temperature Guidelines.

HPE Compute Ops Management

Transform compute lifecycle management with a cloud experience that delivers greater simplicity, agility, and speed across your entire server environment, wherever it lives. This software-as-a-service tool provides a dashboard with global visibility and intuitive management of server health, security, and compliance status to help you easily identify areas that need immediate attention. Users can update tens to thousands of servers faster through intelligent delta-based firmware downloads and on-demand HPE iLO firmware updates.

HPE Compute Ops Management is cloud-native software that is continually updated with new services, features, patches, and firmware packs. The management application resides in GreenLake cloud (access via https://common.cloud.hpe.com) and leverages the GreenLake architecture, security, and unified operations.

A 3-year subscription to HPE Compute Ops Management is added by default when ordering an HPE ProLiant Compute Gen12 rack or tower server.

For more information, visit the HPE Compute Ops Management QuickSpecs:
https://www.hpe.com/psnow/doc/a50004263enw

Embedded Management

HPE Integrated Lights-Out (HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting, and remote management with HPE iLO.
Learn more at https://www.hpe.com/info/iLO.

UEFI

Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI).

OpenBMC Support

OpenBMC capable through the HPE iLO 7 Transfer of Ownership process.
Learn more at OpenBMC Support

Intelligent Provisioning

Hassle-free server and OS provisioning for one or more servers with Intelligent Provisioning.
Learn more at https://support.hpe.com/hpesc/public/docDisplay?docId=c04465280&docLocale=en_US.

iLO RESTful API

The iLO RESTful API is a DMTF Redfish API implementation that offers simplified server management automation, such as configuration and maintenance tasks, based on modern industry standards. Learn more at https://www.hpe.com/info/restfulapi.

Server Utilities

Active Health System

The HPE Active Health System (AHS) is an essential component of the iLO management portfolio that provides continuous, proactive health monitoring of HPE servers. Learn more at https://www.hpe.com/servers/ahs.

Smart Update

Keep your servers up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP).

HPE iLO Mobile Application

Lets you access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information, please visit https://www.hpe.com/info/ilo/mobileapp.

RESTful Interface Tool

RESTful Interface tool (iLOREST) is a single scripting tool to provision using iLO RESTful API to discover and deploy servers at scale. Learn more at https://www.hpe.com/info/resttool.

HPE OneView Standard

HPE OneView is an on-premises, multi-generational server monitoring and management solution. HPE OneView Standard can be used for inventory, health monitoring, alerting, and reporting without additional fees. Customers can upgrade their management experience with an HPE OneView Advanced license, all provided by the same tool. Learn more at https://www.hpe.com/info/oneview.

Security

Experience enhanced security with HPE ProLiant Compute Gen12 servers, designed to strengthen your infrastructure's security and performance. These servers come equipped with advanced embedded security features that help protect your critical data and applications. Key features include:

- **HPE Integrated Lights-Out (HPE iLO 7):** This product offers advanced embedded security features for monitoring, service alerting, reporting, and remote management.
- **Enhanced Server Data Security:** Encryption and key management, iLO Managed Encryption, UEFI-managed encryption, and self-encrypting drives (SED) for enhanced data-at-rest protection.

- **Sanitize Data with One-Button Secure Erase:** This method complies with NIST SP 800-88 guidelines for media sanitization, ensuring the secure decommissioning of servers.
- **Expanded Industry Security Compliance:** Adherence to standards such as FIPS 140-3, NIST SP 800-53, NIST SP 800-171, and NIST SP 800-88.
- **HPE Compute Ops Management:** Provides an intuitive cloud operating experience, ensuring streamlined and highly secure operations.
- **Physical Security Options:** System maintenance switch, USB security, rack and power security, bezel lock, and chassis intrusion detection switch.
- **HPE Trusted Supply Chain:** HPE Trusted Supply Chain offers enhanced security and compliance for organizations worldwide. Servers built with this option undergo rigorous inspections and checkpoints to detect and mitigate malicious microcode and counterfeit parts throughout the server build and lifecycle.

Please refer to the HPE ProLiant Compute Gen12 Embedded Security QuickSpecs document for more detailed information at https://www.hpe.com/psnow/doc/a50009218enw

Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners. Hardware diagnostic support and repair are available for three years from the date of purchase. Support for software and initial setup is available for 90 days from the date of purchase. Enhancements to warranty services are available through HPE Services operational services or customized service agreements. Hard drives have either a one-year or three-year warranty; refer to the specific hard drive QuickSpecs for details.

Notes: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be completed through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available.
https://www.hpe.com/support/ProLiantServers-Warranties.

Server Management

HPE iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality for all HPE ProLiant servers. The license includes the fully integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality.

HPE OneView Advanced

HPE OneView Advanced offers a sophisticated level of automation to infrastructure management by taking a template-driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It builds upon the base features of HPE OneView Standard and provides full-featured licenses that can be purchased for managing multiple HPE server generations.
To learn more, visit https://www.hpe.com/info/oneview.

One Config Simple (OCS/SCE)

OCS/SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require custom rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance.
https://ocs.ext.hpe.com/SimplifiedConfig/Welcome

Rack and Power Infrastructure

The story may end with servers, but it starts with the foundation that powers compute and business growth. HPE has reinvented its entire portfolio of rack and power products to make IT infrastructure more secure, more practical, and more efficient. In other words, HPE has created a stronger, smarter, and simpler infrastructure to help you get the most out of your IT equipment. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management, and system access.

HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10-year warranty to support higher density computing.

HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°C, include color-coded outlets and load segments and a low-profile design for optimal access to the rack and support for dense rack environments.

HPE Uninterruptible Power Systems are cost-effective power protection for any type of workload. Some UPSs include options for remote management and extended runtime modules, so your critical dense data center is covered in power outages.
HPE KVM Solutions include a console and switches designed to work reliably with your server and IT equipment. HPE offers a cost-effective KVM switch for your first rack and multiple-connection IP switches with remote management and security capabilities to keep your data center rack operational.

Learn more about HPE Racks, KVM, PDUs, and UPSs at HPE Rack and Power Infrastructure.

Service and Support

HPE provides a portfolio of support, deployment, and lifecycle management services designed to help customers maximize the value, performance, and availability of their HPE infrastructure. HPE Complete Care Service provides a highly personalized support experience with proactive guidance and expert-led lifecycle management, while HPE Tech Care Service provides fast access to product specialists and flexible response options tailored to operational needs. Both HPE Complete Care Service and HPE Tech Care Service are available with defective media retention, comprehensive defective material retention, and GPU defective material recovery options.

Beyond support, HPE Lifecycle Services help customers deploy and optimize their environments with confidence. These services range from HPE Factory Express services that streamline system configuration and integration before delivery to Installation and Startup Services that accelerate time to value. For the latest information on HPE Services, please refer to the HPE Services - Supplemental QuickSpecs, which provides a comprehensive and regularly updated overview of available services.

Mainstream SKUs

HPE launched the Mainstream SKU initiative as a market-driven approach to Demand Steering. It is a simplified portfolio of our top selling options that meets the current and future market trends. HPE is committed to providing a more predictable and faster experience for these options. Mainstream SKUs enjoy higher safety stock levels and have higher fulfillment service levels than non-Mainstream SKUs. Mainstream orders are fulfilled up to 30% faster than non-Mainstream orders, and have fewer shortages and better recovery dates. This platform has Mainstream SKUs in the options portfolio and is eligible for the improved Mainstream experience. Mainstream SKUs are designated with a Mainstream symbol in our configurators.

Configuration Information

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your HPE Sales Specialist for information on configurable product offerings and requirements.

- FIO indicates that this option is only available as a factory installable option.
- All Factory Integrated Models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the server.
- Some options may not be integrated at the factory. Contact your HPE Sales Specialist for additional information.
- HPE ProLiant Compute DL580 Gen12 is highly configurable. The configuration information below does not include all CTO configuration rules. Please use one of HPE's approved configurators for the final configuration validation.

Step 1: Base Configuration – HPE ProLiant Compute DL580 Gen12 CTO Server SKU Features

CTO Server Model	HPE ProLiant Compute DL580 Gen12 Configure-to-order Server
SKU Number	P75399-B21
TAA SKU*	P75399-B21#GTA
Processor	Not included as standard – select one from available processors
DIMM Slots	64 DIMM slots
Memory	Not included as standard – select capacity and quantity from available DIMMs
DIMM Blanks	Shipped as default.
Heat Sinks	HPE High-Performance Heat Sinks
Fans	4 performance fan kits
PCIe	Up to 12 full-height, ¾-length PCIe 5.0 slots
OCP 3.0 - Rear	OCP A (optional) OCP B (default)
Drive Cages	Choice of 8SFF x1, 8SFF x4, 8EDSFF drive cages with 2SFF NVMe available via optional Universal Media Bay
Network Controller	No embedded networking. Choice of either OCP 3.0 or select stand-up network adapters for primary networking selection plus additional/optional stand-up network adapters.
Storage Controller	Choice of Intel® VROC Software RAID or MR (MegaRAID) Storage Controllers
I/O Ports	Front: One (1) USB 3.2 Gen1, One (1) USB-C iLO Service Port, One (1) DisplayPort (optional), Two (2) USB 2.0 (optional via Universal Media Bay) Rear: Two (2) USB 3.2 Gen1, One (1) iLO Management Ethernet Port, One (1) VGA Port, One (1) Serial Port (optional) Internal: One (1) USB 3.2
Security	Embedded TPM 2.0 (Trusted Platform Module)
HPE Trusted Supply Chain	P36394-B21 – Optional.
Rail Kit	Optional Rail Kit and CMA.
Form Factor	4U
Management	HPE iLO with Intelligent Provisioning (standard), HPE iLO Advanced and HPE OneView (optional)
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response

Notes:

- See drive configuration matrices for supported drive cage combinations.
- *HPE offers multiple Trade Agreements Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed in a designated country. TAA compliance is only provided when HPE options are included as part of factory integrated orders (CTO).

CTO Server Models	HPE ProLiant Compute DL580 Gen12 Configure-to-order Server
SKU Number	P75399-B21
Universal Media Bay	1 optional
Optical Disk Drive	1 optional with Universal Media Bay (UMB)
2 SFF NVMe/SAS/SATA (Front)	1 optional with UMB

Step 2: Choose Core Options

- Up to four Processors.
- Heat sinks.
- Memory.
- Drive cages / Enablement Kits.
- Riser cards.
- Storage controllers, and associated cables.
- OS Boot Device, Intel VROC.
- Networking option (PCIe stand-up or OCP 3.0).
- SSD, HDD, and Optical Drives.
- Factory Configuration Settings.
- Power and Cooling solution.
- Security Options.
- Management Options.

Step 3: Choose Additional Options

- Choice of Accessories.
- Choice of Intel® Virtual RAID on CPU Premium and Standard FIO Software for HPE.
- Choice of Embedded Management.
- Choice of Racks.
- Choice of PDUs.
- Choice of UPS.

Configuration Information

CTO Server Models	HPE ProLiant Compute DL580 Gen12 Solution Server
SKU Number	P83540-B21
With more than 75,000 server deployments, HPE is a worldwide market leader in infrastructure solutions for the entire SAP ecosystem. To ensure correct slotting and support when configuring the HPE ProLiant Compute DL580 Gen12 for SAP solutions, please use the SKUs listed below. For more information on HPE's portfolio solutions for SAP, visit HPE solutions for SAP HANA. S0V52A: HPE ProLiant Compute DL580 Gen12 Air Cooling Solution Server. S0V53A: HPE ProLiant Compute DL580 Gen12 Liquid Cooling Solution Server.	

Processors

Please select up to four processors required below.

Notes: Mixing two different processor models is not allowed.

Intel® Xeon® 6 Processors with Performance-Cores (P-Cores)

Performance General Purpose Processors

Intel Xeon 6714P 4.0GHz 8-core 165W Processor for HPE	P74508-B21
Intel Xeon 6724P 3.6GHz 16-core 210W Processor for HPE	P74509-B21
Intel Xeon 6728P 2.7GHz 24-core 210W Processor for HPE	P74572-B21
Intel Xeon 6738P 2.9GHz 32-core 270W Processor for HPE	P74577-B21
Intel Xeon 6748P 2.5GHz 48-core 300W Processor for HPE	P74579-B21
Intel Xeon 6768P 2.4GHz 64-core 330W Processor for HPE	P73835-B21
Intel Xeon 6788P 2.0GHz 86-core 350W Processor for HPE	P73838-B21

Heat Sinks

HPE ProLiant Compute DL580 Gen12 2U High Performance Heat Sink Kit	P80382-B21

Notes:

- Contains one heat sink per kit.
- The correct quantity of heat sink kits will be configured automatically based on the selected processor quantity.

Direct Liquid Cooling (DLC) Module

HPE ProLiant Compute DL580 Gen12 Direct Liquid Cooling Configure-to-order FIO Kit	P78016-B21
HPE ProLiant DL3XX Gen11 Direct Liquid Cooling 55cm Quick Disconnect Tube Set FIO Kit	P62042-B21

Notes:

- Contains 2 Cold Plate Modules and 1 Disconnect Module.
- Cannot be mixed with any other heat sinks.
- One 55 cm tube kit must be selected.

Memory Options

For detailed information on HPE server memory options, population rules, whitepapers and optimal memory performance guidelines, please go to:
HPE Memory QuickSpecs and Technical White Papers.

Registered DIMMs DDR5 (RDIMMs)

HPE 64GB (1x64GB) Dual Rank x4 DDR5-6400 CAS-52-52-52 EC8 Registered Smart FIO Memory Kit	P69728-F21
HPE 96GB (1x96GB) Dual Rank x4 DDR5-6400 CAS-52-52-52 EC8 Registered Smart FIO Memory Kit	P69729-F21
HPE 128GB (1x128GB) Dual Rank x4 DDR5-6400 CAS-52-52-52 EC8 Registered Smart FIO Memory Kit	P69730-F21
HPE 256GB (1x256GB) Quad Rank x4 DDR5-6400 CAS-60-52-52 EC8 Registered 3DS Smart FIO Memory Kit	P73447-F21

Power Supplies

European Union ErP Lot 9 Regulation

Beginning on January 1st , 2024, units sold into the European Union (EU), European Economic Area (EEA), the United Kingdom, Ireland, Switzerland or Turkey, must include more efficient AC power supplies: 94% for multi-output and 96% for single-output. HPE Flexible Slot power supplies are single-output, and part numbers P03178-B21 and P44712-B21 are 96% efficient, thus meeting requirements.

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Compute Gen12 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

A standard 6-foot IEC C-13/C-14 jumper cord (A0K02A) is included with each standard AC power supply option kit. If a different power cord is required, please check the ProLiant Power Cables web page.

To select the right size power supply for your ProLiant Server it is highly recommended to use "HPE Power Advisor" located at https://poweradvisorext.it.hpe.com/

For information on power specifications and technical content visit HPE Server power supplies.

Select one or two power supplies from below.

Notes:

- The mixing of 2 different power supplies is NOT allowed.
- For 2 processor configurations, select a minimum (1) and a maximum (2) power supplies.
- For 4 processor configurations, select either (2) or (4) power supplies.

Modular Common Redundant Power Supply (M-CRPS)

HPE 1500W M-CRPS Titanium Hot Plug Power Supply Kit	P67244-B21
HPE 3200W M-CRPS Titanium Hot Plug Power Supply Kit	P67248-B21
HPE 2400W M-CRPS Titanium Hot Plug Power Supply Kit	P67252-B21

HPE Power Options

HPE 2000-2200W -48VDC Power Lug Kit	P79839-B21
HPE 2200W M-CRPS -48VDC Hot Plug Power Supply Kit	P73210-B21

Drive Cage and Backplane

HPE ProLiant Compute DL580 Gen12 8SFF x1 U.3 Tri-Mode Drive Cage Kit	P80429-B21
HPE ProLiant Compute DL580 Gen12 8SFF x4 U.3 Tri-Mode Drive Cage Kit	P80430-B21
HPE ProLiant Compute DL580 Gen12 8EDSFF Drive Cage Kit	P80431-B21
HPE ProLiant Compute DL580 Gen12 2SFF U.3 Drive Cage Kit	P80432-B21
HPE ProLiant Compute DL580 Gen12 Universal Media Bay Kit	P80447-B21

Riser Cards

HPE ProLiant Compute DL580 Gen12 2x16 Riser Kit	P80379-B21

Riser Cards Accessories

HPE ProLiant Compute DL580 Gen12 4P Riser 2/5 Upgrade Cable Kit	P80380-B21
HPE ProLiant Compute DL580 Gen12 2P Riser Upgrade Cable Kit	P80381-B21
HPE ProLiant Compute DL580 Gen12 4P Riser 1/6 Upgrade Cable Kit	P81004-B21

OCP 3.0 Enablement

HPE ProLiant Compute DL580 Gen12 OCP SlotA x16 Enablement Kit	P80427-B21
HPE ProLiant Compute DL580 Gen12 OCP SlotB x16 Enablement Kit	P80428-B21

Boot Controllers

Notes:

- Front and Rear Enable kits cannot be selected together.
- Front enablement requires Box 4 to be unoccupied.
- If Box 4 is occupied by a drive cage, the Rear Enable kit must be selected.

HPE NS204i-u v2 480GB NVMe Hot Plug Boot Optimized Storage Device	P78279-B21
HPE ProLiant Compute DL580 Gen12 Front NS204i-u Boot Device Enablement Kit	P79031-B21
HPE ProLiant Compute DL580 Gen12 Rear NS204i-u Boot Device Enablement Kit	P80440-B21

Storage Controller

Notes: Please see the storage configuration matrices on pages 9 and 10 for storage controller quantities and slot utilization.

HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller	P47777-B21
HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller	P47781-B21
HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller	P47785-B21
HPE MR216i-o Gen11 x16 Lanes without Cache OCP SPDM Storage Controller	P47789-B21
HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller	P58335-B21
HPE MR408i-p Gen11 x8 Lanes 4GB Cache PCI SPDM Plug-in Storage Controller	P74775-B21
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
HPE MR932i-p x32 Lanes PCIe Gen5 SPDM Plug-in Storage Controller	P75697-B21

Storage Battery

HPE 96W Smart Storage Lithium-ion Battery with 260mm Cable Kit	P01367-B21
HPE Smart Storage Hybrid Capacitor with 260mm Cable Kit	P02381-B21
HPE ProLiant Compute DL580 Gen12 MR416 Controller Data Retention Power Cable Kit	P80426-B21

Storage Upgrade

Notes: The P80426-B21 cable is a 1000mm cable providing retention power for the MR controller cache memory. It connects from the MLB to the controller card. This cable is only required when you select the mega cell options kit. The DL580 uses the 260mm cable with the Li-ion/capacitor kit because the battery is located in the center of the chassis directly adjacent to the power connector on the MLB. Power cable to connect the Megacell / Smart Capacitor to the MR416i/MR408i controller. Qty 1 Data Ret Power Cable can connect to up to 3 controllers.

Networking

1 Gigabit Ethernet adapters

Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21

10 Gigabit Ethernet adapters

Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21

10/25 Gigabit Ethernet adapters

Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P26264-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21

100 Gigabit Ethernet Adapters

Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 Adapter for HPE	P73111-B21
Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	P25960-B21
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	P21112-B21

OCP Adapters

1 Gigabit Ethernet adapters

Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P51181-B21

10 Gigabit Ethernet adapters

Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P26256-B21

10/25 Gigabit Ethernet adapters

Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE	P26269-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE	P41614-B21
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21

100 Gigabit Ethernet adapters

Broadcom BCM57608 Ethernet 100Gb 2-port QSFP112 OCP3 Adapter for HPE	P73114-B21
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	P22767-B21

HPE InfiniBand

Notes: HPE InfiniBand NICs will be available post-launch

HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Generic Adapter	P45642-H23
HPE Data Processing Unit InfiniBand NDR200/Ethernet 200Gb 2-port QSFP112 FHHL B3220 Adapter	P66386-H21
HPE Data Processing Unit InfiniBand NDR/Ethernet 400Gb 1-port QSFP112 HHHL B3140H Adapter	P66387-H21
HPE InfiniBand XDR PCIe Gen6 x16 Multi Host/Socket Direct Auxiliary Card with 250mm MCIO Cable Kit	P81264-H21

Cable Kits

HPE ProLiant Compute DL580 Gen12 2P 16EDSFF x4 Tri-Mode FIO Cable Kit	P80410-B21
HPE ProLiant Compute DL580 Gen12 4P 24EDSFF x4 Tri-Mode FIO Cable Kit	P80411-B21
HPE ProLiant Compute DL580 Gen12 4P 32EDSFF x4 Tri-Mode FIO Cable Kit	P80412-B21
HPE ProLiant Compute DL580 Gen12 4P Tri-Mode FIO Cable Kit	P80416-B21
HPE ProLiant Compute DL580 Gen12 4P 24SFF x4 X2BW FIO Tri-Mode Cable Kit	P80420-B21
HPE ProLiant Compute DL580 Gen12 4P 16EDSFF X2BW FIO Tri-Mode Cable Kit	P80423-B21
HPE ProLiant Compute DL580 Gen12 4P 24EDSFF X2BW FIO Tri-Mode Cable Kit	P80424-B21
HPE ProLiant Compute DL580 Gen12 4P 32EDSFF X2BW FIO Cable Kit	P80425-B21
HPE ProLiant Compute DL580 Gen12 2P 32SFF x1 Tri-Mode 32i FIO Cable Kit	P80745-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 8SFF x4 Tri-Mode FIO Cable Kit	P80746-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 16SFF x4 Tri-Mode 32i FIO Cable Kit	P80747-B21
HPE ProLiant Compute DL580 4P 24SFF x4 Tri-Mode 32i FIO Cable Kit	P80748-B21
HPE ProLiant Compute DL580 Gen12 4P 32SFF x4 Tri-Mode 32i FIO Cable Kit	P80749-B21
HPE ProLiant Compute DL580 Gen12 4P 32SFF x2 Tri-Mode 32i FIO Cable Kit	P80750-B21
HPE ProLiant Compute DL580 Gen12 2P 16SFF x4 WM FIO Direct Attached Cable Kit	P89800-B21
HPE ProLiant Compute DL580 Gen12 2P 16EDSFF x4 WM FIO Cable Kit	P89801-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 16SFF x1 WM FIO Cable Kit	P89802-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 24SFF x1 WM FIO Cable Kit	P89803-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 16SFF x1 OCP WM FIO Cable Kit	P89804-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 24SFF x1 OCP WM FIO Cable Kit	P89805-B21
HPE ProLiant Compute DL580 Gen12 4P 16SFF x4 WM FIO Direct Attached Cable Kit	P89806-B21
HPE ProLiant Compute DL580 Gen12 4P 24SFF x4 WM FIO Direct Attached Cable Kit	P89807-B21
HPE ProLiant Compute DL580 Gen12 4P 16EDSFF x4 WM FIO Cable Kit	P89808-B21
HPE ProLiant Compute DL580 Gen12 4P 24EDSFF x4 WM FIO Cable Kit	P89809-B21
HPE ProLiant Compute DL580 Gen12 4P 24SFF x4 32i FIO Cable Kit	P89810-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 16SFF x2 OCP WM FIO Cable Kit	P89811-B21
HPE ProLiant Compute DL580 Gen12 2P 16EDSFF x4 M2 FIO Cable Kit	P89812-B21
HPE ProLiant Compute DL580 Gen12 2P 8SFF 8EDSFF FIO Cable Kit	P89813-B21
HPE ProLiant Compute DL580 Gen12 4P 8SFF 8EDSFF FIO Cable Kit	P89814-B21
HPE ProLiant Compute DL580 Gen12 4P 16SFF x2 WM FIO Cable Kit	P89815-B21
HPE ProLiant Compute DL580 Gen12 MR416 4P 24SFF WM FIO Cable Kit	P89816-B21

HPE ProLiant Compute DL580 Gen12 4P 24SFF x4 X2BW FIO Cable Kit	P89817-B21
HPE ProLiant Compute DL580 Gen12 4P 16EDSFF X2BW FIO Cable Kit	P89818-B21

HPE Security Options

HPE Trusted Supply Chain for HPE ProLiant	P36394-B21

Notes:

- HPE Trusted Supply Chain (P36394-B21) is an optional security upgrade intended for agencies and regulated industries needing enhanced security and compliance needs. Applying this option ensures it is built in the USA in a secure facility by vetted HPE personnel assigned to the manufacturing processes. A multitude of checkpoints/inspections for malicious microcode and counterfeit parts are performed throughout the server build, and additional safeguards are put in place against cyber-exploits throughout the server lifecycle. Learn more at https://www.hpe.com/security
- This option requires the selection of HPE Intrusion Detection Kit (P55713-B21).
- This option requires the selection of HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features (BD505A).

HPE iLO Common Password FIO Setting	P08040-B21

Notes:

- Replaces iLO default randomized password by an HPE defined common password. HPE highly recommends changing this password immediately after the initial onboarding process.
- Customers who want to choose their own custom iLO default password should use the HPE Factory Express Integration Services.

HPE ProLiant Platform Certificate and IDevID iLO FIO Setting	P42104-B21

Notes:

- Initial Device Identity (IDevID) certificates are part of a Zero Trust Architecture. This SKU instructs factory to provision IDevID on HPE iLO.
- Directs HPE manufacturing site to create, digitally sign and store a platform certificate on the server.
- Requires HPE Trusted Platform Module (TPM).

HPE ProLiant Compute DL380a Gen12 4U Bezel Kit	P74911-B21
HPE ProLiant DL385 Gen11 Intrusion Cable Kit	P55713-B21

Notes: This option must be selected if HPE Trusted Supply Chain SKU (P36394-B21) is selected.

Software as a Service Management

HPE Compute Ops Management

Base SKU

HPE Compute Ops Management Standard 3-year Upfront ProLiant SaaS	R7A11AAE

Upgrade SKUS

HPE Compute Ops Management Standard 5-year Upfront ProLiant SaaS	R7A12AAE
HPE Compute Cloud Management Server FIO Enablement	S1A05A
HPE Compute Ops Management Standard with ProLiant Enablement	S2R34AAE
HPE Compute Ops Management Standard 7-year Upfront ProLiant SaaS	S2E10AAE

HPE OneView

HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE

Notes: For customers purchasing HPE Compute Ops Management, without a hardware purchase or a BTO purchase, use this base SKU within ASQ order:

For more information, visit the HPE Compute Ops Management QuickSpecs:
https://www.hpe.com/psnow/doc/a50004263enw

Supported Servers – CTO only. No OEM. – Complete list can be found here: Latest Supported Server List:
https://www.hpe.com/info/com-supported-servers

Management Hardware

HPE ProLiant Compute DL580 Gen12 System Insight Display Module Kit	P80446-B21

HPE Optical Drives and Accessories

HPE 9.5mm SATA DVD-ROM Optical Drive	726536-B21
HPE 9.5mm SATA DVD-RW Optical Drive	726537-B21

Notes: HPE DL580 Gen12 Universal Media Bay Kit (P80447-B21) is required for this option.

HPE Mobile USB DVD-RW Optical Drive	701498-B21

Media Bay Kits

HPE ProLiant Compute DL580 Gen12 Universal Media Bay Kit	P80447-B21

HPE Hard Disk Drives

Mission Critical – 12G FIP – SFF Drives

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3yr Wty 512e FIPS 140-2 TAA-compliant HDD	P28618-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3yr Wty FIPS 140-2 TAA-compliant HDD	P28622-B21

Enterprise – 12G SAS – SFF Drives

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P28352-B21
HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P53562-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P28586-B21
HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P53561-B21
HPE 300GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P40430-B21

SSD Selection

For SSD selection guidance, please visit https://ssd.hpe.com/

Read Intensive – NVMe – EDSFF – Solid State Drives

HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61187-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61183-B21
HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM CM7 SSD	P61179-B21
HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70392-B21
HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69234-B21
HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77269-B21
HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77271-B21
HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77273-B21
HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 EDSFF SPDM PE1010 SSD	P77275-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70395-B21
HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 PS1010 SSD	P70397-B21
HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69237-B21
HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69239-B21
HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 CD8P SSD	P69546-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70674-B21
HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 Self-encrypting 7600 SSD	P87719-B21
HPE 1.92TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 SPDM 7600 SSD	P85121-B21
HPE 15.36TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 SPDM 7600 SSD	P85128-B21
HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 Self-encrypting 7600 SSD	P87721-B21
HPE 3.84TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 SPDM 7600 SSD	P85124-B21
HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 Self-encrypting 7600 SSD	P87723-B21
HPE 7.68TB NVMe Gen5 Mainstream Performance Read Intensive E3S EC1 SPDM 7600 SSD	P85126-B21

Mixed Use – NVMe – EDSFF – Solid State Drives

HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70399-B21
HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61191-B21
HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 EDSFF SPDM CM7 SSD	P61195-B21
HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69241-B21
HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77262-B21
HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77265-B21
HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 EDSFF SPDM PE1030 SSD	P77267-B21
HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70401-B21
HPE 12.8TB NVMe Gen5 High Performance Mixed Use E3S EC1 PS1030 SSD	P70403-B21
HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69243-B21
HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 CD8P SSD	P69245-B21
HPE 3.2TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70669-B21
HPE 6.4TB NVMe Gen5 High Performance Mixed Use E3S EC1 Self-encrypting FIPS 140-3 CM7 SSD	P70672-B21
HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3.S EC1 Self-encrypting 7600 SSD	P87715-B21
HPE 1.6TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 SPDM 7600 SSD	P85114-B21
HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3.S EC1 Self-encrypting 7600 SSD	P87717-B21
HPE 3.2TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 SPDM 7600 SSD	P85117-B21
HPE 6.4TB NVMe Gen5 Mainstream Performance Mixed Use E3S EC1 SPDM 7600 SSD	P85119-B21

Read Intensive – 24G SAS – SFF – Solid State Drives	
HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49041-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49035-B21
HPE 1.92TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49031-B21
HPE 960GB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49029-B21
HPE 3.84TB SAS Read Intensive SFF BC Self-encrypting FIPS 140-3 PM7 SSD	P83347-B21
Read Intensive – 12G SAS – SFF – Solid State Drives	
HPE 7.68TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40509-B21
HPE 3.84TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40508-B21
HPE 1.92TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40507-B21
HPE 960GB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40506-B21
Mixed Use – 24G SAS – SFF – Solid State Drives	
HPE 6.4TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49057-B21
HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49053-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-B21
HPE 800GB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49047-B21
HPE 1.6TB SAS Mixed Use SFF BC Self-encrypting FIPS 140-3 PM7 SSD	P83344-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61043-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61051-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61059-B21
Mixed Use – 12G SAS – SFF – Solid State Drives	
HPE 3.84TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40512-B21
HPE 1.92TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40511-B21
HPE 960GB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40510-B21
Read Intensive – 6G SATA – SFF – Solid State Drives	
HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-B21
HPE 480GB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58236-B21
HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21
HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-B21
Mixed Use – 6G SATA – SFF – Solid State Drives	
HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40505-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-B21
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58244-B21
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-B21
HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-B21
Read Intensive – NVMe – SFF – Solid State Drives	
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70436-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70434-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64848-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64846-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50216-B21
HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64842-B21

HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61019-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61027-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61035-B21

Mixed Use – NVMe – SFF – Solid State Drives

HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD	P70428-B21
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65023-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD	P70426-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50230-B21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65007-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50227-B21

VRO – NVMe – SFF – Solid State Drives

HPE 3.84TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63930-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63934-B21
HPE 15.36TB NVMe Gen4 Mainstream Performance Very Read Optimized E3S EC1 EDSFF P5430 SSD	P63938-B21

Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for additional information.

Embedded Management

HPE iLO Common Password FIO Setting

HPE iLO Common Password FIO Setting	P08040-B21

Notes:

- Replaces iLO default randomized password by an HPE defined common password. HPE highly recommends changing this password immediately after the initial onboarding process.
- Customers who want to choose their own custom iLO default password should use the HPE Factory Express Integration Services.

HPE iLO Advanced

HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A
HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE

HPE Converged Infrastructure Management Software

HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView including 3yr 24x7 Support Track 1-server LTU	E5Y36A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support Bundle Track 1-server LTU	E5Y44A

Notes: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded.

HPE Tape Backup

For the complete range of tape drives, autoloaders, libraries and media see: https://www.hpe.com/us/en/storage/storeever-tape-storage.html For hardware and software compatibility of Hewlett Packard Enterprise tape backup products https://www.hpe.com/storage/BURAcompatibility

HPE Storage Options

Emulex Fibre Channel HBAs

HPE SN1620E 32Gb 2p FC SecureHBA	S4S01A
HPE SN1720E 64Gb 2p FC SecureHBA	S4T09A

QLogic Fibre Channel HBAs

HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	R2E08A
HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	R2E09A
HPE SN1700Q 64Gb 1-port Fibre Channel Host Bus Adapter	R7N86A
HPE SN1700Q 64Gb 2-port Fibre Channel Host Bus Adapter	R7N87A

HPE Racks

- Please see the HPE Advanced Series Racks QuickSpecs for information on additional racks options and rack specifications. HPE G2 Advanced Series Racks
- Please see the HPE Enterprise Series Racks QuickSpecs for information on additional racks options and rack specifications. HPE G2 Enterprise Series Racks

HPE Power Distribution Units (PDUs)

- Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs for information on these products and their specifications.
- Please see the HPE Metered Power Distribution Units (PDU) QuickSpecs for information on these products and their specifications. Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs for information on these products and their specifications.
- Please see the HPE Metered and Switched Power Distribution Units (PDU) QuickSpecs for information on these products and their specifications.

HPE Uninterruptible Power Systems (UPS)

- To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page.
- Please see the HPE Direct Flow Three Phase Uninterruptible Power System QuickSpecs for information on these products and their specifications.
- Please see the HPE Line Interactive Single Phase UPS QuickSpecs for information on these products and their specifications.

HPE Rack Options

Please see the HPE KVM Switches web page for information on these products and their specifications.

Rail Kits

To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative.

Notes:

- Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
- HPE rail kits are designed to work with HPE racks in compliance with industry standard EIA-310-E. In the event a customer elects to purchase a third-party rack for use with an HPE rail kit, any such use is at customer's own risk. HPE makes no express or implied warranties with respect to such third-party racks and specifically disclaims any implied warranties of merchantability and fitness for a particular purpose. Furthermore, HPE has no obligation and assumes no liability for the materials, design, specifications, installation, safety, and compatibility of any such third-party racks with any rail kits, including HPE rail kits.

HPE ProLiant Compute DL380a Gen12 Ball Bearing Rail Kit	P69770-B21

Notes: Does not include Cable Management Arm (CMA) (P28726-B21).

HPE Apollo 4200 Gen10 Plus Cable Management Arm	P28726-B21

HPE Support Services

Installation & Startup Services

HPE ProLiant DL/ML Install Service	U4554E
HPE ProLiant DL/ML Ons Startup Service	U4555E

Tech Care Services

HPE 3 Year Tech Care Essential DL380 Gen12 HW Service	H49RRE
HPE 3 Year Tech Care Essential wDMR DL380 Gen12 HW Service	H49RSE
HPE 5 Year Tech Care Essential DL380 Gen12 HW Service	H49SWE
HPE 5 Year Tech Care Essential wDMR DL380 Gen12 HW Service	H49SXE

Notes: For a full listing of support services available for this server, please visit https://www.hpe.com/services

System Unit

Dimensions (height x width x depth)

- 17.47 x 44.78 x 80.26 cm / 6.99 x 17.63 x 31.60 in

Notes: The depth is measured from the back of front ear to rear IO wall surface, does not include PSUs.

Weight (approximate)

- 4P Maximum: 48.75 KG, 107.49 lbs.
- Minimum: 38.77 KG, 85.47 lbs.

- 2P Maximum: 37.24 KG, 82.12 lbs.
- Minimum: 28.79 KG, 63.48 lbs.

System Inlet Temperature

- **Standard Operating Temperature**
  10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft.) above sea level to a maximum of 3050 m (10,000 ft.), no direct sustained sunlight. Maximum rate of change is 20°C/hr. (36°F/hr.). The upper limit and rate of change may be limited by the type and number of options installed.

  System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

- **Extended Ambient Operating Temperature**
  For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft.) above 900 m (2953 ft.) to a maximum of 3050 m (10,000 ft.).
  For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft.) above 900 m (2953 ft.) to a maximum of 3050 m (10,000 ft.). The approved hardware configurations for this system are listed at the URL: DL380 Gen12 Extended Ambient Temperature Guidelines.
  System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
  https://www.hpe.com/support/ASHRAEGen12
- **Non-operating**
  30° to 60°C (-22° to 140°F). The maximum rate of change is 20°C/hr. (36°F/hr.).

Thermal Support Specs

2 Processor Configurations

CPU

HDD Configuration		CPU						
Support Storage Configuration		Box Quantity	Intel Xeon 6714P CPU 165W	Intel Xeon 6724P CPU 210W	Intel Xeon 6728P CPU 210W	Intel Xeon 6738P CPU 270W	Intel Xeon 6748P CPU 300W	Intel Xeon 6768P CPU 330W	Intel Xeon 6788P CPU 350W
			P74508-B21	P74509-B21	P74572-B21	P74577-B21	P74579-B21	P73835-B21	P73838-B21
1	Front WM Bay	1	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
2	8 pcs SFF								
3	8 pcs EDSFF								
4	16 pcs SFF	2	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
5	16 pcs EDSFF								
6	8 pcs SFF + 8 pcs EDSFF								
7	8 pcs SFF + Media Bay								
8	8 pcs EDSFF + Media Bay								
9	24 pcs SFF	3	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
10	24 pcs EDSFF								
11	16 pcs SFF + Media Bay								
12	16 pcs EDSFF + Media Bay								
13	8 pcs SFF + 8 pcs EDSFF + Media Bay								
14	32 pcs SFF	4	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
15	32 pcs EDSFF								
16	24 pcs SFF + Media Bay								
17	24 pcs EDSFF + Media Bay								
18	16 pcs SFF + 16 pcs EDSFF								

Memory

HDD Configuration			DIMM			
Support Storage Configuration		Box Quantity	HPE 64GB 2Rx4 PC5-6400B-R Smart Kit	HPE 96GB 2Rx4 PC5-6400B-R Smart Kit	HPE 128GB 2Rx4 PC5-6400B-R Smart Kit	HPE 256GB 4Rx4 PC5-6400B-R 3DS Smart Kit
			P69728-B21	P69729-B21	P69730-B21	P73447-B21
1	Front WM Bay	1	35 °C	35 °C	35 °C	35 °C
2	8 pcs SFF					
3	8 pcs EDSFF					
4	16 pcs SFF	2	35 °C	35 °C	35 °C	35 °C
5	16 pcs EDSFF					
6	8 pcs SFF + 8 pcs EDSFF					
7	8 pcs SFF + Media Bay					
8	8 pcs EDSFF + Media Bay					
9	24 pcs SFF	3	35 °C	35 °C	35 °C	35 °C
10	24 pcs EDSFF					
11	16 pcs SFF + Media Bay					
12	16 pcs EDSFF + Media Bay					
13	8 pcs SFF + 8 pcs EDSFF + Media Bay					
14	32 pcs SFF	4	35 °C	35 °C	35 °C	35 °C
15	32 pcs EDSFF					
16	24 pcs SFF + Media Bay					
17	24 pcs EDSFF + Media Bay					
18	16 pcs SFF + 16 pcs EDSFF					

PCIe-Cards:

Trigger SKU: 35C/ QS Compliant						
SKU	HDD configuration		PCI-e Card Support			
2P SKU	Support Storage Configuration	Box Quantity	PCI-e Card Tier level 5 or below	PCI-e Card Tier level 6	PCI-e Card Tier level 7	PCI-e Card Tier level 8
	Front WM Bay	1	Slot 3~8 (*)	Slot 3 and 5 (*)	Slot 3 and 5 (*)	Slot 3 and 5 (*)
	8 pcs SFF					
	8 pcs EDSFF					
	16 pcs SFF	2	Slot 3~8 (*)	Slot 3 and 5 (*)	Slot 3 and 5 (*)	Slot 3 and 5 (*)
	16 pcs EDSFF					
	8 pcs SFF + 8 pcs EDSFF					
	8 pcs SFF + Media Bay					
	8 pcs EDSFF + Media Bay					
	24 pcs SFF	3	Slot 3~8 (*)	Slot 3 and 5 (*)	Slot 3 and 5 (*)	DAC: 3 and 5
	24 pcs EDSFF					
	16 pcs SFF + Media Bay					
	16 pcs EDSFF + Media Bay					
	8 pcs SFF + 8 pcs EDSFF + Media Bay					
	32 pcs SFF	4	Slot 3~8 (*)	Slot 3 and 5 (*)	Slot 3 and 5 (*)	DAC: 3 and 5
	32 pcs EDSFF					
	24 pcs SFF + Media Bay					
	24 pcs EDSFF + Media Bay					
	16 pcs SFF + 16 pcs EDSFF					

OCP Cards

Trigger SKU: 35C/ QS Compliant				
SKU	HDD configuration		OCP Card Support	
2P SKU	Support Storage Configuration	Box Quantity	OCP Card Tier level 9 or below	OCP Card Tier level 10 and 11
	Front WM Bay	1	Slot 3~8 (*)	Slot 3 and 5 (*)
	8 pcs SFF			
	8 pcs EDSFF			
	16 pcs SFF	2	Slot 3~8 (*)	Slot 3 and 5 (*)
	16 pcs EDSFF			
	8 pcs SFF + 8 pcs EDSFF			
	8 pcs SFF + Media Bay			
	8 pcs EDSFF + Media Bay			
	24 pcs SFF	3	Slot 3~8 (*)	Slot 3 and 5 (*)
	24 pcs EDSFF			
	16 pcs SFF + Media Bay			
	16 pcs EDSFF + Media Bay			
	8 pcs SFF + 8 pcs EDSFF + Media Bay			
	32 pcs SFF	4	Slot 3~8 (*)	Slot 3 and 5 (*)
	32 pcs EDSFF			
	24 pcs SFF + Media Bay			
	24 pcs EDSFF + Media Bay			
	16 pcs SFF + 16 pcs EDSFF			

4 Processor Configurations

CPU

HDD Configuration		CPU						
Support Storage Configuration		Box Quantity	Intel Xeon 6714P CPU 165W	Intel Xeon 6724P CPU 210W	Intel Xeon 6728P CPU 210W	Intel Xeon 6738P CPU 270W	Intel Xeon 6748P CPU 300W	Intel Xeon 6768P CPU 330W	Intel Xeon 6788P CPU 350W
			P74508-B21	P74509-B21	P74572-B21	P74577-B21	P74579-B21	P73835-B21	P73838-B21
1	Front WM Bay	1	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
2	8 pcs SFF								
3	8 pcs EDSFF								
4	16 pcs SFF	2	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
5	16 pcs EDSFF								
6	8 pcs SFF + 8 pcs EDSFF								
7	8 pcs SFF + Media Bay								
8	8 pcs EDSFF + Media Bay								
9	24 pcs SFF	3	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
10	24 pcs EDSFF								
11	16 pcs SFF + Media Bay								
12	16 pcs EDSFF + Media Bay								
13	8 pcs SFF + 8 pcs EDSFF + Media Bay								
14	32 pcs SFF	4	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
15	32 pcs EDSFF								
16	24 pcs SFF + Media Bay								
17	24 pcs EDSFF + Media Bay								
18	16 pcs SFF + 16 pcs EDSFF								

Memory

HDD Configuration			DIMM			
Support Storage Configuration		Box Quantity	HPE 64GB 2Rx4 PC5-6400B-R Smart Kit	HPE 96GB 2Rx4 PC5-6400B-R Smart Kit	HPE 128GB 2Rx4 PC5-6400B-R Smart Kit	HPE 256GB 4Rx4 PC5-6400B-R 3DS Smart Kit
			P69728-B21	P69729-B21	P69730-B21	P73447-B21
1	Front WM Bay	1	35 °C	35 °C	35 °C	35 °C
2	8 pcs SFF					
3	8 pcs EDSFF					
4	16 pcs SFF	2	35 °C	35 °C	35 °C	35 °C
5	16 pcs EDSFF					
6	8 pcs SFF + 8 pcs EDSFF					
7	8 pcs SFF + Media Bay					
8	8 pcs EDSFF + Media Bay					
9	24 pcs SFF	3	35 °C	35 °C	35 °C	35 °C
10	24 pcs EDSFF					
11	16 pcs SFF + Media Bay					
12	16 pcs EDSFF + Media Bay					
13	8 pcs SFF + 8 pcs EDSFF + Media Bay					
14	32 pcs SFF	4	35 °C	35 °C	35 °C	35 °C
15	32 pcs EDSFF					
16	24 pcs SFF + Media Bay					
17	24 pcs EDSFF + Media Bay					
18	16 pcs SFF + 16 pcs EDSFF					

PCIe-Cards

Trigger SKU: 35C/ QS Compliant						
SKU	HDD configuration		PCI-e Card Support			
4P SKU	Support Storage Configuration	Box Quantity	PCI-e Card Tier level 5 or below	PCI-e Card Tier level 6	PCI-e Card Tier level 7	PCI-e Card Tier level 8
	Front WM Bay 8 pcs SFF 8 pcs EDSFF	1	Slot 1~12 (*)	AOC: Slot 5, 7 and 9 DAC: Slot 3, 5, 7 and 9	AOC: Slot 5 and 7 DAC: Slot 5, 7 and 9	Not Supported
	16 pcs SFF 16 pcs EDSFF 8 pcs SFF + 8 pcs EDSFF 8 pcs SFF + Media Bay 8 pcs EDSFF + Media Bay	2	Slot 1~12 (*)	AOC: Slot 5, 7 and 9 DAC: Slot 3, 5, 7 and 9	AOC: Slot 5 and 7 DAC: Slot 5, 7 and 9	Not Supported
	24 pcs SFF 24 pcs EDSFF	3	Slot 1~12 (*)	AOC: Slot 5, 7 and 9 DAC: Slot 3, 5, 7 and 9	AOC: Slot 7 DAC: Slot 5, 7 and 9	Not Supported
	16 pcs SFF + Media Bay 16 pcs EDSFF + Media Bay 8 pcs SFF + 8 pcs EDSFF + Media Bay	3	Slot 1~12 (*)	AOC: Slot 5, 7 and 9 DAC: Slot 3, 5, 7 and 9	AOC: Slot 5 and 7 DAC: Slot 5, 7 and 9	Not Supported
	32 pcs SFF 32 pcs EDSFF 24 pcs SFF + Media Bay 24 pcs EDSFF + Media Bay 16 pcs SFF + 16 pcs EDSFF	4	Slot 1~12 (*)	AOC: Slot 5, 7 and 9 DAC: Slot 3, 5, 7 and 9	AOC: Slot 7 DAC: Slot 5, 7 and 9	Not Supported

OCP Cards

Trigger SKU: 35C/ QS Compliant				
SKU	HDD configuration		OCP Card Support	
4P SKU	Support Storage Configuration	Box Quantity	OCP Card Tier level 9 or below	OCP Card Tier level 10 and 11
	Front WM Bay	1	OCP A and OCP B (*)	OCP A and OCP B (*)
	8 pcs SFF			
	8 pcs EDSFF			
	16 pcs SFF	2	OCP A and OCP B (*)	OCP A and OCP B (*)
	16 pcs EDSFF			
	8 pcs SFF + 8 pcs EDSFF			
	8 pcs SFF + Media Bay			
	8 pcs EDSFF + Media Bay			
	24 pcs SFF	3	OCP A and OCP B (*)	OCP A (*)
	24 pcs EDSFF			
	16 pcs SFF + Media Bay			
	16 pcs EDSFF + Media Bay			
	8 pcs SFF + 8 pcs EDSFF + Media Bay			
	32 pcs SFF	4	OCP A and OCP B (*)	OCP A (*)
	32 pcs EDSFF			
	24 pcs SFF + Media Bay			
	24 pcs EDSFF + Media Bay			
	16 pcs SFF + 16 pcs EDSFF			

Relative Humidity (non-condensing)

- **Operating**
  8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.
- **Non-operating**
  5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.

Altitude

- **Operating**
  3050 m (10,000 ft.). This value may be limited by the type and number of options installed. The maximum allowable altitude change rate is 457 m/min (1500 ft./min).
- **Non-operating**
  9144 m (30,000 ft.). Maximum allowable altitude change rate is 457 m/min (1500 ft./min).

Acoustic Noise

Listed are the declared mean A-Weighted sound power levels ($L_{WA,m}$), declared average bystander position A-Weighted sound pressure levels (L_{pAm}) and the statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power
level, $L_{WA,m}$ when the product is operating in a 23 ± 2°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below.

Idle	
$L_{WA,m}$	5.4 B Entry 5.2 B Typical 5.3 B Performance 5.8 B Performance 2
L_{pAm}	39 dBA Entry 38 dBA Typical 39 dBA Performance 44 dBA Performance 2
Kv	0.4 B Entry 0.4 B Typical 0.4 B Performance 0.4 B Performance 2
Operating	
$L_{WA,m}$	5.4 B Entry 5.3 B Typical 6.0 B Performance 6.0 B Performance 2
L_{pAm}	39 dBA Entry 39 dBA Typical 46 dBA Performance 45 dBA Performance 2
Kv	0.4 B Entry 0.4 B Typical 0.4 B Performance 0.4 B Performance 2

Notes:

- All measurements made to conform to ISO 7779 / ECMA-74 and declared to conform to ISO 9296 / ECMA-109. Operating mode is represented by 50% of CPU.
- The results in this declaration apply only to the specific configuration listed below when operating and tested according to the indicated modes and standards. A system with additional configuration components or increased operating functionality may increase the noise emission values.

- Entry Configuration: 4x Intel Xeon 6724P CPU, 4x 64GB DIMM, 8x NVME U.3 SSD, 4x 1500W PSU, 4x Perf System Fan, 1x 10/25G NIC PCIe.
- Typical Configuration: 4x Intel Xeon 6738P CPU, 32x 64GB DIMM, 16x NVME U.3 SSD, 4x 1500W PSU, 4x Perf System Fan, 1x 10/25G NIC PCIe.
- Performance Configuration: 4x Intel Xeon 6768P CPU, 32x 64GB DIMM, 16x NVME E3.S SSD, 4x 2400W PSU, 4x Perf System Fan, 1x 100G NIC PCIe.
- Performance 2 Configuration: 4x Intel Xeon 6788P CPU, 64x 128GB DIMM, 16x NVME E3.S SSD, 4x 2400W PSU, 4x Perf System Fan, 1x 100G NIC PCIe.

– The declared mean A-weighted sound power level, LWA,m, is computed as the arithmetic average of the measured.
– A-weighted sound power levels for a randomly selected sample, rounded to the nearest 0.1 B.
– The declared mean A-weighted emission sound pressure level, LpA,m, is computed as the arithmetic average of the measured A-weighted emission sound pressure levels at the bystander positions for a randomly selected sample, rounded to the nearest 1 dB.
– The statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power level, LWA,m, such that there will be a 95% probability of acceptance, when using the verification procedures of ISO 9296, if no more than 6,5 % of the batch of new equipment, has A-weighted sound power levels greater than (LWA,m + Kv).
– The quantity, LWA,c (formerly called LWAd), can be computed from the sum of LWA,m and Kv.
– B, dB, abbreviations for bels and decibels, respectively, where 1 B = 10 dB.
– Systems under abnormal conditions may increase the noise level, people in the vicinity of the product [cabinet] for extended periods of time should consider wearing hearing protection or using other means to reduce noise exposure.

Emissions Classification (EMC) – Regulatory Information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center: https://www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Environmentally friendly Products and Approach End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The European Union Waste Electrical and Electronic Equipment Directive [EU WEEE] (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
02-Nov-2026	Version 13	Changed	Additional Options section was updated.
		Removed	Obsolete SKUs: Read Intensive – NVMe – EDSFF – Solid State Drives Read Intensive – NVMe – SFF – Solid State Drives Mixed Use – NVMe – SFF – Solid State Drives
05-Oct-2026	Version 12	Changed	Service and Support section was updated.
03-Aug-2026	Version 11	Changed	Core Options section was updated.
		Removed	Obsolete SKUs: Read Intensive – 6G SATA – SFF – Solid State Drives Read Intensive – NVMe – SFF – Solid State Drives
06-Jul-2026	Version 10	Changed	Core Options section was updated.
		Added	Mixed Use - NVMe – EDSFF E3.S 1T Read Intensive – NVMe - EDSFF E3.S 1T
		Removed	Mixed Use – 24G SAS – SFF – Solid State Drives obsolete SKU.
04-May-2026	Version 9	Changed	Core Options, Additional Options section was updated
		Added	HPE MR932i-p x32 Lanes PCIe Gen5 SPDM Plug-in Storage Controller and Cable Kits SKUs.
		Removed	Read Intensive – 24G SAS – SFF – Solid State Drives obsolete SKU.
06-Apr-2026	Version 8	Changed	Overview and Core Options sections were updated.
		Added	Direct Liquid Cooling (DLC) Module and Storage Controller SKUs. SAP HANA specs.
02-Mar-2026	Version 7	Changed	Service and Support and Core Options sections were updated.
		Added	HPE Power Options. Updated GreenLake statement.
		Removed	HPE InfiniBand obsolete SKUs.
02-Feb-2026	Version 6	Changed	Core Options and Additional Options sections were updated
		Added	HPE InfiniBand SKU.
		Removed	Read Intensive – NVMe – EDSFF – Solid State Drives obsolete SKU.
05-Jan-2026	Version 5	Changed	Core Options section was updated.
		Removed	HPE InfiniBand obsolete SKU.
08-Dec-2025	Version 4	Changed	Additional Options section was updated.
		Added	Storage Battery, Read Intensive – 24G SAS – SFF – Solid State Drives, and Mixed Use – 24G SAS – SFF – Solid State Drives SKUs.
		Removed	Read Intensive – NVMe – SFF – Solid State Drives obsolete SKU.
03-Nov-2025	Version 3	Changed	Overview, Standard Features, Configuration Information and Technical Specifications sections were updated. The document was modified to comply with HPE Rebranding strategy.

Summary of Changes

Date	Version History	Action	Description of Change
7-Jul-2025	Version 2	Changed	Core Options section was updated. Added: Intel® Xeon 6® Processors with Performance-Cores (P-Cores) SKUs.
2-Jun-2025	Version 1	New	New QuickSpecs

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