Overview

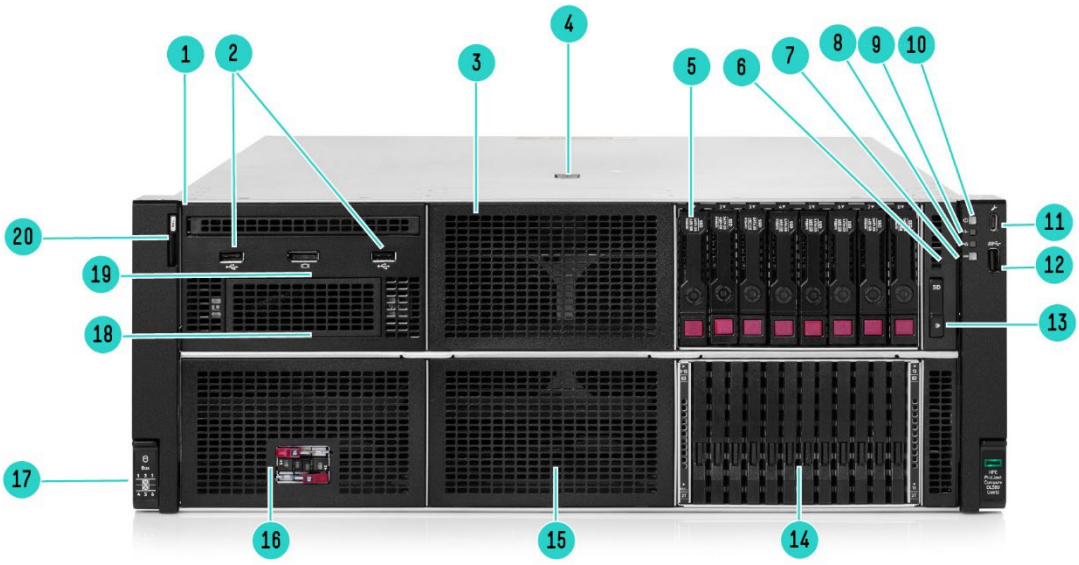
Shape the Future of QuickSpecs – Your Input Matters

HPE ProLiant Compute DL580 Gen12

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 Scalable processors, it delivers exceptional compute capacity with up to 86 cores per processor. Designed for scalability and reliability, the DL580 Gen12 supports up to 16TB of DDR5 memory and features high-throughput PCIe Gen5 I/O, making it ideal for database, analytics, virtualization, and in-memory workloads such as SAP HANA.

Built with a focus on reliability, security, and ease of management, the HPE ProLiant Compute DL580 Gen12 comes equipped with advanced features such as 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.

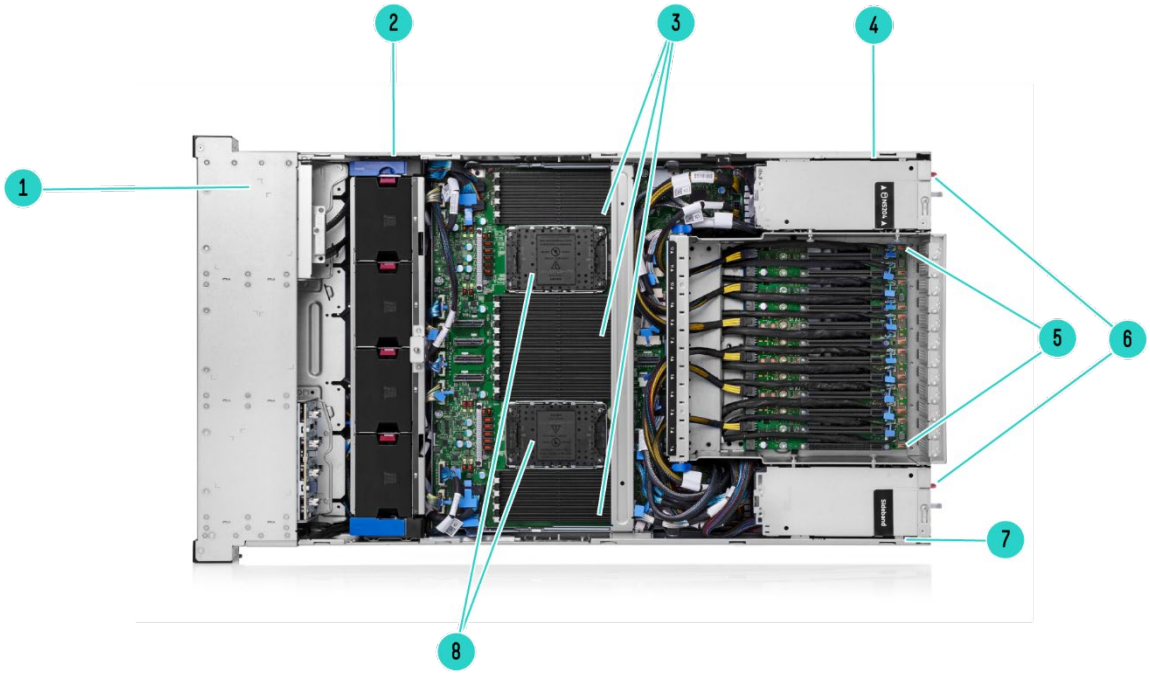
With its combination of massive memory bandwidth, compute density, and I/O flexibility, the DL580 Gen12 delivers a powerful foundation for modern enterprise IT. Its robust architecture supports a wide range of workloads, from core business applications to AI and high-performance computing. Whether deployed 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

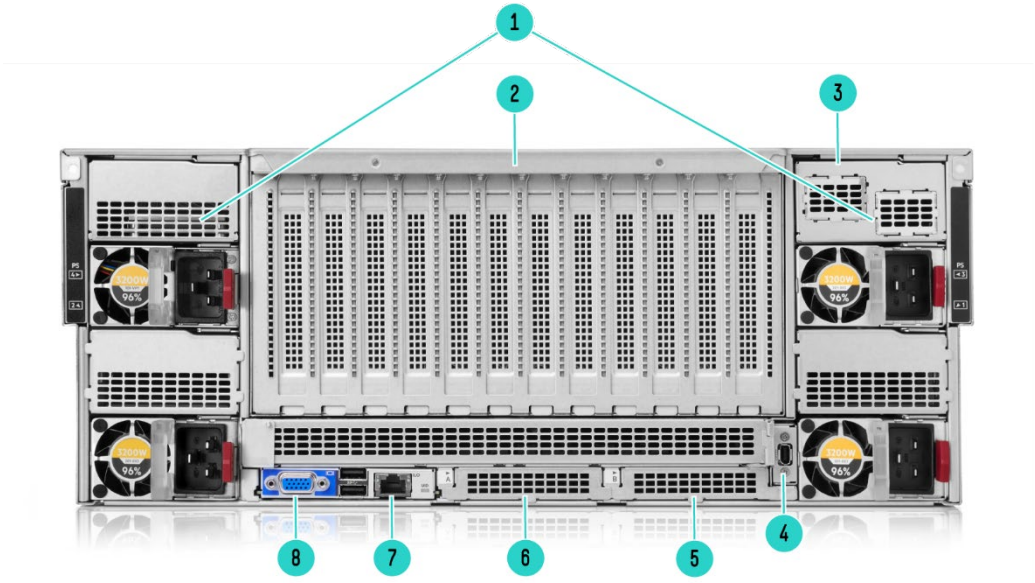
1. Box 1 (shown empty; Optional Universal Media Bay)
2. 2x USB-A 2.0 port
3. Box-2 (shown empty)
4. Quick removal access panel
5. Box-3 (8SFF shown)
6. Quick removal access panel
7. Unit ID button/LED
8. NIC status
9. Health LED
10. Power on /Standby button / LED
11. USB-C iLO service port
12. USB 3.2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

Overview



Internal View

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



Rear View

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

Overview

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 16TB DDR5 6400 MT/s memory at 1DPC.

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

Platform Information

Form Factor

- 4U rack

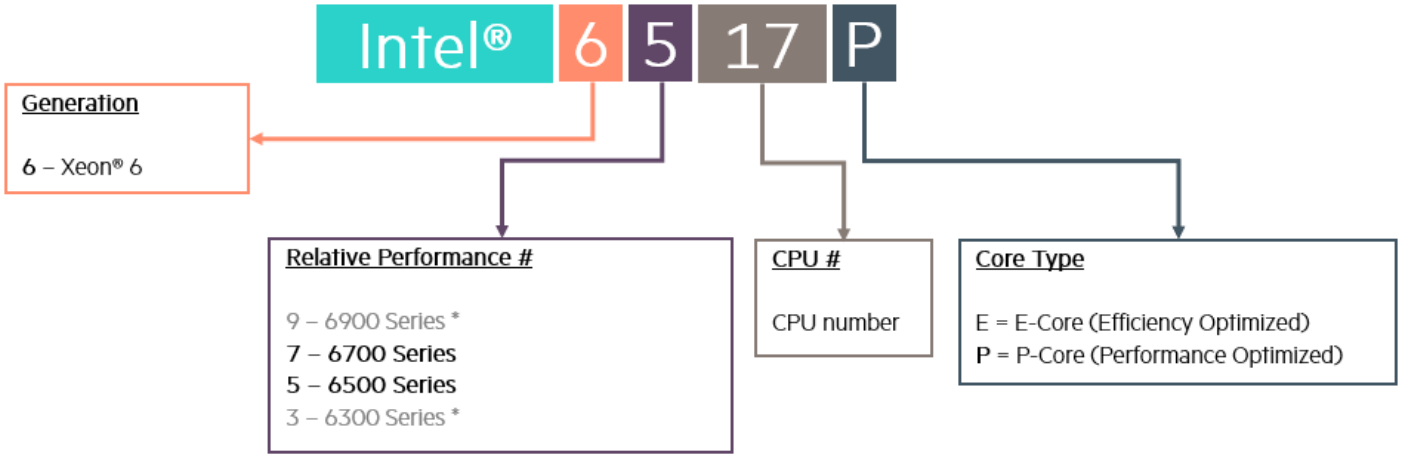
Chassis Features

- 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

Standard Features

Processors



Intel® Xeon® 6 processor naming convention

* CPU Series not support 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 Performacne-Core (P-Core) processors. The below processors are (publically) 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 DDR5 support maximum memory speed of 6400 MT/s @ 1 DIMMs per channel (DPC) and 5200 MT/S @ 2DPC.
- **Intel® HCC & XCC die processors have delayed availability. Contact your HPE Compute Sales Specialist for availability details.

ILO

HPE iLO 7 memory
Read and learn more in the **iLO QuickSpecs**.

Standard Features

Memory

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	16.0 TB 64 x 256 GB RDIMM 6400 MT/s @ 1DPC and 5200MT/s @ 2DPC	8.0 TB 32 x 256 GB RDIMM 6400 MT/s @ 1DPC and 5200MT/s @ 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.**
- 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 multibit errors that occur within a single DRAM chip.

Adaptive Double DRAM Device Correction (ADDDC)

Advanced Double DRAM Device Correction enables the server to dynamically map out a failing DRAM device. Enabling it can have some impact to system performance under certain workloads. This is set to 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 selection in this document.

Standard Features

PCIe Expansion Slots

The ProLiant DL580 Gen12 is capable of supporting up to six PCIe 5.0 risers, dependent 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
- 2 processor configurations will default Risers 2 and 3 with their required cable kits
- 4 processor configurations will default 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 on x8 slots could observe sub-optimal 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	P71004-B21
1	2	X8	X16	Full-height, ¾ length slot	P71004-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	P71004-B21
6	12	X8	X16	Full-height, ¾ length slot	P71004-B21

Standard Features

OCP Expansion Slots

Expansion Slots #	Technology	Bus Width	Connector Width
1 Rear OCP A (OCP 3.0) embedded	PCIe 5.0	x 8[1]	x16
1 Rear OCP B (OCP 3.0) optional cabled	PCIe 5.0	x 8[1]	x 16

Internal Storage Devices

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

Drive Cage Configurations: The HPE ProLiant 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 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 TM	MR416i-p / MR216i-p / MR408i-p	1	P80387-B21	PCIe 7
8SFF x1	3	OROC TM	MR416i-o / MR216i-o / MR408i-o	1	P80391-B21	OCP B
8SFF x4	3	OROC TM	MR416i-o / MR216i-o	2	P80408-B21	OCP A + OCP B
16SFF x1	3 + 4	PCIe TM	MR416i-p / MR216i-p	1	P80388-B21	PCIe 7
16SFF x1	3 + 4	OROC TM	MR416i-o / MR216i-o	1	P80393-B21	OCP B
16SFF x4	3 + 4	OROC TM	MR416i-o / MR216i-o	2	P80409-B21	OCP A + OCP B
24SFF x1	3 + 4 + 6	PCIe TM	MR416i-p / MR216i-p	2	P80389-B21	PCIe 7 + 8
24SFF x1	3 + 4 + 6	OROC TM	MR416i-o / MR216i-o	2	P80394-B21	OCP A + OCP B
32SFF x1	1 + 3 + 4 + 6	PCIe TM	MR416i-p / MR216i-p	2	P80390-B21	PCIe 7 + 8
32SFF x1	1 + 3 + 4 + 6	OROC TM	MR416i-o / MR216i-o	2	P80395-B21	OCP A + OCP B

Standard Features

4 Processor Exclusive Configurations:

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 TM (x2 BW)	MR416i-p / MR216i-p	1	P80417-B21	PCIe 2
8SFF x4	3	PCIe TM	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 TM (x2 BW)	MR416i-p / MR216i-p	2	P80418-B21	PCIe 2 + 8
16SFF x4	3 + 4	PCIe TM	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 TM (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 TM (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

Notes:

- In configurations including 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 Box4 will be moved to Box1. This is because the NS204i-u boot device would be installed in Box4 position in this case.
- In configurations including both Universal Media Bay kit and NS204i-u with Front Enablement kit, the maximum drive cage support is limited to 8SFF/8EDSFF. Only the Box3 could be used for connection in this case.

Graphics

Integrated Video Standard

- VGA Port in the rear
- Display port with optional optical disk drive
- Video modes up to 1920 x 1200@60Hz (32 bpp)
- 16MB Video Memory

Standard Features

Interfaces

Serial Port	1 Optional rear.
Display Port	1 optional front display port via optional Universal Media Bay.
VGA Port	1 standard, rear. **Notes:** Both VGA and display ports are not 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 Gb 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 secured 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 enable 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

Standard Features

UEFI Boot Mode only

- TPM 2.0 Support
  Notes: Enabling TPM 2.0 no longer requires TPM module 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
- Display Port
  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 **DL380 Gen12 Extended Ambient Temperature Guidelines.**

Standard Features

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 HPE GreenLake cloud (access via **https://common.cloud.hpe.com**) and leverages the HPE 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 iLO7 Transfer of Ownership Process.
Learn more at **OpenBMC Support**

Intelligent Provisioning

Hassle free server and OS provisioning for 1 or more servers with Intelligent Provisioning.
Learn more at **https://support.hpe.com/hpesc/public/docDisplay?docId=c04465280&docLocale=en_US**

iLO RESTful API

iLO RESTful API is DMTF Redfish API implementation and 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

Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: **http://www.hpe.com/info/ilo/mobileapp**.

Standard Features

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 premise, 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**.

HPE Systems Insight Manager (HPE SIM)

Ideal for environments already using HPE SIM, it allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers. Also provides you with basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at **http://www.hpe.com/info/hpesim**

Security

Experience unparalleled security benefits with HPE ProLiant Compute Gen12 servers, designed to enhance your infrastructure's security and performance. These servers come equipped with cutting-edge embedded security features, ensuring robust protection for your critical data and applications. Key features include:

- **HPE Integrated Lights-Out (HPE iLO7):** 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 from the edge to the cloud.
- **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**

Standard Features

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 resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from 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 accomplished 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.

Optional Features

Server Management

HPE iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full 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 OpenView Standard, provides full-featured licenses which can be purchased for managing multiple HPE server generations.
To learn more visit **https://www.hpe.com/info/oneview**.

HPE Insight Cluster Management Utility (CMU)

HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at **https://www.hpe.com/info/cmu**.

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://h22174.www2.hpe.com/SimplifiedConfig/Welcome#**

Rack and Power Infrastructure

The story may end with servers, but it starts with the foundation that makes compute go – and business grow. We've reinvented our entire portfolio of rack and power products to make IT infrastructure more secure, more practical, and more efficient. In other words, we've 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 with your server and IT equipment reliably. We've got 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 up and running.

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

Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.
https://www.hpe.com/services

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.
https://www.hpe.com/services/consulting

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.
HPE Managed Services | HPE

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.
https://www.hpe.com/services/operational

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

https://www.hpe.com/services/completecare

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.
https://www.hpe.com/services/techcare

Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:
https://www.hpe.com/services/lifecycle

For a list of the most frequently purchased services using service credits, see the **HPE Service Credits Menu**

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.
https://www.hpe.com/services/training

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at **https://ssc.hpe.com/portal/site/ssc/**

Service and Support

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.
https://support.hpe.com/hpesc/public/home/signin

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"
https://www.hpe.com/us/en/contact-hpe.html

For more information
http://www.hpe.com/services

Configuration Information

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 fulfilment service levels than non-Mainstream SKUs. Mainstream orders are fulfilled +30% faster than non-Mainstream orders, 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 local sales representative 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 local sales representative 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 Compute ProLiant 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	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 Heatsinks
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 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) Display port (optional) Two (2) USB 2.0 (optional via Universal Media Bay) Rear: Two (2) USB 3.2 Gen1, 1 iLO Management Ethernet Port, VGA port, 1 optional Serial Port Internal: 1 (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), iLO Advanced and 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 Agreement 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).

Configuration Information

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 UMB
2 SFF NVMe/SAS/SATA (Front)	1 Optional with UMB

Step 2: Choose Core Options

- Up to four Processors
- Heatsinks.
- Memory.
- Drive cages / Enablement Kits.
- Riser cards
- Storage controllers, and associated cables
- OS Boot Device, Intel VROC
- Networking option (PCIe Standup 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 & Standard FIO Software for HPE
- Choice of Embedded Management
- Choice of Racks
- Choice of PDUs
- Choice of UPS

Core Options

Processors

Please select up to four processors required below.

Notes: Mixing of 2 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.
- Correct quantity of Heat Sink kits will be configured automatically based on selected processor quantity

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 Memory Kit	P69728-B21
HPE 96GB (1x96GB) Dual Rank x4 DDR5-6400 CAS-52-52-52 EC8 Registered Smart Memory Kit	P69729-B21
HPE 128GB (1x128GB) Dual Rank x4 DDR5-6400 CAS-52-52-52 EC8 Registered Smart Memory Kit	P69730-B21
HPE 256GB (1x256GB) Quad Rank x4 DDR5-6400 CAS-60-52-52 EC8 Registered 3DS Smart Memory Kit	P73447-B21

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.

Core Options

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

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

Storage Battery

HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21
HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit	P02377-B21

Core Options

Storage Upgrade

HPE ProLiant Compute DL580 Gen12 MR416 Controller Data Retention Power Cable Kit	P80426-B21

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 shorter 145mm cable (instead of 260mm) 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

Core Options

HPE InfiniBand

Notes: HPE InfiniBand NICs will be available post-launch

HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter	P45641-B23
HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter	P45642-B22
HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter	P65333-B21
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

Cable Kits

HPE ProLiant Compute DL580 Gen12 2P 8SFF x4 Direct Attach Cable Kit	P80384-B21
HPE ProLiant Compute DL580 Gen12 2P 16SFF x4 Direct Attach Cable Kit	P80385-B21
HPE ProLiant Compute DL580 Gen12 2P 16EDSFF x4 Direct Attach Cable Kit	P80386-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 8SFF x1 Tri-Mode Cable Kit	P80387-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 16SFF x1 Tri-Mode Cable Kit	P80388-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 24SFF x1 Tri-Mode Cable Kit	P80389-B21
HPE ProLiant Compute DL580 Gen12 MR 2P/4P 32SFF x1 Tri-Mode Cable Kit	P80390-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 8SFF x1 OCP Cable Kit	P80391-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 16SFF x1 OCP Cable Kit	P80393-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 24SFF x1 OCP Cable Kit	P80394-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 32SFF x1 OCP Cable Kit	P80395-B21
HPE ProLiant Compute DL580 Gen12 4P 8SFF x4 Direct Attach Cable Kit	P80396-B21
HPE ProLiant Compute DL580 Gen12 4P 16SFF x4 Direct Attach Cable Kit	P80397-B21
HPE ProLiant Compute DL580 Gen12 4P 24SFF x4 Direct Attach Cable Kit	P80398-B21
HPE ProLiant Compute DL580 Gen12 4P 32SFF x4 Direct Attach Cable Kit	P80399-B21
HPE ProLiant Compute DL580 Gen12 4P 8EDSFF x4 Direct Attach Cable Kit	P80400-B21
HPE ProLiant Compute DL580 Gen12 4P 16EDSFF x4 Direct Attach Cable Kit	P80401-B21
HPE ProLiant Compute DL580 Gen12 4P 24EDSFF x4 Direct Attach Cable Kit	P80402-B21
HPE ProLiant Compute DL580 Gen12 4P 32EDSFF x4 Direct Attach Cable Kit	P80403-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 8SFF x4 OCP Cable Kit	P80408-B21
HPE ProLiant Compute DL580 Gen12 2P/4P 16SFF x2 OCP Cable Kit	P80409-B21
HPE ProLiant Compute DL580 Gen12 2P 8SFF/8EDSFF Hybrid x4 Direct Attach Cable Kit	P80413-B21
HPE ProLiant Compute DL580 Gen12 4P 8SFF/8EDSFF Hybrid x4 Direct Attach Cable Kit	P80414-B21
HPE ProLiant Compute DL580 Gen12 4P 16SFF/16EDSFF Hybrid x4 Direct Attach Cable Kit	P80415-B21
HPE ProLiant Compute DL580 Gen12 4P 8SFF x2 Tri-Mode Cable Kit	P80417-B21
HPE ProLiant Compute DL580 Gen12 4P 16SFF x2 Tri-Mode Cable Kit	P80418-B21
HPE ProLiant Compute DL580 Gen12 MR416 4P 24SFF x2 Tri-Mode Cable Kit	P80419-B21
HPE ProLiant Compute DL580 Gen12 MR416 4P 32SFF x2 Tri-Mode Cable Kit	P80421-B21
HPE ProLiant Compute DL580 Gen12 2SFF Direct Attach Cable Kit	P80751-B21
HPE ProLiant Compute DL580 Gen12 2P 8SFF x4 Tri-Mode Cable Kit	P81000-B21
HPE ProLiant Compute DL580 Gen12 4P 8SFF x4 Tri-Mode Cable Kit	P81001-B21
HPE ProLiant Compute DL580 Gen12 2P 16SFF x4 Tri-Mode Cable Kit	P81002-B21
HPE ProLiant Compute DL580 Gen12 4P 16SFF x4 Tri-Mode Cable Kit	P81003-B21

Core Options

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.

Additional Options

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 SAS – 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

Additional Options

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 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD	P57807-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF SPDM PM1743 SSD	P57803-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 EDSFF SPDM PM1743 SSD	P57799-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

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

Read Intensive – 24G SAS – SFF – Solid State Drives

HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-B21
HPE 3.84TB SAS Read Intensive SFF BC Self-encrypting FIPS 140-2 PM7 SSD	P63875-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

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 1.6TB SAS Mixed Use SFF BC Self-encrypting FIPS 140-2 PM7 SSD	P63871-B21
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

Additional Options

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
HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-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 15.36TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static SPDM Multi Vendor SSD	P69255-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD	P63841-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50224-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70434-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD	P63837-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64848-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50222-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD	P63833-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64846-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50219-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD	P63829-B21
HPE 1.92TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64844-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 High Performance Mixed Use SFF BC U.3 CM7 SSD	P63853-B21
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65023-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50233-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 CM7 SSD	P63849-B21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65015-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50230-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM7 SSD	P63845-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
HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P64999-B21

Additional Options

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

Additional Options

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.

Additional Options

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 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**

Technical Specifications

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.

- **Non-operating**
  30° to 60°C (-22° to 140°F). The maximum rate of change is 20°C/hr. (36°F/hr.).

Technical Specifications

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	35C	35C	35C	35C	35C	35C	35C
2	8 pcs SFF								
3	8 pcs EDSFF								
4	16 pcs SFF	2	35C	35C	35C	35C	35C	35C	35C
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	35C	35C	35C	35C	35C	35C	35C
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	35C	35C	35C	35C	35C	35C	35C
15	32 pcs EDSFF								
16	24 pcs SFF + Media Bay								
17	24 pcs EDSFF + Media Bay								
18	16 pcs SFF + 16 pcs EDSFF								

Technical Specifications

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	35C	35C	35C	35C
2	8 pcs SFF					
3	8 pcs EDSFF					
4	16 pcs SFF	2	35C	35C	35C	35C
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	35C	35C	35C	35C
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	35C	35C	35C	35C
15	32 pcs EDSFF					
16	24 pcs SFF + Media Bay					
17	24 pcs EDSFF + Media Bay					
18	16 pcs SFF + 16 pcs EDSFF					

Technical Specifications

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					

Technical Specifications

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			

Technical Specifications

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	35C	35C	35C	35C	35C	35C	35C
2	8 pcs SFF								
3	8 pcs EDSFF								
4	16 pcs SFF	2	35C	35C	35C	35C	35C	35C	35C
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	35C	35C	35C	35C	35C	35C	35C
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	35C	35C	35C	35C	35C	35C	35C
15	32 pcs EDSFF								
16	24 pcs SFF + Media Bay								
17	24 pcs EDSFF + Media Bay								
18	16 pcs SFF + 16 pcs EDSFF								

Technical Specifications

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	35C	35C	35C	35C
2	8 pcs SFF					
3	8 pcs EDSFF					
4	16 pcs SFF	2	35C	35C	35C	35C
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	35C	35C	35C	35C
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	35C	35C	35C	35C
15	32 pcs EDSFF					
16	24 pcs SFF + Media Bay					
17	24 pcs EDSFF + Media Bay					
18	16 pcs SFF + 16 pcs EDSFF					

Technical Specifications

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

Technical Specifications

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).

Technical Specifications

Acoustic Noise

Listed are the declared mean A-Weighted sound power levels (LWA,m), declared average bystander position A-Weighted sound pressure levels (LpAm) and the statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power
level, LWA,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	
LWA,m	5.4 B Entry 5.2 B Typical 5.3 B Performance 5.8 B Performance 2
LpAm	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	
LWA,m	5.4 B Entry 5.3 B Typical 6.0 B Performance 6.0 B Performance 2
LpAm	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.

Technical Specifications

- 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.
- System under abnormal conditions may increase the noise level, persons 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

Environment-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 EU WEEE directive (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
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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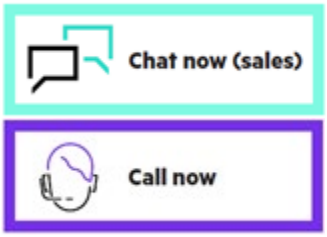

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