

Overview

Shape the Future of QuickSpecs – Your Input Matters

HPE Apollo 4200 Gen10 Plus System

Do you need the most capacity with uncompromising performance, security, and intelligence in a datacenter-friendly 2U rackmount server footprint?

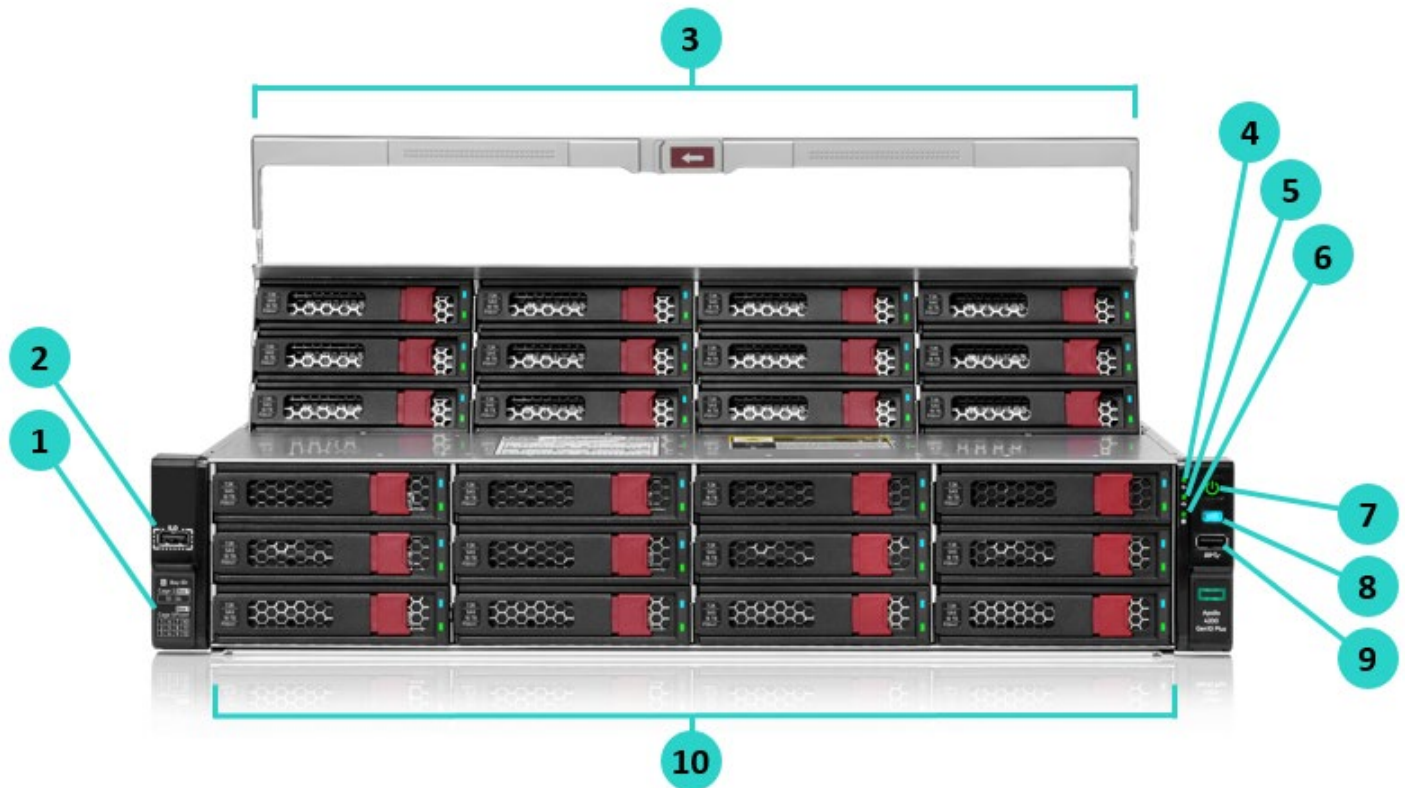
The HPE Apollo 4200 Gen10 Plus System, like the other members of the HPE Apollo 4000 Systems family, is specifically designed to unlock the business value of data stemming from digital transformation (DX) and data infrastructure modernization, at any scale, and with ideal economics. It is designed for both ends of the data-centric workload spectrum – from deeper data lakes and archives to performance-demanding machine learning (ML), data analytics, hyperconverged infrastructure, and cache-intensive workloads.

The HPE Apollo 4200 Gen10 Plus System provides the data infrastructure foundation for any successful data-driven organization.



HPE Apollo 4200 Gen10 Plus System

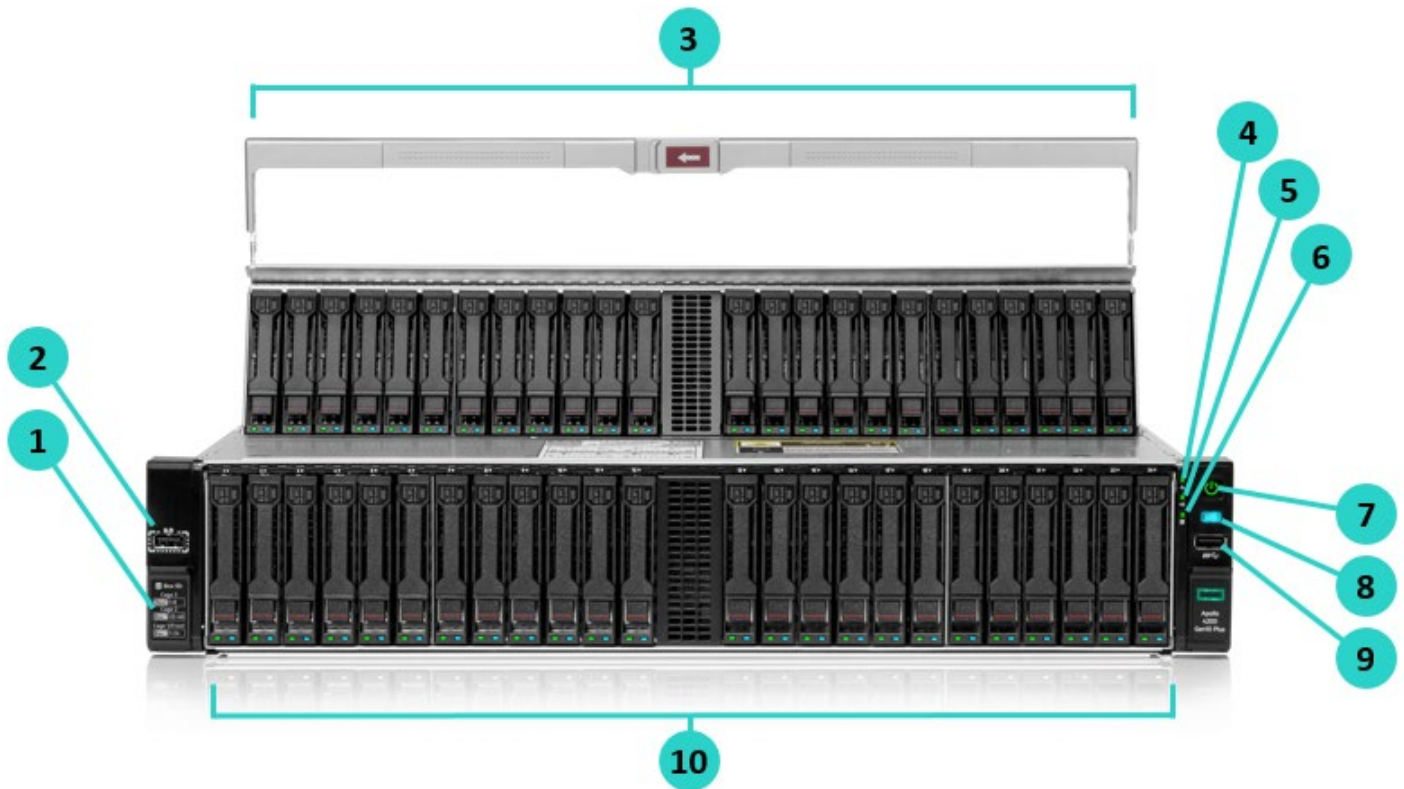
Overview



HPE Apollo 4200 Gen10 Plus 24LFF TAA-compliant Configure-to-order System Front View

- | | | | |
|----|---|-----|---|
| 1. | Drive support label | 6. | Front drive health/thermal LED |
| 2. | iLO Service Port | 7. | Power On/Standby button and system power LED |
| 3. | Drive Cage 2 LFF SAS/SATA/SSD hot-plug drive bays | 8. | UID LED/button |
| 4. | Health LED | 9. | USB 3.0 port |
| 5. | NIC status LED | 10. | Drive Cage 1 LFF SAS/SATA/SSD hot-plug drive bays |

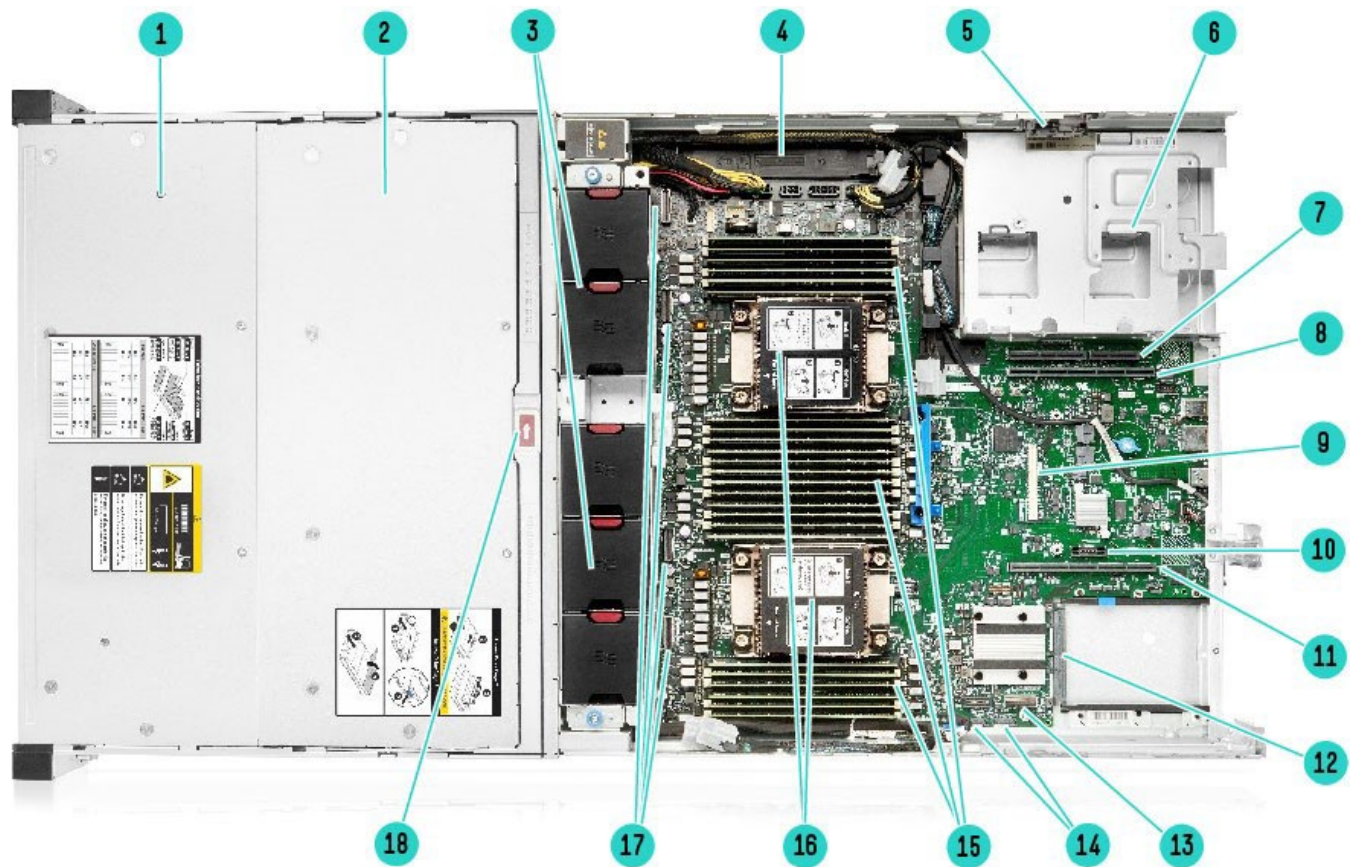
Overview



HPE Apollo 4200 Gen10 Plus 48SFF TAA-compliant Configure-to-order System Front View

- | | |
|--|---|
| 1. Drive support label | 6. Front drive health/thermal LED |
| 2. iLO Service Port | 7. Power On/Standby button and system power LED |
| 3. Drive Cage 2 SFF SAS/SATA/SSD hot-plug drive bays | 8. UID LED/button |
| 4. Health LED | 9. USB 3.0 port |
| 5. NIC status LED | 10. Drive Cage 1 SFF SAS/SATA/SSD hot-plug drive bays |

Overview

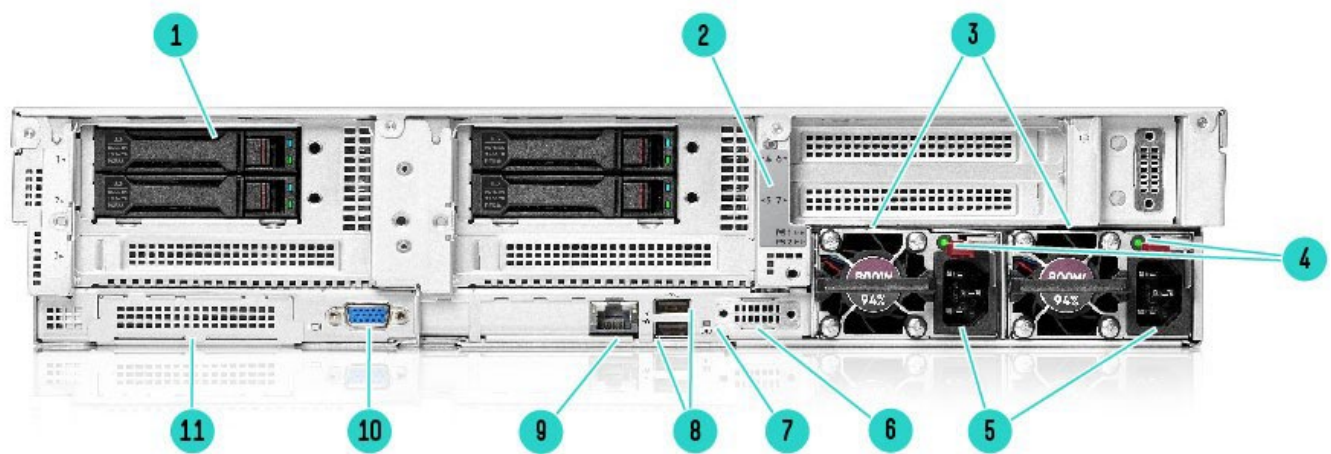


HPE Apollo 4200 Gen10 Plus System - Internal View

- | | |
|---|--|
| 1. Drive Cage 1 | 10. TPM 2.0 connector) |
| 2. Drive Cage 2 | 11. Primary PCIe Gen4 riser connector (CPU 1) |
| 3. System Hot-plug fans | 12. OCP NIC 3.0 connector |
| 4. System Battery slot (no battery installed shown) | 13. OCP NIC 3.0 x16 upgrade connector |
| 5. Chassis Intrusion Detection connector | 14. SATA ports |
| 6. Up to 2 power supplies for redundant power (no power supply installed shown) | 15. DDR4 DIMM slots (Fully populated 24 DIMMs shown) |
| 7. Tertiary PCIe Gen4 riser connector (CPU 2) | 16. Up to 2 processors (2 processors installed with performance heat sink shown) |
| 8. Secondary PCIe Gen4 riser connector (CPU 2) | 17. NVMe drive ports |
| 9. Flexible Smart Array Controller connector | 18. Drive Cage 2 handle |



Overview



HPE Apollo 4200 Gen10 Plus System - Rear View

- | | |
|---|------------------------|
| 1. Primary Riser. PCI Slots (Slots 1-3 top to bottom, not shown) ¹ | 7. UID LED |
| 2. Secondary and Tertiary Risers kit. PCI Slots (Slots 4-7, not shown) ² | 8. USB 3.0 ports |
| 3. Flex Slot power supply 1 and 2 | 9. iLO Management Port |
| 4. Power supply LED 1 and 2 | 10. Video port |
| 5. Power supply connector 1 and 2 | 11. OCP NIC 3.0 slot |
| 6. Serial Port slot (optional) | |

Notes:

- ¹Optional 2SFF rear drive cage 4 and slot 3 shown
- ²Optional 2SFF rear drive cage 5 and slot 6-7 shown



Overview

What's New

- HPE 20TB SAS/SATA 12G Business Critical 7.2K LFF LP Helium 512e ISE Multi Vendor HDD SKUs make total 640 TB in 2U with HPE Apollo 4200 Gen10 Plus 32 LFF offering.
- HPE Apollo 4200 Gen10 Plus 32 LFF drive bays offering: single Smart Array controller to host all 32 LFF drives.
- Ideal for deeper data lakes and larger archive or backup repositories through higher data storage capacity and density in a serviceable 2U rackmount chassis.
- Designed for throughput-intensive, cache-intensive, and tiering-intensive workloads with a superior balanced system architecture with more and faster I/O.
- Satisfy data-heavy hyperconverged infrastructure (HCI) environments with higher performance, 3rd generation Intel® Xeon® Scalable processors and more memory.
- Unlock data insights faster using machine learning and data analytics through planned upgrade support for select GPU and FPGA accelerators.

Platform Information

Form Factor

- 2U rack

Chassis Types

- 24 LFF SAS 12Gb/SATA 6Gb
- 48 SFF SAS 12Gb/SATA 6Gb

Notes:

- Optional Drive Cages:
 - o 4 LFF SAS 12Gb/SATA 6Gb Drive Cage 3 (only for 24LFF chassis),
 - o 8 SFF SAS 24Gb/SATA 6Gb/NVMe U.3 x4 Tri-mode Drive Cage 3,
 - o 2 SFF SAS 24Gb/SATA 6Gb/NVMe U.3 x4 Tri-mode Drive Cage 4,
 - o 2 SFF SAS 24Gb/SATA 6Gb/NVMe U.3 x4 Tri-mode Drive Cage 5

System Fans

- 5 system dual-fan modules shipped as standard
-



Standard Features

Processors

Up to 2 of the following depending on model.

Notes:

- The 2nd digit of the processor model number “x3xx” is used to denote the processor generation (i.e. 3=13rd generation)
- For more information regarding Intel Xeon processors, please see the following <http://www.intel.com/xeon>.
- This table covers the public Intel offering only.

Platinum Processors							
Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per socket
Platinum 8352Y Processor	2.2 GHz	32	48.00 MB	205 W	3 @ 11.2 GT/s	3200 MT/s	6TB
Platinum 8352M Processor	2.3 GHz	32	48.00 MB	185 W	3 @ 11.2 GT/s	3200 MT/s	6TB
	2.4 GHz	28					
	2.6 GHz	24					

Notes:

- 2 socket capable, 2S - 3UPI @ 11.2 GT/s.
- 3rd Generation: 8-Channel DDR4 @ 3200 MT/s.
- 64 lanes PCIe 4.0, standard RAS.
- Y Supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP).
- Intel® Optane™ Persistent Memory Supported
- Platinum 8352M Processor: Supports Intel® Speed Select Performance Profile (SST-P), even though not being a “Y” processor. Does not support Intel Speed Select Technology – Base Frequency (SST-BF). Default Speed Select Performance Profile value is 2.3GHz, 32 Cores.

Gold Processors							
Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per socket
Gold 6354 Processor	3.0 GHz	18	39.00 MB	205 W	3 @ 11.2 GT/s	3200 MT/s	6TB
Gold 6346 Processor	3.1 GHz	16	36.00 MB	205 W	3 @ 11.2 GT/s	3200 MT/s	6TB
Gold 6338 Processor	2.0 GHz	32	48.00 MB	205 W	3 @ 11.2 GT/s	3200 MT/s	6TB
Gold 6336Y Processor	2.4 GHz	24	36.00 MB	185 W	3 @ 11.2 GT/s	3200 MT/s	6TB
Gold 6334 Processor	3.6 GHz	8	18.00 MB	165 W	3 @ 11.2 GT/s	3200 MT/s	6TB
Gold 6330 Processor	2.0 GHz	28	42.00 MB	205 W	3 @ 11.2 GT/s	3200 MT/s	6TB
Gold 6326 Processor	2.9 GHz	16	24.00 MB	185 W	3 @ 11.2 GT/s	3200 MT/s	6TB
Gold 6314U Processor	2.3 GHz	32	48.00 MB	205 W	N/A	3200 MT/s	6TB
Gold 6312U Processor	2.4 GHz	24	36.00 MB	185 W	N/A	3200 MT/s	6TB
Gold 5320 Processor	2.2 GHz	26	39.00 MB	185 W	3 @ 11.2 GT/s	2933 MT/s	6TB
Gold 5318Y Processor	2.1 GHz	24	36.00 MB	165 W	3 @ 11.2 GT/s	2933 MT/s	6TB
Gold 5317 Processor	3.0 GHz	12	18.00 MB	150 W	3 @ 11.2 GT/s	2933 MT/s	6TB
Gold 5315Y Processor	3.2 GHz	8	12.00 MB	140 W	3 @ 11.2 GT/s	2933 MT/s	6TB

Notes:

- 2 socket capable, 2S - 3UPI @ 11.2 GT/s, except U SKUs
- 3rd Generation: 8-Channel DDR4 @ 3200 MT/s.
- 64 lanes PCIe 4.0, standard RAS.
- Y Supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP).
- U Supported in one-socket configurations only.
- Intel® Optane™ Persistent Memory Supported



Standard Features

Silver Processors

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per socket
Silver 4316 Processor	2.3 GHz	20	30.00 MB	150 W	2 @ 10.4 GT/s	2666 MT/s	6TB
Silver 4314 Processor	2.4 GHz	16	24.00 MB	135 W	2 @ 10.4 GT/s	2666 MT/s	6TB
Silver 4310 Processor	2.1 GHz	12	18.00 MB	120 W	2 @ 10.4 GT/s	2666 MT/s	6TB
Silver 4309Y Processor	2.8 GHz	8	12.00 MB	105 W	2 @ 10.4 GT/s	2666 MT/s	6TB

Notes:

- 2 socket capable, 2S - 2UPI @ 10.4 GT/s.
- 3rd Generation: 8-Channel DDR4 @ 2666 MT/s.
- 64 lanes PCIe 4.0, standard RAS.
- Y Supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP).
- Silver SKUs do not support Intel Optane persistent memory DIMMs, except 4314 SKU

Chipset

Intel C621A Chipset

Notes: For more information regarding Intel® chipsets, please see the following URL:

<http://www.intel.com/products/server/chipsets/>.

On System Management Chipset

HPE iLO 5 ASIC

Notes: Read and learn more in the [iLO QuickSpecs](#).

System Board

HPE ProLiant XL420 Gen10 Plus Server

Notes:

- As a reminder that the Apollo 4200 Gen10 Plus Server offers familiar management tools, the motherboard carries a ProLiant name.
- In boot-up, the “HPE ProLiant XL420 Gen10 Plus Server” name will appear.
- The official product name remains HPE Apollo 4200 Gen10 Plus System, while the motherboard name is “HPE ProLiant XL420 Gen10 Plus Server”

Memory

One of the following depending on model.

Type	HPE DDR4 Smart Memory Registered (RDIMM), Load Reduced (LRDIMM)
DIMM Slots Available	24 12 DIMM slots per processor, 8 channels per processor, 2-2-1-1 deployment
Maximum capacity (LRDIMM)	3.072 TB 24 x 128 GB LRDIMM @ 3200 MT/s
Maximum capacity (RDIMM)	1.536 TB 24 x 64 GB RDIMM @ 3200 MT/s
Maximum capacity (HPE Persistent Memory)	4.0 TB 8 x 512 GB Memory Modules

Notes: The maximum memory speed is limited by the processor selection.



Standard Features

Expansion Slots

Primary Riser

Notes:

- Bus width indicates the number of physical electrical lanes running to the connector.
- There are 2 types of risers supported on Primary Slot, and one is required.
- PCIe Primary Riser Kit Slot 3 is reserved for non-PCIe function options

PCIe Primary Riser Kit					
Slot#	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 4.0	X16	X16	Full-height,half-length slot	Proc1
2	PCIe 4.0	X8	X8	Full-height,half-length slot	Proc1
3	Power only	Power only	X8	Full-height,half-length slot	

2SFF x4 Tri-Mode U.3 BC Primary Drive Cage 4 Kit					
Slot#	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
2 SFF x4 Tri-Mode U.3 BC Primary Drive Slots (Drive Cage 4)					
3	PCIe 4.0	X16	X16	Full-height,half-length slot	Proc1

Secondary and Tertiary Riser kits

Notes:

- Bus width indicates the number of physical electrical lanes running to the connector.
- There are 2 types of riser bundles supported on Secondary and Tertiary Slots, and one is required.
- PCIe Secondary and Tertiary Riser Kit is suggested for single processor configurations.

PCIe Secondary and Tertiary Riser Kit					
Slot#	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
4 (Secondary)	PCIe 4.0	X16	X16	Full-height,half-length slot	Proc2
5 (Secondary)	PCIe 4.0	X8	X8	Full-height,half-length slot	Proc2
6 (Tertiary)	PCIe 4.0	X16	X16	Full-height,half-length slot	Proc2
7 (Tertiary)	PCIe 4.0	X8	X8	Full-height,half-length slot	Proc2

2SFF x4 Tri-Mode U.3 BC Secondary Drive Cage5 and PCIe Tertiary Riser Kit					
Slot#	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
2 SFF x4 Tri-Mode U.3 BC Secondary Drive Slots (Drive Cage 5)					
6 (Tertiary)	PCIe 4.0	X16	X16	Full-height,half-length slot	Proc2
7 (Tertiary)	PCIe 4.0	X8	X8	Full-height,half-length slot	Proc2

Graphics

Integrated Video Standard

- Video modes up to 1920 x 1200@60Hz (32 bpp)
- 16MB Video Memory

HPE iLO 5 on system management memory

- 32 MB Flash
- 4 Gbit DDR 3 with ECC protection



Standard Features

Maximum Internal Storage

Maximum Storage		
Storage	Capacity	Configuration
Standard Cage 1/2 Hot Plug 24LFF SAS HDD	480 TB	24 x 20 TB
Standard Cage 1/2 Hot Plug 24LFF SATA HDD	480 TB	24 x 20 TB
Standard Cage 1/2 Hot Plug 24LFF SAS SSD	38.4 TB	24 x 1.6 TB
Standard Cage 1/2 Hot Plug 24LFF SATA SSD	184.32 TB	24 x 7.68 TB
Standard Cage 1/2 Hot Plug 48SFF SAS HDD	115.2 TB	48 x 2.4 TB
Standard Cage 1/2 Hot Plug 48SFF SATA HDD	96 TB	48 x 2 TB
Standard Cage 1/2 Hot Plug 48SFF SAS SSD	734.4 TB	48 x 15.3 TB
Standard Cage 1/2 Hot Plug 48SFF SATA SSD	368.64 TB	48 x 7.68 TB
Optional Cage 3 Hot Plug 4LFF SAS HDD	80 TB	4 x 20 TB
Optional Cage 3 Hot Plug 4LFF SATA HDD	80 TB	4 x 20 TB
Optional Cage 3 Hot Plug 4LFF SAS SSD	6.4 TB	4 x 1.6 TB
Optional Cage 3 Hot Plug 4LFF SATA SSD	30.72 TB	4 x 7.68 TB
Optional Cage 3 Hot Plug 8SFF SAS HDD	19.2 TB	8 x 2.4 TB
Optional Cage 3 Hot Plug 8SFF SATA HDD	16 TB	8 x 2 TB
Optional Cage 3 Hot Plug 8SFF SAS SSD	122.4 TB	8 x 15.3 TB
Optional Cage 3 Hot Plug 8SFF SATA SSD	61.44 TB	8 x 7.68 TB
Optional Cage 3 Hot Plug 8SFF NVMe SSD	122.88 TB	8 x 15.36 TB
Optional Cage 4 Hot Plug 2SFF SAS HDD	4.8 TB	2 x 2.4 TB
Optional Cage 4 Hot Plug 2SFF SATA HDD	4 TB	2 x 2 TB
Optional Cage 4 Hot Plug 2SFF SAS SSD	30.6 TB	2 x 15.3 TB
Optional Cage 4 Hot Plug 2SFF SATA SSD	15.36 TB	2 x 7.68 TB
Optional Cage 4 Hot Plug 2SFF NVMe SSD	30.72 TB	2 x 15.36 TB
Optional Cage 4 Hot Plug 2LFF SAS HDD	40 TB	2 x 20 TB
Optional Cage 4 Hot Plug 2LFF SATA HDD	40 TB	2 x 20 TB
Optional Cage 5 Hot Plug 2SFF SAS HDD	4.8 TB	2 x 2.4 TB
Optional Cage 5 Hot Plug 2SFF SATA HDD	4 TB	2 x 2 TB
Optional Cage 5 Hot Plug 2SFF SAS SSD	30.6 TB	2 x 15.3 TB
Optional Cage 5 Hot Plug 2SFF SATA SSD	15.36 TB	2 x 7.68 TB
Optional Cage 5 Hot Plug 2SFF NVMe SSD	30.72 TB	2 x 15.36 TB
Optional Cage 5 Hot Plug 2LFF SAS HDD	40 TB	2 x 20 TB
Optional Cage 5 Hot Plug 2LFF SATA HDD	40 TB	2 x 20 TB

Notes:

- SFF NVMe PCIe SSD is only supported in the optional SFF Drive Cage 3, 4, or 5
- SFF Drive Cage 3, 4, and 5 support SSD only
- Only 1 optional drive cage can be installed in Cage 3 location
- The core options for the rear drive cage 4/5, necessary controller(s), and controller cable kit selection are suggested to be configured at the factory. Customers can upgrade or change the rear drive cage 4 /5 core option or cable kit after they are installed and cabled in the factory, but these changes may require added service costs and new parts to complete this upgrade.
- Customers swapping between the PCIe riser and the rear SFF drive cage 4/5 kit(s) will incur new parts cost but no added service cost. Swapping from any other configurations will require additional parts cost and added HPE service cost.
- Additionally, customers can still install, upgrade, or swap the SFF, LFF or NVMe drives for Cage 4 /5 after the systems have left the factory if the new drives are supported by the drive cage 4/5, proper controller(s), and cable kit selection.



Standard Features

Internal Storage Devices

- Hard Drives
- None ship standard.

Storage Controllers

Essential RAID Controllers

- HPE Smart Array E208i-a SR G10 Controller
- HPE Smart Array E208i-p SR Gen10 Controller
- HPE Smart Array E208e-p SR Gen10 Controller

Performance RAID Controllers

- HPE Smart Array P408i-a SR G10 Controller
- HPE Smart Array P408i-p SR Gen10 Controller
- HPE Smart Array P408e-p SR Gen10 Controller
- HPE Smart Array P816i-a SR Gen10 Controller

Notes: Performance RAID Controllers require the HPE Smart Hybrid Capacitor (P02377-B21) or the HPE Smart Storage Battery (P01366-B21) which are sold separately.

NVMe OS Boot Device

- HPE NS204i-p x2 Lanes NVMe PCIe3 x8 OS Boot Device

Tri-Mode Controller

- HPE SR932i-p Gen10 Plus Controller

Notes: PE80xx NVMe drives are not supported

Notes: For additional details, please see [HPE Smart Array Gen10 Controllers Data Sheet](#) Or [HPE Smart Array Gen10 Plus SmartRAID Controllers Data Sheet](#)

Interfaces

Front iLO Service Port	1 standard, front
VGA Port	1 standard, rear
iLO Remote Mgmt Port	1x 1 Gb Dedicated
Serial	optional, rear
USB 3.0	4 total: 1 front, 2 rear, 1 internal (standard on all chassis types)

Power Supply

- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
- HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit

Notes: Available in 94% and 96% efficiency.

- HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
- HPE 1800-2200W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit

Notes:

- Available in 94% and 96% efficiency.
- 1600W Power supplies only support high line voltage (200 VAC to 240 VAC).



Standard Features

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 Gen10 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.

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required

To review the power requirements for your selected system, please use the [HPE Power Advisor Tool](#).

For information on power specifications and technical content visit [HPE Server power supplies](#).

Operating Systems and Virtualization Software

- [Windows Server](#) 2016, 2019, 2022 and 2025
- [VMware](#) vSphere 7.0 U2, 7.0 U3, 8.0, 8.0 U1, 8.0 U2, and 8.0 U3
- [Red Hat Enterprise Linux \(RHEL\)](#) 7.9, 8.2 and 9.0
- [SUSE Linux Enterprise Server \(SLES\)](#) 12 SP5 and 15 SP2
- [Canonical Ubuntu](#) 20.04 LTS, 22.04 LTS, and 24.04 LTS

Notes: For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server. <http://www.hpe.com/info/ossupport>

Industry Standard Compliance

- ACPI 6.1 Compliant
- PCIe 3.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- USB 3.0 Compliant
- USB 2.0 Compliant
- SMBIOS 3.1
- UEFI 2.6 (Unified Extensible Firmware Interface Forum)
- Redfish API
- IPMI 2.0
- Secure Digital 4.0
- TPM 2.0 support
- Advanced Encryption Standard (AES)
- Triple Data Encryption Standard (3DES)
- SNMP v3
- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line (SMASH CLP)
- Active Directory v1.0
- ASHRAE A3/A4

Notes: For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: <http://www.hpe.com/servers/ashrae>



Standard Features

HPE Server UEFI/Legacy ROM

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 Gen10 servers have a UEFI Class 2 implementation and support both UEFI Mode (default) and Legacy BIOS 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 <http://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
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- PXE boot support for IPv6 networks
- Workload Profiles for simple performance optimization
- UEFI Boot Mode only:
- TPM 2.0 Support
- NVMe Boot Support
- Platform Trust Technology (PTT) can be enabled.
- iSCSI Software Initiator Support.
- HTTP/HTTPS Boot support as a PXE alternative.
- 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.
- UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen10 Server.

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 <http://www.hpe.com/info/ilo>.

UEFI

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

Learn more at <http://www.hpe.com/servers/uefi>.

Intelligent Provisioning

Hassle free server and OS provisioning for one or more servers with Intelligent Provisioning. Learn more at

<http://www.hpe.com/servers/intelligentprovisioning>.

iLO RESTful API

iLO RESTful API is Redfish API conformance and offers simplified server management automation such as configuration and maintenance tasks based on modern industry standards. Learn more at <http://www.hpe.com/info/restfulapi>.



Standard Features

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 <http://www.hpe.com/servers/ahs>.

Active Health System Viewer

Use the Active Health System Viewer, a web-based portal, to easily read AHS logs and speed problem resolution with HPE self-repair recommendations, to learn more visit: <http://www.hpe.com/servers/ahsv>

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). Learn more at <https://www.hpe.com/us/en/servers/smart-update.html>

iLO Amplifier Pack

Designed for large enterprise and service provider environments with hundreds of HPE servers, the iLO Amplifier Pack is a free, downloadable open virtual application (OVA) that delivers the power to discover, inventory and update Gen8, Gen9 and Gen10 HPE servers at unmatched speed and scale. Use with an iLO Advanced License to unlock full capabilities. Learn more at <http://www.hpe.com/servers/iLOamplifierpack>.

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>.

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 <http://www.hpe.com/info/resttool>.

Scripting Tools

Provision one to many servers using your own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at <http://www.hpe.com/servers/powershell>.

HPE OneView Standard

HPE OneView Standard can be used for inventory, health monitoring, alerting, and reporting without additional fees. It can monitor multiple HPE server generations. The user interface is similar to the HPE OneView Advanced version, but the software-defined functionality is not available. Learn more at <http://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>.



Standard Features

Security

- UEFI Secure Boot and Secure Start support
- Immutable Silicon Root of Trust
- FIPS 140-2 validation
- Common Criteria certification
- Configurable for PCI DSS compliance
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Support for Commercial National Security Algorithms (CNSA)
- iLO Security Modes including a New iLO Advanced Premium Security License
- Granular control over iLO interfaces
- Smart card (PIV/CAC) and Kerberos based 2-factor Authentication
- Tamper-free updates – components digitally signed and verified
- Secure Recovery – recover critical firmware to known good state on detection of compromised FW
- Ability to rollback firmware
- Secure erase of NAND
- TPM (Trusted Platform Module) 2.0 option
- Bezel Locking Kit

Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE 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 at: <http://www.hpe.com/support/ProLiantServers-warranties>

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 brings a new level of automation to infrastructure management by taking a template driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It provides full-featured licenses which can be purchased for managing Gen8, Gen9 and Gen10 servers. To learn more visit <http://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 <http://www.hpe.com/info/cmu>.



Standard Features

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°, 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 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/completecure>

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

This section lists some of the steps required to configure a Factory Integrated Model.

To ensure 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.

1. Factory Integrated Models must start with a CTO Server.
2. FIO indicates that this option is only available as a factory installable option.
3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on number of drives ordered with server.
4. Some options may not be integrated at the factory. Contact your local sales representative for additional information.

Step 1: Base Configuration (choose one of the following configurable models)

CTO Models	HPE Apollo 4200 Gen10 Plus 24LFF TAA-compliant Configure-to-order System	HPE Apollo 4200 Gen10 Plus 48SFF TAA-compliant Configure-to-order System
SKU Number	P28700-B21	P28701-B21
Processor	Not included as standard	
DIMM Slots	24-DIMM slots	
Storage Controller	At least one type i-a controller needs to be installed for the Cage 1 and Cage 2 drives Choice of HPE modular Smart Array and PCIe plug-in controller up to four per server	
PCIe	Up to 6 PCIe slots depending on riser kits selection	
Drive Cage - included	24 LFF - SAS/SATA	48 SFF - SAS/SATA
Network Controller	Choice of either OCP 3.0 or select stand-up network adapters for primary networking selection plus additional/optional stand-up network adapters Notes: No embedded networking	
Fans	5 dual-rotor fan modules	
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advances and OneView (optional)	
USB	Front: 1 USB 3.0 + iLO service port Rear: 2 USB 3.0 Internal: 1 USB 3.0	

Step 2: Choose Required Options

Please select up to two processors required below.

Notes:

- Maximum memory capacity per processor is dependent on processor models. All processors support up to 6 TBmax memory per processor.
- Mixing of 2 different processor models are NOT allowed.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

Step 2a: Choose Processor Options

Processor Option Kits (Required Processor)

Notes: Field upgrades from 1st generation processors (x1xx) or 2nd generation processors (x2xx) to 3rd generation processors (x3xx) not supported.



Configuration Information

Description

SKU

3rd Generation Intel Xeon-Platinum

Intel Xeon-Platinum 8352M 2.3GHz 32-core 185W Processor Kit for HPE Apollo 4200 Gen10 Plus	P45886-B21
Intel Xeon-Platinum 8352Y 2.2GHz 32-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42917-B21

Notes:

- Y Supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP)
- Platinum 8352M Processor: Supports Intel® Speed Select Performance Profile (SST-P), even though not being a “Y” processor. Does not support Intel Speed Select Technology – Base Frequency (SST-BF). Default Speed Select Performance Profile value is 2.3GHz, 32 Cores.

Description

SKU

3rd Generation Intel Xeon-Gold

Notes: Field upgrades from 1st generation processors (x1xx) or 2nd generation processors (x2xx) to 3rd generation processors (x3xx) not supported.

Intel Xeon-Gold 6354 3.0GHz 18-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42923-B21
Intel Xeon-Gold 6346 3.1GHz 16-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42922-B21
Intel Xeon-Gold 6338 2.0GHz 32-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42916-B21
Intel Xeon-Gold 6336Y 2.4GHz 24-core 185W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42914-B21
Intel Xeon-Gold 6334 3.6GHz 8-core 165W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42921-B21
Intel Xeon-Gold 6330 2.0GHz 28-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42915-B21
Intel Xeon-Gold 6326 2.9GHz 16-core 185W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42920-B21
Intel Xeon-Gold 6314U 2.3GHz 32-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42924-B21
Intel Xeon-Gold 6312U 2.4GHz 24-core 185W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42925-B21
Intel Xeon-Gold 5320 2.2GHz 26-core 185W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42913-B21
Intel Xeon-Gold 5318Y 2.1GHz 24-core 165W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42912-B21
Intel Xeon-Gold 5317 3.0GHz 12-core 150W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42919-B21
Intel Xeon-Gold 5315Y 3.2GHz 8-core 140W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42918-B21

Notes:

- Y Supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP).
- U Supported in one-socket configurations only.

3rd Generation Intel Xeon -Silver

Notes: Field upgrades from 1st generation processors (x1xx) or 2nd generation processors (x2xx) to 3rd generation processors (x3xx) not supported.

Intel Xeon-Silver 4316 2.3GHz 20-core 150W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42911-B21
Intel Xeon-Silver 4314 2.4GHz 16-core 135W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42910-B21
Intel Xeon-Silver 4310 2.1GHz 12-core 120W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42909-B21
Intel Xeon-Silver 4309Y 2.8GHz 8-core 105W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42908-B21

Notes:

- Y Supports Intel Speed Select Technology – Performance Profile 2.0 (Intel SST-PP).
- Silver SKUs do not support Intel Optane persistent memory DIMMs, except 4314 SKU



Configuration Information

Step 2b: Choose Memory Options

Please select one or more memory from below.

For new Gen10 Plus memory population rule whitepaper and optimal memory performance guidelines, please go to:

Server Memory And Persistent Memory Population Rules For Hpe Gen10 Plus Servers With Intel 3rd Gen Xeon Scalable Processors

For Gen10 Plus memory speed table, please go to: <https://www.hpe.com/docs/memory-speed-table>

Notes:

- The maximum memory speed and capacity is a function of the memory type, memory configuration, and processor model.
- DDR4-3200 Memory Kits are only supported with 3rd Generation Intel Xeon Scalable Series Processors.

Description

SKU

Registered DIMMs (RDIMMs)

HPE 16GB (1x16GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06029-K21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06031-K21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06033-K21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06035-K21
HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07525-K21
HPE 32GB (1x32GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P40007-K21

Notes:

- The transfer rate of 3200 MT/s memory SKUs will depend on processor selection
- Mixing of LRDIMM and RDIMM is not supported
- Mixing of x4 and x8 memory is not supported
- Mixing of 3DS memory and non-3DS memory is not supported

Step 2c: Choose Power Supplies

Please select one or two power supplies from below.

Notes: Mixing of 2 different power supplies are NOT allowed.

Description

SKU

HPE Flex Slot Power Supplies

HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit	P44712-B21
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38997-B21
HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit	P17023-B21
HPE 1600W -48VDC Power Cable Lug Kit	P36877-B21
HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit	P03178-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38995-B21
HPE 800W Flex Slot Hot Plug Universal Low Halogen High Voltage AC/DC Power Supply Kit	865428-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21

Notes:

- Select a minimum (1), maximum (2) power supplies.
- 1600W and 1800W-2200W Power supplies only support high line voltage (200VAC to 240VAC).
- Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <http://www.hpe.com/info/hppoweradvisor>.
- All power supplies in a server should match. Mixing Power Supplies is not supported.
- HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). Visit **HPE power cords** for a full list of optional power cords.



Configuration Information

Step 3: Choose Additional (FIO) Factory Integratable Options

Each of the following may be selected if desired at time of factory integration

HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit

P13771-B21

Notes:

- This option to be defaulted for all CTO Servers. However option can be deselected.
- The TPM 2.0 Gen10 Option is compatible with the following Operating Systems:
- In TPM 1.2 Mode
- Windows Server 2012 R2
- Redhat RHEL 6.9, RHEL 7.0, and later.
- SUSE SLES 12 SP2, SLES 15 GA and newer
- VMware vSphere 6.0U3, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7U1, 6.7U2 and 6.7U3
- In TPM 2.0 Mode
- Windows Server 2016 and Windows Server 2019
- Redhat RHEL 7.2, RHEL 8.0, and later.
- SUSE SLES 12 SP2, SLES 15 GA and newer
- VMware vSphere 6.7, 6.7U1, 6.7U2, 6.7U3, 7.0U1 and newer

HPE Legacy FIO Mode Setting

758959-B22

Notes: UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.

Step 4: Choose Additional Options for Factory Integration from Core and Additional Option sections below

Description	SKU
HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU	K6F98AAE
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 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 Bundle Track 1-server LTU	E5Y44A



Core Options

HPE Apollo 4200 Unique Options

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

Processor Heat Sink Kits

Description

	SKU
HPE Apollo 4200 Gen10 Plus Standard Heat Sink Kit	P41666-B21
HPE Apollo 4200 Gen10 Plus High Performance Heat Sink Kit	P41668-B21

Notes:

- Each processor requires one heat sink kit
- Processors over 165W require High Performance Heat Sink Kit (P41668-B21)
- When Intel Optane DC Persistent Memory DIMM(s) is (are) installed, High Performance Heat Sink Kit(s) (P41668-B21) is (are) required for processor(s).
- When 256GB LRDIMM(s) (P06039-K21) is (are) installed, High Performance Heat Sink Kit(s) (P41668-B21) is (are) required for processor(s).
- When GPU is installed, High Performance Heat Sink Kits (P41668-B21) are required for processors.
- When this SKU is selected, one of the following 3 FIO controller modes must be selected: HPE 2nd Cage FIO Controller Mode for Rear Storage (813546-B21), HPE Software RAID FIO Controller Mode for Rear Storage (P09655-B21), or HPE Smart Array E/P SR FIO Controller Mode for Rear Storage (P09656-B21)
- Mixing of 2 different heat sinks are NOT allowed.
- The optional Drive Cage 3 is supported only with Standard Heat Sink Kit.

System Air Baffle

HPE Apollo 4200 Gen10 Plus High Performance Air Baffle Kit	P41660-B21
HPE Apollo 4200 Gen10 Plus Standard Air Baffle Kit	P41662-B21
HPE Apollo 4200 Gen10 Plus Standard Middle Air Baffle Kit	P41664-B21

Notes:

- When High Performance Heat Sink(s) is (are) installed, High Performance Air Baffle Kit is required.
- When Standard Heat Sink(s) is (are) installed, Standard Air Baffle Kit is required.
- When neither Drive Cage 3 nor High Performance Heat Sink is installed, Standard Middle Air Baffle Kit is required.

Drive Cage 3 Storage Upgrades

HPE Apollo 4200 Gen10 Plus 4LFF SAS/SATA LP Drive Cage 3 Upgrade Kit	P28702-B21
HPE Apollo 4200 Gen10 Plus 8SFF x4 Tri-Mode U.3 BC Drive Cage 3 Upgrade Kit	P28703-B21

Notes:

- The 4LFF Drive Cage 3 can only be installed in 24LFF CTO SKU (P28700-B21).
- The 8SFF Drive Cage 3 can be installed in 24LFF CTO SKU (P28700-B21) or 48SFF CTO SKU (P28701-B21).
- The Drive Cage 3 cannot be installed with processors over 165W, Intel DC Persistent Memory DIMMs, 256GB LRDIMM, or GPU.

Drive Cage 3 Cables and Controller Mode

Notes: One of the Drive Cage 3 Cables and Controller mode must be selected when any Drive Cage 3 Upgrade SKU is selected.

HPE Apollo 4200 Gen10 Plus 8SFF Cage 3 Balanced NVMe Direct Attach Cable Kit	P28704-B21
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Notes: When this SKU is selected, the 8SFF Cage 3 is directly attached under CPU(s). Four NVMe drives are connected to CPU 1 and the other four NVMe drives are connected to CPU 2.



Core Options

Description	SKU
HPE Apollo 4200 Gen10 Plus 8SFF Cage 3 CPU1 Tri-Mode Controller Cable Kit	P28705-B21
Notes: When this SKU is selected, all 8SFF drive bays will be connected to a Tri-Mode controller under CPU 1. It requires one dedicated Tri-mode controller to be installed.	
HPE Apollo 4200 Gen10 Plus 8SFF Cage 3 CPU2 Tri-Mode Controller Cable Kit	P28706-B21
Notes: When this SKU is selected, all 8SFF drive bays will be connected to a Tri-Mode controller under CPU 2. It requires one dedicated Tri-mode controller to be installed.	
HPE Apollo 4200 Gen10 Plus 8SFF Cage 3 Balanced Tri-Mode Controller Cable Kit	P28707-B21
Notes: When this SKU is selected, four bays are connected to one Tri-mode controller under CPU 1, and the other four bays are connected to one Tri-Mode controller under CPU 2. It requires two dedicated Tri-mode controllers to be installed.	
HPE Apollo 4200 Gen10 Plus 8SFF Cage 3 Balanced SAS/SATA Controller Cable Kit	P28710-B21
Notes: When this SKU is selected, four bays are connected to one SAS/SATA controller under CPU 1, and the other four bays are connected to one SAS/SATA controller under CPU 2. It requires two dedicated SAS/SATA controllers to be installed.	
HPE Apollo 4200 Gen10 Plus 4LFF Cage 3 Type-p Controller Cable Kit	P43539-B21
Notes: When this SKU is selected, four LFF bays in Cage 3 are connect to one i-p SAS/SATA controller. It requires one dedicated SAS/SATA controller to be installed	
HPE Apollo 4200 4LFF Cage 3 to Cage 2 P3 FIO Controller Mode	P43619-B21
Notes: When this SKU is selected, four LFF bays are connect to Drive Cage 2 Expander.	
Primary Riser	
HPE Apollo 4200 Gen10 Plus PCIe Primary Riser Kit	P28711-B21
HPE Apollo 4200 Gen10 Plus 2SFF x4 Tri-Mode U.3 BC Primary Drive Cage 4 Kit	P28712-B21
HPE Apollo 4200 Gen10 Plus 2LFF SAS/SATA LP Primary Drive Cage 4 Kit	P44987-B21
Notes:	
- One of the Primary Kits is required per system. - The PCIe Primary Riser Kit (P28711-B21) include one X16 FHHL slot 1, one X8 FHHL slot 2, and one power only slot 3 for non-PCIe options (SATA M.2 or OCP Thermal Enhancement Kit) - The Primary Drive Cage 4 Kit (P28712-B21) includes 2SFF Drive Cage 4 and one X16 FHHL slot 3. - The rear LFF Cage4 and Cage5 are bundled, quantity one of the following SKUs are required when configure rear LFF Drive Cages: P44987-B21, P44984-B21, P44990-B21, and 869083-B21. - The core options for the rear drive cage 4/5, necessary controller(s), and controller cable kit selection are suggested to be configured at the factory. Customers can upgrade or change the rear drive cage 4 /5 core option or cable kit after they are installed and cabled in the factory, but these changes may require added service costs and new parts to complete this upgrade. - Customers swapping between the PCIe riser and the rear SFF drive cage 4/5 kit(s) will incur new parts cost but no added service cost. Swapping from any other configurations will require additional parts cost and added HPE service cost. - Additionally, customers can still install, upgrade, or swap the SFF, LFF or NVMe drives for Cage 4 /5 after the systems have left the factory if the new drives are supported by the drive cage 4/5, proper controller(s), and cable kit selection.	



Core Options

Secondary and Tertiary Riser

HPE Apollo 4200 Gen10 Plus PCIe Secondary and Tertiary Riser Kit	P28717-B21
HPE Apollo 4200 Gen10 Plus 2SFF x4 Tri-Mode U.3 BC Secondary Drive Cage5 and PCIe Tertiary Riser Kit	P28718-B21
HPE Apollo 4200 Gen10 Plus 2LFF SAS/SATA LP Secondary Drive Cage 5 and PCIe Tertiary Riser Kit	P44984-B21

Notes:

- One of the Secondary and Tertiary Kits is required per system.
- The PCIe Secondary and Tertiary Riser Kit (P28717-B21) include one X16 FHHL slot 4, one X8 FHHL slot 5, one X16 FHHL slot 6, and one X8 FHHL slot 7.
- The Secondary Drive Cage 5 and PCIe Tertiary Riser Kit (P28718-B21) includes 2SFF Drive Cage 5, one X16 FHHL slot 6, and one x8 FHHL slot 7.
- HPE Apollo 4200 Gen10 Plus PCIe Secondary and Tertiary Riser Kit (P28717-B21) is suggested for single processor configurations
- The rear LFF Cage4 and Cage5 are bundled, quantity one of the following SKUs are required when configure rear LFF Drive Cages: P44987-B21, P44984-B21, P44990-B21, and 869083-B21.
- The core options for the rear drive cage 4/5, necessary controller(s), and controller cable kit selection are suggested to be configured at the factory. Customers can upgrade or change the rear drive cage 4 /5 core option or cable kit after they are installed and cabled in the factory, but these changes may require added service costs and new parts to complete this upgrade.
- Customers swapping between the PCIe riser and the rear SFF drive cage 4/5 kit(s) will incur new parts cost but no added service cost. Swapping from any other configurations will require additional parts cost and added HPE service cost.
- Additionally, customers can still install, upgrade, or swap the SFF, LFF or NVMe drives for Cage 4 /5 after the systems have left the factory if the new drives are supported by the drive cage 4/5, proper controller(s), and cable kit selection.

Drive Cage 4 and Cage 5 Cables

Notes: Each Cage requires one of the Drive Cage 4 and Cage 5 Cables.

Description	SKU
HPE Apollo 4200 Gen10 Plus 2SFF Cage 4 CPU1 Tri-Mode Controller Cable Kit	P28713-B21
Notes: When this SKU is selected, 2SFF Drive Cage 4 bays are connected to a Tri-Mode controller under CPU 1. It requires one dedicated Tri-mode controller to be installed.	
HPE Apollo 4200 Gen10 Plus 2SFF Cage 4 CPU1 SAS/SATA Controller Cable Kit	P28714-B21
Notes: When this SKU is selected, 2SFF Drive Cage 4 bays are connected to a SAS/SATA controller under CPU 1. It requires one dedicated SAS/SATA controller to be installed.	
HPE Apollo 4200 Gen10 Plus 2SFF Cage 4 CPU2 Tri-Mode Controller Cable Kit	P28715-B21
Notes: When this SKU is selected, 2SFF Drive Cage 4 bays are connected to a Tri-Mode controller under CPU 2. It requires one dedicated Tri-mode controller to be installed..	
HPE Apollo 4200 Gen10 Plus 2SFF Cage 4 CPU2 SAS/SATA Controller Cable Kit	P29052-B21
Notes: When this SKU is selected, 2SFF Drive Cage 4 bays are connected to a SAS/SATA controller under CPU 2. It requires one dedicated SAS/SATA controller to be installed.	
HPE Apollo 4200 Gen10 Plus 2SFF Cage 4/5 NVMe Direct Attach Cable Kit	P28716-B21
Notes: When this SKU is selected, 2SFF Drive Cage 4 or Cage 5 bays are directly attached under CPU.	
HPE Apollo 4200 Gen10 Plus 2SFF Cage 5 Tri-Mode Controller Cable Kit	P28720-B21
Notes: When this SKU is selected, 2SFF Drive Cage 5 bays are connected to a Tri-Mode controller either under CPU 1 or CPU 2. It requires one dedicated Tri-mode controller to be installed.	
HPE Apollo 4200 Gen10 Plus 2SFF Cage 5 SAS/SATA Controller Cable Kit	P28721-B21
Notes: When this SKU is selected, 2SFF Drive Cage 5 bays are connected to a SAS/SATA controller either under CPU 1 or CPU 2. It requires one dedicated SAS/SATA controller to be installed.	

Core Options

Description	SKU
HPE Apollo 4200 Gen10 Plus LFF Cage 4/5 SAS/SATA Controller Cable Kit	P44990-B21
Notes: The rear LFF Cage4 and Cage5 are bundled, quantity one of the following SKUs are required when configure rear LFF Drive Cages: P44987-B21, P44984-B21, P44990-B21, and 869083-B21.	
Front Drive Cage 1 and Cage 2 Controller Mode	
Notes: Each Cage requires one controller Mode.	
HPE Apollo 4200 Cage 1 to Type-a P1/P2 FIO Controller Mode	P43598-B21
Notes: When this SKU is selected, The Drive Cage 1 bays are connected to i-a controller port 1 and port 2.	
HPE Apollo 4200 Cage 1 to Type-a P1 FIO Controller Mode	P43601-B21
Notes: When this SKU is selected, The Drive Cage 1 bays are connected to i-a controller port 1.	
HPE Apollo 4200 Cage 2 to Type-a P2 FIO Controller Mode	P43607-B21
Notes: When this SKU is selected, The Drive Cage 2 bays are connected to i-a controller port 2.	
HPE Apollo 4200 Cage 2 to Type-a P3/P4 FIO Controller Mode	P43610-B21
Notes: When this SKU is selected, The Drive Cage 2 bays are connected to i-a controller port 3 and port 4.	
HPE Apollo 4200 Cage 2 to Secondary Riser FIO Controller Mode	P43613-B21
Notes: When this SKU is selected, The Drive Cage 2 bays are connected to i-p controller in Secondary Riser. It requires one dedicated SAS/SATA controller to be installed	
HPE Apollo 4200 Cage 2 to Tertiary Riser FIO Controller Mode	P43616-B21
Notes: When this SKU is selected, The Drive Cage 2 bays are connected to i-p controller in Tertiary Riser. It requires one dedicated SAS/SATA controller to be installed	
System OCP Options	
HPE OCP Thermal Enhancement Kit	P28727-B21
Notes: This SKU is required for OCP options requiring better thermal condition.	
HPE Apollo 4200 Gen10 Plus OCP Upgrade Cable Kit	P36607-B21
Notes: This SKU can improve the OCP slot bandwidth from X8 to X16 PCIe Gen4.	
System Racking Options	
HPE Apollo 4200 Gen10 Plus Rail Kit	P28725-B21
HPE Apollo 4200 Gen10 Plus Cable Management Arm	P28726-B21
System Security Options	
HPE Apollo 4200 Gen10 Plus Bezel Kit	P28723-B21
System Cable Options	
HPE Apollo 4200 Gen10 Plus Universal AIC HHHL SATA M.2 Cable Kit	P37638-B21
Notes: This SKU is required when HPE Universal SATA AIC HHHL M.2 SSD Kit (878783-K21) is installed.	
HPE Apollo 4200 Gen10 Plus Rear Serial Port Cable and Enablement Kit	P41658-B21

Security

HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	P13771-B21
HPE Apollo 4200 Gen10 Plus Bezel Kit	P28723-B21
HPE Bezel Lock Kit	875519-B21



Core Options

HPE Processors

Processor Option Kits

3rd Generation Intel Xeon-Platinum

Notes:

- Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) not supported.
- All the below models ship with Performance Heatsink unless otherwise noted.

Intel Xeon-Platinum 8352Y 2.2GHz 32-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus P42917-B21

3rd Generation Intel Xeon-Gold

Notes: Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) not supported.

Intel Xeon-Gold 6354 3.0GHz 18-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42923-B21
Intel Xeon-Gold 6346 3.1GHz 16-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42922-B21
Intel Xeon-Gold 6338 2.0GHz 32-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42916-B21
Intel Xeon-Gold 6336Y 2.4GHz 24-core 185W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42914-B21
Intel Xeon-Gold 6334 3.6GHz 8-core 165W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42921-B21
Intel Xeon-Gold 6330 2.0GHz 28-core 205W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42915-B21
Intel Xeon-Gold 6326 2.9GHz 16-core 185W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42920-B21
Intel Xeon-Gold 5320 2.2GHz 26-core 185W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42913-B21
Intel Xeon-Gold 5318Y 2.1GHz 24-core 165W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42912-B21
Intel Xeon-Gold 5317 3.0GHz 12-core 150W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42919-B21
Intel Xeon-Gold 5315Y 3.2GHz 8-core 140W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42918-B21

Description

SKU

3rd Generation Intel Xeon-Silver

Notes: Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) not supported.

Intel Xeon-Silver 4316 2.3GHz 20-core 150W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42911-B21
Intel Xeon-Silver 4314 2.4GHz 16-core 135W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42910-B21
Intel Xeon-Silver 4310 2.1GHz 12-core 120W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42909-B21
Intel Xeon-Silver 4309Y 2.8GHz 8-core 105W Processor Kit for HPE Apollo 4200 Gen10 Plus	P42908-B21

HPE Memory

For new Gen10 Plus memory population rule whitepaper and optimal memory performance guidelines, please go to:

<https://www.hpe.com/docs/memory-population-rules>

For Gen10 Plus memory speed table, please go to: <https://www.hpe.com/docs/memory-speed-table>

For memory Reliability, Accessibility, Serviceability (RAS) features whitepaper like Gen10 Fast Fault Tolerance and legacy mirrored memory feature etc. please go to: <http://www.hpe.com/docs/memory-ras-feature>

Notes:

- The maximum memory speed and capacity is a function of the memory type, memory configuration, and processor model.
- DDR4-3200 Memory Kits are only supported with 3rd Generation Intel Xeon Scalable Series Processors.



Core Options

HPE DDR4 Memory

Registered DIMMs (RDIMMs)

HPE 16GB (1x16GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06029-K21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06031-K21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06033-K21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06035-K21
HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07525-K21
HPE 32GB (1x32GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P40007-K21

Notes:

- 3200 MT/s memory SKUs offer a transfer rate of 3200 MT/s at 1 DIMM per channel and 2933 MT/s at 2 DIMMs per channel
- Mixing of LRDIMM and RDIMM is not supported
- Mixing of x4 and x8 memory is not supported
- Mixing of 3DS memory and non-3DS memory is not supported

HPE Drives

Midline - 12G SAS - LFF Drives

HPE 20TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P53553-K21
HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P37669-K21
HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P23608-K21
HPE 12TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	881781-K21
HPE 10TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD	P53556-K21
HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	834031-K21
HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	861746-K21
HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	833928-K21
HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	833926-K21

Midline - 6G SATA - LFF Drives

HPE 20TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P53554-K21
HPE 16TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P23449-K21
HPE 12TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	881787-K21
HPE 10TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD	P53557-K21
HPE 8TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	834028-K21
HPE 6TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	861742-K21
HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861683-K21
HPE 2TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861681-K21
HPE 1TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861686-K21

Enterprise - 12G SAS - SFF Drives

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P28352-K21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P28586-K21
HPE 300GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P40430-K21
HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P53561-K21
HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P53562-K21



Core Options

SSD Selection

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

For SSDs with optimal product availability, HPE advocates SSDs from the list located here: <https://ssd.hpe.com/>

Read Intensive - 12G SAS - SFF - Solid State Drives

HPE 7.68TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40509-K21
HPE 3.84TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40508-K21
HPE 1.92TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40507-K21
HPE 960GB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40506-K21
HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Self-encrypting FIPS HDD	P28618-K21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Self-encrypting FIPS HDD	P28622-K21
HPE 960GB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49029-K21
HPE 1.92TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49031-K21
HPE 3.84TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49035-K21
HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49041-K21
HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-K21

Mixed Use - 12G SAS - SFF - Solid State Drives

HPE 3.84TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40512-K21
HPE 1.92TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40511-K21
HPE 960GB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40510-K21
HPE 800GB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49047-K21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-K21
HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49053-K21
HPE 6.4TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49057-K21
HPE 1.6TB SAS Mixed Use SFF BC Self-encrypting FIPS 140-2 PM7 SSD	P63871-K21

Read Intensive - 6G SATA - SFF - Solid State Drives

HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-K21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-K21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-K21
HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-K21
HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-K21

Mixed Use - 6G SATA - SFF - Solid State Drives

HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40505-K21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-K21
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-K21
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58244-K21
HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-K21
HPE 480GB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58236-K21

Read Intensive - 24G SAS - LFF - Solid State Drives

HPE 7.68TB SAS 24G Read Intensive LFF LPC Multi Vendor SSD	P49040-K21
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Core Options

Mixed Use - 12G SAS - LFF - Solid State Drives

HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD P37009-K21

Read Intensive - 6G SATA - LFF - Solid State Drives

HPE 960GB SATA 6G Read Intensive LFF LPC Multi Vendor SSD P47808-K21

Read Intensive - NVMe - SFF - Solid State Drives

HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC Self-encrypting FIPS U.3 CM6 SSD P41403-K21

HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD P63829-H21

HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD P63833-H21

HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD P63837-H21

HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD P63841-H21

HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD P50216-K21

HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD P50219-K21

HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD P50222-K21

HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD P50224-K21

HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD P64842-K21

HPE 1.92TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD P64844-K21

HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD P64846-K21

HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD P64848-K21

HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD P70434-K21

HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD P70436-K21

Mixed Use - NVMe - SFF - Solid State Drives

HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50227-K21

HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50230-K21

HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50233-K21

HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50227-K21

HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50230-K21

HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD P50233-K21

HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD P64999-K21

HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD P65007-K21

HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD P65015-K21

HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD P65023-K21

HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM7 SSD P63845-H21

HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM7 SSD P63849-H21

HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM7 SSD P63853-H21

HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD P70426-K21

HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD P70428-K21

Read Intensive - M.2 - Solid State Drives (2280 type)

HPE 240GB SATA 6G Read Intensive M.2 Multi Vendor SSD P47817-K21

HPE 480GB SATA 6G Read Intensive M.2 Multi Vendor SSD P47818-K21



Core Options

Hard Drive Blank Kits

HPE Gen9 LFF HDD Spade Blank Kit	807878-B21
HPE Small Form Factor Hard Drive Blank Kit	666987-B21

HPE Networking

100 Gigabit Ethernet adapters

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

25 Gigabit Ethernet adapters

Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21
NVIDIA Ethernet 10/25Gb 2-port SFP28 NVMe-oF Crypto Adapter for HPE	S2A69A
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21

Notes: HPE OCP Thermal Enhancement Kit (P28727-B21) is required.

Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21
Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P13188-B21
Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10112-B21
Xilinx X2522-25G-PLUS Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P21109-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
Intel X710-DA2 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P28787-B21

1 Gigabit Ethernet adapters

Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P21106-B21
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OCP 3.0 Adapters

Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21
Intel X710-DA2 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P28778-B21
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	P22767-B21

Notes: HPE OCP Thermal Enhancement Kit (P28727-B21) is required.

Storage Offload Adapters

NVIDIA Ethernet 100Gb 2-port NVMe-oF Offload Adapter for HPE	R8M41A
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HPE InfiniBand

HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	P31348-H21
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Notes: HPE OCP Thermal Enhancement Kit (P28727-B21) is required. Recommended system Ambient temperature: 25C.



Core Options

HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter	P23664-H21
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	P31324-H21

Notes: Recommended system Ambient temperature: 25C.

HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter	P23665-H21
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter	P23666-H21
HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter	P45642-H22
HPE 15.36TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static SPD Multi Vendor SSD	P69255-K21

Notes: For additional InfiniBand information: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440>.

HPE Power Supplies

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 Gen10 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.

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also 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 review the power requirements for your selected system, please use the **HPE Power Advisor Tool**.

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

HPE Flex Slot Platinum Hot-plug Power supplies

Description	SKU
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
Notes: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	
HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit	P03178-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
Notes: Flex Slot -48VDC power supplies support power efficiency of up to 94%.	
HPE 800W Flex Slot Hot Plug Universal Low Halogen High Voltage AC/DC Power Supply Kit	865428-B21
Notes: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.	
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38995-B21
Notes: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38997-B21
Notes: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).	
HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit	P44712-B21
Notes: Only supports high line voltage (200 VAC to 240 VAC).	
HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit	P17023-B21
Notes: Flex Slot -48VDC power supplies support power efficiency of up to 94%.	
HPE 1600W -48VDC Power Cable Lug Kit	P36877-B21



Core Options

HPE Computation and Graphics Accelerators

Description	SKU
NVIDIA A2 16GB PCIe Non-CEC Accelerator for HPE	R9H23C

Notes:

- Shipment starts in Q3 CY2022.
- The Drive Cage 3 is not supported when this SKU is selected.
- This SKU can only be installed in PCIe Slot 6, so the 2nd processor is required.
- Processors over 165W are not supported when this SKU is selected.
- Memory DIMMs over 128GB are not supported when this SKU is selected.
- Intel DC Persistent Memory DIMMs are not supported when this SKU is selected.



Additional Options

Embedded Management

Notes: 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.

HPE iLO Advanced

SKU Description	SKU
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 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 Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE

HPE iLO Common Password

HPE iLO Common Password FIO Setting	P08040-B21
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HPE Converged Infrastructure Management Software

HPE OneView Advanced (with HPE iLO Advanced)

HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
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HPE OneView Advanced (without HPE iLO Advanced)

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

Notes:

- Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <https://www.hpe.com/us/en/integrated-systems/software.html>.
- Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.
- Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <https://www.hpe.com/us/en/integrated-systems/software.html>.

HPE Security

Description	SKU
HPE Apollo 4200 Gen10 Plus Bezel Kit	P28723-B21
HPE Bezel Lock Kit	875519-B21
HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	P13771-B21

Notes:

- HPE Trusted Platform Module 2.0 option works with Gen10 Plus with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.
- HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

HPE Smart Array Controllers

Notes: For additional details, please see HPE Smart Array Gen10 Controllers Data Sheet at: https://www.hpe.com/psnow/doc/a00047736enw.pdf?jumpid=in_lit-psnow-getpdf



Additional Options

HPE Flexible Smart Array Controllers

Notes:

- All performance RAID controllers are supported by the HPE Smart Storage Hybrid Capacitor (P02377-B21) or HPE Smart Storage Battery (P01366-B21), which supports multiple devices and are sold separately.
- Flexible Smart Array controllers do not consume a PCIe slot.

HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller 804338-B21

HPE Smart Array P816i-a SR Gen10 (16 Int Lanes/4GB Cache/SmartCache) 12G SAS Modular LH Controller 869083-B21

Notes: This SKU is required and only supports the Rear LFF Cage4 and Cage5 configurations.

HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller 804331-B21

HPE Flexible Smart Array Essential Controllers

HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller 804326-B21

Performance RAID Controllers

HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller 804405-B21

HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller 830824-B21

HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804398-B21

HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804394-B21

HPE Tri-Mode Controllers

Microchip SmartRAID SR932i-p x32 Lanes 8GB Wide Cache NVMe/SAS 24G Controller for HPE Gen10 Plus P04220-B21

Notes: HPE Tri-Mode Controllers are only supported for SFF Drive Cage 3, Cage 4, or Cage 5.

HPE Smart Storage Battery

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

Notes: Provides backup power for multiple HPE Smart Array controllers or other devices. Is required with performance RAID controllers.

Description

SKU

HPE NVMe OS Boot Device

HPE NS204i-p x2 Lanes NVMe PCIe3 x8 OS Boot Device P12965-B21

Notes: Provides backup power for multiple HPE Smart Array controllers or other devices. Is required with performance RAID controllers.

HPE Smart Array

For latest information on **HPE Smart Array Gen10 Controllers for HPE ProLiant DL, ML and Apollo Servers**, please refer to their QuickSpecs. (E208i-a, E208i-p, E208e-p, P408i-a, P408i-p, P408e-p, P816i-a, P932i-p)

Optional Software

HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU Q2F26AAE

Notes: SmartCache is offered on HPE Smart Array performance RAID controllers and comes standard (no licensing is required) if the HPE Smart Array P816i-a SR Gen10 Controller is installed in the server.



Additional Options

HPE Storage Options

Emulex Fibre Channel HBAs

HPE SN1700E 64Gb 1-port Fibre Channel Host Bus Adapter	R7N77A
HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter	R7N78A
HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	Q0L11A
HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	Q0L12A
HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	R2J63A
HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	R2J62A

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

Notes: For the complete listing of Fibre Channel Converged Network Adapters please see:

<https://www.hpe.com/us/en/product-catalog/servers/adapters/pip.models.hpe-storefabric-converged-networkadapters.4118472.html>

HPE Rack Options

Rail Kits

HPE Apollo 4200 Gen10 Plus Rail Kit	P28725-B21
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Cable Management Arm

HPE Apollo 4200 Gen10 Plus Cable Management Arm	P28726-B21
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Description

SKU

HPE Optical Drives

HPE Mobile USB DVD-RW Optical Drive	701498-B21
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Notes: This is only supported on USB 3.0 ports.

HPE Racks

- Please see the [HPE Advanced Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.
- Please see the [HPE Enterprise Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.
- Please see the [HPE Standard Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.



Additional Options

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 DirectFlow 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 USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HPE 32GB microSD RAID 1 USB Boot Drive

P21868-B21



Memory

Memory Population guidelines

General Memory Population Rules and Guidelines:

- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two-processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- When two processors are installed, balance the DIMMs across the two processors.
- White DIMM slots denote the first slot to be populated in a channel. Mixing of DIMM types (RDIMM and LRDIMM) is not supported.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, the number and model of installed processors qualified on the platform.

For details on the HPE Server Memory Options Population Rules, visit: <http://www.hpe.com/docs/memory-population-rules>

To realize the performance memory capabilities listed in this document, HPE DDR4 Smart Memory is required. For additional information, please see the **HPE DDR4 Smart Memory QuickSpecs**.

Notes: The maximum memory speed is a function of the memory type, memory configuration, and processor model.

For details on the HPE Server Memory speed, visit: <https://www.hpe.com/docs/memory-speed-table>

Notes: The maximum memory speed is a function of the memory type, memory configuration, and processor model.

For details on the HPE Server Memory speed, visit: <https://www.hpe.com/docs/memory-speed-table>

Notes: When HPE Persistent Memory for second-generation Intel Xeon Scalable processors is installed, the maximum supported memory speed is 2666 MT/s.

DDR4 memory options part number decoder

Notes:

- Capacity references are rounded to the common gigabyte (GB) values.
 - o 8GB = 8,192 MB
 - o 16GB = 16,384 MB
 - o 32GB = 32,768 MB
 - o 64GB = 65,536 MB

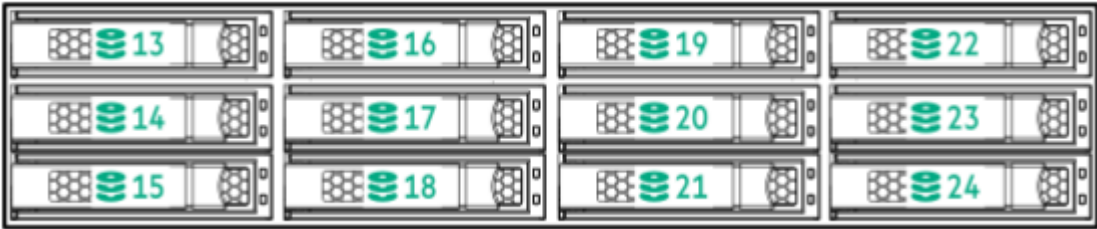
For more information on memory, please see the Memory QuickSpecs: **HPE DDR4 Smart Memory**



Storage



12-bay LFF hot-plug drive cage 1 numbering



12-bay LFF hot-plug drive cage 2 numbering



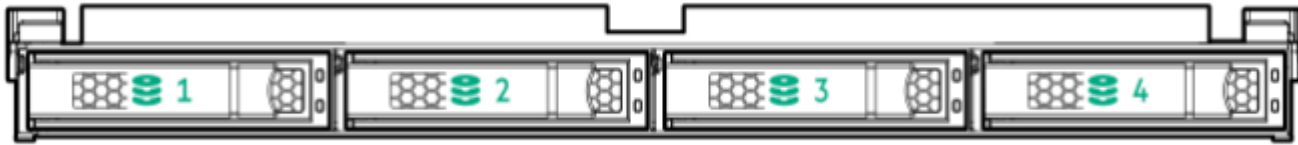
24-bay SFF hot-plug drive cage 1 numbering



24-bay SFF hot-plug drive cage 2 numbering



Storage

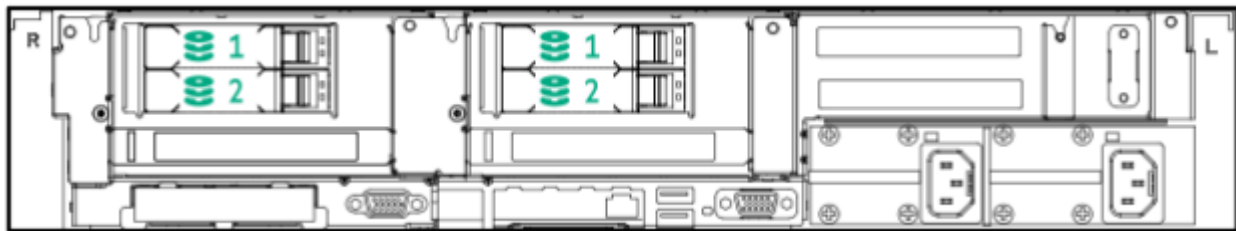


Four-bay LFF hot-plug drive cage 3 numbering

(If there are LFF drives used in drive cage 1 and drive cage 2 in addition to drive cage 3, then these are numbered 49-52.)



Eight-bay SFF hot-plug drive cage 3 numbering



Four-bay SFF hot-plug drive cage 4 and drive cage 5 numbering

Notes:

- The core options for the rear drive cage 4/5, necessary controller(s), and controller cable kit selection are suggested to be configured at the factory. Customers can upgrade or change the rear drive cage 4 /5 core option or cable kit after they are installed and cabled in the factory, but these changes may require added service costs and new parts to complete this upgrade.
- Customers swapping between the PCIe riser and the rear SFF drive cage 4/5 kit(s) will incur new parts cost but no added service cost. Swapping from any other configurations will require additional parts cost and added HPE service cost.
- Additionally, customers can still install, upgrade, or swap the SFF, LFF or NVMe drives for Cage 4 /5 after the systems have left the factory if the new drives are supported by the drive cage 4/5, proper controller(s), and cable kit selection.

Technical Specifications

System Unit	
Dimensions (Height x Width x Depth)	87.5 x 448.0 x 837.90 mm 3.44 x 17.63 x 33.00 in
Weight (approximate)	
Minimum	17.21 kg 37.95 lb
Maximum.	48.35 kg 106.61 lb
Input Requirements (per power supply)	
Rated Line Voltage	100 to 120 VAC 200 to 240 VAC
BTU Rating	
Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only
Power Supply Output (per power supply)	
Rated Steady-State Power	For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VDC) for China only For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
Maximum Peak Power	For 1600W Power Supply: 1600W (at 200 to 240 1VAC), 1600W (at 240 VDC) input for China only
System Inlet Temperature	
Standard Operating Support	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). 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). The approved hardware configurations for this system are listed at the URL: http://www.hpe.com/servers/ashrae
Extended Ambient Operating Support	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: http://www.hpe.com/servers/ashrae System performance may be reduced if operating in the extended ambient operating range or with a fan fault.



Technical Specifications

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. 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 A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°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.				
Configuration SKU		Entry	Base	Performance
Idle				
LWAd		5.9 B	6.4 B	5.4 B
LpAm		35 dBA	35 dBA	36 dBA
Operating				
LWAd		6.0 B	7.1 B	6.3 B
LpAm		36 dBA	38 dBA	45 dBA
Notes: Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only.				

Emissions Classification (EMC)

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://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=c03471072

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
28-Jul-2025	<u>Version 26</u>	Changed	Update survey link.
27-May-2025	<u>Version 25</u>	Changed	Standard Features, Configuration Information and core options sections were updated. Obsolete SKUs were removed
05-Aug-2024	<u>Version 24</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
03-Jun-2024	<u>Version 23</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
18-Mar-2024	<u>Version 22</u>	Changed	Technical Specifications section was updated.
04-Mar-2024	<u>Version 21</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
05-Feb-2024	<u>Version 20</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
08-Jan-2024	<u>Version 19</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
18-Dec-2023	<u>Version 18</u>	Changed	HPE Services Rebranding Obsolete SKUs were removed.
05-Sep-2023	<u>Version 17</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
05-Jun-2023	<u>Version 16</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
06-Mar-2023	<u>Version 15</u>	Changed	Standard Features, Configuration Information and Core Options Sections were Updated & New SKUs were added
06-Feb-2023	<u>Version 14</u>	Changed	Additional Options Section was Updated & New SKUs were added
10-Jan-2023	<u>Version 13</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
05-Dec-2022	<u>Version 12</u>	Changed	Core Options section was updated, Obsolete SKUs were removed. & New SKUs were added
01-Aug-2022	<u>Version 11</u>	Changed	Core Options section was updated. Obsolete SKUs were removed.
05-Jul-2022	<u>Version 10</u>	Changed	Core Options section was updated. Obsolete SKUs were removed.
20-Jun-2022	<u>Version 9</u>	Changed	Overview, Standard Features and Core Options sections were updated. Obsolete SKUs were removed.
02-May-2022	<u>Version 8</u>	Changed	Standard Features, Core Options and Storage sections were updated. Obsolete SKUs were removed.
07-Feb-2022	<u>Version 7</u>	Changed	Overview, Standard Features and Configuration Information sections were updated. Obsolete SKUs were removed.
06-Dec-2021	<u>Version 6</u>	Changed	Core Options sections was updated. Obsolete SKUs were removed
01-Nov-2021	<u>Version 5</u>	Changed	Standard Features, Service and Support and Technical Specifications sections were updated. Obsolete SKUs were removed
02-Aug-2021	<u>Version 4</u>	Changed	Service and Support and Core Options sections were updated. Obsolete SKUs were removed
06-Jul-2021	<u>Version 3</u>	Changed	Additional Options section was updated.
21-Jun-2021	<u>Version 2</u>	Changed	Standard Features, Configuration Information and Technical Specifications sections were updated.
07-Jun-2021	<u>Version 1</u>	New	New QuickSpecs



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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less

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