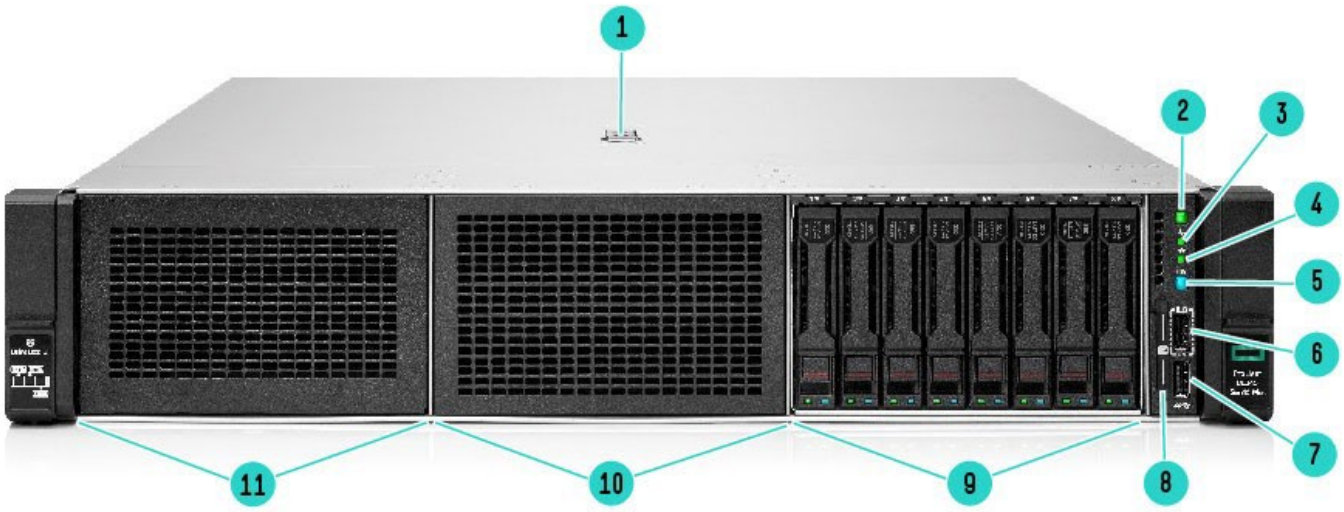
Overview

HPE ProLiant DL345 Gen10 Plus server

The HPE ProLiant DL345 Gen10 Plus server is redefining price/performance with the new math for virtualized compute. Powered by the latest AMD® EPYC® 7003 Series Processors, the HPE ProLiant DL345 Gen10 Plus server offers greater processing power, faster memory speeds up to 3200 MT/s. and increased data transfer rates with PCIe Gen4 capabilities.

This 1P, 2U server has been designed with flexibility while delivering a high core count ad large memory footprint. Choose this purpose-built platform for virtualization, High Performance Compute and memory centric workloads.



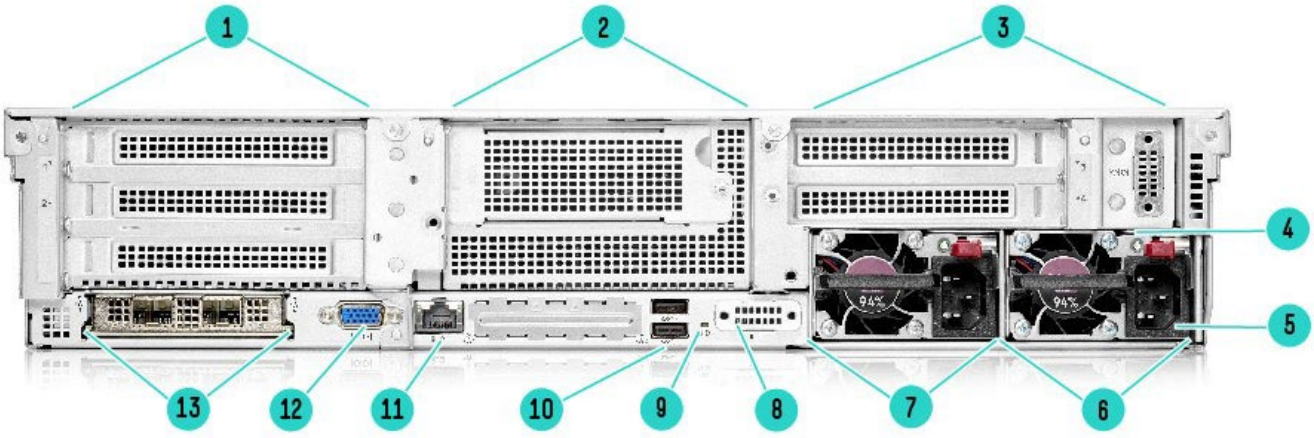
HPE ProLiant DL345 Gen10 Plus 8 SFF Server- Front View

1. Quick removal access panel
2. Power On/Standby button and system power LED button
3. Health LED
4. NIC status
5. Unit ID button
6. iLO front service port
7. USB 3.1 Gen1
8. Serial label pull tag
9. Drive Bay 3. 8SFF SAS/SATA shown (Box 3)
10. Drive Bay 2. Blank shown (Box 2)
11. Drive Bay 1. Blank shown (Box 1)

Notes:

- 8 SFF SAS/SATA or 8 SFF U.2/U.3 optional
- 8 SFF SAS/SATA or 8 SFF U.2/U.3 optional
- 8 SFF SAS/SATA or 8 SFF U.2/U.3 optional

Overview



HPE ProLiant DL345 Gen10 Plus server - Rear View

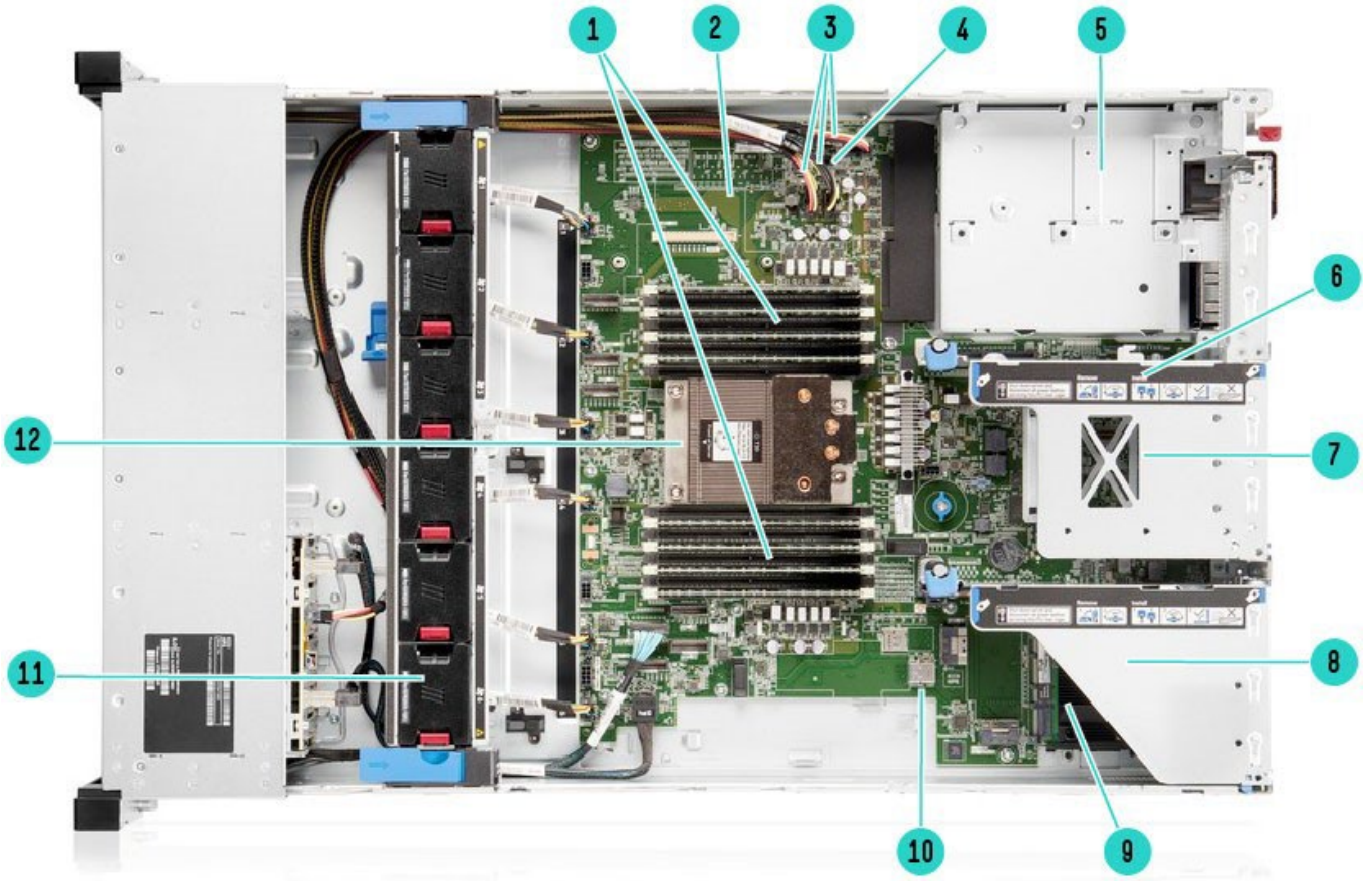
1. Primary Riser.[1]
2. Rear Drive Cage (2SFF SAS/SATA/NVMe optional)
3. Secondary Riser.[2]
4. Power supply power LED
5 Power supply power connection
6. HPE Flexible Slot Power Supply bay 1
7. HPE Flexible Slot Power Supply bay 2
8. Optional serial port (not shown)
9. UID LED
10. USB connectors 3.1 Gen1 (2)
11. Dedicated iLO management port
12. VGA Connector
13. OCP 3.0 Slot

Notes:

– [1] PCIe Slots 1-2 top to bottom, riser shipped standard, not shown.

– [2] PCIe Slots 3-4 top to bottom, not shown.

Overview



HPE ProLiant DL345 Gen10 Plus server - Internal View

8SFF chassis

1	DDR4 DIMM slots	7	(Under) Serial Port Connector
2	Optional HPE Flexible Smart Array Controller (Not shown)	8	Primary PCIe riser, standard
3	Hard drive backplane power connectors	9	(Under) OCP 3.0 Slot
4	Chassis intrusion detection connector	10	Internal USB 3.1 Gen1 connector
5	Hot Plug redundant HPE Flexible Slot Power supplies	11	Fan cage shown with 6 Performance Hot-plug fans
6	Connection for (optional) secondary riser	12	Processor (heatsink shown)

What's New:

- Supports the latest AMD EPYC 7003 Series processor
- Support for Tri-Mode storage controllers for SAS/SATA/NVMe drives
- New Basic Carrier SAS/SATA/NVMe drives.
- European Union (EU) Lot 9 regulation, please visit: **https://www.hpe.com/us/en/about/environment/msds-specs-more.html** for more information

Platform Information

Form Factor

- 2U rack

Chassis Types

- 8 SFF with optional SFF or NVMe drive bay options
- 24 SFF bay with and 2 SFF rear drive bay option to total 26 SFF drives
- 8 LFF/12LFF chassis supporting SAS/SATA

Overview

System Fans

Standard – fan types included

- The 8 LFF and 8 SFF without standard fans included.
- The 24 SFF chassis ships with 6 high performance fans as standard.
- Max performance fan kits are required for >280w Processors SKUs, 12LFF/24SFF configurations, NVMe drives, 2SFF rear drives, some 100GbE & 200GbE networking cards, graphics cards, InfiniBand cards or if PCIe accelerators are being used.

Standard Features

Processors – One of the following depending on model.

Notes: For more information regarding AMD EPYC processors, please see the following:
https://www.amd.com/en/processors/epyc-server-cpu-family

AMD EPYC Processor	Cores	Base Frequency	Max Frequency	Max Memory	Wattage	Cache	Memory
EPYC 7763	64	2.45 GHz	3.5 GHz	4TB	280W	256MB	3200MT/s
EPYC 7713P	64	2.0 GHz	3.675 GHz	4TB	225W	256MB	3200MT/s
EPYC 7663	56	2.0 GHz	3.5 GHz	4TB	240W	256MB	3200MT/s
EPYC 7643	48	2.3 GHz	3.6 GHz	4TB	225W	256MB	3200MT/s
EPYC 7543P	32	2.8 GHz	3.7 GHz	4TB	225W	256MB	3200MT/s
EPYC 7513	32	2.6 GHz	3.65 GHz	4TB	200W	128MB	3200MT/s
EPYC 7453	28	2.75 GHz	3.45 GHz	4TB	225W	64MB	3200MT/s
EPYC 7443P	24	2.85 GHz	4.0 GHz	4TB	200W	128MB	3200MT/s
EPYC 7413	24	2.65 GHz	3.6 GHz	4TB	180W	128MB	3200MT/s
EPYC 7343	16	3.2 GHz	3.9 GHz	4TB	190W	128MB	3200MT/s
EPYC 7313P	16	3.0 GHz	3.7 GHz	4TB	155W	128MB	3200MT/s
EPYC 75F3	32	2.95 GHz	4.0 GHz	4TB	280W	256MB	3200MT/s
EPYC 74F3	24	3.2 GHz	4.0 GHz	4TB	240W	256MB	3200MT/s
EPYC 73F3	16	3.5 GHz	4.0 GHz	4TB	240W	256MB	3200MT/s
EPYC 72F3	8	3.7 GHz	4.1 GHz	4TB	180W	256MB	3200MT/s
EPYC 7702P	64	2.0 GHz	3.35 GHz	4TB	200W	256MB	3200MT/s
EPYC 7502P	32	2.5 GHz	3.35 GHz	4TB	180W	128MB	3200MT/s
EPYC 7402P	24	2.8 GHz	3.35 GHz	4TB	180W	128MB	3200MT/s
EPYC 7302P	16	3.0 GHz	3.3 GHz	4TB	155W	128MB	3200MT/s
EPYC 7232P	8	3.1 GHz	3.2 GHz	4TB	120W	32MB	3200MT/s
EPYC 7203P	8	2.8GHz	3.4GHz	4TB	120W	64MB	3200MT/s
EPYC 7303P	16	2.4GHz	3.4GHz	4TB	130W	64MB	3200MT/s
EPYC 7643P	48	2.3GHz	3.6 GHz	4TB	225W	256MB	3200MT/s
EPYC 7663P	56	2.0GHz	3.5 GHz	4TB	240W	256MB	3200MT/s

Notes:
- All AMD EPYC processors can support up to 4TB of memory each.
- 7xx2 processors can't support 2 DIMM per channel @3200MT/s but 2DPC @2933MT/s.

Chipset

No chipset – System on Chip (SoC) design.

On System Management Chipset

HPE iLO 5 ASIC
Read and learn more in the **iLO QuickSpecs**.

Standard Features

Memory

One of the following depending on model

Type:	HPE DDR4 Smart Memory	Registered (RDIMM)
DIMM Slots Available	16	16 DIMM slots per processor, 8 channels per processor, 2 DIMMs per channel
Maximum capacity (RDIMM)	1.0 TB	16 x 64 GB RDIMM @ 3200 MT/S at 1 or 2 DPC
Maximum capacity (LRDIMM)	4.0 TB	16 x 256 GB LRDIMM @ 3200 MT/s at 1 DPC, 2933 MT/s at 2 DPC

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

Memory Protection

Advanced ECC

Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip.

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

Primary Riser1 (Defaulted Riser)				
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**
1	PCIe 4.0	X16	X16	Full-height, full-length slot
2	PCIe 4.0	X16	X16	Full-height, full-length slot

Primary Riser2*				
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**
1	NA	NA	NA	NA
2	PCIe 4.0	X16	X16	Full-height, full-length slot

Notes: * This riser kit cannot be selected as standalone. Must be selected along with HPE DL345 Gen10P U.3 24NVMe DA FIO Kit

Secondary Riser

Notes:

- Bus Width Indicates the number of physical electrical lanes running to the connector.
- There are 3 types of risers' support on Secondary Slot
- The HPE DL345 Gen10+ 2x8 Slim Sec Riser Kit (P38643-B21) not listed here, cannot be selected as standalone. Must be selected along with HPE DL345 Gen10P U.3 24NVMe DA FIO Kit

Secondary Riser1				
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**
3	PCIe 4.0	X8	X16	Full-height, full-length slot
4	PCIe 4.0	X8	X16	Full-height, full-length slot

Secondary Riser2				
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**
3	PCIe 4.0	X16	X16	Full-height, full-length slot
4	NA	NA	NA	NA

Standard Features

Storage Controllers

The Gen10/Gen10 Plus controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10/Gen10 Plus Smart Array controllers visit the **HPE Smart Array Gen10 Controllers Data Sheet**.

HPE also launched Tri-Mode controllers which will support NVMe U.3/U.2 drives as wells as SAS/SATA drives. Please see below list for the Tri-Mode controllers supported on the server.

NVMe Boot Device

- HPE NS204i-p NVMe PCIe3 OS Boot Device

Software RAID – HPE Smart Storage SR100i Gen10 Plus

- All models feature an embedded storage controller, capable of operating on AHCI or SR100i Gen10 Plus modes, with embedded software supporting RAID for either up to 8 SATA drives or 2 U.3 NVMe SSDs.
- HPE Smart Storage SR100i Gen10 Plus SW RAID will operate in UEFI mode only. Legacy Mode (758959-B22) and SR100i Gen10 Plus SW RAID CAN NOT be selected together. For legacy support, and additional controller will be needed.
- Embedded SATA controller by default will work in AHCI Mode. HPE Smart Storage SR100i Gen10 Plus SW RAID can be enabled by selecting HPE SR100i Gen10 Plus Software RAID (P28417-B21).
- Supports Microsoft Windows Server only.

Notes: Requires SATA drives installed on following server/backplanes and drive bay position to support SR100i Gen10 Plus.

Part Number	Description	SR100i Gen10 Plus support
P26931-B21	HPE DL300 Gen10+ 2U 8SFF x4Tmode U.3 Kit	Up to 8 SATA drive at box 3 bay 1-8
P27194-B21	HPE DL300 Gen10+ 2U 8SFF x1Tmode U.3 Kit	Up to 8 SATA drive at box 3 bay 1-8
P38652-B21	HPE DL345 Gen10+ 8SFF BC Box1-2 Cage Kit	Up to 8 SATA drive at box 3 bay 1-8
P55516-B21	HPE DL38x Gen10+ 8SFF UBM2/TM BP Kit	Up to 8 SATA drive at box 3 bay 1-8
P38664-B21	HPE DL345 Gen10+ 8LFF CTO Server	Up to 8 SATA drives at box 2 bay 1-4 and box 3 bay 1-4
P39265-291	HPE DL345 Gen10+ 7232P 1P 32G 8LFF Server	Up to 8 SATA drives at box 2 bay 1-4 and box 3 bay 1-4

Notes: Requires NVMe drives installed on following backplanes and drive bay position to support SR100i Gen10 Plus.

Part Number	Description	SR100i Gen10 Plus support
P26931-B21	HPE DL300 Gen10+ 2U 8SFF x4Tmode U.3 Kit	Up to 2 NVMe drive at box 2 bay 5-6
P26932-B21	HPE DL300 Gen10+ 2U 8SFF x4 NVMe U.2 Kit	Up to 2 NVMe drive at box 2 bay 5-6
P27194-B21	HPE DL300 Gen10+ 2U 8SFF x1Tmode U.3 Kit	Up to 2 NVMe drive at box 2 bay 5-6
P38654-B21	HPE DL345 Gen10+ 2SFF U.3 BC BP Kit	Up to 2 NVMe drive at box 4 bay 1-2

Essential RAID Controller

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

Performance RAID Controller

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

Notes: Performance RAID Controllers require the HPE 12W Smart Storage Battery (782961-B21) which is sold separately.

Standard Features

HPE MegaRAID Gen10 Plus Controllers

- Broadcom MegaRAID MR416i-o x16 Lanes 4GB Cache NVMe/SAS 12G Controller for HPE Gen10 Plus
- Broadcom MegaRAID MR416i-p x16 Lanes 4GB Cache NVMe/SAS 12G Controller for HPE Gen10 Plus
- Broadcom MegaRAID MR216i-o x16 Lanes without Cache NVMe/SAS 12G Controller for HPE Gen10 Plus
- Broadcom MegaRAID MR216i-p x16 Lanes without Cache NVMe/SAS 12G Controller for HPE Gen10 Plus

HPE SmartRAID Gen10 Plus Controllers

- Microchip SmartRAID SR932i-p x32 Lanes 8GB Wide Cache NVMe/SAS 24G Controller for HPE Gen10 Plus
- Microchip SmartRAID SR416i-a x16 Lanes 4GB Cache NVMe/SAS 24G Controller for HPE Gen10 Plus

Internal Storage Devices

One of the following depending on model

Optical Drive

- None ship standard

Hard Drives

- None ship standard

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

Maximum Internal Storage

Drive	Capacity	Configuration
Hot Plug SFF SAS	62.4TB	24+2 x 2.4 TB (with optional rear SFF drive cage)
Hot Plug SFF SATA	52.0 TB	24+2 x 2 TB (with optional rear SFF drive cage)
Hot Plug LFF SAS	240 TB	12 x 20 TB
Hot Plug LFF SATA	240 TB	12 x 20 TB
Hot Plug SFF SAS SSD	399.36 TB	24+2 x 15.36 TB (with optional rear SFF drive cage)
Hot Plug LFF SATA SSD	11.52 TB	12 x 0.96 TB
Hot Plug SFF SATA SSD	199.7 TB	24+2 x 7.68 TB (with optional 2SFF drive cage)
Hot Plug SFF NVMe U.3 SSD	399.36TB NVMe U.3 (All U.3)	24+2 x 15.36TB NVMe (or 2x SAS/SATA with Max. storage depending on selection for SAS/SATA/HDD/SSD)
Hot Plug SFF NVMe U.2 SSD	184.3 TB NVMe U.2 (All U.2)	24 x 7.68 TB NVMe U.2 + 2 x SAS or SATA (Max. storage depending on selection for SAS/SATA/HDD/SSD)

Standard Features

Power Supply

- HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
  Notes: Available in 94% Power Efficiency.
- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
  Notes: Available in 94%. Power Efficiency
- HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
  Notes:
  - Available in 96% Power Efficiency
  - 200-240VAC power input only.
- HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit
  Notes:
  - Available in 94% Power Efficiency
  - 277VAC power input.
- HPE 800W Flex Slot 48VDC Hot Plug Low Halogen Power Supply Kit
  Notes:
  - Available in 94% Power Efficiency
  - -48VDC power input.
- HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
- HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
  Notes:
  - Available in 94% Power Efficiency.
  - 200-240VAC power input only.
- HPE 1600W 48VDC Power Supply Kit
- HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit
  Notes: Available in 96% Power efficiency

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 Plus 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**.

Interfaces

Serial	Optional, rear
Display Port	N/A
VGA Port	1 rear
Network Ports	None. Choice of OCP or stand up card
HPE iLO Remote Management Network Port	1 Gb Dedicated
Front iLO Service Port	1 standard
USB 3.1 Gen1	Up to 4 total: 1 front, 2 rear, 1 internal
SID (Systems Insight Display)	N/A

Standard Features

Operating Systems and Virtualization Software Support for HPE Servers

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

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

HPE Server UEFI/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 Plus 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

HPE Server UEFI/Legacy ROM

- 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
- 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.

Industry Standard Compliance

- ACPI 6.1 Compliant
- PCIe 4.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- VGA/Display Port
- USB 3.1 Gen1 Compliant (internal)
- USB 2.0 Compliant (external ports)
- Energy Star 4.0
- SMBIOS 3.1
- UEFI 2.6
- Redfish API
- IPMI 2.0
- Secure Digital 2.0
- Advanced Encryption Standard (AES)
- Triple Data Encryption Standard (3DES)
- SNMP v3

Standard Features

- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)
- Active Directory v1.0
- European Union (EU) eco-design regulations for server and storage products, known as Lot 9, mandate that beginning on January 1st, 2024, units sold into the EU, European Economic Area (EEA), the United Kingdom, or Switzerland must include more efficient AC power supplies: 94% for multi-output and 96% for single-output. HPE Flexible Slot power supplies are single-output, and part numbers 865438-B21, P03178-B21, and P44712-B21 are 96% efficient, thus meeting requirements. HPE is on target to fulfil compliant systems ahead of time and will begin enforcing these requirements in advance to satisfy requests with the current power supplies by the set deadline.
- ASHRAE A3/A4
  Notes: For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: **http://www.hpe.com/servers/ashrae**.
- UEFI (Unified Extensible Firmware Interface Forum)

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 1 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**.

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, Gen10 & Gen10 Plus 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**.

Standard Features

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**.

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

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

Security
- UEFI Secure Boot and Secure Start support
- Immutable Silicon Root of Trust
- FIPS 140-2 validation (iLO 5 certification in progress)
- Common Criteria certification (iLO 5 certification in progress)
- Configurable for PCI DSS compliance
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Support for Commercial National Security Algorithms (CNSA)
- Tamper-free updates – components digitally signed and verified
- Secure Recovery – recover critical firmware to known good state on detection of compromised firmware
- Ability to rollback firmware
- Secure erase of NAND/User data
- TPM (Trusted Platform Module) 2.0 option
- Bezel Locking Kit option
- Chassis Intrusion detection option

Optional Features

Server Management

HPE iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality.

HPE iLO Advanced Premium Security Edition

HPE iLO Advanced Premium Security Edition for iLO 5 includes iLO Advanced License plus high-end security modes, unique security capabilities, like Automatic FW recovery; Runtime FW verification, and Secure erase. Learn more about HPE iLO Advanced Premium Security Edition at: **http://www.hpe.com/servers/ilopremium**.

HPE GreenLake for Compute Ops Management

HPE is intelligently transforming compute management with an intuitive cloud operating experience through HPE GreenLake cloud platform to streamline and secure operations from edge-to-cloud. Automated key lifecycle tasks, for onboarding, updating, managing, and monitoring HPE servers, brings agility and greater efficiencies to wherever compute devices reside via a unified single browser-based interface. Manage single locations or multiple, distributed sites. Keep tens to thousands of servers secure with batch policy controls and automated updates.

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

For a complete list of software as-a-service subscription SKUs and more information, visit the HPE GreenLake for Compute Ops Management QuickSpecs: **https://www.hpe.com/psnow/doc/a50004263enw**

For information on supported HPE servers, the complete list can be found here:
https://www.hpe.com/info/com-supported-servers

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, Gen10 & Gen10 Plus servers.

To learn more visit **http://www.hpe.com/info/oneview**.

HPE InfoSight for Servers

HPE InfoSight for Servers combines the cloud-based machine learning of InfoSight with the health and performance monitoring of Active Health System (AHS) and iLO to optimize performance and predict and prevent problems. The end result is an intelligent environment that modernizes IT operations and enhances the support experience by predicting and preventing the infrastructure issues that lead to application disruptions, wasted IT staff time and missed business opportunities.

Learn more at **https://www.hpe.com/servers/infosight**

Optional 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 have created a stronger, smarter, and simpler infrastructure to help you get the most out of your IT equipment. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access.

HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10 year Warranty to support higher density computing.
HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°C, include color-coded outlets and load segments and a low-profile design for optimal access to the rack and support for dense rack environments.

HPE Uninterruptible Power Systems are cost-effective power protection for any type 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**.

One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. **https://h22174.www2.hpe.com/SimplifiedConfig/Welcome#**

Service and Support

HPE Services

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

https://www.hpe.com/services

Consulting Services

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

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

HPE Managed Services

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

HPE Managed Services | HPE

Operational services

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

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

HPE Complete Care Service

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

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

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

HPE Tech Care Service

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

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

Service and Support

HPE Lifecycle Services

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

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

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

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

Other Related Services from HPE Services:

HPE Education Services

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

Defective Media Retention

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

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

Parts and Materials

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

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

How to Purchase Services

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

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

Service and Support

AI Powered and Digitally Enabled Support Experience

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

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

Consume IT On Your Terms

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

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

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

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

Pre-configured Models

Pre-Configured models ship with the configurations below.

- Pre-Configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.
- Hewlett Packard Enterprise does not allow factory integration of options into pre-configured models. Any additional options purchased will not be shipped inside the server.
- Network Choice models do not include embedded LOM.

Base Models		
SKU Number	P72986-291	P72997-001
Model Name	HPE ProLiant DL345 Gen10 Plus 7203P 2.8GHz 8-core 1P 32GB-DR P408i-a 8LFF 500W PS JP Server	HPE ProLiant DL345 Gen10 Plus 7203P 2.8GHz 8-core 1P 32GB-DR P408i-a 8LFF 500W PS LA Server
Chassis	HPE ProLiant DL345 Gen10 Plus 8LFF Configure-to-order Server	
Processor	7203P (8 core, 2.8 GHz, 120W)	7203P (8 core, 2.8 GHz, 120W)
Number of Processors	One with high performance heatsink	One with high performance heatsink
Memory	32 GB (1x32 GB, 3200 MT/s)	
Network Controller	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
Storage Controller	HPE Smart Array P408i-a SR Gen10 x8 Lanes 2GB Cache SAS 12G Modular Controller	
Included Hard Drives	None ship standard, 8 LFF supported	
Internal Storage	8 LFF chassis (upgradeable to 12 LFF in front + 2 SFF rear)	
Optical Drive	Optional, None ship standard	
Expansion Slots	3-slots (x16, x16 in primary) as standard	
Power Supply	1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	
Fans	6x Maximum Performance Fans	6x Maximum Performance Fans
Management	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced	
Security	TPM (Trusted Platform Module)	
Energy Star	4.0 certified	
Form Factor	2U Rack	
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response.	

Pre-configured Models

Performance Models	
SKU Number	P39267-B21 P39267-291
Model Name	HPE ProLiant DL345 Gen10 Plus 7443P 2.85GHz 24-core 1P 32GB-R 8SFF 800W PS Server
Chassis	HPE ProLiant DL345 Gen10 Plus 8SFF Configure-to-order Server
Processor	7443P (24 core, 2.85 GHz, 200W)
Number of Processors	One with high performance heatsink
Memory	32 GB (1x32 GB, 3200 MT/s)
Network Controller	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE
Storage Controller	HPE Smart Array P408i-a SR Gen10 x8 Lanes 2GB Cache SAS 12G Modular Controller
Included Hard Drives	None ship standard, 8 SFF supported
Internal Storage	8 SFF chassis (upgradeable to 24 SFF in front + 2 SFF rear)
Optical Drive	Optional, None ship standard
Expansion Slots	3-slots (x16, x16 in primary) as standard
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Fans	6x Standard Fans
Management	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced
Security	TPM (Trusted Platform Module)
Energy Star	4.0 certified
Form Factor	2U Rack
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response.

Pre-configured Models

Entry Models	
SKU Number	P39266-B21 P39266-291
Model Name	HPE ProLiant DL345 Gen10 Plus 7313P 3.0GHz 16-core 1P 32GB-R 8SFF 500W PS Server
Chassis	HPE ProLiant DL345 Gen10 Plus 8SFF Configure-to-order Server
Processor	7313P (16 core, 3.0 GHz, 155W)
Number of Processors	One with standard heatsink
Memory	32 GB (1x32 GB, 3200 MT/s)
Network Controller	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
Storage Controller	HPE Smart Array P408i-a SR Gen10 x8 Lanes 2GB Cache SAS 12G Modular Controller
Included Hard Drives	None ship standard, 8 SFF supported
Internal Storage	8 SFF chassis (upgradeable to 24 SFF in front + 2 SFF rear)
Optical Drive	Optional, None ship standard
Expansion Slots	3-slots (x16, x16 in primary) as standard
Power Supply	1x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Fans	6x Standard Fans
Management	Default: HPE iLO Standard with Intelligent Provisioning, HPE OneView Standard (requires download) Optional (require licenses): HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced
Security	TPM (Trusted Platform Module)
Energy Star	4.0 certified
Form Factor	2U Rack
Warranty	Server warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response.

Country Code Key

- -B21 = Worldwide
- -001 = North America
- -291 = Japan

Configuration Information

European Union (EU) eco-design regulations for server and storage products, known as Lot 9, mandate that beginning on January 1st, 2024, units sold into the EU, European Economic Area (EEA), the United Kingdom, or Switzerland must include more efficient AC power supplies: 94% for multi-output and 96% for single-output. HPE Flexible Slot power supplies are single-output, and part numbers 865438-B21, P03178-B21, and P44712-B21 are 96% efficient, thus meeting requirements. HPE is on target to fulfil compliant systems ahead of time and will begin enforcing these requirements in advance to satisfy requests with the current power supplies by the set deadline.

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

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

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

CTO Server	HPE ProLiant DL345 Gen10 Plus 8 LFF CTO Server	HPE ProLiant DL345 Gen10 Plus 8 SFF CTO Server	HPE ProLiant DL345 Gen10 Plus 24 SFF CTO Server
SKU Number	P38664-B21	P38665-B21	P38666-B21
Processor	Not included as standard	Not included as standard	Not included as standard
DIMM Slots	16-DIMM slots	16-DIMM slots	16-DIMM slots
Storage Controller	Choice of HPE modular Smart Array and PCIe plug-in controller		
PCIe	Two standard in primary riser, up to four slots with a secondary riser		
Drive Cage - included	8 LFF	8 SFF	24 SFF
Network Controller	Choice of OCP or stand up card		
Fans	Not included as standard	Not included as standard	6-Performance
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advanced and OneView (optional)		
USB	1x 3.0 standard plus iLO front service port		

Notes:

- HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed in a designated country. TAA compliance is only provided when HPE options are included as part of factory integrated orders (CTO).
- TAA compliant configuration requires TAA versions of the CTO Server SKUs.
- All CTO servers are Energy Star 3.0 compliant.

CTO Server	8 LFF CTO Chassis	8 SFF CTO Chassis	24 SFF CTO Chassis
Included Drive Cage	1x 8 LFF SAS/SATA	1x 8 SFF SAS/SATA	3x 8 SFF SAS/SATA
Universal Media Bay	Not available	Not available	Not available
ODD	Not available	Not available	Not available
4 LFF SAS/SATA	Up to 1 Optional	Not available	Not available
8 SFF SAS/SATA Drive Cage	Not available	Up to 1 Optional	Not available
8 SFF NVMe Drive Cage	Not available	Up to 2 Optional	Not available
8 SFF SAS/SATA/NVMe (Mid- plane)	Not available	8 SFF CTO Chassis	Not available
2 SFF SAS/SATA (Front)	Not available	1x 8 SFF SAS/SATA	Not available
2 SFF SAS/SATA/NVMe (Rear)	1 Optional	Not available	1 Optional
2 NVMe (Front)	Not available	Not available	Not available
4 LFF Mid-plane	Not available	Not available	Not available
4 LFF Rear	Not available	Not available	Not available

Notes: This applies to CTO configurations; field upgrades may differ depending field configuration.

Configuration Information

Step 2: Choose Required Options (only one of the following unless otherwise noted)

Notes:

- 8 SFF and 8 LFF CTO chassis don't have fans included. 3 q'ty of Standard Fan Kit (P37042-B21) must be selected if 8 SFF or 8 LFF CTO chassis is in the order. 24 SFF CTO chassis has 6 Performance Fans as standard.
- Processors with greater than or equal to 180W will need the High Performance heatsink.
- Processors equal to 280W will require the Max Performance fan kit.

Step 2a: Choose Processors

Description	SKU
Processor Option Kits	
AMD EPYC 7763 2.45GHz 64-core 280W Processor for HPE	P38696-B21
AMD EPYC 7713P 2.0GHz 64-core 225W Processor for HPE	P38720-B21
AMD EPYC 7663 2.0GHz 56-core 240W Processor for HPE	P38690-B21
AMD EPYC 7643 2.3GHz 48-core 225W Processor for HPE	P39365-B21
AMD EPYC 75F3 2.95GHz 32-core 280W Processor for HPE	P38708-B21
AMD EPYC 7543P 2.8GHz 32-core 225W Processor for HPE	P38717-B21
AMD EPYC 7513 2.6GHz 32-core 200W Processor for HPE	P38684-B21
AMD EPYC 7453 2.75GHz 28-core 225W Processor for HPE	P38678-B21
AMD EPYC 74F3 3.2GHz 24-core 240W Processor for HPE	P38705-B21
AMD EPYC 7443P 2.85GHz 24-core 200W Processor for HPE	P38714-B21
AMD EPYC 7413 2.65GHz 24-core 180W Processor for HPE	P38675-B21
AMD EPYC 73F3 3.5GHz 16-core 240W Processor for HPE	P38702-B21
AMD EPYC 7343 3.2GHz 16-core 190W Processor for HPE	P38672-B21
AMD EPYC 7313P 3.0GHz 16-core 155W Processor for HPE	P38711-B21
AMD EPYC 7203P 2.8GHz 8-core 120W Processor for HPE	P66936-B21
AMD EPYC 7303P 2.4GHz 16-core 130W Processor for HPE	P66938-B21
AMD EPYC 7643P 2.3GHz 48-core 225W Processor for HPE	P66939-B21
AMD EPYC 7663P 2.0GHz 56-core 240W Processor for HPE	P66940-B21
AMD EPYC 72F3 3.7GHz 8-core 180W Processor for HPE	P38699-B21
AMD EPYC 7502P 2.5GHz 32-core 180W Processor Kit for HPE	P39735-B21
AMD EPYC 7302P 3.0GHz 16-core 155W Processor Kit for HPE	P39737-B21
AMD EPYC 7232P 3.1GHz 8-core 120W Processor Kit for HPE	P39738-B21

Supporting Ambient Temp. Limitation		
Chassis config	**12LFF/24SFF/24 NVMe**	**8LFF/16SFF/16 NVMe**
280W CPU	25C	25C
Rear NVMe drives (For 7.68TB & 15.35TB drives)	30C	35C

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:
http://www.hpe.com/docs/amd-population-rules-Gen10Plus

For Gen10 Plus memory speed table, please go to: **http://www.hpe.com/docs/amd-speed-table-Gen10Plus**

Notes:

- Memory DIMM availability with a server platform is dependent upon completion of certification testing.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.

Configuration Information

– Memory compatibility may vary or be limited within a specific server family depending upon the specific configuration being requested. Because each server environment and requirements can vary, memory compatibility is based not only upon the server family, but may also be affected by the amount and type of additional hardware options installed within a specific server configuration. For this reason, some HPE memory DIMMs may be qualified for a server model or family and yet occasionally not be supported with limited configurations within that server family. Please consult with the HPE server QuickSpecs or your HPE representative if you have any questions regarding memory compatibility with a specific HPE server configuration.

Registered DIMMs (RDIMMs)

HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07638-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit.	P07640-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07642-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07646-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07650-B21
HPE 128GB (1x128GB) Quad Rank x4 DDR4-3200 CAS-22-22-22 Load Reduced Smart Memory Kit	P07652-B21
HPE 256GB (1x256GB) Octal Rank x4 DDR4-3200 CAS-26-22-22 Load Reduced 3DS Smart Memory Kit	P07654-B21

256GB DIMM Support Ambient Temperature Limitations

System Config	Ambient Temp. Limitation
12LFF	Not supportable with 12LFF
8LFF	30C
24SFF/16SFF/16NVMe	30C
8SFF/ 8NVMe	35C
24NVMe	25C

Notes:

– Mixing of x4 & x8 memory is not allowed
– 8GB~128GB memory SKUs can run the transfer rate of 3200 MT/s at both 1 DIMM and 2 DIMM per channel
– 256GB memory SKU can run the transfer rate of 3200 MT/s at 1 DIMM per channel, but only 2933 MT/s at 2 DIMM per channel

Step 2c: Choose Power Supplies

Select one or two power supplies from below.
Notes: Mixing of 2 different power supplies is NOT allowed.

HPE Flex Slot Power Supplies

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-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 -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-B21
HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit	P03178-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 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit	P44712-B21

Notes:

– P36877-B21 is to be used with HPE 1600W Flex Slot -48VDC Power Supply Kit
– Only one power cable lug kit needs to be selected with the power supply

Configuration Information

Notes:

- Select one or more power supplies.
- 1600W 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.

Step 3: Choose Additional Factory Integratable Options

One of the following from each list may be selected if desired at time of factory integration

HPE Unique Options

HPE ProLiant DL345 Gen10 Plus x16 Slimline Primary Riser Kit P38637-B21

Notes:

- This riser must be selected only if HPE DL345 Gen10P U.3 24NVMe DA FIO Kit is in the order
- The HPE DL345 Gen10 Plus x16 Slimline Primary Riser Kit and HPE DL345 Gen10P 2x8 Secondary Riser Kit or HPE DL345 Gen10P x16 Secondary Riser Kit cannot be selected and vice versa.
- Max= 2 of the below riser can be selected
  - HPE DL345 Gen10P 2x8 Slimline SEC riser Kit
  - HPE DL345 Gen10P x16 Slimline Primary riser Kit

HPE ProLiant DL345 Gen10 Plus x8/x8 Secondary Riser Kit P38639-B21

Notes:

- Max= 1 of the below riser can be selected.
  - HPE DL345 Gen10P 2x8 SEC riser Kit P38639-B21
  - HPE DL345 Gen10P x16 SEC riser Kit P38641-B21
- The HPE DL345 Gen10 Plus x16 Slimline Primary Riser Kit and HPE DL345 Gen10P 2x8 Secondary Riser Kit or HPE DL345 Gen10P x16 Secondary Riser Kit cannot be selected and vice versa.

HPE ProLiant DL345 Gen10 Plus x16 Secondary Riser Kit P38641-B21

Notes:

- Max= 1 of the below riser can be selected.
  - HPE DL345 Gen10P 2x8 SEC riser Kit P38639-B21
  - HPE DL345 Gen10P x16 SEC riser Kit P38641-B21
- The HPE DL345 Gen10 Plus x16 Slimline Primary Riser Kit and HPE DL345 Gen10P 2x8 Secondary Riser Kit or HPE DL345 Gen10P x16 Secondary Riser Kit cannot be selected and vice versa.

HPE ProLiant DL345 Gen10 Plus x8/x8 Slimline Secondary Riser Kit P38643-B21

Notes:

- This riser must be selected only if HPE DL345 Gen10P U.3 24NVMe DA FIO Kit is in the order
- The HPE DL345 Gen10 Plus x16 Slimline Primary Riser Kit and HPE DL345 Gen10P 2x8 Secondary Riser Kit or HPE DL345 Gen10P x16 Secondary Riser Kit cannot be selected and vice versa.
- Max= 2 of the below riser can be selected
  - HPE DL345 Gen10P 2x8 Slimline SEC riser Kit
  - HPE DL345 Gen10P x16 Slimline Primary riser Kit

HPE ProLiant DL345 Gen10 Plus 8NVMe U.3 Direct FIO Bundle Kit P38648-B21

Notes:

- If this bundle kit is selected then HPE DL345 Gen10 Plus 8NVMe DA Cable Kit (P38659-B21) must be selected too.
- This option can be selected only if 8SFF NVMe x4 U.3 drive cage or 8SFF NVMe x4 U.2 drive cage is selected.

Configuration Information

HPE ProLiant DL345 Gen10 Plus 16NVMe U.3 Direct FIO Bundle Kit P38649-B21

Notes:

- If this bundle kit is selected then the following kits should also be selected:
  - HPE DL345 Gen10 Plus 16NVMe DA Cable Kit (P38660-B21)
  - HPE DL345 Gen10 Plus AROC NVMe Adapter Kit (P39271-B21)
- This option can be selected only if 8SFF NVMe x4 U.3 drive cage or 8SFF NVMe x4 U.2 drive cage is selected.

HPE ProLiant DL345 Gen10 Plus 24NVMe U.3 Direct FIO Bundle Kit P38650-B21

Notes:

- If this bundle kit is selected then the following kits should also be selected:
  - HPE DL345 Gen10 Plus 24NVMe DA Cable Kit (P38661-B21)
  - HPE DL345 Gen10P x16 Slimline Primary Riser Kit (P38637-B21)
  - HPE DL345 Gen10P 2x8 Slimline Secondary Riser Kit (P38643-B21)
  - HPE DL345 Gen10P AROC NVMe Adapter Kit (P39271-B21)
  - HPE 8SFF Front Remove SPEC Perf FIO (873763-B21)
- This option can be selected only if 8SFF NVMe x4 U.3 drive cage or 8SFF NVMe x4 U.2 drive cage is selected.

HPE DL38X Gen10 8 SFF Front Cage Removal FIO Option 873763-B21

Notes:

- This is a factory integrated only option.
- If 3 q'ty of 8SFF NVMe x1 U.3 drive cage or 3 q'ty of 8SFF NVMe x4 U.3 drive cage or 3 q'ty of 8SFF NVMe x4 U.2 drive cage is selected then this option must be selected.

HPE Security Options

HPE Server Security Optimized Service for HPE ProLiant (R9S59A) is an optional security upgrade intended for agencies and regulated industries with enhanced security and compliance needs. Applying this option to a DL3XX Gen10/Gen10 Plus CTO server ensures it is hardened by turning on advanced safeguards in place against cyber-exploits throughout the server lifecycle. An iLO Advanced License required for High Security Mode and compatible intrusion detection device option kits are prerequisites for the full optimization service.

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

Core Options

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 Unique Options

HPE ProLiant DL345 Gen10 Plus Smart Array to NVMe Adapter Kit P39271-B21

Notes:

- Used to support up to 16 NVMe drives with Modular Controller (AROC).
- This kit cannot be selected as standalone. Must be selected only if below any one of the option is in the order
  - HPE DL345 Gen10P U.3 16NVMe DA FIO kit (P38649-B21)
  - HPE DL345 Gen10P U.3 24NVMe DA FIO Kit (P38650-B21)

HPE ProLiant DL345 Gen10 Plus 12Gb SAS Expander Card P39270-B21

Notes:

- This option cannot be selected with 8 LFF or 8 SFF CTO chassis.
- Max= 1 of this option must be selected with a 24 SFF CTO chassis.
- If this option is selected then P816i-a/P408i-a/E208i-a controller must be selected.
- This option can only be supported in the default primary riser.

HPE Optical Drives

HPE Mobile USB DVD-RW Optical Drive 701498-B21

HPE Drives

Enterprise - 12G SAS – SFF/LFF Drives

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

Midline - 12G SAS - LFF Drives

HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 833926-B21
HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 833928-B21
HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 861746-B21
HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 834031-B21
HPE 12TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD 881781-B21
HPE 14TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD P09155-B21
HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P23608-B21
HPE 20TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P53553-B21

Midline - 6G SATA - LFF Drives

HPE 1TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 861686-B21
HPE 2TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 861681-B21
HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 861683-B21
HPE 6TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 861742-B21
HPE 8TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 834028-B21
HPE 12TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD 881787-B21
HPE 16TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P23449-B21
HPE 20TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P53554-B21

SED (Self-Encryption Drive) Hard Drives

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Self-encrypting FIPS HDD P28618-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Self-encrypting FIPS HDD P28622-B21

Notes: Requirements for MR Tri-Mode controller SED support

- TPM is not required for Local Key Management as key is stored in controller

Core Options

– iLO Advanced is required for Remote Key Management. Key is stored in remote key manager (Ex. ESKM)

SSD Selection

To streamline the configuration process for HPE ProLiant Gen10 Plus servers and to provide the best product availability, HPE recommends SSDs from the list located here: **http://www.hpe.com/products/recommend**.

Read Intensive - 12G SAS - SFF - Solid State Drives	
HPE 960GB SAS 24G Read Intensive SFF BC Multi Vendor SSD	**P49029-B21**
HPE 960GB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40506-B21
HPE 1.92TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49031-B21
HPE 1.92TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40507-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49035-B21
HPE 3.84TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40508-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49041-B21
HPE 7.68TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40509-B21
HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-B21
Mixed Use - 12G SAS - SFF - Solid State Drives	
HPE 800GB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49047-B21
HPE 960GB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40510-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-B21
HPE 1.92TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40511-B21
HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49053-B21
HPE 3.84TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40512-B21
HPE 6.4TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49057-B21
Mixed Use SAS– LFF- Solid State Drives	
HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD	P37009-B21
Mixed Use - 6G SATA - SFF - Solid State Drives	
HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-B21
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-B21
HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40505-B21
Read Intensive - 6G SATA - SFF - Solid State Drives	
HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-B21
HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21
HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-B21
HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-B21
HPE 480GB SATA 6G Read Intensive SFF BC PM893a SSD	P63886-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC PM893a SSD	P63910-B21

Core Options

Read Intensive - 6G SATA - LFF – Solid State Drives	
HPE 960GB SATA 6G Read Intensive LFF LPC Multi Vendor SSD	P47808-B21
Read Intensive - NVMe - SFF - Solid State Drives	
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50216-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50219-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.2 P5520 SSD	P51455-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50222-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50224-B21
HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64842-B21
HPE 1.92TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64844-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64846-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64848-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD	P63829-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD	P63833-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD	P63837-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 CM7 SSD	P63841-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70434-B21
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PS1010 SSD	P70436-B21
Mixed Use - NVMe - SFF - Solid State Drives	
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50227-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.2 P5620 SSD	P51459-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50230-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.2 P5620 SSD	P51461-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50233-B21
HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P64999-B21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65007-B21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65015-B21
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65023-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM7 SSD	P63845-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM7 SSD	P63849-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 CM7 SSD	P63853-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD	P70426-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PS1030 SSD	P70428-B21
SED (Self-Encryption Drive)	
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58244-B21
HPE 480GB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58236-B21
HPE 1.6TB SAS Mixed Use SFF BC Self-encrypting FIPS 140-2 PM7 SSD	P63871-B21
HPE 3.84TB SAS Read Intensive SFF BC Self-encrypting FIPS 140-2 PM7 SSD	P63875-B21
SED (Self-Encryption Drive) – NVMe SFF	
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61043-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61051-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61059-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61019-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61027-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 Self-encrypting FIPS 140-3 CM7 SSD	P61035-B21

Notes:

- Requirements for Direct Attach SED support
  - TPM2.0 is required for Local Key Management. Keys will be locally encrypted and stored by TPM

Core Options

- iLO Advanced is required for Remote Key Management. Key is stored in remote key manager (Ex. ESKM)

– Requirements for MR Tri-Mode controller SED support
  - TPM is not required for Local Key Management as key is stored in controller
  - iLO Advanced is required for Remote Key Management. Key is stored in remote key manager (Ex. ESKM)

Internal Dual M.2 Kit

HPE Universal SATA 6G AIC HHHL M.2 SSD Enablement Kit 878783-B21

Notes:

– This kit needs to be selected when M.2 SSD Drive (s) are selected. Min =1/ Max =2.
– This kit requires the selection of one HPE DL325 Gen10+ 8SFF ODD SATA/M.2 Kit (P20423-B21).
– If SATA SFF drives are selected and Embedded Controller are used to support 2SFF U.3 drive cage then this kit cannot be selected.
– This kit requires a PCIe slot and supports up to two M.2 SSDs which should be the same SSD SKUs
– M.2 SATA SSDs attached to this enablement kit do not support SR100i Gen10 Plus

Read Intensive - M.2 - Solid State Drives

HPE 480GB SATA 6G Read Intensive M.2 Multi Vendor SSD P47818-B21

Hard Drive Blank Kits

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

HPE Tape Backup

For the complete range of tape drives, autoloaders, libraries and media see: **https://www.hpe.com/us/en/storage/storeever-tape-storage.html**
For hardware and software compatibility of Hewlett Packard Enterprise tape backup products please visit the StoreEver Tape Solutions in SPOCK (requires registration/login) **https://h20272.www2.hpe.com/SPOCK/default.aspx**
Only external drives supported
All libraries and autoloaders supported via compatible FC or SAS controller. Refer to the StoreEver Tape Solutions Compatibility Matrix link above.

Hard Drive Kits

HPE ProLiant DL345 Gen10 Plus 8SFF BC Box 1-2 Drive Cage Kit P38652-B21

Notes:

– This is supported only in 8SFF CTO chassis.
– This supports 8 SAS/SATA SFF Drives.
– Mixing of LFF & SFF drive cage is not allowed.
– Customer can select Min 0 or Max 1 of 8SFF Bay1/2 drive cage.

HPE ProLiant DL345 Gen10 Plus 12LFF Smart Array SAS/SATA Cable Kit P38653-B21

Notes:

– This is supported only in 8LFF CTO chassis.
– This supports 4 SAS/SATA LFF Drives.
– Mixing of LFF & SFF drive cage is not allowed.
– Customer can select Min 0, Max 1 of HPE DL345 Gen10+ 12LFF SA SAS/SATA Kit (P38653-B21)
– This option requires the selection of Max Perf Fan Kit (P14608-B21).
– If this kit is selected then P816i-a controller must be selected.

HPE ProLiant DL300 Gen10 Plus 2U 8SFF x4 Tri-Mode 24G U.3 BC Front Drive Cage Kit P26931-B21

Notes:

– Mixing of LFF & SFF drive cage is not allowed.
– This drive cage kit requires Max Performance fan kit.
– 8SFF NVMe U.3/U.2 drive cage kits can only be selected with the 8SFF CTO chassis.
– 8SFF NVMe x1 U.3 drive cage /8SFF NVMe x4 U.3 drive cage and 8SFF NVMe x4 U.2 drive cage cannot be selected together.

Core Options

- 8SFF NVMe x1 U.3 drive cage and 8SFF NVMe x4 U.3 drive cage cannot be selected together.
- If 3qty of NVMe drive cage from the below list are selected then HPE 8SFF Front Remove SPEC Perf FIO (873763-B21) must be selected.
  - 8SFF NVME x1 U.3 drive cage (P27194-B21)
  - 8SFF NVME x4 U.3 drive cage (P26931-B21)
  - 8SFF NVME x4 U.2 drive cage (P26932-B21)
- If 8SFF NVME x1 U.3 /8SFF NVME x4 U.3 drive cage is selected along with Trimode Controller then 8SFF NVME x1 U.3 /8SFF NVME x4 U.3 drive cage can support SAS/SATA SFF and NVMe U.3 drives.
- If two q'ty of 8SFF NVME x4 U.3 drive cage or 8SFF NVMe x4 U.2 cage and SR932i-p are selected then HPE DL345 Gen10+ x16 Sec Riser Kit (P38641-B21) must be selected.
- If two q'ty of 8SFF NVME x4 U.3 drive cage or 8SFF NVMe x4 U.2 cage and MR416i-P / MR216i-P are selected then HPE DL345 Gen10+ x16 Sec Riser Kit (P38641-B21) or HPE DL345 Gen10P 2x8 SEC riser Kit (P38637-B21) must be selected.
- If 8SFF NVMe x1 U.3/8SFF NVMe x4 U.3 drive cage is selected along with a Tri-Mode Controller then SAS/SATA/NVMe U.3 drives can be selected.
- If 8SFF NVMe x1 U.3/8SFF NVMe x4 U.3 drive cage is selected without a Tri-Mode Controller then only NVMe U.3 drives can be selected.
- NVMe Direct attach will be used to support NVMe U.3 drives if Tri-Mode controller is not selected.

HPE ProLiant DL300 Gen10 Plus 2U 8SFF x1 Tri-Mode 24G U.3 BC Front Drive Cage Kit P27194-B21

Notes:

- Mixing of LFF & SFF drive cage is not allowed.
- This drive cage kit requires Max Performance fan kit.
- 8SFF NVMe U.3/U.2 drive cage kits can only be selected with the 8SFF CTO chassis.
- 8SFF NVMe x1 U.3 drive cage /8SFF NVMe x4 U.3 drive cage and 8SFF NVMe x4 U.2 drive cage cannot be selected together.
- 8SFF NVMe x1 U.3 drive cage and 8SFF NVMe x4 U.3 drive cage cannot be selected together.

- If 3qty of NVMe drive cage from the below list are selected then HPE 8SFF Front Remove SPEC Perf FIO (873763-B21) must be selected.
  - 8SFF NVME x1 U.3 drive cage (P27194-B21)
  - 8SFF NVME x4 U.3 drive cage (P26931-B21)
  - 8SFF NVME x4 U.2 drive cage (P26932-B21)
- If 8SFF NVME x1 U.3 /8SFF NVME x4 U.3 drive cage is selected along with Tri-Mode Controller then 8SFF NVME x1 U.3 /8SFF NVME x4 U.3 drive cage can support SAS/SATA SFF and NVMe U.3 drives.
- Tri-Mode AROC controller can be selected only with 8SFF NVME x1 U.3 drive cage (P27194-B21).
- If 8SFF NVME x1 U.3 drive cage (P27194-B21) is selected then Tri-Mode controller must be selected.
- If 8SFF NVMe x1 U.3/8SFF NVMe x4 U.3 drive cage is selected along with a Tri-Mode Controller then SAS/SATA/NVMe U.3 drives can be selected.
- If 8SFF NVMe x1 U.3/8SFF NVMe x4 U.3 drive cage is selected without a Tri-Mode Controller then only NVMe U.3 drives can be selected.
- NVMe Direct attach will be used to support NVMe U.3 drives if Tri-Mode controller is not selected.

HPE ProLiant DL300 Gen10 Plus 2U 8SFF x4 NVMe 16G U.2 BC Front Drive Cage Kit P26932-B21

Notes:

- Mixing of LFF & SFF drive cage is not allowed.
- This drive cage kit requires Max Performance fan kit.
- 8SFF NVMe U.3/U.2 drive cage kits can only be selected with the 8SFF CTO chassis.
- 8SFF NVMe x1 U.3 drive cage /8SFF NVMe x4 U.3 drive cage and 8SFF NVMe x4 U.2 drive cage cannot be selected together.
- If 3qty of NVMe drive cage from the below list are selected then HPE 8SFF Front Remove SPEC Perf FIO (873763-B21) must be selected.
  - 8SFF NVME x1 U.3 drive cage (P27194-B21)

Core Options

- 8SFF NVME x4 U.3 drive cage (P26931-B21)
- 8SFF NVME x4 U.2 drive cage (P26932-B21)

– If 8SFF NVMe x4 U.2 drive cage and 2SFF U.3 drive cage are selected together then 2SFF U.3 drive cage can support only SAS/SATA SFF drives.
– If two q'ty of 8SFF NVME x4 U.3 drive cage or 8SFF NVMe x4 U.2 cage and SR932i-p are selected then HPE DL345 Gen10+ x16 Sec Riser Kit (P38641-B21) must be selected.
– If two q'ty of 8SFF NVME x4 U.3 drive cage or 8SFF NVMe x4 U.2 cage and MR416i-P / MR216i-P are selected then HPE DL345 Gen10+ x16 Sec Riser Kit (P38641-B21) or HPE DL345 Gen10P 2x8 SEC riser Kit (P38637-B21) must be selected.
– If 8SFF NVMe x4 U.2 drive cage is selected then only NVMe U.3 / NVMe U.2 drives can be selected.

HPE ProLiant DL345 Gen10 Plus 2SFF U.3 BC Front/Rear Backplane Kit P38654-B21

Notes:

– This kit supports 2x NVMe U.3/SAS/SATA drives in rear.
– Customer can select Min 0, Max 1 of 2SFF U.3 Drive cage (P38654-B21).
– If 8SFF NVMe x4 U.2 drive cage and 2SFF U.3 drive cage are selected together then 2SFF U.3 drive cage can support only SAS/SATA SFF drives.
– This option requires the selection of Max Perf Fan Kit (P14608-B21).

HPE ProLiant DL38x Gen10 Plus 8SFF SAS/SATA to Tri-Mode Controller Backplane Kit P55516-B21

Notes: This kit supports 8x NVMe U.3/SAS/SATA drives.

HPE ProLiant DL345 Gen10 Plus 12LFF SAS/SATA Tri-Mode Backplane Kit P57819-B21

Notes:

– This kit supports 4x SAS/SATA drives.
– Requires 8LFF CTO server in the order, to support 12 LFF at the front with MR(MegaRAID) controllers.

HPE Storage Options

Emulex Fibre Channel HBAs

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	Q0L13A
HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	Q0L14A
HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	R2J62A
HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	R2J63A
HPE SN1700E 64Gb 1-port Fibre Channel Host Bus Adapter	R7N77A
HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter	R7N78A

QLogic Fibre Channel HBAs

HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	R2E08A
HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	R2E09A

HPE Smart IO

Requirements:

- One 3yr/4yr/5yr Silver or 3yr/4yr/5yr Platinum license must be purchased for every DSC-25 card in a server.
- 1yr Silver, 1yr Platinum, and 1yr Policy and Services Manager (PSM) licenses are reserved for renewals only.
- One Policy and Services Manager (PSM) license is required to manage up to 3,000 DSC-25 cards.

Core Options

Pensando Distributed Services Card (DSC)

Pensando Distributed Services Platform DSC-25 Enterprise 10/25Gb 2-port SFP28 Card	P26966-B21

Notes: Each card instance requires one RTU license of Silver or Platinum software. In case of more than one adapter, RTU licenses doesn't need to be of the same part number.

Pensando DSP Silver Software Licenses

Pensando Distributed Services Platform Enterprise 1-year Renewal Subscription 24x7 Support E-RTU	R6A06AAE
Pensando Distributed Services Platform Enterprise 3-year Subscription 24x7 Support E-RTU	R6A07AAE
Pensando Distributed Services Platform Enterprise 4-year Subscription 24x7 Support E-RTU	R6F68AAE
Pensando Distributed Services Platform Enterprise 5-year Subscription 24x7 Support E-RTU	R6A08AAE

Pensando DSP Platinum Software Licenses

Pensando Distributed Services Platform Enterprise Pro 1-year Renewal Subscription 24x7 Support E-RTU	R6A09AAE
Pensando Distributed Services Platform Enterprise Pro 3-year Subscription 24x7 Support E-RTU	R6A10AAE
Pensando Distributed Services Platform Enterprise Pro 4-year Subscription 24x7 Support E-RTU	R6F69AAE
Pensando Distributed Services Platform Enterprise Pro 5-year Subscription 24x7 Support E-RTU	R6A11AAE

HPE Networking

1 Gigabit Ethernet adapters

Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P21106-B21
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21

10 Gigabit Ethernet adapters

Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21
Intel X710-DA2 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P28787-B21

10/25 Gigabit Ethernet adapters

Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P13188-B21
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21
Xilinx X2522-25G-PLUS Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P21109-B21
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21
HPE Ethernet 10/25Gb 2-port Secure Network Adapter	S2A69A

100/200 Gigabit Ethernet adapters

Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	P21112-B21
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter	P31246-B21
HPE NV60100M 100Gb 2-port Storage Offload Adapter	R8M41A
Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	P25960-B21
Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE	P10180-B21

Notes:

- Above 100/200 Gb cards require the selection of Max Perf Fan Kit (P14608-B21). Except for P21112-B21. P21112-B21 doesn't need a Max Perf Fan Kit and no ambient temp. restrictions.
- Customer must select HPE DL345 Gen10P x16 Secondary Riser Kit (P38641-B21), if more than two x16 PCIe cards are selected.
- A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
- Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information: **https://h20195.www2.hpe.com/v2/getpdf.aspx/A00002507ENW.pdf?**

Core Options

Recommended System Ambient Temperature			
System Config	**P10180-B21**	**P25960-B21**	**P31246-B21**
12LFF	25C	25C	25C
8LFF	30C	30C	30C
24SFF	30C	30C	30C
16SFF/ 8SFF	35C	35C	35C
24NVMe/ 16NVMe	30C	30C	30C
8NVMe	35C	35C	35C
Other Restrictions • Required to use Max Performance Fan Kit			

OCP Adapters

Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21
Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P51181-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P26256-B21
Intel X710-DA2 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P28778-B21
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21
Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10112-B21
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21

Notes:

- OCP adapters do not consume PCIe slot.
- Only 1 slot is available for OCP adapters.
- Only SFF OCP adapters below 35W can be supported

HPE InfiniBand

HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	P31348-B21
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter	P31324-B21
HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter	P23664-B21
HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter	P23665-B21
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter	P23666-B21

Notes: Max Performance Fan Kit (P14608-B21) is required to support InfiniBand cards. No ambient temperature limitation.

Recommended System Ambient Temperature	
System Config	For all of the above InfiniBand 100Gb/200Gb Ethernet Adapters
12LFF	25C
8LFF	30C
24SFF	30C
16SFF/ 8SFF	35C
24NVMe/ 16NVMe	30C
8NVMe	35C

Notes: When supported with AOC (Active Optical Cables), ambient temperature will follow below restrictions:

Recommended System Ambient Temperature	
System Config	For all of the above InfiniBand 100Gb/200Gb Ethernet Adapters
12LFF	22C
8LFF	27C
24SFF	27C
16SFF/ 8SFF	32C
24NVMe/ 16NVMe	27C
8NVMe	32C

Core Options

Notes:
- The AOC cables are:
  - P28169-B21 HPE IB HDR 200Gb QSFP56 3m AOC
  - P28169-B22 HPE IB HDR 200Gb QSFP56 5m AOC
  - P28169-B23 HPE IB HDR 200Gb QSFP56 10m AOC
  - P28169-B24 HPE IB HDR 200Gb QSFP56 15m AOC
  - P28169-B25 HPE IB HDR 200Gb QSFP56 20m AOC
  - P28169-B26 HPE IB HDR 200Gb QSFP56 30m AOC

HPE Graphic Options

HPE Computation and Graphics Accelerator								
Part number	**Card**	**Q'ty per Server**	**Max Ambient Temperature**					
			12LFF	**8LFF**	**24SFF**	**16SFF/8SFF**	**24NVMe**	**16NVMe/ 8NVMe**
R9W59C	Nvidia A10 Graphics Accelerator for HPE	3	20C	25C	25C	30C	Not Support	25C

NVIDIA A10 24GB PCIe Non-CEC Accelerator for HPE R9W59C

Notes: Require cable kit (P38664-B21) in the order

HPE ProLiant DL345 Gen10 Plus GPU Power Cable Kit P38663-B21

Notes: This cable kit is required when Nvidia A10 graphics accelerator is selected

HPE Cooling Options

HPE ProLiant DL345 Gen10 Plus Standard Heat Sink Kit P38656-B21

Notes:
- Heatsink is not included in the processor kit. Need to be selected separately
- Must be selected if processor is less than 180W

HPE ProLiant DL345 Gen10 Plus High Performance Heat Sink Kit P38655-B21

Notes:
- Heatsink is not included in the processor kit. Need to be selected separately
- Must be selected if processor is equal to or higher than 180W

HPE ProLiant DL300 Gen10 Plus 2U Standard Fan Kit P37042-B21

Notes:
- 3 q'ty of Standard Fan Kit (P37042-B21) must be selected if 8LFF CTO chassis or 8SFF CTO chassis is in the order.
- Standard Fan Kit (P37042-B21) and Max Perf Fan Kit (P14608-B21) cannot be selected together

HPE DL38X Gen10 Plus Maximum Performance Fan Kit P14608-B21

Notes:
- Maximum 1 set of Maximum Performance Fan Kit can be supported
- Max Perf Fan Kit (P14608-B21) must be selected if any of the below options is in the order
  - AMD EPYC 7763 (280W) (P38696-B21)
  - AMD EPYC 75F3 (280W) (P38708-B21)
  - 12LFF AROC SAS/SAT kit (P38653-B21)
  - 2SFF U.3 HDD Kit (P38654-B21)
  - NVME x1 U.3 drive cage (P27194-B21)
  - NVME x4 U.3 drive cage (P26931-B21)
  - NVME x4 U.2 drive cage (P26932-B21)
  - MLX MCX515A-CCAT Adapter (P31246-B21)

Core Options

- MLX MCX623106AS 100GbE 2p QSFP56 Adapter (P25960-B21)
- MLX MCX623105AS 200GbE 1p QSFP56 Adapter (P10180-B21)
- InfiniBand Cards
- PCIe Accelerators
- Graphics cards

– Standard Fan Kit (P37042-B21) and Max Perf Fan Kit (P14608-B21) cannot be selected together

HPE Power Supplies

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 865408-B21

Notes: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

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 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 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

HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit P03178-B21

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit P38997-B21

HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit P44712-B21

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

Notes:

– P36877-B21 is to be used with HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit

– Only one power cable lug kit needs to be selected with the power supply

– Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.

– 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).

– 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.

– Option kits contain the specified power supply and a PDU IEC cable.

– 1600W power supplies only support high line voltage.

– 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 HPE power cords.

Core Options

Riser Information									
Part number	**Description**	**Riser position**			**Bus width (Gen4 lanes)**			**NVMe Direct Connect**	
		Primary	**Secondary**	**Tertiary**	**Top slot**	**Middle Slot**	**Bottom slot**	**Ports**	**Drive count**
N/A	HPE DL345 Gen10 Plus x16/x16 Primary Riser	D	N	N	x16	x16	N	0	0
P38639-B21	HPE DL345 Gen10 Plus 2x8 Sec Riser Kit	N	O	N	x8	x8	N	0	0
P38641-B21	HPE DL345 Gen10 Plus x16 Sec Riser Kit	N	O	N	x16	N	N	0	0
P38637-B21	HPE DL345 Gen10 Plus x16 Slim Prim Riser Kit	O	N	N	N	x16	N	2	4
P38643-B21	HPE DL345 Gen10 Plus 2x8 Slim Sec Riser Kit	N	O	N	N	N	N	2	4

Notes: Y = supported; D = default on Chassis; O = optional; N = not supported or slot/connector not present.

Additional Options

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

Embedded Management

HPE iLO Advanced

HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
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 Common Password FIO Setting	P08040-B21

Software as a Service Management

HPE Compute Ops Management

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

Additional Options

HPE Compute Ops Management Enhanced 1-year Upfront ProLiant SaaS	R7A10AAE
HPE Compute Ops Management Enhanced 5-year Upfront ProLiant SaaS	R7A12AAE

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

HPE Compute Ops Management Base SaaS	R6Z73AAE

HPE Converged Infrastructure Management Software

HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU	K6F98AAE
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Track 1-server LTU	E5Y36A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView Upgrade from Insight Management 3yr 24x7 Support 1-server LTU	F6Q91A
HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support Bundle Track 1-server LTU	E5Y44A
HPE OneView Upgrade from Insight Management including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y45AAE
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**.

HPE Security

HPE Server Platform LDevID FIO Setting	P49803-B21

Notes:

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

HPE Server Identity LDevID FIO Setting	P49814-B21

Additional Options

Notes: Locally Significant Device Identifier (LDevID) certificates are part of a Zero Trust Architecture. This SKU instructs factory to only provision LDevID on HPE iLO

HPE Gen10 2U Bezel Kit	867809-B21
HPE Bezel Lock Kit	875519-B21
HPE Gen10 Plus Chassis Intrusion Detection Kit	P14604-B21
HPE Gen10 TPM 1.2 FIO Setting	872108-B21
HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit	P13771-B21

Notes:

- This is TPM 2.0 for Gen10 plus
- If this option is selected into a system operating in the Legacy BIOS mode (758959-B21), it cannot operate at the TPM 2.0 setting. It must operate at the TPM 1.2 setting.
  Therefore, if this option is ordered with the Legacy BIOS mode (758959-B21), then TPM 1.2 FIO (872108-B21) should also be ordered.
- This provides a physical connection from the chassis board and hood and detects any physical intrusion into the chassis, providing security during the entire supply chain process of shipping, receiving, distribution, and operation

HPE Boot Controllers

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

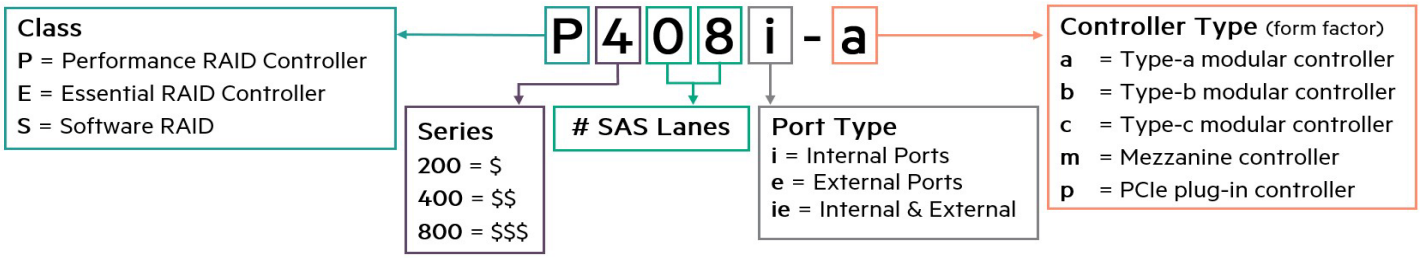
Notes: Requires UEFI, not supported on Legacy Mode.

HPE Smart Storage SR100i SR Gen10 Plus SW RAID

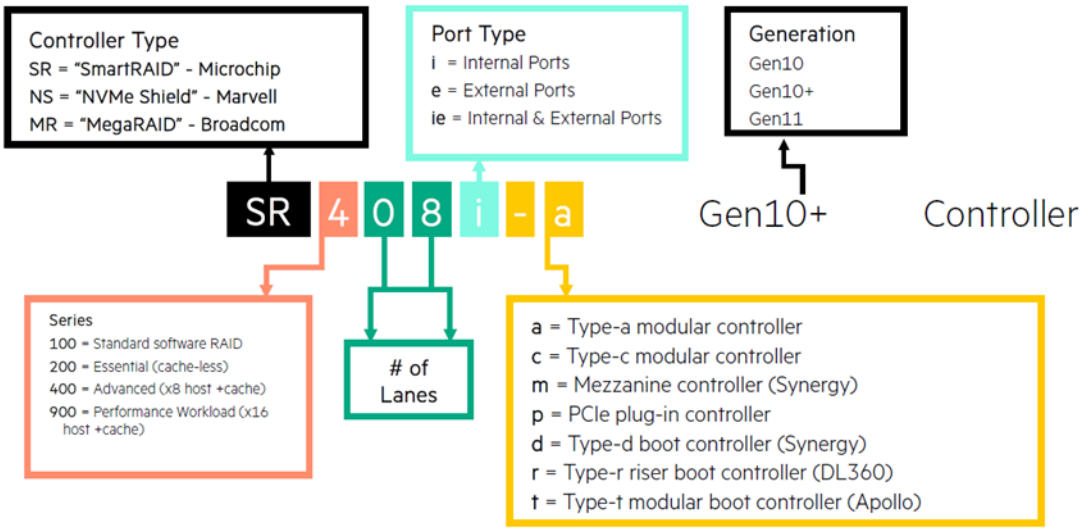
HPE SR100i Gen10 Plus FIO Software RAID	P28417-B21

Notes: Requires UEFI, not supported on Legacy Mode.

HPE Smart Array Controllers



Additional Options



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

Notes:

- Does not occupy a PCIe expansion slot and includes SmartCache license.
- The P816i-a cable ships in the 12LFF chassis only.

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

Notes: Does not occupy a PCIe expansion slot.

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

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

Essential RAID Controllers

HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804394-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-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller 804326-B21

Notes: Does not occupy a PCIe expansion slot.

SmartRAID Gen10 Plus Controllers

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

Notes:

- This card should only be supported on a x16 electrical PCIe slot. For PCIe slot information, refer to the "Expansion Slots" section in this document
- This controller can support below Drive Cages
  - 8SFF NVME x1 U.3 drive cage (P27194-B21)
  - 8SFF NVME x4 U.3 drive cage (P26931-B21)
  - 8SFF NVME x4 U.2 drive cage (P26932-B21)

Microchip SmartRAID SR416i-a x16 Lanes 4GB Cache NVMe/SAS 24G Controller for HPE Gen10 Plus P12688-B21

MegaRAID Gen10 Plus Controllers

HPE MR416i-p Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller P06367-B21

HPE MR416i-a Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller P26279-B21

HPE MR216i-p Gen10 Plus x16 Lanes without Cache NVMe/SAS 12G Controller P26324-B21

HPE MR216i-a Gen10 Plus x16 Lanes without Cache NVMe/SAS 12G Controller P26325-B21

Notes: If one of these controllers P816i-a/ P408e-p/P408i-a/P408i-p/SR932i-p/MR416i-p/MR416i-a/SR416i-a is selected then either 96W Smart Storage Battery (P01366-B21) or Smart Hybrid Capacitor (P02377-B21) must be selected. Max = 1 Storage Battery/ Capacitors per server.

Additional Options

HPE Cable Options

HPE ProLiant DL345 Gen10 Plus Tri-Mode Premium Cable Kit P38657-B21

Notes:
- If one q'ty of 8SFF NVMe x4 U.3 drive cage is selected, then this cable kit must be selected
- If one or two q'ty of 8SFF NVMe x4 U.2 drive cage is selected, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 8NVMe Direct Attach FIO Cable Kit P38659-B21

Notes:
- If one q'ty of 8SFF NVMe x4 U.3 drive cage is selected and NVMe drives are direct attach, then this cable kit must be selected
- If one q'ty of 8SFF NVMe x4 U.2 drive cage is selected and NVMe drives are direct attach, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 16NVMe Direct Attach FIO Cable Kit P38660-B21

Notes:
- If two q'ty of 8SFF NVMe x4 U.3 drive cage is selected and NVMe drives are direct attach, then this cable kit must be selected
- If two q'ty of 8SFF NVMe x4 U.2 drive cage is selected and NVMe drives are direct attach, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 24NVMe Direct Attach FIO Cable Kit P38661-B21

Notes: If three q'ty of 8SFF NVMe x4 U.3 or 8SFF NVMe x4 U.2 are selected and NVMe drives are direct attach, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus Smart Storage Battery Cable Kit P38630-B21

Notes: Max=3, this option can be selected only with either 96W Smart Storage Battery or Smart Hybrid Capacitor

HPE ProLiant DL345 Gen10 Plus 8SFF SATA Box 3 Cable Kit P39720-B21

Notes: If 8SFF CTO chassis is selected and drives are direct attach, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 8SFF SAS/SATA Box 3 Cable Kit P39722-B21

Notes: If 8SFF CTO chassis is selected and PCIe smart array controller is in use, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 8SFF AROC x8 SAS/SATA Box 3 Cable Kit P39723-B21

Notes: If 8SFF CTO chassis is selected and AROC smart array controller is in use, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 8SFF AROC x16 SAS/SATA Box 1-3 Cable Kit P39726-B21

Notes: If 8SFF CTO chassis and 8SFF Bay1/2 drive cage are selected with an AROC smart array controller in use, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 8LFF Embedded SATA Cable Kit P39728-B21

Notes: If 8LFF CTO chassis is selected and drives are direct attach, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 8LFF Smart Array SAS/SATA Cable Kit P39730-B21

Notes: If 8LFF CTO chassis is selected and AROC smart array controller is in use, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 2SFF SAS/SATA Rear Cable Kit P40652-B21

Notes: If 2SFF U.3 drive cage is selected and SAS/SATA drives are selected with it, then this cable kit must be selected

HPE ProLiant DL345 Gen10 Plus 2SFF NVMe Cable Kit P40654-B21

Notes: If 2SFF U.3 drive cage is selected and NVMe U.3 drives are selected with it, then this cable kit must be selected

Additional Options

HPE ProLiant DL325 Gen10 Plus v2/DL345 Gen10 Plus OCP Upgrade Cable Kit	P39732-B21
Notes: OCP Upgrade Kit (P39732-B21) must be selected If any of the below option is selected: – HPE 10/25GbE 2p SFP28 MCX562A OCP3 Adapter (P10112-B21) – HPE IB HDR/EN 200Gb 2p QSFP56 OCP3 Adapter (P31348-B21) – HPE IB HDR/EN 200Gb 1p QSFP56 OCP3 Adapter (P31323-B21) – INT E810 100GbE 2p QSFP28 OCP3 Adapter (P22767-B21)	
HPE ProLiant DL300 Gen10 Plus 2U x2 Tri-Mode Cable Kit	P36203-B21
Notes: This cable provides x1 or x2 connection to configurations with either one or two 8SFF NVMe x4 U.3 drive cage(s) selected	
HPE ProLiant DL38x LFF SAS/SATA Tri-Mode Cable Kit	P58900-B21
Notes: If 8SFF Model-X and 8SFF UBM2/TM drive cage (P55516-B21) are in the order, then this cable kit must be selected.	
HPE ProLiant DL38x Gen10 Plus 2SFF Rear Tri-Mode Cable Kit	P55471-B21
Notes: this cable kit can be selected with 24SFF Model-X only	
HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit	P02377-B21
Notes: 1 of either Smart Storage Battery (P01366-B21) or Smart Hybrid Capacitor (P02377-B21) can be selected in the order	
HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21
Notes: 1 of either Smart Storage Battery (P01366-B21) or Smart Hybrid Capacitor (P02377-B21) can be selected in the order	
HPE DL3XX Gen10 Rear Serial Cable and Enablement Kit	873770-B21

HPE Disk-Based Backup

HPE RDX External Docking Station	C8S07B

HPE Racks

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

HPE Power Distribution Units (PDUs)

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

HPE Uninterruptible Power Systems (UPS)

- To learn more, please visit the **HPE Uninterruptible Power Systems (UPS) web page.**
- Please see the **HPE 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.

Additional Options

HPE Rack Options

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

Rail Kits

Notes:

- HPE rail kits are designed to work with HPE racks in compliance with industry standard EIA-310-E. In the event a customer elects to purchase a third-party rack for use with an HPE rail kit, any such use is at customer's own risk. HPE makes no express or implied warranties with respect to such third-party racks and specifically disclaims any implied warranties of merchantability and fitness for a particular purpose. Furthermore, HPE has no obligation and assumes no liability for the materials, design, specifications, installation, safety, and compatibility of any such third-party racks with any rail kits, including HPE rail kits.
- Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.
- To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (695539-001).
- Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
- CTO Models do not ship with rail kits, they need to be ordered separately

HPE DL38X Gen10 Plus 2U SFF Easy Install Rail Kit	P22018-B21

Notes: Supported on SFF Model only

HPE DL38X Gen10 Plus 2U LFF Easy Install Rail Kit	P22019-B21

Notes: Supported on LFF Model only

HPE DL38X Gen10 Plus 2U Cable Management Arm for Rail Kit	P22020-B21

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HPE 32GB microSD RAID 1 USB Boot Drive	P21868-B21

Notes: In vSphere 7.0, VMware made changes that impact the use of an SD Card/USB media as a standalone boot device and will be removing support for them after version 7.x.
SD Card/USB media can still be used as a standalone boot option through all 7.x releases via published Customer Advisory **Usage of SD Card/USB Devices As Standalone Boot Devices Has Changed Due to System Storage Changes For VMware ESXi 7.0 (Or Later).**
For any major release beyond VMware ESXi 7.x, VMware will require M.2 or another local persistent device as the standalone boot option.

HPE Support Services

Installation & Startup Services

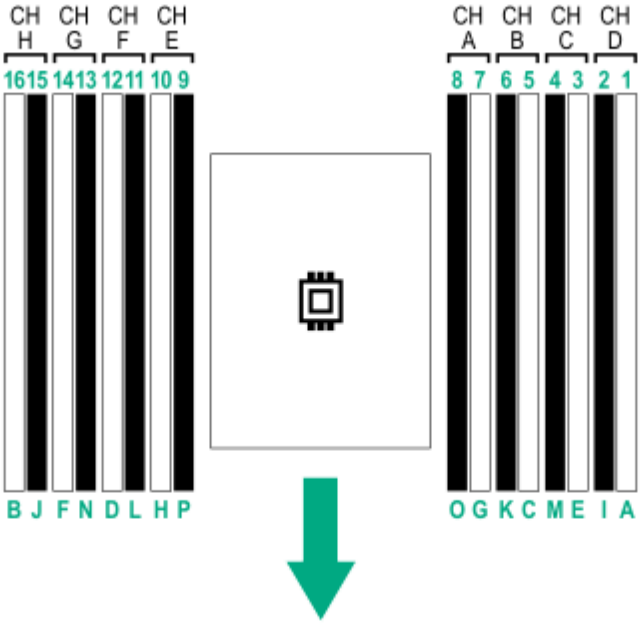
HPE ProLiant DL/ML Install Service	U4554E
HPE ProLiant DL/ML Startup Service	U4555E

Tech Care

HPE 3 Year Tech Care Essential ProLiant DL345 Gen10 Plus Service	HY5K1E
HPE 3 Year Tech Care Essential wDMR ProLiant DL345 Gen10 Plus Service	HY5K2E
HPE 5 Year Tech Care Essential ProLiant DL345 Gen10 Plus Service	HY5M5E
HPE 5 Year Tech Care Essential wDMR ProLiant DL345 Gen10 Plus Service	HY5M6E

Notes: For a full listing of Support Services available for this server, please visit **http://www.hpe.com/services.**

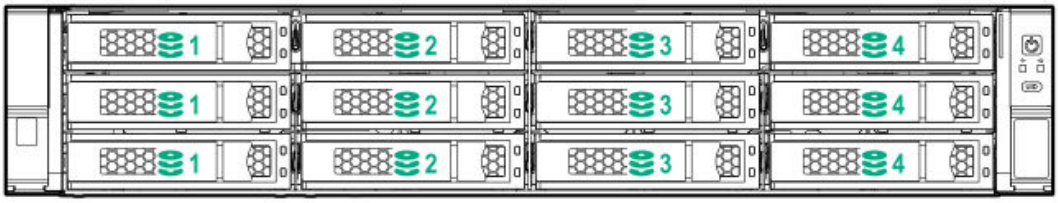
Memory



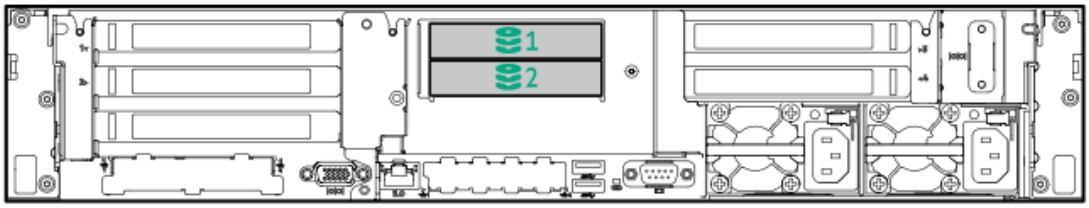
General Memory Population Rules and Guidelines:

- Install DIMMs only if the corresponding processor is installed.
- To maximize performance, it is recommended to balance the total memory capacity between all installed 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: **https://www.hpe.com/docs/amd-population-rules-Gen10plus**
- 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**
- For details on the HPE Server Memory speed, visit: **http://www.hpe.com/docs/amd-speed-tables**

Storage



12 LFF Front Panel



Rear Panel + rear 2 SFF drives



24 SFF Front Panel

Technical Specifications

System Unit

Dimensions

- **SFF Drives**
  8.75 x 44.54 x 71.1 cm 3.44 x 17.54 x 28 in
- **LFF Drives:**
  8.75 x 44.54 x 74.9 cm 3.44 x 17.54 x 29.5 in

Weight (approximate)

- **SFF configuration**
  - **Minimum:** 16.33 kg / 36.00 lbs. with 2 hard drives
    (8 SFF chassis with 6x HDD blanks, 2x Drive Bay blanks, 1x processor including standard heatsink, 1x DIMM, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above)
  - **Maximum:** 23.1 kg / 50.93 lbs. with 24 hard drives
    (24 SFF hard drives, 1x processor including standard heatsink,16x DIMMs, 2x power supplies, 1x Smart Array, 2x Risers installed, cables for the above)
- **LFF Configuration**
  - **Minimum** 22.1 kg / 48.72 lbs. with 2 hard drives
    (8 LFF chassis with 6x HDD blanks, 4x LFF HDD Bay blanks, 1x processor including standard heatsink, 1x DIMM, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above)
  - **Maximum** 26.12 kg / 57.58 lbs. with 12 hard drives
    (12 LFF hard drives (no rear drives), 1x processor including standard heatsink, 16x DIMMs, 2x power supplies, 1x Smart Array, 2x Risers installed, cables for the above)

Input Requirements (per power supply)

Rated Line Voltage

- 100 to 120 VAC
- 200 to 240 VAC

BTU Rating

Maximum

- For 1600W Power Supply: 5918 BTU/hr. (at 200 VAC), 5884 BTU/hr. (at 240 VAC) for China
- 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
- For 500W Power Supply: 1979 BTU/hr. (at 100 VAC), 1911 BTU/hr. (at 200 VAC), 1965 BTU/hr. (at 240 VAC) for China Only

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Power Supply Output (per power supply)

Rated Steady-State Power

- For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VAC)
- For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only
- For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only

Maximum Peak Power

- For 1600W Power Supply: 1600W (at 200 to 240 1VAC), 1600W (at 240 VAC) input for China only
- For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only
- For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only

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Technical Specifications

System Inlet Temperature

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

  System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).
- **Extended Ambient Operating Temperature**
  For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft.) above 900 m (2953 ft.) to a maximum of 3050 m (10,000 ft.). The approved hardware configurations for this system are listed at the URL:**http://www.hpe.com/servers/ashrae**

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

Relative Humidity

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

RTC Accuracy

- 50 ppm

Emissions Classification (EMC) – Regulatory Information

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

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)

Technical Specifications

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.

Idle	
LWAd	4.9 B Entry 5.0 B Base
LpAm	31 dBA Entry 32 dBA Base
Operating	
LWAd	5.1 B Entry 5.3 B Base
LpAm	34 dBA Entry 35 dBA Base

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.
- Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.
- The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

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
02-Dec-2024	Version 34	Changed	Core Options and Additional Options sections were updated. (Removed Obsolete HDD SKUs added NVMe SFFs and HPE Tape Backup verbiage was added).
07-Oct-2024	Version 33	Changed	Core Options Section was updated. (10/25 Gigabit Ethernet adapters and 100/200 Gigabit Ethernet adapters were added. Storage Offload Adapters and one HPE InfiniBand SKU was removed)
03-Sep-2024	Version 32	Changed	Standard Features (Operating Systems and Virtualization Software Support for HPE Servers) section was updated.
05-Aug-2024	Version 31	Changed	Core Options and Additional Options sections were updated.
01-Jul-2024	Version 30	Changed	Core Options section was updated.
03-Jun-2024	Version 29	Changed	Standard Features, Pre-Configured Models and Configuration Information sections were updated.
15-Apr-2024	Version 28	Changed	Pre-Configured Models section was updated.
01-Apr-2024	Version 27	Changed	Standard Features and Core Options sections were updated.
04-Mar-2024	Version 26	Changed	Standard Features, Core Options and Additional Options sections were updated.
04-Dec-2023	Version 25	Changed	Configuration Information and Additional Options sections were updated.
06-Nov-2023	Version 24	Changed	Standard Features, Service and Support, Configuration Information, and Core Options sections were updated
02-Oct-2023	Version 23	Changed	Overview, Standard Features, Service and Support, Pre-Configured Models, Configuration Information, Core Options and Additional Options sections were updated.
11-Sep-2023	Version 22	Changed	Standard Features, Configuration Information, Core Options, and Additional Options sections were updated
05-Jun-2023	Version 21	Changed	Core Options Section was updated.
01-May-2023	Version 20	Changed	Optional Features and Additional Options sections were updated.
17-Apr-2023	Version 19	Changed	Overview and Core Options sections were updated.
10-Jan-2023	Version 18	Changed	Standard Features and Core Options sections were updated. Obsolete SKUs were removed.
05-Dec-2022	Version 17	Changed	Core Options section was updated.
07-Nov-2022	Version 16	Changed	Standard Features, Optional Features, Additional Options and Core Options sections were updated. Obsolete SKUs were removed.
19-Sep-2022	Version 15	Changed	Standard Features and Core Options sections were updated. Obsolete SKUs were removed.
01-Aug-2022	Version 14	Changed	Configuration Information and Core Options sections were updated. Obsolete SKUs were removed.
05-Jul-2022	Version 13	Changed	Standard Features, Core Options and Additional Options sections were updated. Obsolete SKUs were removed.
06-Jun-2022	Version 12	Changed	Core Options section was updated.
02-May-2022	Version 11	Changed	Core Options section was updated. Obsolete SKUs were removed.
07-Mar-2022	Version 10	Changed	Configuration Information section was updated.
07-Feb-2022	Version 9	Changed	Standard Features section was updated. Obsolete SKUs were removed.
06-Dec-2021	Version 8	Changed	Configuration Information, Core Options and Additional Options sections were updated. Obsolete SKUs were removed.
01-Nov-2021	Version 7	Changed	Standard Features, Core Options, Service and Support and Additional Options sections were updated.
07-Sep-2021	Version 6	Changed	Overview and Core Options sections were updated. Obsolete SKUs were removed.

Summary of Changes

Date	Version History	Action	Description of Change
02-Aug-2021	Version 5	Changed	Configuration Information and Core Options sections were updated.
06-Jul-2021	Version 4	Changed	Standard Features and Core Options sections were updated. Obsolete SKUs were removed.
07-Jun-2021	Version 3	Changed	Standard Features, Pre-configured Models, Configuration Information and Core Options sections were updated.
10-May-2021	Version 2	Changed	Standard Features, Configuration Information and Core Options sections were updated.
19-Apr-2021	Version 1	New	New QuickSpecs.

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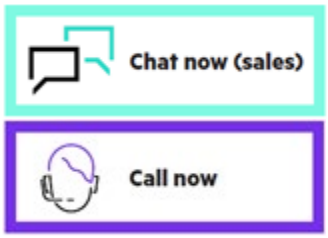

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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less

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