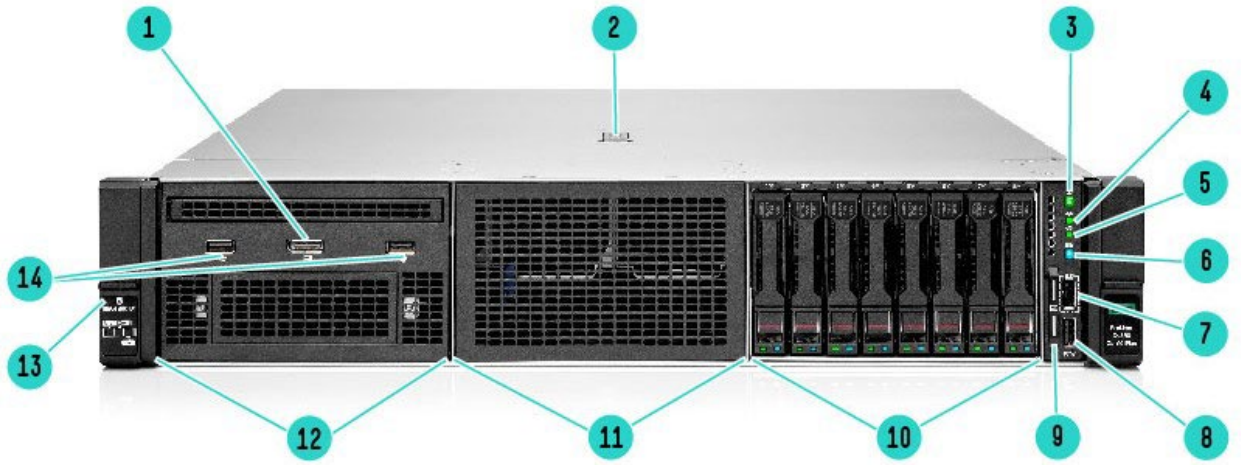
Overview

HPE ProLiant DL380 Gen10 Plus Server

Adaptable for diverse workloads and environments, the secure 2P 2U HPE ProLiant DL380 Gen10 Plus delivers world-class performance with the right balance of expandability and scalability. Designed for supreme versatility and resiliency while being backed by a comprehensive warranty make it ideal for multiple environments from Containers to Cloud to Big Data. Standardize on the industry's most trusted compute platform.



Front View – SFF chassis with optional Universal Media Bay shown

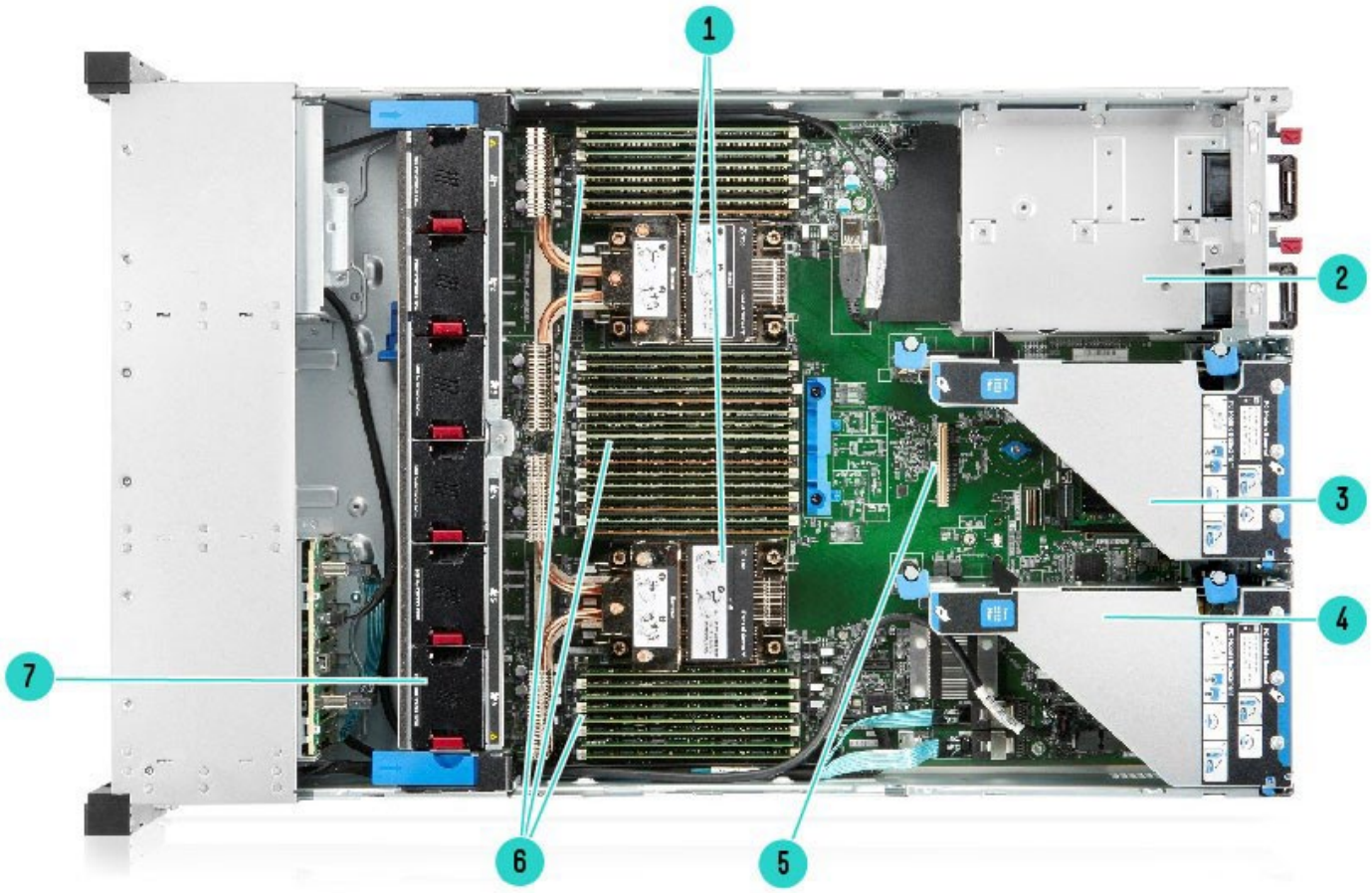
1. Optional front display port (Via Universal Media Bay)
2. Quick removal access panel
3. Power On/Standby button and system power LED
4. Health LED
5. NIC status LED
6. UID button/LED
7. iLO Service Port
8. USB 3.0
9. Serial number label pull tab
10. Box 3 - 8 SFF Drive Cage Bay
11. Box 2 - Optional 8 SFF Drive Cage Bay
12. Box 1 - Universal Media Bay (optional):
13. Drive support label
14. Optional USB 2.0 (via Universal Media Bay)

Overview

Front View – 12LFF chassis shown

1. Health Status
2. Power On/Standby button and system power LED button
3. NIC Status
4. UID button/LED
5. 12 x LFF media
6. Drive support label
7. Quick removal access panel

Overview



Internal View 8SFF chassis

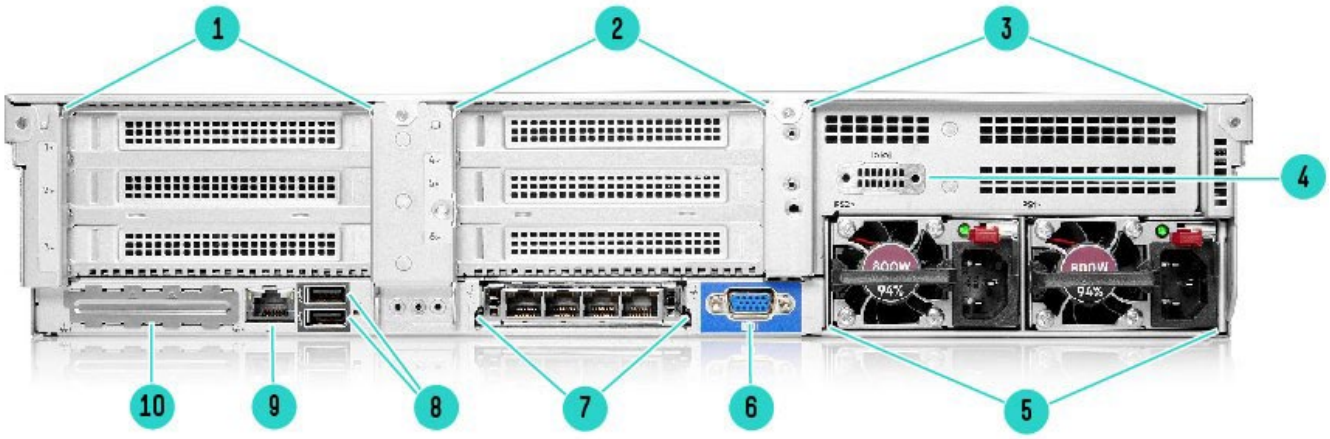
1. 2 Processors, heatsink showing
2. Hot Plug redundant HPE Flexible Slot Power supplies
3. Second (optional) riser (Requires second CPU)
4. Primary riser
5. Smart Array connector
6. DDR DIMM Slots[1]
7. Hot plug fans (6 single rotor standard)[2]

Notes:

– [1]Shown fully populated in 32 slots (16 per processor)

– [2]High performance temperature fans optional

Overview



Rear View – Standard for all DL380 Gen10 Plus

1. Primary Riser. PCIe 4.0 Slots (Slots 1-3)
2. Secondary Riser. PCIe 4.0 Slots (Slots 4-6)
3.. Tertiary Riser (Slots 7-8).
4. Optional serial port
5. Power Supply 1 and 2
6. VGA connector
7. OCP NIC ports (if equipped)[1]
8. USB connectors 3.0 (2)
9. Dedicated ILO Management Port
10. Blank cover, not available for use

Notes: [1]Supports various NICs, up to 200GbE.

What's New

- New Pre-configured SKUs using Broadcom Tri-mode controllers
- New Pre-configured SKU using HPE SR100i Gen10 Plus FIO Software RAID/VROC SATA controller
- HPE NVMe Gen4 High Performance Low Latency Write Intensive SFF BC U.2 P5800X SSD drives
- HPE Slingshot SA210S Ethernet 200Gb 1-port PCIe NIC

Overview

Platform Information

Form Factor

- 2U rack

Chassis Types

- 8SFF (SAS/SATA) with optional SFF Universal Media Bay (P14609-B21), 8SFF midtray, and/or up to 6SFF rear drive bay options
- 24SFF bay (SAS/SATA) with optional 8SFF mid tray drives and/or up to 6SFF rear drive bay options to a total 38 SFF drives
- 8LFF with Universal Media Bay (standard), supporting 2SFF front, optional 8SFF mid tray or 4LFF mid tray, and up to 4LFF rear or 6SFF rear drive bay options
- 12LFF with optional 4LFF mid tray and up to 4LFF rear for a total 20LFF drives

Notes:

- The 8SFF chassis can be upgraded to support up to 24SFF (front) with a variety of 8SFF Drive Cages to select from, including 8SFF U.2 NVMe, 8SFF U.3 x4/x2 Trimode, 8SFF U.3 (x1 Trimode), and 8SFF SAS/SATA. See “Drive Cages” section within this document for options.
- The 8SFF chassis comes with an 8SFF SAS/SATA drive bay by default in bay 3. This can be replaced with other 8SFF drive bay options by selecting 8SFF Front Bay 3 Cage/Backplane Removal FIO Option (873763-B21) and then selecting a different 8SFF Drive Cage. See “Drive Cages” section within this document for options.
- The Universal Media Bay (P14609-B21) is only available as an option for the 8SFF chassis and can only be populated in Box 1.
- The 2 LFF primary and 2LFF secondary rear cages will consume all PCIe slots for the primary and secondary riser, respectively
- The 8 LFF chassis cannot be upgraded to 12 LFF front in the field.

System Fans

- Standard – fan types included

Notes:

- On SFF Chassis only, 1P models ship with 4 standard fans. If a second processor (quantity 2 of CPU) is added, then Qty 1 Standard Fan Kit (P37042-B21) must be selected, which includes the additional 2 standard fans. However if Maximum Performance Fan Kit (P14608-B21) is selected – either for better cooling performance or due to the population of certain options that require it - then Standard Fan Kit (P37042-B21) need not be selected.
- The 12 LFF and 24 SFF chassis ship with 6 performance fans as standard.
- The 8 LFF chassis ships with 6 standard fans as standard. The population of certain options may require up
- The Maximum Performance fan kit (P14608-B21) is available to meet ambient temperature environments.
- In general, the Maximum Performance fan kit is required when rear drives, or >205W Processors SKUs, or Intel Optane Persistent Memory, or High Performance NVMe drives, or certain backplanes are populated. See notes under each option category or each individual option for specifics.

Standard Features

Processors – Up to 2 of the following depending on model.
The 2nd digit of the processor model number "x3xx" is used to denote the processor generation (i.e. 3=3rd generation Intel Scalable Series Processors)
Notes: Field upgrades from 1st generation processors (x1xx) and/or 2nd generation processors (x2xx) not supported.
"U" processors (i.e. 63xxU) only supported in single-socket configurations.
Processors with TDP equal to or greater than 150W require High Performance Heatsink (P27095-B21)

For more information regarding Intel Xeon processors, please see the following **http://www.intel.com/xeon.**

This table covers the public Intel offering only.

Intel Xeon processors		
Processor Suffix	**Description**	**Offering**
N	NFV Optimized	Targeted at Network Function Virtualization (NFV) workloads. Intel® SST-BF improves performance by directing base frequency to high priority/bottleneck cores. Other workloads may see throttling, more details to be provided in upcoming documentation.
S	Search Optimized	Optimized base frequency to address 'search' workloads. Other workloads may see throttling, more details to be provided in upcoming documentation.
U	1 Socket Optimized	Focused on single socket (1P) configurations, delivering performance at competitive price points. Does not support two socket (2P) arrangements.
V	VM Optimized	Fosters enhanced VM density, allowing to support more/largervirtual machines per host.
Y	Speed Select	Intel® SST-PP increases base frequency when fewer cores are enabled. Allows greater flexibility, deployment options and platform longevity.

Notes: More than 1.5 TB memory per socket requires memory higher than 128 GB capacity. Also, DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.

3rd Generation Intel® Xeon® Scalable Processor Family							
Intel Xeon Models	**CPU Frequency**	**Cores**	**L3 Cache (MB)**	**Power**	**UPI**	**DDR4**	**SGX Enclave size**
Platinum 8352Y Processor	2.2GHz	32	48	205W	3 @ 11.2 GT/s	3200 MT/s	64GB
Platinum 8358 Processor	2.6GHz	32	48	250W	3 @ 11.2 GT/s	3200 MT/s	64GB
Platinum 8360Y Processor	2.4GHz	36	54	250W	3 @ 11.2 GT/s	3200 MT/s	64GB
Platinum 8368 Processor[5]	2.4GHz	38	57	270W	3 @ 11.2 GT/s	3200 MT/s	512GB
Platinum 8380 Processor	2.3GHz	40	60	270W	3 @ 11.2 GT/s	3200 MT/s	512GB
Platinum 8362 Processor[4]	2.8 GHz	32	48 MB	265W	3 @ 11.2 GT/s	3200 MT/s	64GB
Platinum 8358P Processor[1]	2.6GHz	32	48	240W	3 @ 11.2 GT/s	3200 MT/s	8GB
Platinum 8352V Processor[1,2]	2.1GHz	36	54	195W	3 @ 11.2 GT/s	3200 MT/s	8GB
Platinum 8351N Processor[3]	2.4GHz	36	54	225W	3 @ 11.2 GT/s	3200 MT/s	64GB
Platinum 8352S Processor[2]	2.2GHz	32	48	205W	3 @ 11.2 GT/s	3200 MT/s	512GB
Platinum 8352M Processor[2,4,6] 2.3 GHz[6] 2.4 GHz 2.6 GHz	32[6] 28 24	48 MB	185W[4] 185W 185W	3 @ 11.2 GT/s	3200 MT/s	64GB

Notes:
- Processors do not ship with heatsinks, these must be ordered separately.
- Processors with TDP equal to or greater than 150W require High Performance Heatsink (P27095-B21)
- 8-Channel DDR4 @ 3200 MT/s (lower DDR4 speed may be used in segment optimized processors (i.e. Cloud, NFV, etc).

Standard Features

- 4TB max RAM per socket.Support for Intel Optane Persistent Memory 200 Series, enabling up to 6TB memory per socket (does not work with SGX).
- 2 socket capable, 3 UPI @ 11.2 GT/s.
- 64 Features: Advanced RAS (except 8358P), AVX-512 2 FMA, TME-MT 64 keys.
- Speed Select Performance Profile processors ("Y") default to values in bold.
- [1]Deterministic base frequency rating only applicable to VM workloads. Other workloads may see throttling.
- [2]Supports Intel® Speed Select Performance Profile (SST-P), even though not being a "Y" processor.
- [3]Single socket capable even though not being a "U" processor. No dual socket support.
- [4]Does not support Intel Speed Select Technology – Base Frequency (SST-BF).
- [5]Does not support Sub-NUMA 2 (SNC2).
- [6]Default Speed Select Performance Profile value.
- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.

3rd Generation Intel® Xeon® Scalable Processor Family							
Intel Xeon Models	**CPU Frequency**	**Cores**	**L3 Cache (MB)**	**Power**	**UPI**	**DDR4**	**SGX Enclave size**
Gold 6354 Processor	3.0 GHz	18	39 MB	205W	3 @ 11.2 GT/s	3200 MT/s	64GB
Gold 6348 Processor	2.6 GHz	28	42 MB	235W	3 @ 11.2 GT/s	3200 MT/s	64GB
Gold 6346 Processor	3.1 GHz	16	36 MB	205W	3 @ 11.2 GT/s	3200 MT/s	64GB
Gold 6338N Processor[1]	2.2 GHz	32	48 MB	185W	3 @ 11.2 GT/s	2667 MT/s	64GB
Gold 6338 Processor	2.0 GHz	32	48 MB	205W	3 @ 11.2 GT/s	3200 MT/s	64GB
Gold 6330N Processor[1]	2.2 GHz	28	42 MB	165W	3 @ 11.2 GT/s	2667 MT/s	64GB
Gold 6330 Processor	2.0 GHz	28	42 MB	205W	3 @ 11.2 GT/s	2933 MT/s	64GB
Gold 6326 Processor	2.9 GHz	16	24 MB	185W	3 @ 11.2 GT/s	3200 MT/s	64GB
Gold 6342 Processor	2.8 GHz	24	36 MB	230W	3 @ 11.2 GT/s	3200 MT/s	64GB
Gold 6336Y Processor	2.4 GHz 2.9 GHz 3.1 GHz	24 12 8	36 MB	185W 150W 150W	3 @ 11.2 GT/s	3200 MT/s	64GB
Gold 6334 Processor	3.6 GHz	8	18 MB	165W	3 @ 11.2 GT/s	3200 MT/s	64GB
Gold 6314U Processor[2]	2.3 GHz	32	48 MB	205W	N/A	3200 MT/s	64GB
Gold 6312U Processor[2]	2.4 GHz	24	36 MB	185W	N/A	3200 MT/s	64GB

Notes:

- Processors do not ship with heatsinks; these must be ordered separately.
- Processors with TDP equal to or greater than 150W require High Performance Heatsink (P27095-B21)
- 8-Channel DDR4 @ 3200 MT/s (lower DDR4 speed may be used in segment optimized processors (i.e. Cloud, NFV, etc).
- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.
- Support for Intel Optane Persistent Memory 200 Series, enabling up to 6TB memory per socket (does not work with SGX).
- 2 socket capable, 3 UPI @ 11.2 GT/s.
- 64 lanes PCIe 4.0, advanced RAS. Features: Advanced RAS, AVX-512 2 FMA, TME-MT 64 keys.
- [1]Deterministic base frequency rating only applicable for NFV workloads. Other workloads may see throttling.
- [2]Single socket capable, no dual socket support

3rd Generation Intel® Xeon® Scalable Processor Family							
Intel Xeon Models	**CPU Frequency**	**Cores**	**L3 Cache**	**Power**	**UPI**	**DDR4**	**SGX Enclave size**
Gold 5320 Processor	2.2 GHz	26	39 MB	185W	3 @ 11.2 GT/s	2933 MT/s	64GB
Gold 5318Y Processor	2.1 GHz[3] 1.9GHz[4] 2.0GHz[5]	24[3] 24 22	36 MB	165W[3] 150W[4] 150W[5]	3 @ 11.2 GT/s	2933 MT/s	64GB

Standard Features

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	SGX Enclave size
Gold 5318S Processor[1]	2.1 GHz[3] 1.9GHz 2.0GHz	24[3] 24 22	36 MB	165W[3] 150W 150W	3 @ 11.2 GT/s	2933 MT/s	512GB
Gold 5318N Processor[1,2]	2.1 GHz[3] 2.0GHz	24[3] 20	36 MB	150W[3] 135W	3 @ 11.2 GT/s	2667 MT/s	64GB
Gold 5317 Processor	3.0 GHz	12	18 MB	150W	3 @ 11.2 GT/s	2933 MT/s	64GB
Gold 5315Y Processor	3.2 GHz[3] 3.2GHz 3.4GHz	8[3] 6 4	12 MB	140W[3] 125W 115W	3 @ 11.2 GT/s	2933 MT/s	64GB

Notes:

- Processors do not ship with heatsinks, these must be ordered separately.
- Processors with TDP equal to or greater than 150W require High Performance Heatsink (P27095-B21)
- 8-channel DDR4 @ 2933 MT/s (lower DDR4 speed may be used in segment optimized processors (i.e. NFV, etc).
- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.
- Support for Intel Optane Persistent Memory 200 Series, enabling up to 6TB memory per socket (does not work with SGX).
- 2 sockets capable, 3 UPI @ 11.2 GT/s.
- Advanced RAS, AVX-512 2 FMA, SGX 64GB, TME-MT 64 keys.
- [1]Supports Intel® Speed Select Performance Profile (SST-P), even though not being a "Y" processor.
- [2]Deterministic base frequency rating only applicable for NFV workloads. Other workloads may see throttling.
- [3]Default Speed Select Performance Profile value.
- [4] Speed Select 2nd configuration profile.
- [5] Speed Select 3rd configuration profile.

3rd Generation Intel® Xeon® Scalable Processor Family							
Intel Xeon Models	**CPU Frequency**	**Cores**	**L3 Cache**	**Power**	**UPI**	**DDR4**	**SGX Enclave size**
Silver 4316 Processor	2.3 GHz	20	30 MB	150W	2 @ 10.4 GT/s	2667 MT/s	8GB
Silver 4314 Processor[1]	2.4 GHz	16	24 MB	135W	2 @ 10.4 GT/s	2667 MT/s	8GB
Silver 4310 Processor	2.1 GHz	12	18 MB	120W	2 @ 10.4 GT/s	2667 MT/s	8GB
Silver 4309Y Processor	2.8 GHz[2] 2.6GHz 2.3GHz	8[2] 8 8	12 MB	105W[2] 95W 85W	2 @ 10.4 GT/s	2667 MT/s	8GB

Notes:

- Processors do not ship with heatsinks, these must be ordered separately.
- Processors with TDP equal to or greater than 150W require High Performance Heatsink (P27095-B21)
- 8-channel DDR4 @ 2667 MT/s.
- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.
- 2 sockets capable, 2 UPI @ 10.4 GT/s.
- Standard RAS, AVX-512 2 FMA, SGX 8GB, TME-MT 64 keys.
- [1]Supports Intel Optane Persistent Memory 200 Series, enabling up to 6TB memory per socket (does not work with SGX).
- [2]Default Speed Select Performance Profile value.

Chipset

Intel C621A Chipset

Notes: For more information regarding Intel® chipsets, please see the following URL:
https://www.intel.com/content/www/us/en/products/chipsets/server-chipsets.html

Standard Features

On System Management Chipset

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

Memory

One of the following depending on model.

Type	HPE DDR4 Smart Memory, Registered (RDIMM)
DIMM Slots Available	32 16 DIMM slots per processor, 8channels per processor, 2 DIMMs per channel
Maximum capacity (LRDIMM)	8.0 TB 32 x 256 GB LRDIMM @ 3200 MT/s
Maximum capacity (RDIMM)	2.0 TB 32 x 64 GB RDIMM @ 3200 MT/s
Maximum capacity (Intel Optane Persistent Memory for HPE)	8.0 TB 16 X 512 GB Memory Modules

Notes: The maximum memory speed is limited by the processor selection. Also, DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.

Expansion Slots

Primary Riser

Notes:

- Bus width indicates the number of physical electrical lanes running to the connector.
- There are 3 types of risers supported on Primary Slot
- x16 cards installed on x8 slots could observe sub-optimal performance.

Primary Riser1					
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**	**Notes**
1	PCIe 4.0	X8	X16	Full-height,full-length slot	Proc 1
2	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 1
3	PCIe 4.0	X8	X16	Full-height,half-length slot	Proc 1

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

Primary Riser3					
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**	**Notes**
1**	NA	NA	NA	NA	NA
1	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 1
2	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 1
3	PCIe 4.0	X16	X16	Full-height,half-length slot	Proc 1

Notes: ** Default Slot1 on the Primary Riser3 is empty and not available.It requires P14600-B21 in conjunction with the Primary Riser3 to add additional x16 PCIe Gen4 in slot1.

Standard Features

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
- x16 cards installed on x8 slots could observe sub-optimal performance.

Secondary Riser1					
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**	**Notes**
4	PCIe 4.0	X8	X16	Full-height,full-length slot	Proc 2
5	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 2
6	PCIe 4.0	X8	X16	Full-height,half-length slot	Proc 2

Secondary Riser2					
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**	**Notes**
4	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 2
5	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 2
6	NA	NA	NA	NA	NA

Secondary Riser3					
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**	**Notes**
4*	NA	NA	NA	NA	NA
4	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 2
5	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 2
6	PCIe 4.0	X16	X16	Full-height,half-length slot	Proc 2

Notes: * Default Slot4 on the Secondary Riser3 is empty and not available.It requires P14600-B21 in conjunction with the Secondary Riser3 to add additional x16 PCIe Gen4 in slot4

Tertiary Riser:

Notes:

- Bus Width Indicates the number of physical electrical lanes running to the connector.
- There are 2 types of risers support on Tertiary Slot
- x16 cards installed on x8 slots could observe sub-optimal performance.

Tertiary Riser1					
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**	**Notes**
7	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 2
8	NA	NA	NA	NA	NA

Tertiary Riser2					
Slots #	**Technology**	**Bus Width**	**Connector Width**	**Slot Form Factor**	**Notes**
7	PCIe 4.0	X8	X16	Full-height,full-length slot	Proc 2
8	PCIe 4.0	X8	X16	Full-height,full-length slot	Proc 2

Standard Features

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 HDD	397.8 TB	24+2 x 15.3 TB* (with optional rear SFF drive cage)
Hot Plug SFF SATA HDD	291.84 TB	24+8+6 x 7.68 TB (with optional SFF drive cage)
Hot Plug LFF SAS HDD	360 TB	12+4+4 x 18 TB (with optional mid –tray and rear LFF primary riser drive cage, plus rear LFF tertiary riser drive cage)
Hot Plug LFF SATA HDD	360 TB	12+4+4 x 18 TB (with optional mid –tray and rear LFF primary riser drive cage, plus rear LFF tertiary riser drive cage)
Hot Plug SFF NVMe PCIe SSD	385.92 TB	24 x 15.36TB + 8 x 1.92TB<12W + 2 x 960GB<10W

Notes: *UFF drives are also supported.

Internal Storage Devices

One of the following depending on model

- **Optical Drive**
  Ships standard in Performance Models
  Optional: DVD-ROM, DVD-RW
- **Hard Drives**
  None ship standard

Power Supply

- HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
  Notes: Available in 96% efficiency.
- HPE 1000W Flex Slot Titanium Hot Plug Power Supply
  Notes: 1 available in 96% efficiency.
- HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
  Notes:
  - Available in 94% and 96% efficiency.
  - Also available in -48VDC and 227VAC/380VDC power inputs.

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.

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

Standard Features

Storage Controllers

The Gen10 Plus controller naming framework has been updated to simplify identification as depicted below.

For a more detailed breakout of the available Gen10 Plus Smart Array controllers visit the sites:
HPE Smart Array Gen10 Plus MegaRAID Controllers Data Sheet Or **HPE Smart Array Gen10 Plus SmartRAID Controllers Data Sheet**

One of the following depending on model

Software RAID

- **HPE Smart Storage SR100i Gen10 Plus SW RAID**
  Notes:
  - HPE Smart Array SR100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.
  - HPE Smart Array SR100i SR Gen10 SW RAID is off by default and must be enabled.
  - The SR100i uses 14 embedded SATA ports, but only 12 ports are accessible.
  - The SR100i supports Windows only.
  - Supports up to 2 NVMe drives maximum via system board direct connection only.
  - Does not support CM6, CD6, P4xxx, and PE80xx NVMe drives.
  - For Linux users, HPE offers a solution that uses in-distro open-source software to create a two-disk RAID 1 boot volume. For more information visit: **https://downloads.linux.hpe.com/SDR/project/lsrrb/**
- **Intel® Virtual RAID on CPU (Intel® VROC)**
  Notes: Requires selection of Second Processor.

Essential RAID Controller

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

Performance RAID Controller

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

Notes:
- Performance RAID Controllers require the HPE Smart Hybrid Capacitor (P02377-B21) or the HPE Smart Storage Battery (P01366-B21) which are sold separately.
- For additional details, please see **https://www.hpe.com/psnow/doc/a00047736enw?jumpid=in_hpesitesearch**

Tri-Mode Controller

- HPE MR416i-p Gen10 Plus Controller
- HPE MR416i-a Gen10 Plus 12G Controller
- HPE MR216i-p Gen10 Plus 12G Controller
- HPE MR216i-a Gen10 Plus 12G Controller
- HPE SR932i-p Gen10 Plus Controller[1]
  Notes:
  - PE80xx NVMe drives are not supported.
  - [1]Requires x16 riser slot
- HPE SR416i-a Gen10 Plus Controller
  Notes: PE80xx NVMe drives are not supported.

Standard Features

Interfaces

Serial	Optional, rear
Display Port	1 optional front display port via Universal Media Bay
VGA Port	1 standard, rear for all chassis. 1 Optional front display port (Via Universal Media Bay) **Notes:** Both ports are not active simultaneously.
Network Ports	None standard. Choice of OCP networking card or stand-up networking card required. BTO models will come pre-selected with a primary OCP networking card.
HPE iLO Remote Management Network Port	1 Gb Dedicated, rear
Front iLO Service Port	1 standard (Not available on 12 LFF chassis or when SID is ordered, note iLO dongle required. Hewlett Packard Enterprise recommends the HPE USB to Ethernet Adapter (part number Q7Y55A).)
Micro SD Slot	Optional via HPE 32GB microSD RAID1 USB Boot Device **Notes:** The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.
USB 3.0	Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay, or standard on 8LFF chassis
SID (Systems Insight Display)	Optional **Notes:** Not shipping as standard. Available as a CTO option or as a field upgrade (P27096-B21).

Operating Systems and Virtualization Software Support for ProLiant Servers

- See **HPE Servers Support & Certification Matrices**
  - **Microsoft Windows Server**
  - **VMware ESXi**
  - **Red Hat Enterprise Linux (RHEL)**
  - **SUSE Linux Enterprise Server (SLES)**
  - **Canonical Ubuntu**
  - **Oracle Linux and Oracle VM**
  - **Citrix**

Notes: For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server.
https://www.hpe.com/us/en/servers/server-operating-systems.html

HPE Server UEFI/Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen10 servers have a UEFI Class 2 implementation and support both UEFI Mode (default) and Legacy BIOS Mode.

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

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

- Secure Boot and Secure Start enable for enhanced security
- Embedded UEFI Shell
- Operating system specific functionality
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- Support for > 2.2 TB (using GPT) boot drives
- PXE boot support for IPv6 networks

Standard Features

- USB 3.0 Stack
- Workload Profiles for simple performance optimization

UEFI Boot Mode only:

- TPM 2.0 Support
- iSCSI Software Initiator Support.
- NVMe Boot Support
- HTTP/HTTPs Boot support as a PXE alternative.
- Platform Trust Technology (PTT) can be enabled.
- Boot support for option cards that only support a UEFI option ROM

Notes:

– For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.
– UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen10 Plus Server.

Industry Standard Compliance

- ACPI 6.3 Compliant
- PCIe 4.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- VGA/Display Port
  Notes: This support is on the optional Universal Media Bay.
- USB 3.0 Compliant (internal)
- USB 2.0 Compliant (external ports via SUV)
  Notes: This support is on the optional Universal Media Bay.
- Energy Star 4.0
- SMBIOS 3.2
- Redfish API
- IPMI 2.0
- Secure Digital 4.0
- TPM 1.20 and 2.0 Support
- Advanced Encryption Standard (AES)
- Triple Data Encryption Standard (3DES)
- SNMP v3
- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)
- Active Directory v1.0
- ASHRAE A3/A4
  Notes: For additional technical, thermal details regarding ambient temperature, humidity, and feature support, please visit **http://www.hpe.com/servers/ashrae**
- European Union Erp Lot 9 Regulation
  Notes:
  Beginning on January 1st, 2024, units sold into the European Union (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.

Standard Features

Please visit: **https://www.hpe.com/us/en/about/environment/msds-specs-more.html** for more information regarding HPE Lot 9 conformance.

- UEFI (Unified Extensible Firmware Interface Forum) 2.6
  Notes: UEFI is the default for the DL380 Gen10 Plus. Legacy mode can be selected in the field or as a CTO option (758959-B22); some configuration restrictions apply.

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).

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

Learn more at **http://www.hpe.com/servers/iLOamplifierpack**.

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

Standard Features

RESTful Interface Tool
RESTful Interface tool (iLOREST) is a single scripting tool to provision using iLO RESTful API to discover and deploy servers at scale. Learn more at **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.**

Security
- UEFI Secure Boot and Secure Start support
- Tamper-free updates – components digitally signed and verified
- Immutable Silicon Root of Trust
- Ability to rollback firmware
- FIPS 140-2 validation
- Secure erase of NAND/User data
- Common Criteria certification
- TPM (Trusted Platform Module) 1.2 option
- Configurable for PCI DSS compliance
- TPM (Trusted Platform Module) 2.0 option
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Bezel Locking Kit option
- Support for Commercial National Security Algorithms (CNSA)
- Chassis Intrusion detection option
- Secure Recovery – recover critical firmware to known good state on detection of compromised firmware

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/us/en/search-results.html?page=1&q=servers%20warranty&autocomplete=0

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 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 and Gen10 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**

HPE Insight Cluster Management Utility (CMU)

HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure.

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#

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

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

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

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

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

Service and Support

HPE Services

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

https://www.hpe.com/services

Consulting Services

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

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

HPE Managed Services

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

HPE Managed Services | HPE

Operational services

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

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

HPE Complete Care Service

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

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

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

HPE Tech Care Service

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

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

Service and Support

HPE Lifecycle Services

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

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

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

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

Other Related Services from HPE Services:

HPE Education Services

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

Defective Media Retention

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

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

Parts and Materials

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

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

How to Purchase Services

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

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

Service and Support

AI Powered and Digitally Enabled Support Experience

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

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

Consume IT On Your Terms

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

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

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

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

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.

Network Choice Models			
SKU Number	P55244-B21 P55244-291	P55245-B21 P55245-291	P55246-B21 P55246-291
Model Name	HPE ProLiant DL380 Gen10 Plus 4309Y 2.8GHz 8-core 1P 32GB-R S100i NC 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 4309Y 2.8GHz 8-core 1P 32GB-R MR416i-p NC 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 4310 2.1GHz 12-core 1P 32GB-R MR416i-p NC 8SFF 800W PS Server
Chassis	HPE ProLiant DL380 Gen10 Plus 8SFF NC Configure-to-order Server		
Processor	4309Y (8 core, 2.8 GHz, 105W) **Notes:** 8/8/8 cores would result in 2.8/2.6/2.3 GHz operating points at 105W/95W/85W TDPs.	4309Y (8 core, 2.8 GHz, 105W) **Notes:** 8/8/8 cores would result in 2.8/2.6/2.3 GHz operating points at 105W/95W/85W TDPs.	4310 (12 core, 2.1 GHz, 120W)
Number of Processors	One with standard heatsink		
Memory	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.		
Network Controller	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE **Notes:** No embedded networking		
Storage Controller		HPE MR416i-p Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller	HPE MR416i-p Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller
Included Hard Drives	None ship standard, 8 SFF supported		
Optical Drive	Optional DVD-ROM Optional via Universal Media Bay External support only		
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit		
Fans	4x Standard Fans	6x Maximum Performance Fans	6x Maximum Performance Fans
Management	HPE iLO 5		
Security	TPM (Trusted Platform Module)		
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

Network Choice Models			
SKU Number	P55247-B21 P55247-291	P55248-B21 P55248-291	P43350-AA1
Model Name	HPE ProLiant DL380 Gen10 Plus 4314 2.4GHz 16-core 1P 32GB-R MR416i-p NC 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 5315Y 3.2GHz 8-core 1P 32GB-R MR416i-p NC 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 4309Y 2.6GHz 8-core 1P 32GB-R P408i-a NC I350-T4 8SFF 800W PS Server
Chassis	HPE ProLiant DL380 Gen10 Plus 8SFF NC Configure-to-order Server		
Processor	4314 (16 core, 2.3 GHz, 135W) **Notes:** Supports Intel Optane Persistent Memory 200 Series, enabling up to 6TB memory per socket (does not work with SGX).	5315Y (8 core, 3.2 GHz, 140W) **Notes:** 8/6/4 cores would result in 3.2/3.2/3.4 GHz operating points at 140W/125W/115W TDPs.	4309Y (8 core, 2.8 GHz, 105W) **Notes:** 8/8/8 cores would result in 2.8/2.6/2.3 GHz operating points at 105W/95W/85W TDPs.
Number of Processors	One with standard heatsink		
Memory	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2933 MT/s due to processor limitation.	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.
Network Controller	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE **Notes:** No embedded networking	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE **Notes:** No embedded networking	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE **Notes:** No embedded networking
Storage Controller	HPE MR416i-p Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller	HPE MR416i-p Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G 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		
Optical Drive	Optional DVD-ROM Optional via Universal Media Bay External support only		
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit		
Fans	6x Maximum Performance Fans	6x Maximum Performance Fans	4x Standard Fans
Management	HPE iLO 5		
Security	TPM (Trusted Platform Module)	TPM (Trusted Platform Module)	TPM disabled for shipments to China
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

Network Choice Models			
SKU Number	P43351-AA1	P43353-AA1	P43354-AA1
Model Name	HPE ProLiant DL380 Gen10 Plus 4310 2.1GHz 12-core 1P 32GB-R P408i-a NC I350-T4 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 4316 2.3GHz 20-core 1P 32GB-R P408i-a NC I350-T4 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 4309Y 2.6GHz 8-core 1P 32GB-R P816i-a NC I350-T4 12LFF 800W PS Server
Chassis	HPE ProLiant DL380 Gen10 Plus 8SFF NC Configure-to-order Server	HPE ProLiant DL380 Gen10 Plus 8SFF NC Configure-to-order Server	HPE ProLiant DL380 Gen10 Plus 12LFF NC Configure-to-order Server
Processor	4310 (12 core, 2.1 GHz, 120W)	4316 (20 core, 2.3 GHz, 150W)	4309Y (8 core, 2.8 GHz, 105W) **Notes:** 8/8/8 cores would result in 2.8/2.6/2.3 GHz operating points at 105W/95W/85W TDPs.
Number of Processors	One with standard heatsink	One with high performance heatsink	One with standard heatsink
Memory	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.		
Network Controller	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE **Notes:** No embedded networking		
Storage Controller	HPE Smart Array P408i-a SR Gen10 x8 Lanes 2GB Cache SAS 12G Modular 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	None ship standard, 8 SFF supported	None ship standard, 12 LFF supported
Optical Drive	Optional DVD-ROM Optional via Universal Media Bay External support only		
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit		
Fans	4x Standard Fans	4x Standard Fans	6x Standard Fans
Management	HPE iLO 5		
Security	TPM disabled for shipments to China		
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

Network Choice Models			
SKU Number	P43356-AA1	P55277-421	P55278-421
Model Name	HPE ProLiant DL380 Gen10 Plus 4314 2.4GHz 16-core 1P 32GB-R P408i-a NC I350-T4 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 4309Y 2.8GHz 8-core 1P 32GB-R S100i NC 8SFF 800W PS EU Server	HPE ProLiant DL380 Gen10 Plus 4309Y 2.8GHz 8-core 1P 32GB-R MR416i-p NC 8SFF 800W PS EU Server
Chassis	HPE ProLiant DL380 Gen10 Plus 8SFF NC Configure-to-order Server		
Processor	4314 (16 core, 2.3 GHz, 135W) **Notes:** Supports Intel Optane Persistent Memory 200 Series, enabling up to 6TB memory per socket (does not work with SGX).	4309Y (8 core, 2.8 GHz, 105W) **Notes:** 8/8/8 cores would result in 2.8/2.6/2.3 GHz operating points at 105W/95W/85W TDPs.	4309Y (8 core, 2.8 GHz, 105W) **Notes:** 8/8/8 cores would result in 2.8/2.6/2.3 GHz operating points at 105W/95W/85W TDPs.
Number of Processors	One with standard heatsink		
Memory	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.		
Network Controller	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE **Notes:** No embedded networking	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE **Notes:** No embedded networking	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE **Notes:** No embedded networking
Storage Controller	HPE Smart Array P408i-a SR Gen10 x8 Lanes 2GB Cache SAS 12G Modular Controller		HPE MR416i-p Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller
Included Hard Drives	None ship standard, 8 SFF supported		
Optical Drive	Optional DVD-ROM Optional via Universal Media Bay External support only		
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit **Notes:** - The -421 SKU is to be ordered in European Union countries for Lot 9 compliance.	1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit **Notes:** - The -421 SKU is to be ordered in European Union countries for Lot 9 compliance.
Fans	4x Standard Fans	4x Standard Fans	6x Maximum Performance Fans
Management	HPE iLO 5		
Security	TPM disabled for shipments to China	TPM (Trusted Platform Module)	TPM (Trusted Platform Module)
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

Network Choice Models			
SKU Number	P55279-421	P55280-421	P55281-421
Model Name	HPE ProLiant DL380 Gen10 Plus 4310 2.1GHz 12-core 1P 32GB-R MR416i-p NC 8SFF 800W PS EU Server	HPE ProLiant DL380 Gen10 Plus 4314 2.4GHz 16-core 1P 32GB-R MR416i-p NC 8SFF 800W PS EU Server	HPE ProLiant DL380 Gen10 Plus 5315Y 3.2GHz 8-core 1P 32GB-R MR416i-p NC 8SFF 800W PS EU Server
Chassis	HPE ProLiant DL380 Gen10 Plus 8SFF NC Configure-to-order Server		
Processor	4310 (12 core, 2.1 GHz, 120W)	4314 (16 core, 2.3 GHz, 135W) **Notes:** Supports Intel Optane Persistent Memory 200 Series, enabling up to 6TB memory per socket (does not work with SGX).	5315Y (8 core, 3.2 GHz, 140W) **Notes:** 8/6/4 cores would result in 3.2/3.2/3.4 GHz operating points at 140W/125W/115W TDPs.
Number of Processors	One with standard heatsink		
Memory	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.	32 GB (1x32 GB , 3200 MT/s) **Notes:** Runs at 2933 MT/s due to processor limitation.
Network Controller	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE **Notes:** No embedded networking		
Storage Controller	HPE MR416i-p Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller		
Included Hard Drives	None ship standard, 8 SFF supported		
Optical Drive	Optional DVD-ROM Optional via Universal Media Bay External support only		
Power Supply	1x HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit **Notes:** - The -421 SKU is to be ordered in European Union countries for Lot 9 compliance.		
Fans	6x Maximum Performance Fans		
Management	HPE iLO 5		
Security	TPM (Trusted Platform Module)		
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

Smart Choice Models			
SKU Number	P69320-005	P69754-005	P69755-005
Model Name	HPE ProLiant DL380 Gen10 Plus 6326 2.9GHz 16-core 1P 32GB-R MR416i-a NC 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 4310 2.1GHz 12-core 1P 64GB-R MR416i-a NC 8SFF 800W PS Server	HPE ProLiant DL380 Gen10 Plus 4314 2.4GHz 16-core 1P 128GB-R MR416i-a NC 8SFF 800W PS Server
Chassis	HPE ProLiant DL380 Gen10 Plus 8SFF NC Configure-to-order Server		
Processor	6326 (16 core, 2.9 GHz, 185W)	4310 (12 core, 2.1 GHz, 120W)	4314 (16 core, 2.3 GHz, 135W) **Notes:** Supports Intel Optane Persistent Memory 200 Series, enabling up to 6TB memory per socket (does not work with SGX).
Number of Processors	One with high performance heatsink	One with standard heatsink	One with standard heatsink
Memory	32 GB (1x32 GB , 3200 MT/s)	64 GB (2x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.	128 GB (4x32 GB , 3200 MT/s) **Notes:** Runs at 2667 MT/s due to processor limitation.
Network Controller	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE **Notes:** No embedded networking	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE **Notes:** No embedded networking	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE **Notes:** No embedded networking
Storage Controller	HPE MR416i-a Gen10 Plus x16 Lanes 4GB Cache NVMe/SAS 12G Controller		
Included Hard Drives	2x 480GB SATA SSD		
Optical Drive	Optional DVD-ROM Optional via Universal Media Bay External support only		
Power Supply	2x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit		
Fans	6x Maximum Performance Fans		
Management	HPE iLO 5		
Security	TPM (Trusted Platform Module)		
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
- -005 = HPE Smart Choice for US and Canada
- -291 = Japan
- -421 = Europe, the Middle East and Africa
- -AA1 = China

Pre-Configured Models

HPE Smart Choice purchase program

- HPE Smart Choice purchase program is designed to make it easier to do business with HPE by offering fully configured solutions.
- Order popular configs in a single SKU.
- Get immediate purchase price in minutes.
- Get fast, predictable shipping.

Notes: -

UEFI is the standard default for all Pre-configured models.

- Processor 24309Y 8/8/8 cores would result in 2.8/2.6/2.3 GHz operating points at 105W/95W/85W TDPs.
- Processor 4309Y 8/8/8 cores would result in 2.8/2.6/2.3 GHz operating points at 105W/95W/85W TDPs.
- Processor 5315Y 8/6/4 cores would result in 3.2/3.2/3.4 GHz operating points at 140W/125W/115W TDPs.

Configuration Information

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

- 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 (1) of the following four (4) configurable server models from the tables below)
The below (4) CTO server models denoted with "NC" in the SKU description, provide flexibility in the networking choice and require a network adapter from the "HPE Networking" section be selected.

Networking Choice CTO Server Models	HPE ProLiant DL380 Gen10 Plus 8LFF NC CTO Server	HPE ProLiant DL380 Gen10 Plus 12LFF NC CTO Server	HPE ProLiant DL380 Gen10 Plus 8SFF NC CTO Server	HPE ProLiant DL380 Gen10 Plus 24SFF NC CTO Server
SKU Number	P05175-B21	P05174-B21	P05172-B21	P05173-B21
TAA SKU*	P05175-B21#GTA	P05174-B21#GTA	P05172-B21#GTA	P05173-B21#GTA
HPE Trusted Supply Chain	P36394-B21 – Optional			
Processor	Not included as standard	Not included as standard	Not included as standard	Not included as standard
DIMM Slots	32-DIMM slots	32-DIMM slots	32-DIMM slots	32-DIMM slots
Storage Controller	Embedded SW RAID with 14 SATA ports (12-ports accessible), choice of HPE modular Smart Array and PCIe plug-in controller			
PCIe	Three standard in primary riser			
Drive Cage - included	8 LFF	12 LFF	8 SFF	24 SFF
Network Controller	Choice of either OCP 3.0 or select stand-up network adapters for primary networking selection plus additional/optional stand-up network adapters **Notes:** No embedded networking			
Fans	6-Standard	6-Performance	4-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	None as standard	1x 3.0 standard plus iLo front service port	1x 3.0 standard plus iLo front service port

Notes:

- Network Choice (NC) server models require a networking selection of a network adapters in the "HPE Networking" section.
- HPE Trusted Supply Chain (P36394-B21) is an optional security upgrade intended for agencies and regulated industries needing enhanced security and compliance needs. Applying this option to a DL380 Gen10 Plus CTO server ensures it is built in the USA in a secured facility by vetted HPE personnel assigned to the manufacturing processes. A multitude of checkpoints/inspections for malicious microcode and counterfeit parts are performed throughout the server build, and additional safeguards are put in place against cyber-exploits throughout the server lifecycle. The HPE ProLiant DL380 Gen10 Plus Server is re-branded as a HPE ProLiant DL380T Gen10 Plus to denote the HPE Trusted Supply Chain security enhancements. The DL380T is Trade Agreement Act (TAA) compliant. See "HPE Security" section within this document for more detail and learn more at **http://www.hpe.com/security**
- *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).
- All CTO servers are Energy Star 3.0 compliant. After January 11, 2024, Energy Star 3.0 compliance is no longer valid. Energy Star 4.0 certification will be valid upon publication.

Configuration Information

CTO Server	8 SFF CTO Chassis	24 SFF CTO Chassis	8 LFF CTO Chassis	12 LFF CTO Chassis
Included Drive Cage	8 SFF SAS/SATA	3x 8 SFF SAS/SATA	8 LFF + UMB	12 LFF Chassis
Universal Media Bay	1 Optional	Not available	1 Included	Not available
ODD	1 Optional with UMB	Not available	1 Optional	Not available
8 SFF Drive Cage	Up to 2 Optional	Not available	Not available	Not available
8 NVME/SAS Bay	Up to 3 Optional	Not available	Not available	Not available
8 NVME Cage	Up to 3 Optional	Not available	Not available	Not available
2 SFF SAS/SATA (Front)	1 Optional with UMB	Not available	1 Optional	Not available
2 SFF SAS/SATA (Rear)	1 Optional	1 Optional	1 Optional	1 Optional
2 NVMe (Front)	1 Optional with UMB	Not available	1 Optional	Not available
4 LFF Mid-plane	Not available	Not available	1 Optional	1 Optional

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

Step 2: Choose Required Options

Please select up to two processors required below.

Notes:

- Processors do not ship with heatsinks, these must be ordered separately.
- 8SFF CTO 1P models ship with 4 standard fans. The second processor option kit contains 2 additional fans. 12 LFF and 24 SFF CTO Servers ship with 6 High performance fans included; 8LFF CTO Servers ship with 6 Standard fans included. Maximum Performance fan kit is available to meet ambient temperature environments and are required for rear drives or NVMe configurations.
- Maximum memory capacity per processor is dependent on processor models. All processors support up to 6 TBmax memory per processor.
- Mixing of 2 different processor models are NOT allowed.
- Processors with TDP equal to or greater than 150W require High Performance Heatsink (P27095-B21).
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.
- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.

Step 2a: Choose Processors

Processor Option Kits (Required Processor)

3rd Generation Intel Xeon-Platinum

Notes:

- Processors do not ship with heatsinks, these must be ordered separately.
- Field upgrades from 1st generation processors (x1xx) or 2nd generation processors (x2xx) to 3rd generation processors (x3xx) not supported.
- All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.
- Processors with TDP equal to or greater than 150W require High Performance Heatsink (P27095-B21)

Intel Xeon-Platinum 8352Y 2.2GHz 32-core 205W Processor for HPE	P36929-B21
Intel Xeon-Platinum 8358 2.6GHz 32-core 250W Processor for HPE	P36938-B21
Intel Xeon-Platinum 8360Y 2.4GHz 36-core 250W Processor for HPE	P36939-B21
Intel Xeon-Platinum 8368 2.4GHz 38-core 270W Processor for HPE	P36940-B21
Intel Xeon-Platinum 8380 2.3GHz 40-core 270W Processor for HPE	P36941-B21
Intel Xeon-Platinum 8358P 2.6GHz 32-core 240W Processor for HPE	P37598-B21
Intel Xeon-Platinum 8352V 2.1GHz 36-core 195W Processor for HPE	P37599-B21

Configuration Information

Intel Xeon-Platinum 8351N 2.4GHz 36-core 225W Processor for HPE	P37602-B21
Notes: 8351N is single socket capable even though not being a "U" processor. No dual socket support.	
Intel Xeon-Platinum 8352S 2.2GHz 32-core 205W Processor for HPE	P37613-B21
Intel Xeon-Platinum 8362 2.8GHz 32-core 265W Processor for HPE	P45418-B21
Notes: Requires High Performance Heatsink (P26479-B21), Fans (P26477-B21) and DIMM blanks kit (P07818-B21).	
Intel Xeon-Platinum 8352M 2.3GHz 32-core 185W Processor for HPE	P45414-B21

3rd Generation Intel Xeon-Gold

Notes: Processors do not ship with heatsinks, these must be ordered separately.
Field upgrades from 1st generation processors (x1xx) or 2nd generation processors (x2xx) to 3rd generation processors (x3xx) not supported.

Intel Xeon-Gold 6330 2.0GHz 28-core 205W Processor for HPE	P36927-B21
Intel Xeon-Gold 6338 2.0GHz 32-core 205W Processor for HPE	P36928-B21
Intel Xeon-Gold 6346 3.1GHz 16-core 205W Processor for HPE	P36934-B21
Intel Xeon-Gold 6354 3.0GHz 18-core 205W Processor for HPE	P36935-B21
Intel Xeon-Gold 6348 2.6GHz 28-core 235W Processor for HPE	P36937-B21
Intel Xeon-Gold 6338N 2.2GHz 32-core 185W Processor for HPE	P37603-B21
Intel Xeon-Gold 6330N 2.2GHz 28-core 165W Processor for HPE	P37604-B21
Intel Xeon-Gold 6342 2.8GHz 24-core 230W Processor for HPE	P36936-B21
Intel Xeon-Gold 6336Y 2.4GHz 24-core 185W Processor for HPE	P36926-B21
Intel Xeon-Gold 6334 3.6GHz 8-core 165W Processor for HPE	P36933-B21
Intel Xeon-Gold 6326 2.9GHz 16-core 185W Processor for HPE	P36932-B21
Intel Xeon-Gold 6314U 2.3GHz 32-core 205W Processor for HPE	P37610-B21
Notes: Single socket capable, no dual socket support.	
Intel Xeon-Gold 6312U 2.4GHz 24-core 185W Processor for HPE	P37611-B21
Notes: Single socket capable, no dual socket support.	
Intel Xeon-Gold 5320 2.2GHz 26-core 185W Processor for HPE	P36925-B21
Intel Xeon-Gold 5318Y 2.1GHz 24-core 165W Processor for HPE	P36924-B21
Intel Xeon-Gold 5318S 2.1GHz 24-core 165W Processor for HPE	P37612-B21
Intel Xeon-Gold 5318N 2.1GHz 24-core 150W Processor for HPE	P37605-B21
Intel Xeon-Gold 5317 3.0GHz 12-core 150W Processor for HPE	P36931-B21
Intel Xeon-Gold 5315Y 3.2GHz 8-core 140W Processor for HPE	P36930-B21

3rd Generation Intel Xeon-Silver

Notes:

- Processors do not ship with heatsinks, these must be ordered separately.
- All SKUs below ship with processor only. Adequate fans and heatsinks (standard, or high performance) must be selected.
- Processors with TDP equal to or greater than 150W require High Performance Heatsink (P27095-B21)
- 2667 MT/S maximum memory speed.
- 8GB SGX Enclave unless otherwise noted.

Intel Xeon-Silver 4316 2.3GHz 20-core 150W Processor for HPE	P36923-B21
Intel Xeon-Silver 4314 2.4GHz 16-core 135W Processor for HPE	P36922-B21
Intel Xeon-Silver 4310 2.1GHz 12-core 120W Processor for HPE	P36921-B21
Intel Xeon-Silver 4309Y 2.8GHz 8-core 105W Processor for HPE	P36920-B21

Configuration Information

Step 2b: Choose Memory Options

Please select one or more memory from below.
For new Gen10 Plus memory population rule whitepaper and optimal memory performance guidelines, please go to:
HPE Memory Population Rules
For details on the HPE Server Memory Options Population Rules, please go to:
https://www.hpe.com/docs/intel-population-rules-Gen10plus
For Gen10 Plus memory speed table, please go to: **https://www.hpe.com/docs/memory-speed-table**

Notes:

- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.
- The maximum memory speed and capacity is a function of the memory type, memory configuration, and processor model.
- DDR4-3200 Memory Kits are only supported with 3rd Generation Intel Xeon Scalable Series Processors.
- 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 16GB (1x16GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06029-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06031-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06033-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06035-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07525-B21
HPE 32GB (1x32GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P40007-B21

Notes:

- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.
- 3200 MT/s memory SKUs offer a transfer rate of 3200 MT/s at 1 DIMM per channel and at 2 DIMMs per channel
- Mixing of LRDIMM and RDIMM is not supported
- Mixing of 3DS memory and non-3DS memory is not supported

Load Reduced DIMMs (LRDIMMs)

HPE 128GB (1x128GB) Quad Rank x4 DDR4-3200 CAS-22-22-22 Load Reduced Smart Memory Kit	P06037-B21
HPE 256GB (1x256GB) Octal Rank x4 DDR4-3200 CAS-26-22-22 Load Reduced 3DS Smart Memory Kit	P06039-B21

HPE Persistent Memory (Intel Optane)

Intel Optane 128GB persistent memory 200 Series for HPE	P23532-B21

Notes:

- A maximum of 8 Intel Optane Persistent Memory for HPE supported with 1P 3rd Generation Intel XeonProcessors
- A maximum of 16 Intel Optane Persistent Memory for HPE supported with 2P 3rd Generation Intel Xeon Processors
- Intel Optane persistent memory 200 Series for HPE supported with select 3rd Generation Intel Xeon Scalable series processors ONLY (83xx/63xx/53xx) and can only be mixed with either RDIMMs or LRDIMMs.
- Mixing of different capacity Persistent memory is not allowed. Only one Persistent Memory kit capacity is allowed per server/configuration. Cannot be selected with any single rank x8 DDR4 3200AA memory kit. (i.e 1Rx8 PC4-3200AA-R or L).
- This option requires the selection of Maximum Performance Fan Kit (P14608-B21). This note does not apply to 12LFF Model-X or 24SFF Model-X.

Configuration Information

- Cannot be selected with HPE 800W FS 48VDC Ht Plg LH Pwr Sply Kit and HPE 1600W FS -48VDC Ht Plg PS Kit.
- Intel Optane Persistent Memory for HPE (PMEM) require either an RDIMM or LRDIMM to be configured. The number of RDIMMs or LRDIMMs required is based on the processor configuration and number of Intel Optane Persistent Memory for HPE (PMEM) selected:
  - For 1P Configuration:
    - Qty. 1 PMEM requires Qty.= 6 or 8 RDIMMs or LRDIMMs
    - Qty. 2 PMEM requires Qty.= 12 RDIMMs or LRDIMMs
    - Qty. 4 PMEM requires Qty.= 4 or 8 RDIMMs or LRDIMMs
    - Qty. 8 PMEM requires Qty.= 8 RDIMMs or LRDIMMs
  - For 2P Configuration:
    - Qty. 2 PMEM requires Qty.= 12 or 16 RDIMMs or LRDIMMs
    - Qty. 4 PMEM requires Qty.= 24 RDIMMs or LRDIMMs
    - Qty. 8 PMEM requires Qty.= 8 or 16 RDIMMs or LRDIMMs
    - Qty. 16 PMEM requires Qty.= 16 RDIMMs or LRDIMMs
- Additional Intel Optane Persistent Memory for HPE(PMEM) cannot be selected beyond the provided configurations above.
- Additional HPE Smart Memory kits (RDIMM or LRDIMM) cannot be selected beyond the provided configurations above.
- DDR4 DIMMs must be of same type capacity and rank when combining with Intel Optane persistent memory.
- Additional information for Intel Optane Persistent Memory for HPE (PMEM) can be found at **https://www.hpe.com/psnow/doc/a00067733enw?jumpid=in_lit-psnow-red**

Memory Blank Kit

HPE DDR4 DIMM Blank Kit	P07818-B21

Notes: Qty 1 of DIMM Blank kit (P07818-B21) Required only when configuration includes the population of a mid tray kit (P26919-B21 or P27193-B21 or P39769-B21) and memory quantity is less than 32.

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

Notes:

- Select a minimum (1), maximum (2) 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.

Configuration Information

- Beginning on January 1st, 2024, units sold into the European Union (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.

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 Security Options

HPE iLO Common Password FIO Setting P08040-B21

Notes:

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

HPE Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit P13771-B21

Notes:

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

HPE 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.

Factory Instructions and Server Settings

HPE SR100i Gen10 Plus FIO Software RAID P28417-B21

Notes:

- The Legacy Mode Setting and HPE SR100i Gen10 Plus FIO SW CAN NOT be selected together.
- NVMe Trigger and SR100i (P28417-B21) cannot be selected together.
- SR100i (P28417-B21) and VROC SKUs (R7J57A/ R7J58A) CAN NOT be selected together.
- SR100i can support max 2 NVMe drives. To enable 2NVMe support with SR100i below conditions must be met:
  - Tertiary 2port Slimline Riser (P27093-B21) OR AROC to NVMe adapter (P14602-B21) must be selected
  - Or 2SFF x4Tri-Mode U.3 Kit (P26922-B21) OR 2SFF x4Tmode SbS U.3 Kit (P26924-B21) must be selected

Configuration Information

- If NVMe support is enabled on SR100i then below NVMe drives cannot be selected. However if there are any U.3 cage or U.2 NVMe Drive cage which are enabled to have NVMe drives then below drives can be selected however quantities to be restricted only to these drive cages
- CM6 in drive description
- CD6 in drive description
- P4xxx in drive description

HPE 200GB Logical Size FIO Setting 436007-B21

Notes: This option is not required and is only selectable if a RAID level has been selected.

HPE RAID 0 Drive 1 FIO Setting 339777-B21

Notes:

- If Embedded SATA controller (with SR100i Setting (P28417-B21)) is the primary controller, then RAID 0, 1, 5 are allowed.
- If E208i-a/E208i-p is the primary controller, then RAID 0, 1, 5 levels are allowed.
- If MR216i-a/MR216i-p is the primary controller, then RAID 0, 1 levels are allowed.
- If RAID is selected on NVMe drives without Tri Mode controllers then SR100i mode must selected, and RAID 0, 1 levels are allowed.

HPE RAID 1 Drive 1 FIO Setting 339778-B21

Notes:

- If Embedded SATA controller (with SR100i Setting (P28417-B21)) is the primary controller, then RAID 0, 1, 5 are allowed.
- If E208i-a/E208i-p is the primary controller, then RAID 0, 1, 5 levels are allowed.
- If MR216i-a/MR216i-p is the primary controller, then RAID 0, 1 levels are allowed.
- If RAID is selected on NVMe drives without Tri Mode controllers then SR100i mode must selected, and RAID 0, 1 levels are allowed.

HPE RAID 5 Drive 1 FIO Setting 339779-B21

Notes:

- If Embedded SATA controller (with SR100i Setting (P28417-B21)) is the primary controller, then RAID 0, 1, 5 are allowed.
- If E208i-a/E208i-p is the primary controller, then RAID 0, 1, 5 levels are allowed.

HPE Raid 5 w/SP Drive 1 FIO Setting 339780-B21

HPE RAID FIO Advanced Data Guarding Option 339781-B21

HPE Customer Defined RAID Setting Service 389692-B21

Notes:

- A Customer Intent Document must be supplied if this part number is ordered.
  This Customer Intent Document should include all details about the desired RAID custom configuration. (This includes drive part #s and quantities, RAID levels desired, which drives should be applied to each RAID level, and if a preinstalled OS has been ordered - which RAID set it should be installed on).
- Recommend to select this RAID FIO P/N over other RAID settings if customer has mixed controller configuration (e.g., E208, P408, or P816 + Tri Mode OR Tri Mode + VROC/SR100 OR E208, P408, or P816 + VROC/SR100i).

HPE ProLiant DL380 Gen10 Plus 8NVMe Balanced FIO Bundle Kit P37046-B21

Notes:

- If this option is selected then following items must be selected in the config:
  - Qty 1 of HPE DL38X Gen10 Plus 8NVMe CPU1/2 Cbl Kit (P22829-B21)
  - Qty 1 of HPE DL38X Gen10 Plus Maximum Performance Fan Kit (P14608-B21)
  - Qty 1 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 1 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)
- Requires selection of Second Processor

Configuration Information

HPE ProLiant DL380 Gen10 Plus 24NVMe Balanced FIO Bundle Kit P19359-B21

Notes:

- If this option is selected then following items must be selected in the config:
  - Qty 1 of HPE DL38X Gen10 Plus 8NVMe CPU1/2 Cbl Kit (P22829-B21)
  - Qty 1 of HPE DL380 Gen10 Plus x16 2pt 4SFF NVMe Pri Rsr (P27090-B21)
  - Qty 1 of HPE DL380 Gen10 Plus x16 2pt 4SFF NVMe Sec Rsr (P27089-B21)
  - Qty 1 of HPE DL380 Gen10 Plus 2-port 4SFF Ter Rsr (P27093-B21)
  - Qty 1 of HPE DL38X Gen10 Plus AROC NVMe Adpt Kit (P14602-B21)
  - Qty 1 of HPE DL380 Gen10 OCP NVMe Adptr Kit (P27094-B21)
  - Qty 1 of HPE DL38X Gen10 Plus Maximum Performance Fan Kit (P14608-B21)
  - Qty 3 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 3 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)
- Requires selection of second Processor
- DL38x Gen10 Plus Box3 Removal Special Instr (873763-B21) must be selected along with this option.

HPE ProLiant DL380 Gen10 Plus 8NVMe 1P Balanced FIO Bundle Kit P20616-B21

Notes:

- If this option is selected then following items must be selected in the config:
  - Qty 1 of HPE DL380 Gen10 Plus x16 2pt 4SFF NVMe Pri Rsr (P27090-B21)
  - Qty 1 of HPE DL38X Gen10 Plus Maximum Performance Fan Kit (P14608-B21)
  - Qty 1 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 1 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)

HPE ProLiant DL380 Gen10 Plus 8NVMe 2P Balanced FIO Bundle Kit P20617-B21

Notes:

- If this option is selected then following items must be selected in the config:
  - Qty 1 of HPE DL380 Gen10 Plus x16 2pt 4SFF NVMe Sec Rsr (P27089-B21)
  - Qty 1 of HPE DL38X Gen10 Plus Maximum Performance Fan Kit (P14608-B21)
  - Qty 1 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 1 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)
  - Qty 1 of 8NVMe 1P Bal FIO Kit (P20616-B21)
- Requires selection of Second Processor

HPE ProLiant DL380 Gen10 Plus 12NVMe 1P Balanced FIO Bundle Kit P20618-B21

Notes:

- If this option is selected then following items must be selected in the config:
  - Qty 1 of HPE DL38X Gen10 Plus 8NVMe CPU1/2 Cbl Kit (P22829-B21)
  - Qty 1 of HPE DL380 Gen10 Plus x16 2pt 4SFF NVMe Pri Rsr (P27090-B21)
  - Qty 1 of HPE DL38X Gen10 Plus AROC NVMe Adpt Kit (P14602-B21)
  - Qty 1 of HPE DL380 Gen10 OCP NVMe Adptr Kit (P27094-B21)
  - Qty 1 of HPE DL38X Gen10 Plus Maximum Performance Fan Kit (P14608-B21)
  - Qty 2 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 2 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)

HPE ProLiant DL380 Gen10 Plus 12NVMe 2P Balanced FIO Bundle Kit P20619-B21

Notes:

- If this option is selected then following items must be selected in the config:
  - Qty 1 of HPE DL38X Gen10 Plus Plus 8NVMe CPU1/2 Cbl Kit (P22829-B21)
  - Qty 1 of HPE DL380 Gen10 Plus x16 2pt 4SFF NVMe Sec Rsr (P27089-B21)
  - Qty 1 of HPE DL380 Gen10 Plus 2-port 4SFF Ter Rsr (P27093-B21)
  - Qty 1 of HPE DL38X Gen10 Plus Maximum Perf Fan Kit (P14608-B21)
  - Qty 2 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 2 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)

Configuration Information

- Qty 1 of HPE ProLiant DL380 Gen10 Plus 12NVMe 1P Differential I/O Balanced FIO Bundle Kit (P35572-B21)

– Requires selection of second Processor

HPE 12 DIMM SNC2 Hemi SGX FIO Enablement Kit P26933-B21

Notes: Can be selected only if 1P = 12 DIMMs or if 2P = 24 DIMMs
For supported 8DIMM, 12DIMM, and 16DIMM memory population rules for SGX please see page 4 of the guide: **Server Memory and Persistent Memory population rules for HPE Gen10 Plus servers with 3rd Gen Intel Xeon Scalable processors**.

HPE ProLiant DL380 Gen10 Plus 24NVMe Differential I/O Balanced FIO Bundle Kit P35570-B21

Notes:

– If this option is selected then following items must be selected in the config:
- Qty 1 of HPE DL380 Gen10 Plus x16 2pt 4SFF NVMe Sec Rsr (P27089-B21)
- Qty 1 of HPE DL38X Gen10 Plus High Perf Fan Kit (P14608-B21)
- Qty 1 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 1 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)
- Qty 1 of 8NVMe 1P Bal FIO Kit (P20616-B21)

– Requires selection of Second Processor

HPE ProLiant DL380 Gen10 Plus 12NVMe 2P Differential I/O Balanced FIO Bundle Kit P35571-B21

Notes:

– If this option is selected then following items must be selected in the config:
- Qty 1 of HPE DL38X Gen10 Plus 8NVMe CPU1/2 Cbl Kit (P22829-B21)
- Qty 1 of HPE DL380 G10 Plus 4pt 8SFF NVMe Sec Rsr (P35417-B21)
- Qty 1 of HPE DL38X Gen10 Plus High Perf Fan Kit (P14608-B21)
- Qty 2 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 2 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)
- Qty 1 of 12NVMe 1P Dif I/O FIO Kit (P35572-B21)

– Requires selection of second Processor

HPE ProLiant DL380 Gen10 Plus 12NVMe 1P Differential I/O Balanced FIO Bundle Kit P35572-B21

Notes:

– If this option is selected then following items must be selected in the config:
- Qty 1 of HPE DL38X Gen10 Plus 8NVMe CPU1/2 Cbl Kit (P22829-B21)
- Qty 1 of HPE DL380 G10 Plus 4pt 8SFF NVMe Pri Rsr (P27092-B21)
- Qty 1 of HPE DL38X Gen10 Plus High Perf Fan Kit (P14608-B21)
- Qty 2 of HPE DL380 Gen10 Plus 8SFF U.3Prem Kit (P26931-B21) or Qty 2 of HPE DL300 Gen10 Plus 2U 8SFF x4 NVMe U.2 Kit (P26932-B21)

HPE FIO No Smart Storage Battery P06141-B21

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

Notes:

– This is a factory integrated only option.
– Will remove the Primary 8SFF cage in Box 3 of the 8SFF and replace with a Box blank.

HPE DL38X Gen10 Plus Primary Riser Removal FIO Option

Notes:

– This is a factory integrated only option.
– Will remove the Primary shipping PCIe riser.

Configuration Information

HPE Legacy FIO Mode Setting	758959-B22

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

HPE Smart Memory Fast Fault Tolerance FIO Setting	875293-B21

Notes: Fast Fault Tolerance is a feature in Gen10 Plus server memory that enables the system to boot with full memory performance while monitoring for DRAM device failures.

HPE Server Identity FIO Setting	P41905-B21

Notes: Initial Device Identity (IDevID) certificates are part of a Zero Trust Architecture. This SKU intructs factory to provision IdevID on HPE iLO.

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

Notes:

- Directs HPE manufacturing site to create, digitally sign and store a platform certificate on the server.
- Requires HPE Trusted Platform Module (TPM).

HPE Converged Infrastructure Management Software

HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
HPE OneView Standard 1yr 9x5 Support Flexible Quantity E-RTU	K6F98AAE
HPE OneView w/o iLO including 3yr 24x7 Support 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 Flexible Quantity E-LTU	P8B26AAE
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 including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Track 1-server LTU	E5Y36A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support Bundle Track 1-server LTU	E5Y44A
HPE OneView Upgrade from Insight Management including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y45AAE

vSAN ReadyNode

- 3, 6, 8 or 16 node vSAN Clusters (3 node minimum)
- HW is optimized for vSAN
- VMware vSAN Advanced LTU bundled

Notes: Software Requirements: VMware vSphere 6.7 Update 1, VMware vSphere with Operations Management™ 6.1 (any edition), VMware vCloud Suite 6.0 (any edition updated with 6.5) or VMware vCenter Server 6.7 Update 1.

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 DL38x 8SFF SAS/SATA Tri-Mode Cable Kit P55467-B21

Notes:

- Used to support 8SFF SAS/SATA UBM2 to tri-mode controller(AROC/PCIe) on Box 1,2,3.
- If Tmode Cable Kits (P55467-B21 and P55860-B21) are not selected then default cage will occupy all Embedded SATA ports.

HPE ProLiant DL38x Gen10 Plus 2SFF SAS/SATA Tri-Mode Cable Kit P55469-B21

Notes:

- Used to support 2SFF front stackable drive cage UBM2 to tri-mode controllers(AROC/PCIe) on Box 1.

HPE ProLiant DL38x LFF SAS/SATA Tri-Mode Cable Kit P58900-B21

Notes:

- Qty 1 is used to support 8LFF SAS/SATA UBM2 to tri-mode controller(AROC/PCIe).
- Qty 1 + Qty1 P55860-B21 HPE ProLiant DL38x Gen10 Plus 4LFF SAS/SATA Tri-Mode Cable Kit is required to support 12LFF SAS/SATA UBM2 to tri-mode controller(AROC/PCIe).

HPE ProLiant DL38x Gen10 Plus 4LFF SAS/SATA Tri-Mode Cable Kit P55860-B21

Notes:

- Used to support 4LFF SAS/SATA UBM2 to tri-mode controllers(AROC/PCIe) on Box 1,7.
- If Tmode Cable Kits (P55467-B21 and P55860-B21) are not selected then default cage will occupy all Embedded SATA ports

HPE ProLiant DL38x Gen10 Plus 2SFF Rear Tri-Mode Cable Kit P55471-B21

Notes:

- Used to support rear 2SFF SAS/SATA UBM2 to tri-mode controllers(AROC/PCIe).

HPE ProLiant DL38x Gen10 Plus 2SFF SAS/SATA Tri-Mode Cable Kit P55469-B21

Notes:

- Used to support front stackable 2SFF SAS/SATA UBM2 to tri-mode controllers(AROC/PCIe).

HPE DL38X Gen10 Plus Universal Media Bay Kit P14609-B21

HPE DL38X Gen10 Plus AROC to NVMe Adapter Kit P14602-B21

Notes: Used to support upto 16 NVMe drives with Modular Controller (AROC)

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

HPE DL38X Gen10 Plus Maximum Performance Fan Kit P14608-B21

Notes:

- Can be selected only with 8SFF Model X and 8LFF Model X.
- For elevated ambient temperature support please see: **http://www.hpe.com/servers/ashrae**
- Max Performance fan kit consists of 6 fans, these will need to replace all the standard fans in the unit, and fill all 6 fan cages.
- The 12 LFF and 24 SFF models (including field upgrades to 24 SFF) will already include 6 Max Performance fans.
- Fans are redundant

HPE DL38X Gen10 Plus Universal Media Bay Kit P14609-B21

Notes:

- The HPE DL380 Gen10 Plus Universal Media bay provides front Display Port and 2xUSB 2.0; plus support for 2x SFF front drives or 2 NVME front drives (riser required) and ODD support (Not included); and can only be located in Box1 in either an 8 SFF or 8+8 SFF model.
- This is a SFF model option only.

Core Options

HPE ProLiant DL380 Gen10 Plus 2SFF SAS/SATA Primary Secondary Drive Cage Kit P55696-B21

Notes:

- 2SFF Rear Cage (Primary/ Secondary Riser position)
- Drive Cage Capacity – MAX=2 SFF SAS/SATA drives
- Includes (Slot 3/6) 1x16 PCIe FH/HL Slot (Electrically x16).
- Max = 2
- Requires selection of Max Performance Fan Kit (P14608-B21)
- Requires selection of tri-mode controller
- If used in rear position then drives must be under 10W.

HPE ProLiant DL380 Gen10 Plus 2SFF SAS/SATA BC Drive Cage Kit P55698-B21

Notes:

- 2SFF Drive Cage (Front/ Rear)
- Drive Cage Capacity – MAX=2 SFF SAS/SATA drives
- Max = 2 for the 8SFF Model-X
- Max = 1 for 8LFF, 12LFF, and 24SFF Model-X
- On 8SFF Model-X, if quantity = 2 then the Universal Media Bay (P14609-B21) must also be selected.
- On 8SFF Model-x, if Universal Media Bay is not selected this will will be installed in the rear and Maximum Performance Fan Kit (P14608-B21) is required.
- Requires selection of tri-mode controller.
- When used in rear position then drives must be under 10W

HPE ProLiant DL3xx Gen10 Plus 2U 2SFF SAS/SATA BC Drive Cage Kit P55699-B21

Notes:

- 2SFF side-by-side Front Cage
- Can only be supported on 8LFF Model-X
- Max = 1
- Requires selection of Maximum Performance Fan Kit (P14608-B21)
- Requires selection of tri-mode controller,

HPE ProLiant DL38x Gen10 Plus 4LFF SAS/SATA LP Drive Cage Kit P55700-B21

Notes:

- 4LFF Mid Tray
- Drive Cage Capacity – MAX=4 LFF SAS/SATA drives
- Can only be selected with 8LFF or 12LFF Model-X
- Max = 1
- Requires selection of Maximum Performance Fan Kit (P14608-B21)
- No full length adapters can be supported.
- Requires selection of tri-mode controller.
- Cannot be selected with processors above 165W

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

Notes:

- 8SFF Front Drive Cage
- Drive Cage Capacity – MAX=8 SFF SAS/SATA drives
- Can only be selected with 8SFF Model-X
- Max = 1
- Requires selection of tri-mode controller.

HPE ProLiant DL38x Gen10 Plus 2LFF UBM to Tri-Mode LP Primary Riser Backplane Kit P55518-B21

Notes:

- 2LFF Rear Cage (Primary Riser Position)
- Drive Cage Capacity – MAX=2 LFF SAS/SATA drives
- Can only be selected with 8LFF or 12LFF Model-X

Core Options

- Max = 1
- Requires selection of tri-mode controller.
- Can only be selected with 8SFF Model-X
- Max = 1
- Requires selection of tri-mode controller.

HPE ProLiant DL38x Gen10 Plus 2LFF UBM to Tri-Mode LP Tertiary Riser Backplane Kit P55519-B21

Notes:

- 2LFF Rear Cage (Tertiary Riser Position)
- Drive Cage Capacity – MAX=2 LFF SAS/SATA drives.
- Includes (Slot 7) 1x16 PCIe FH/FL Slot (Electrically x16)
- Can only be selected with 8LFF or 12LFF Model-X
- Max = 1
- Secondary riser cannot be selected if this option is selected.
- Requires selection of second processor.
- Requires selection of tri-mode controller.

HPE ProLiant DL38X Gen10 Plus 2SFF x4 Tri-Mode 24G U.3 BC Front/Tertiary Drive Cage Kit P26922-B21

Notes:

- Mixing of Drives (SAS/ SATA/ NVMe) is allowed on U.3 drive cage if selected along with Tri Mode Controllers.
- Can be installed into the Tertiary Riser location along with HPE DL38X Gen10 Plus AROC to NVMe Adapter Kit (P14602-B21)

HPE ProLiant DL300 Gen10 Plus 2U 2SFF x4 Tri-Mode 24G U.3 BC Side-by-Side Drive Cage Kit P26924-B21

Notes:

- Can be selected only with 8LFF Model X.
- This option requires the selection of High Performance Fan Kit (P14608-B21).
- HPE DL380 Gen10 Plus 2SFF U.3 SbS Kit (P26924-B21) and HPE DL380 Gen10 Plus 2FF SbS HDD Kit (P26925-B21) cannot be selected together.
- This option can be selected only if any one of the condition is met
  - Tri Mode Controller must be selected (Refer Controller category for details)
  - AROC to NVMe (P14602-B21) must be selected.

HPE ProLiant DL300 Gen10 Plus 2U 8SFF SAS/SATA 12G BC Front Bay 1/2 Drive Cage Kit P26930-B21

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

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

Notes:

- Can be selected only with 8SFF Model X.
- If Max Qty=3 of the 8SFF U.3Prem Kit (P26931-B21) OR 8SFF U.2Prem Kit (P26932-B21) OR 8SFF U.3 Basic Kit (P27194-B21) is selected then
  - DL38x Gen10 Plus Box3 Removal Special Instr (873763-B21) must be selected
  - Universal Media Bay (P14609-B21) CAN NOT be selected
- If Max Qty=2 of the 8SFF U.3Prem Kit (P26931-B21) OR 8SFF U.2Prem Kit (P26932-B21) OR 8SFF U.3 Basic Kit (P27194-B21) ordered, then the Universal Media Bay (P14609-B21) can be selected only if DL38x Gen10 Plus Box3 Removal Special Instr (873763-B21) is selected.
- Does not support HPE DL300 G10+ 2U x1/x2 Tri-Mode Cbl Kit (P36203-B21) with tri-mode storage controller.

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

Notes:

- Can be selected only with 8SFF Model X.
- If Max Qty=3 of the 8SFF U.3Prem Kit (P26931-B21) OR 8SFF U.2Prem Kit (P26932-B21) OR 8SFF U.3 Basic Kit (P27194-B21) is selected then
  - DL38x Gen10 Plus Box3 Removal Special Instr (873763-B21) must be selected

Core Options

- Universal Media Bay (P14609-B21) CAN NOT be selected
- If Max Qty=2 of the 8SFF U.3Prem Kit (P26931-B21) OR 8SFF U.2Prem Kit (P26932-B21) OR 8SFF U.3 Basic Kit (P27194-B21) ordered, then the Universal Media Bay (P14609-B21) can be selected only if DL38x Gen10 Plus Box3 Removal Special Instr (873763-B21) is selected.
- Requires selection of Tri Mode Controller (Refer Controller category).
- Mixing of Drives (SAS/ SATA/ NVMe) is allowed on U.3 drive cage if selected along with Tri Mode Controllers.

HPE ProLiant DL38X Gen10 Plus 2LFF Primary Riser Cage Kit P14579-B21

Notes:

- Can be selected only with 8LFF Model X and 12LFF Model X.
- This option is housed into a Riser assembly and will be installed in Primary Riser location.
- Since this option is part of the Riser assembly, it must be classified as a Primary Riser and Max Qty=1 PRIMARY Risers is allowed per server.

HPE ProLiant DL38X Gen10 Plus 2LFF Tertiary Riser Cage Kit P14580-B21

Notes:

- Can be selected only with 8LFF Model X and 12LFF Model X.
- Secondary Riser CANNOT be selected if this option is selected.
- HPE DL38X Gen10 Plus 2LFF LP Sec Riser Kit (P25903-B21) and HPE DL38X Gen10 Plus 2LFF Tertiary FIO Kit (P14580-B21) cannot be selected together.
- This option is housed into a Riser assembly and will be installed only in Tertiary Riser location
- Since this option is part of the Riser assembly, it must be classified as a Tertiary Riser and Max Qty=1 TERTIARY Risers is allowed per server.
- Requires selection of Second Processor.

HPE DL38X Gen10 Plus 2LFF Low Profile Secondary Riser Kit P25903-B21

Notes:

- Can be selected only with 8LFF Model X and 12LFF Model X.
- HPE DL38X Gen10 Plus 2LFF LP Sec Riser Kit (P25903-B21) and HPE DL38X Gen10 Plus 2LFF Tertiary FIO Kit (P14580-B21) cannot be selected together.
- This option is housed into a Riser assembly and will be installed only in Secondary Riser location
- Since this option is part of the Riser assembly, it must be classified as a Secondary Riser and Max Qty=1 secondary Risers is allowed per server.
- Requires selection of Second Processor.

HPE ProLiant DL38X Gen10 Plus 4LFF SAS/SATA 12G LP Midplane Drive Cage Kit P26919-B21

Notes:

- Can be selected only with 8LFF Model X and 12LFF Model X.
- This option requires the selection of High Performance Fan Kit (P14608-B21).
- If this option is being configured into a 12LFF Model-X or 24SFF Model-X, this rule does not apply as these models already come standard with the High Performance Fans.
- If this option is selected, NO "Full Length" (FL) PCIe cards can be supported.
- Max of 1 Mid tray allowed per server for selection.
  - 4LFF Midtray Kit (P26919-B21)
  - 8SFF U.3 x1 Mid Tray (P27193-B21)
  - 8SFF U.3 x4 Mid Tray (P39769-B21)
- Mid Tray cannot be selected with Processors above 165W.

HPE ProLiant DL380 Gen10 Plus 2SFF SAS/SATA 12G BC x16 Slot 3 Primary/Secondary Riser Kit P26920-B21

Notes:

- This option requires the selection of High Performance Fan Kit (P14608-B21).
- If this option is being configured into a 12LFF Model-X or 24SFF Model-X, this rule does not apply as these models already come standard with the High Performance Fans.

Core Options

- If Qty 1 is selected then it can be installed into the Primary Riser location or the Secondary Riser location. If other Primary Riser is selected along with it then it will be considered as Secondary Riser and vice-versa (Max of 1 Primary Riser per Server and Max of 1 Secondary Riser per Server)
- If Qty 2 are selected then it will be installed into both Primary Riser and Secondary Riser location. No other Primary Riser and Secondary Riser are allowed.
- If this Qty1 of this option is selected along with other Primary Riser (i.e. if it is selected as Secondary Riser) or Qty2 of this option is selected then:
  - Tertiary Riser cannot be selected (Except Tertiary 2P NVMe Riser (P27093-B21))
  - Second Processor must be selected

HPE ProLiant DL380 Gen10 Plus 2SFF SAS/SATA 12G BC Front/Tertiary Stackable Drive Cage Kit P26923-B21

HPE ProLiant DL300 Gen10 Plus 2U 2SFF SAS/SATA 12G BC Side-by-Side Drive Cage Kit P26925-B21

Notes:

- Can be selected only with 8LFF Model X.
- This option requires the selection of High Performance Fan Kit (P14608-B21).
- If this option is being configured into a 12LFF Model-X or 24SFF Model-X, this rule does not apply as these models already come standard with the High Performance Fans.
- HPE DL380 Gen10 Plus 2SFF U.3 SbS Kit (P26924-B21) and HPE DL380 Gen10 Plus 2FF SbS HDD Kit (P26925-B21) cannot be selected together.

HPE ProLiant DL38X Gen10 Plus 8SFF x1 Tri-Mode 24G U.3 BC Midplane Drive Cage Kit P27193-B21

Notes:

- This option requires the selection of High Performance Fan Kit (P14608-B21).
- If this option is being configured into a 12LFF Model-X or 24SFF Model-X, this rule does not apply as these models already come standard with the High Performance Fans.
- If this option is selected, NO "Full Length" (FL) PCIe cards can be supported.
- Max of 1 Mid tray allowed per server for selection.
  - 4LFF Midtray Kit (P26919-B21)
  - 8SFF U.3 x1 Mid Tray (P27193-B21)
  - 8SFF U.3 x4 Mid Tray (P39769-B21)
- 8SFF Mid tray supports drives below 12W only, consider this limitation for selection of Drives with this cage.
- Mixing of Drives (SAS/ SATA/ NVMe) is allowed on U.3 drive cage if selected along with Tri Mode Controllers.
- Mid Tray cannot be selected with Processors above 165W.

HPE ProLiant DL300 Gen10 Plus 2U 8SFF x4 Tri-Mode 24G U.3 BC Midplane Drive Cage Kit P39769-B21

Notes:

- This option requires the selection of High Performance Fan Kit (P14608-B21).
- If this option is being configured into a 12LFF Model-X or 24SFF Model-X, this rule does not apply as these models already come standard with the High Performance Fans.
- If this option is selected, NO "Full Length" (FL) PCIe cards can be supported.
- Can be selected only with 8SFF Model X and 24SFF Model X.
- Mixing of Drives (SAS/ SATA/ NVMe) is allowed on U.3 drive cage if selected along with Tri Mode Controllers.
- Mid Tray cannot be selected with Processors above 165W.
- Supports 8 SAS/SATA SFF drives in Box 1 or 2 to a max of 24 SFF SAS/SATA front.

HPE ProLiant DL380 Gen10 Plus High Performance Heat Sink Kit P27095-B21

Notes:

- Required for GPU installations.
- Required for processors with TDP equal to or greater than 150W
- This option cannot be selected if any of the below Drive cage is selected.
  - P26919-B21 - HPE DL380 Gen10 Plus 4LFF Midtray Kit
  - P27193-B21 - HPE DL38X Gen10 Plus 8SFF x1Tri-Mode U.3 Kit

Core Options

- P39769-B21 - HPE DL300 G10+ 2U 8SFF x4TM Midplane

HPE DL38X Gen10 Plus Maximum Performance Fan Kit P14608-B21

Notes:
- This kit is required for specific **Ambient temperature environments**
- This kit is also required to support GPUs configurations.
- This is required for NVMe configurations.
- This kit provides maximum cooling for your Server.
- Can be selected only with 8SFF Model X and 8LFF Model X.

HPE DL38X Gen10 Plus Rear Serial Cable Kit P14606-B21

HPE ProLiant DL380 Gen10 Plus SFF Systems Insight Display Kit P27096-B21

HPE Processors

Processor Option Kits

3rd Generation Intel Xeon-Platinum

Notes:
- Processors do not ship with heatsinks, these must be ordered separately.
- Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) not supported.
- All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.

Intel Xeon-Platinum 8352Y 2.2GHz 32-core 205W Processor for HPE P36929-B21

Intel Xeon-Platinum 8358 2.6GHz 32-core 250W Processor for HPE P36938-B21

Intel Xeon-Platinum 8360Y 2.4GHz 36-core 250W Processor for HPE P36939-B21

Intel Xeon-Platinum 8368 2.4GHz 38-core 270W Processor for HPE P36940-B21

Intel Xeon-Platinum 8380 2.3GHz 40-core 270W Processor for HPE P36941-B21

Intel Xeon-Platinum 8358P 2.6GHz 32-core 240W Processor for HPE P37598-B21

Intel Xeon-Platinum 8352V 2.1GHz 36-core 195W Processor for HPE P37599-B21

Intel Xeon-Platinum 8351N 2.4GHz 36-core 225W Processor for HPE P37602-B21

Notes: 8351N is single socket capable even though not being a “U” processor. No dual socket support.

Intel Xeon-Platinum 8352S 2.2GHz 32-core 205W Processor for HPE P37613-B21

Intel Xeon-Platinum 8362 2.8GHz 32-core 265W Processor for HPE P45418-B21

Notes:
- Requires High Performance Heatsink (P27095-B21), Fans (P14608-B21) and DIMM blanks kit (P07818-B21).
- Does not support Intel Speed Select Technology – Base Frequency (SST-BF).

Intel Xeon-Platinum 8352M 2.3GHz 32-core 185W Processor for HPE P45414-B21

Notes:
- 32/28/24 cores would result in 2.3/2.4/2.6 GHz operating points 185W/185W/185W TDPs.
- Requires High Performance Heatsink (P26479-B21).
- DIMM blanks kit (P07818-B21) recommended as enhance cooling.
- Does not support Intel Speed Select Technology – Base Frequency (SST-BF).

3rd Generation Intel Xeon-Gold

Notes:
- Processors do not ship with heatsinks, these must be ordered separately.
- Field upgrades from 1st generation processors (x1xx) and 2nd generation processors (x2xx) to 3rd generation processors (x3xx) not supported.
- All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.

Intel Xeon-Gold 6330 2.0GHz 28-core 205W Processor for HPE P36927-B21

Intel Xeon-Gold 6338 2.0GHz 32-core 205W Processor for HPE P36928-B21

Intel Xeon-Gold 6346 3.1GHz 16-core 205W Processor for HPE P36934-B21

Intel Xeon-Gold 6354 3.0GHz 18-core 205W Processor for HPE P36935-B21

Intel Xeon-Gold 6348 2.6GHz 28-core 235W Processor for HPE P36937-B21

Core Options

Intel Xeon-Gold 6338N 2.2GHz 32-core 185W Processor for HPE	P37603-B21
Intel Xeon-Gold 6330N 2.2GHz 28-core 165W Processor for HPE	P37604-B21
Intel Xeon-Gold 6314U 2.3GHz 32-core 205W Processor for HPE	P37610-B21

Notes: Single socket capable, no dual socket support.

3rd Generation Intel Xeon-Silver

Notes:

- Processors do not ship with heatsinks, these must be ordered separately.
- Field upgrades from 1st generation processors (x1xx) and 2nd generation processors (x2xx) to 3rd generation processors (x3xx) not supported.
- All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.

Intel Xeon-Silver 4316 2.3GHz 20-core 150W Processor for HPE	P36923-B21
Intel Xeon-Silver 4314 2.4GHz 16-core 135W Processor for HPE	P36922-B21
Intel Xeon-Silver 4310 2.1GHz 12-core 120W Processor for HPE	P36921-B21
Intel Xeon-Silver 4309Y 2.8GHz 8-core 105W Processor for HPE	P36920-B21

Memory Selection

To streamline the configuration process for HPE ProLiant Gen10 Plus servers and to provide the best product availability, HPE recommends memory from the list located here: **https://www.hpe.com/us/en/servers/memory.html**.
Best product availability is limited to US, Canada, and Latin America at this time.

Notes: Maximum memory capacity and speed per processor is dependent on processor model selection or limitation. Also, DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.

HPE DDR4 Memory

Registered DIMMs (RDIMMs)

HPE 16GB (1x16GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06029-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06031-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06033-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P06035-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P07525-B21
HPE 32GB (1x32GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	P40007-B21

Load Reduced DIMMs (LRDIMMs)

HPE 128GB (1x128GB) Quad Rank x4 DDR4-3200 CAS-22-22-22 Load Reduced Smart Memory Kit	P06037-B21
HPE 256GB (1x256GB) Octal Rank x4 DDR4-3200 CAS-26-22-22 Load Reduced 3DS Smart Memory Kit	P06039-B21

Intel Optane Persistent Memory for HPE

Intel Optane 128GB persistent memory 200 Series for HPE	P23532-B21

HPE DDR-4 Blank Kit

HPE DDR4 DIMM Blank Kit	P07818-B21

HPE Optical Drives

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

Notes: HPE DL38X Gen10 Plus Universal Media Bay Kit (P14609-B21) is required for this option on a SFF model. No support in 12 LFF or 24 SFF models.

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

Notes: HPE DL38X Gen10 Plus Universal Media Bay Kit (P14609-B21) is required for this option on a SFF model. No support in 12 LFF or 24 SFF models.

HPE Mobile USB DVD-RW Optical Drive	701498-B21

Notes: This is only supported on USB 3.0 ports.

Core Options

Media Bay Kits

HPE DL38X Gen10 Plus Universal Media Bay Kit P14609-B21

Notes:

- The HPE DL380 Gen10 Universal Media bay provides front Display Port and 2xUSB 2.0; plus support for 2x SFF front drives or 2 NVME front drives (riser required) and ODD support (Not included); and can only be located in Box1 in either an 8 SFF or 8+8 SFF model.
- This is a SFF model option only.

HPE Hard Disk Drives

Mission Critical - 12G SAS - SFF 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

Enterprise - 12G SAS - SFF Drives

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD P28352-B21
HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD P53562-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD P28586-B21
HPE 1TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty HDD P53563-B21
HPE 600GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD P53560-B21
HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD P53561-B21
HPE 300GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD P28028-B21
HPE 300GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD P40430-B21

Midline - 12G SAS - SFF Drives

HPE 2TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty 512e HDD P28505-B21
HPE 900GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD P40432-B21

Midline - 6G SATA - SFF Drives

HPE 2TB SATA 6G Business Critical 7.2K SFF BC 1-year Warranty 512e HDD P28500-B21
HPE 1TB SATA 6G Business Critical 7.2K SFF BC 1-year Warranty HDD P28610-B21

Midline - 12G SAS - LFF Drives

HPE 20TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P53553-B21
HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P37669-B21
HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P23608-B21
HPE 14TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD P09155-B21
HPE 12TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD 881781-B21
HPE 10TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD P53556-B21
HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 834031-B21
HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 861746-B21
HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 833928-B21
HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 833926-B21

Midline - 6G SATA - LFF Drives

HPE 20TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P53554-B21
HPE 18TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P37678-B21
HPE 16TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD P23449-B21
HPE 14TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD P09165-B21
HPE 12TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD 881787-B21
HPE 10TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD P53557-B21
HPE 8TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 834028-B21
HPE 6TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD 861742-B21
HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD 861683-B21

Core Options

HPE 2TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861681-B21
HPE 1TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861686-B21

SSD Selection

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

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

HPE 3.84TB SAS 24G Read Intensive SFF BC Self-encrypting FIPS PM6 SSD	P41398-B21
HPE 3.84TB SAS Read Intensive SFF BC Self-encrypting FIPS 140-3 PM7 SSD	P63875-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Self-encrypting FIPS PM6 SSD	P41399-B21

Notes:

- For non-SED SAS4 drives: 24G SAS speeds require U.3 backplane/cage and choice of either SR932i-p, or SR416i-a Tri-Mode controller. Otherwise downclocks to 12G SAS.
- For SED SAS4 drives: SED capability requires choice of either MR416i-a, MR416i-p, MR216i-a or MR216i-p Tri-Mode controller and will run at 12G speeds.

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

HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-B21
HPE 7.68TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40509-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49041-B21
HPE 3.84TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40508-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49035-B21
HPE 1.92TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40507-B21
HPE 1.92TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49031-B21
HPE 960GB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40506-B21
HPE 960GB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49029-B21

Notes: For non-SED SAS4 drives: 24G SAS speeds require U.3 backplane/cage and choice of either SR932i-p, or SR416i-a Tri-Mode controller. Otherwise downclocks to 12G SAS.

Mixed Use - 24G SAS - SFF - Solid State Drives

HPE 800GB SAS 24G Mixed Use SFF BC Self-encrypting FIPS PM6 SSD	P41400-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Self-encrypting FIPS PM6 SSD	P41401-B21

Notes:

- For non-SED SAS4 drives: 24G SAS speeds require U.3 backplane/cage and choice of either SR932i-p, or SR416i-a Tri-Mode controller. Otherwise downclocks to 12G SAS.
- For SED SAS4 drives: SED capability requires choice of either MR416i-a, MR416i-p, MR216i-a or MR216i-p Tri-Mode controller and will run at 12G speeds.

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

HPE 1.6TB SAS Mixed Use SFF BC Self-encrypting FIPS 140-3 PM7 SSD	P63871-B21
HPE 6.4TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49057-B21
HPE 3.84TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40512-B21
HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49053-B21
HPE 1.92TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40511-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-B21
HPE 960GB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40510-B21
HPE 800GB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49047-B21

Very Read Optimized - 6G SATA - SFF - Solid State Drives

HPE 7.68TB SATA 6G Very Read Optimized SFF BC 5400 SSD	P58228-B21

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

HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC PM893 SSD	P44010-B21

Core Options

HPE 1.92TB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58240-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC PM893 SSD	P44009-B21
HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21
HPE 480GB SATA 6G Read Intensive SFF BC PM893 SSD	P44007-B21
HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-B21
HPE 960GB SATA 6G Read Intensive SFF BC PM893 SSD	P44008-B21
HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-B21
Mixed Use - 6G SATA - SFF - Solid State Drives	
HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40505-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58248-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC PM897 SSD	P44013-B21
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-B21
HPE 960GB SATA 6G Mixed Use SFF BC PM897 SSD	P44012-B21
HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-B21
HPE 480GB SATA 6G Mixed Use SFF BC PM897 SSD	P44011-B21
Mixed Use - 12G SAS - LFF –Solid State Drives	
HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD	P37009-B21
Very Read Optimized - 6G SATA - LFF - Solid State Drives	
HPE 7.68TB SATA 6G Very Read Optimized LFF LPC 5400 SSD	P58232-B21
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 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50224-B21
HPE 15.3TB NVMe RI SFF BC U.3 CM7 SSD	P63841-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64848-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50222-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47847-B21
HPE 7.68TB NVMe RI SFF BC U.3 CM7 SSD	P63837-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.2 P5520 SSD	P51457-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64846-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50219-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47846-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.2 P5520 SSD	P51455-B21
HPE 3.84TB NVMe RI SFF BC U.3 CM7 SSD	P63833-B21
HPE 1.92TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64844-B21
HPE 1.92TB NVMe RI SFF BC U.3 CM7 SSD	P63829-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50216-B21
HPE 1.9TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47845-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.2 P5520 SSD	P51453-B21
HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64842-B21
HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47844-B21
Mixed Use - NVMe - SFF - Solid State Drives	
HPE 1.6TB NVMe MU SFF BC U.3 CM7 SSD	P63845-B21
HPE 3.2TB NVMe MU SFF BC U.3 CM7 SSD	P63849-B21
HPE 6.4TB NVMe MU SFF BC U.3 CM7 SSD	P63853-B21
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65023-B21

Core Options

HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50233-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.2 P5620 SSD	P51463-B21
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47840-B21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65015-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50230-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.2 P5620 SSD	P51461-B21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47839-B21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65007-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50227-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.2 P5620 SSD	P51459-B21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47838-B21
HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P64999-B21
HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47837-B21

Mixed Use - NVMe - SFF – FIPS Solid State Drives

HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41405-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41404-B21

Read Intensive - NVMe - SFF – FIPS Solid State Drives

HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41403-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41402-B21

Notes:

- With CM6 FIPS drives: If any of the NVMe SED drive is selected then either Direct Attach (NVMe Trigger or Slimline Riser or AROC to NVMe Adapter) or any MR series tri mode controller must be selected. SED Drive max quantity selection is dependent on selection of tri mode controllers or Direct Attach method selected (Refer Controller/ Riser Cards/ NVMe Enablement Setting category for details of Drive cage and Qty of Drive supported).
- With CM6 FIPS drives – supported MR Series Tri Mode Controllers:
  - P26279-B21 - Broadcom MR416i-a Controller for HPE Gen10 Plus
  - P06367-B21 - Broadcom MR416i-p Controller for HPE Gen10 Plus
  - P26325-B21 - Broadcom MR216i-a Controller for HPE Gen10 Plus
  - P26324-B21 - Broadcom MR216i-p Controller for HPE Gen10 Plus
- With Direct Attach SED drives:
  - TPM2.0 is required for Local Key Management. Keys will be encrypted locally by TPM and stored locally.
  - iLO Adv is required for Remote Key Management. Key is stored in remote key manager.
- With MR controller SED drives:
  - TPM is not required for Local Key Management as Key is stored in controller
  - iLO Adv is required for Remote Key Management. Key is stored in remote key manager.

Hard Drive Blank Kits

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

Hard Drive Kits

HPE DL38X Gen10 Plus 2LFF Low Profile Secondary Riser Kit	P25903-B21
HPE ProLiant DL38X Gen10 Plus 2SFF x4 Tri-Mode 24G U.3 BC Front/Tertiary Drive Cage Kit	P26922-B21
HPE ProLiant DL300 Gen10 Plus 2U 2SFF x4 Tri-Mode 24G U.3 BC Side-by-Side Drive Cage Kit	P26924-B21
HPE ProLiant DL300 Gen10 Plus 2U 8SFF SAS/SATA 12G BC Front Bay 1/2 Drive Cage Kit	P26930-B21
HPE ProLiant DL300 Gen10 Plus 2U 8SFF x4 Tri-Mode 24G U.3 BC Front Drive Cage Kit	P26931-B21
HPE ProLiant DL300 Gen10 Plus 2U 8SFF x4 NVMe 16G U.2 BC Front Drive Cage Kit	P26932-B21
HPE ProLiant DL300 Gen10 Plus 2U 8SFF x1 Tri-Mode 24G U.3 BC Front Drive Cage Kit	P27194-B21
HPE ProLiant DL38X Gen10 Plus 2LFF Primary Riser Cage Kit	P14579-B21
HPE ProLiant DL38X Gen10 Plus 2LFF Tertiary Riser Cage Kit	P14580-B21

Core Options

HPE DL38X Gen10 Plus Universal Media Bay Kit	P14609-B21
HPE ProLiant DL38X Gen10 Plus 4LFF SAS/SATA 12G LP Midplane Drive Cage Kit	P26919-B21
HPE ProLiant DL380 Gen10 Plus 2SFF SAS/SATA 12G BC x16 Slot 3 Primary/Secondary Riser Kit	P26920-B21
HPE ProLiant DL380 Gen10 Plus 2SFF SAS/SATA 12G BC Front/Tertiary Stackable Drive Cage Kit	P26923-B21
HPE ProLiant DL300 Gen10 Plus 2U 2SFF SAS/SATA 12G BC Side-by-Side Drive Cage Kit	P26925-B21
HPE ProLiant DL38X Gen10 Plus 8SFF x1 Tri-Mode 24G U.3 BC Midplane Drive Cage Kit	P27193-B21
HPE ProLiant DL300 Gen10 Plus 2U 8SFF x4 Tri-Mode 24G U.3 BC Midplane Drive Cage Kit	P39769-B21

HPE Networking

1 Gigabit Ethernet adapters

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

10 Gigabit Ethernet adapters

Notes: Unless otherwise noted, one of the below 10Gb networking adapters below can be selected as the primary networking choice when configuring a Networking Choice (NC) Configure-to-Order (CTO) chassis. The DL380 Gen10 NC CTO chassis does not come with embedded networking, hence the requirement to configure with either a FlexibleLOM or select PCIe networking adapter.

Marvell QL41134HLCU Ethernet 10Gb 4-port SFP+ Adapter for HPE	P10094-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21
Marvell QL41132HLRJ Ethernet 10Gb 2-port BASE-T Adapter for HPE	P08437-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
Marvell QL41132HLCU Ethernet 10Gb 2-port SFP+ Adapter for HPE	P21933-B21

25 Gigabit Ethernet adapters

Notes: Unless otherwise noted, one of the below 10/25Gb networking adapters below can be selected as the primary networking choice when configuring a Networking Choice (NC) Configure-to-Order (CTO) chassis. The DL380 Gen10 Plus NC CTO chassis does not come with embedded networking, hence the requirement to configure with either an OCP3 or select PCIe networking adapter.

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

Notes: Could observe sub-optimal performance if installed in x8 slot.

Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21
Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P13188-B21

Notes: Could observe sub-optimal performance if installed in x8 slot.

Marvell QL41232HLCU Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P22702-B21
Xilinx X2522-25G-PLUS Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P21109-B21

100 Gigabit Ethernet Adapters

HPE NV60100M 100Gb 2-port Storage Offload Adapter	R8M41A
HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter	P31246-B21

Notes:

- Could observe sub-optimal performance if installed in x8 slot.
- Not allowed in slots 3 or 6

Core Options

Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE P25960-B21

Recommended System Ambient Temperature		
System Config	**P31246-B21**	**P25960-B21**
8LFF	25C	25C
24SFF	25C	25C
16SFF	30C	30C
8SFF	30C	30C

Other Restrictions

1. These cards are not supported with 12LFF CTO config.
2. These cards are not supported with mid-tray drive cages for both LFF/SFF chassis.
3. Required to use Max Performance Fan Kit
4. Only supported on 1/2/4/5/7 PCIe slots, not supported in slots 3, and 6.

Notes:

- 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.
- Not allowed in slots 3 or 6

Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE P21112-B21

Notes:

- Could observe sub-optimal performance if installed in x8 slot.
- Not allowed in slots 3 or 6

200 Gigabit Ethernet Adapters

Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE P10180-B21

Recommended Ambient Temparate	
System Config	P10180-B21
8LFF	23C
24SFF	23C
16SFF	30C
8LFF	30C

Other Restrictions

1. These cards ar note supported with 12LFF CTO config.
2. These cards are not supported with mid-tray drive cages for both LFF/SFF chassis.
3. Required to use Max Performance Fan Kit
4. Only supported on 1/2/4/5/7 PCIe slots, not supported in slots 3, and 6.

200 Gigabit Slingshot Adapters

HPE Slingshot SA210S Ethernet 200Gb 1-port PCIe NIC R4K46A

Notes:

- This option requires the selection of Max Performance Fan Kit (P14608-B21).
- This option cannot be selected with 12LFF Model X.
- Max = 3
- Can only be selected or configured for a Cray Shasta Solutions or Rogue Solutions. Not configurable for Non-Cray or Non-Rogue Solutions.

OCP 3.0 Adapters

Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE P51181-B21
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE P08449-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE P10097-B21
Marvell QL41132HQRJ Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE P10103-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE P26256-B21

Core Options

Intel X710-DA2 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P28778-B21
Marvell QL41132HQCU Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P08452-B21
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE	P26269-B21
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21
Mellanox MCX562A-ACAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10112-B21

Notes: Adapter operates in either x8 or x16 mode. If x16 is desired, must select the HPE ProLiant DL300 Gen10 Plus OCP x16 Enablement Kit (P36661-B21)

Marvell QL41232HQCU Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10118-B21
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	P22767-B21

Notes:

- Requires selection of HPE DL300 Gen10+ OCP x16 enablement Kit (P36661-B21).
- This option requires the selection of Max Performance Fan Kit (P14608-B21).
- This option cannot be selected with 12LFF Model X and 24SFF Model X.
- This option cannot be selected if 4LFF Midtray (P26919-B21/ P55700-B21) or 8SFF x1 Mid Tray (P27193-B21) or 8SFF U.3 x4 Mid Tray (P39769-B21) is selected.

OCP 3.0 Enablement

HPE ProLiant DL300 Gen10 Plus OCP x16 Enablement Kit	P36661-B21

HPE InfiniBand

HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter	P31323-B21
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	P31348-B21

Recommended System Ambient Temperature			
System Config	**DIMM Capacity**	**P31323-B21**	**P31348-B21**
8LFF (SAS/SATA)	64GB	20C*	20C*
16SFF (SAS/SATA)	64GB	25C	25C
8SFF (SAS/SATA)	64GB	25C	25C
8SFF (NVMe)	64GB	20C*	20C*
16SFF (SAS/SATA)	128GB	20C*	20C*
8SFF (SAS/SATA)	128GB	20C*	20C*

Other Restrictions

1. These cards are not supported with 12LFF/24SFF CTO config.
2. These cards are not supported with mid-tray drive cages for both LFF/SFF chassis.
3. Required to use Max Performance Fan Kit
4. Not supported with DIMMs with more than 128GB
5. Not supported with CPUs more than 240W
6. Only supported on 1/2/4/5/7 PCIe slots, not supported in slots 3, and 6.
7. Could observe sub-optimal performance if installed in x8 slot.

Notes:

- *Using V2 AOC cables causes a 3 degree Celsius drop in ambient temperature requirements (20C – 3C = 17C). No support for P31323-B21, andP31348-B21 when ambient temperature is below 20C. List of V2 AOC cables:
  - 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

Core Options

HPE InfiniBand NDR200 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter P45642-B21

Recommended Ambient Temparate		
System Config	**Qty per server**	**P45642-B21 HPE InfiniBand NDR200 + AOC cable**
8SFF	1	25C
16SFF	1	25C
24SFF	1	25C
8LFF	1	25C
12LFF	1	25C

Other Restrictions

1. This card is not supported with mid-tray drive cages for both LFF/SFF chassis.
2. Required to use Max Performance Fan Kit
3. Only supported on 1/2/4/5/7 PCIe slots, not supported in slots 3, and 6.
4. Could observe sub-optimal performance if installed in x8 slot.

HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter P23664-B21

Recommended Ambient Temparate	
System Config	**P23664-B21**
8SFF	30C
24SFF	30C
16SFF	30C
8LFF	30C

Other Restrictions

1. These cards ar note supported with 12LFF CTO config.
2. These cards are not supported with mid-tray drive cages for both LFF/SFF chassis.
3. Required to use Max Performance Fan Kit
4. Only supported on 1/2/4/5/7 PCIe slots, not supported in slots 3, and 6.
5. Could observe sub-optimal performance if installed in x8 slot.

Notes:

- Using V2 AOC cables causes a 3 degree Celsius drop in ambient temperature requirements (30C – 3C = 27C). No support for P23664-B21 when ambient temperature is below 20C. List of V2 AOC cables:
  - 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 InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter P31324-B21

Recommended System Ambient Temperature	
System Config	**P31324-B21**
8LFF	25C
24SFF	25C
16SFF	30C
8SFF	30C

Other Restrictions

1. These cards are not supported with 12LFF CTO config.
2. These cards are not supported with mid-tray drive cages for both LFF/SFF chassis.
3. Required to use Max Performance Fan Kit
4. Only supported on 1/2/4/5/7 PCIe slots, not supported in slots 3, and 6.
5. Could observe sub-optimal performance if installed in x8 slot.

Core Options

Notes:

- Using V2 AOC cables causes a 3 degree Celsius drop in ambient temperature requirements (25C – 3C = 22C). No support for P31324-B21 when ambient temperature is below 20C. List of V2 AOC cables:
  - 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 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter 829335-B21

Notes:

- Not allowed in slots 3 or 6

HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter P23665-B21

Notes:

- Could observe sub-optimal performance if installed in x8 slot.
- Not allowed in slots 3 or 6

HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter P23666-B21

Recommended Ambient Temparate		
System Config	P23665-B21	P23666-B21
8LFF	30C	30C
24SFF	30C	30C
16SFF	30C	30C
8LFF	30C	30C

Other Restrictions

5. These cards ar note supported with 12LFF CTO config.
6. These cards are not supported with mid-tray drive cages for both LFF/SFF chassis.
7. Required to use Max Performance Fan Kit
8. Only supported on 1/2/4/5/7 PCIe slots, not supported in slots 3, and 6.
9. Could observe sub-optimal performance if installed in x8 slot.

Notes:

- Using V2 AOC cables causes a 3 degree Celsius drop in ambient temperature requirements (30C – 3C = 27C). No support for P23665-B21 and P23666-B21 when ambient temperature is below 20C. List of V2 AOC cables:
  - 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 Smart IO

Pensando Distributed Services Card (DSC)

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

Notes:

- Legacy FIO Mode (758959-B22) not supported with this option on Networking Choice (NC) Configure-to-Order (CTO) chassis. To continue with the combined selection of this networking option and Legacy FIO Mode on NC CTO chassis, an additional networking option (stand-up NIC or FlexibleLOM) without the Legacy FIO mode restriction must be selected.
- DSC card must be installed in slot 1 when configured with Pensando for HPE iLO Adaptive LOM module (P26969-B21)

Core Options

- Each card instance requires one RTU license of Silver or Platinum software. In case of more than one adapter, RTU licenses do not need to be of the same part number.
- One 3yr/4yr/5yr Silver or 3yr/4yr/5yr Platinum software license must be purchased for every DSC-25 card/adapter in a server.
- 1yr Silver, 1yr Platinum software licenses are reserved for renewals only.

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

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 I/O Expansion Options

Notes:

- The Primary Riser shipping default in the chassis is a x8 FH, FL, x16 FH, FL and x8 FH, HL.
- For a Secondary/Tertiary riser, the second processor is required.
- x16 cards installed on x8 slots could observe sub-optimal performance.

HPE ProLiant DL380 Gen10 Plus x8/x16/x8 Primary FIO Riser Kit P37038-B21

HPE DL38X Gen10 Plus x8/x16/x8 Secondary Riser Kit P14587-B21

Notes:

- Requires selection of a 2nd processor
- x16 cards installed on x8 slots could observe sub-optimal performance.

HPE DL38X Gen10 Plus x8/x8 Tertiary Riser Kit P14581-B21

Notes:

- Requires selection of a 2nd processor
- x16 cards installed on x8 slots could observe sub-optimal performance.

HPE DL38X Gen10 Plus x16 Tertiary Riser Kit P14588-B21

Notes: Requires selection of a 2nd processor

HPE DL38X Gen10 Plus x16/x16 Slot 1/2 Secondary Riser Kit P14589-B21

Notes: Requires selection of a 2nd processor

HPE DL38X Gen10 Plus x16/x16 Slot 2/3 Secondary Riser Kit P14590-B21

Notes: Requires selection of a 2nd processor

HPE DL38X Gen10 Plus x16/x16 Slot 1/2 FIO Riser Kit P14592-B21

HPE DL38X Gen10 Plus x16/x16 Slot 2/3 FIO Riser Kit P14599-B21

HPE DL38X Gen10 Plus Slot1 x16 Adder for Slot2/3 Riser Kit P14600-B21

Notes: Requires selection of a 2nd processor

HPE ProLiant DL380 Gen10 Plus 2-port 4NVMe x16 SlimSAS Secondary Riser Kit P27089-B21

Notes: Requires selection of a 2nd processor

HPE ProLiant DL380 Gen10 Plus 2-port 4NVMe x16 SlimSAS Primary Riser Kit P27090-B21

HPE ProLiant DL380 Gen10 Plus 3-port 6NVMe x8 SlimSAS Primary Riser Kit P27091-B21

Notes: x16 cards installed on x8 slots could observe sub-optimal performance.

HPE ProLiant DL380 Gen10 Plus 4-port 8NVMe SlimSAS Primary Riser Kit P27092-B21

HPE ProLiant DL380 Gen10 Plus 2-port 4NVMe SlimSAS Tertiary Riser Kit P27093-B21

Notes: Requires selection of a 2nd processor

Core Options

HPE ProLiant DL380 Gen10 Plus 3-port 6NVMe x8 SlimSAS Secondary Riser Kit	P35416-B21

Notes:
- Requires selection of a 2nd processor
- x16 cards installed on x8 slots could observe sub-optimal performance.

HPE ProLiant DL380 Gen10 Plus 4-port 8NVMe SlimSAS Secondary Riser Kit	P35417-B21

Notes: Requires selection of a 2nd processor

HPE DL385 Gen10 Plus Primary/Secondary Riser Cage without Retainer Clip	P38771-B21
HPE DL385 Gen10 Plus Tertiary Riser Cage without Retainer Clip	P38774-B21
HPE DL38X Gen10 Plus Primary NEBS-compliant Riser Kit	P14575-B21

Notes: Requires selection of HPE DL38X Gen10 Plus Tertiary NEBS-compliant Riser Kit (P14577-B21)

HPE DL38X Gen10 Plus Tertiary NEBS-compliant Riser Kit	P14577-B21

Notes: Requires selection of a 2nd processor

HPE DL38X Gen10 Plus x8/x16/x8 Secondary Riser Kit	P14587-B21

Notes:
- Requires selection of a 2nd processor
- x16 cards installed on x8 slots could observe sub-optimal performance.

Risers

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	This is the default riser in the chassis	D	N	N	x8	x16	x8	-	-
P37038-B21	HPE DL380 Gen10 Plus x8/x16/x8 Prim FIO Kit	O	N	N	x8	x16	x8	-	-
P14587-B21	HPE DL38X Gen10 Plus x8/x16/x8 Sec Riser Kit	O	O	N	x8	x16	x8	-	-
P14581-B21	HPE DL38X Gen10 Plus 2x8 Tertiary Riser Kit	N	N	O	x8	x8	-	-	-
P14588-B21	HPE DL38X Gen10 Plus x16 Tertiary Riser Kit	N	N	O	x16	-	-	-	-
P14589-B21	HPE DL38X Gen10 Plus 2x16 Slot 1/2 Riser Kit	O	O	N	x16	x16	-	-	-
P14590-B21	HPE DL38X Gen10 Plus 2x16 Slot 2/3 Riser Kit	O	O	N	-	x16	x16	-	-
P14592-B21	HPE DL38X Gen10 Plus 2x16 Slot 1/2 FIO Kit	O	N	N	x16	x16	-	-	-
P14599-B21	HPE DL38X Gen10 Plus 2x16 Slot 2/3 FIO Kit	O	N	N	-	x16	x16	-	-
P14600-B21	HPE DL38X Gen10 Plus Slot1 x16 Slot2/3 Kit	O	O	N	x16	-	-	-	-
P27089-B21	HPE DL380 Gen10 Plus 2p x16 SlimSAS Sec Kit	N	O	N	-	x16	-	2	4
P27090-B21	HPE DL380 Gen10 Plus 2p x16 SlimSAS Prim Kit	O	N	N	-	x16	-	2	4
P27091-B21	HPE DL380 Gen10 Plus 3p x8 SlimSAS Prim Kit	O	N	N	-	x8	-	3	6

Core Options

Part number	Description	Primary	Secondary	Tertiary	Top slot	Middle Slot	Bottom slot	Ports	Drive count
P27092-B21	HPE DL380 G10+ 4p SlimSAS Prim Riser Kit	O	N	N	-	-	-	4	8
P27093-B21	HPE DL380 Gen10 Plus 2p SlimSAS Tertiary Kit	N	N	O	-	-	-	2	4
P35416-B21	HPE DL380 Gen10 Plus 3p x8 SlimSAS Sec Kit	N	O	N	-	x8	-	3	6
P35417-B21	HPE DL380 G10+ 4p SlimSAS Sec Riser Kit	N	O	N	-	-	-	4	8
P38771-B21	HPE DL38X Gen10 Plus PRI/SEC wo Retainer Kit	O	O	N	-	-	-	-	-
P38774-B21	HPE DL38X Gen10 Plus Ter wo Retainer Kit	N	O	O	-	-	-	-	-
P14575-B21	HPE DL38X Gen10 Plus Prim NEBS Riser Kit	O	O	N	x8	x8	x8	-	-
P14577-B21	HPE DL38X Gen10 Plus Tertiary NEBS Riser Kit	N	O	O	x16	-	-	-	-
P25903-B21	HPE DL38X Gen10 Plus 2LFF Low Profile Secondary Riser Kit	N	O	N	-	-	-	-	-
P14580-B21	HPE ProLiant DL38X Gen10 Plus 2LFF Tertiary Riser Cage Kit	N	N	O	-	-	-	-	-

Notes:

- D = Default on chassis; O = Optional; N = not supported or slot/connector not present.
- x16 cards installed on x8 slots could observe sub-optimal performance.
- *For additional details on ProLiant DL Gen10 Plus server risers please visit: **https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00043229enw**

HPE Power Supplies

European Union Erp Lot 9 Regulation

Beginning on January 1st, 2024, units sold into the European Union (EU), European Economic Area (EEA), the United Kingdom, 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.

865438-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
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 -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 Universal Hot Plug Low Halogen Power Supply Kit 865428-B21
Notes: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit P38995-B21
Notes: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit P03178-B21
Notes: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.

Core Options

HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit	P44712-B21
Notes: Flex Slot Titanium power supplies support power efficiency of up to 96% and are EU Lot 9 compliant.	
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38997-B21
Notes: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).	
HPE 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

HPE Cooling Options

HPE ProLiant DL300 Gen10 Plus 2U Standard Fan Kit	P37042-B21
HPE DL38X Gen10 Plus Maximum Performance Fan Kit	P14608-B21

Notes:

- This kit is required for specific **Ambient temperature environments**.
- High Performance fan kit consists of 6 fans, these will need to replace all the standard fans in the unit, and fill all 6 fan cages.
- The 12 LFF and 24 SFF models (including field upgrades to 24 SFF) will already include 6 High Performance fan kits.
- The High Performance fan kit is needed to support certain ASHRAE operating environments.
- For elevated ambient temperature support please see: **http://www.hpe.com/servers/ashrae**.

HPE ProLiant DL380 Gen10 Plus Standard Heat Sink Kit	P37034-B21
HPE ProLiant DL380 Gen10 Plus High Performance Heat Sink Kit	P27095-B21
Notes: High performance heat sink required for processors with a TDP equal or greater than 150W.	

HPE Computation and Graphics Accelerators

NVIDIA H100 80GB PCIe Accelerator for HPE	R9S41C

Notes:

- Max = 2
- Mixing of different GPU types is not allowed
- Requires the Max Performance Fan Kit (P14608-B21) to be selected.
- Requires the selection of the High Performance Heatsink (P27095-B21)
- NVIDIA H100 SAS4 Drives cannot be selected together.
- NVIDIA H100 and 40Gb or above PCIe Networking/ Infiniband/ Smart IO (HW) Cards cannot be selected together.
- If Qty1 of H100 GPU is selected then any one of below Primary Riser must be selected.
  - P14599-B21 - HPE DL38X Gen10+ 2x16 Slot 2/3 FIO Kit
  - P14592-B21 - HPE DL38X Gen10+ 2x16 Slot 1/2 FIO Kit
  - P27090-B21 - HPE DL380 Gen10+ 2p x16 SlimSAS Prim Kit
- If Qty2 of H100 GPU is selected then any one of below Primary Riser and any one of below Secondary Riser must be selected.
- Primary Riser
  - P14599-B21 - HPE DL38X Gen10+ 2x16 Slot 2/3 FIO Kit
  - P14592-B21 - HPE DL38X Gen10+ 2x16 Slot 1/2 FIO Kit
  - P27090-B21 - HPE DL380 Gen10+ 2p x16 SlimSAS Prim Kit
- Secondary Riser
  - P14590-B21 - HPE DL38X Gen10+ 2x16 S2/3 SEC Rsr Kit
  - - P14589-B21 - HPE DL38X Gen10+ 2x16 S1/2 SEC Rsr Kit

Core Options

- P27089-B21 - HPE DL380 Gen10+ 2p x16 SlimSAS Sec Kit

- If Qty1 of H100 GPU is selected then no other PCIe cards can be populated on Primary Riser. The “PCIe Card Capacity Limits” must account for this limitation.
- If Qty2 of H100 GPU is selected then no other PCIe cards can be populated on Primary and Secondary Risers. The “PCIe Card Capacity Limits” must account for this limitation.
- If Qty1 of H100 GPU is selected then HPE DL380 G10+ 2w Cbl Kit NVIDIA H100 (P59212-B21) must be selected.
- If Qty2 of H100 GPU is selected then HPE DL380 G10+ 3w Cbl Kit NVIDIA H100 (P61423-B21) must be selected.
- If H100 GPU is selected then Drives (NVMe/SAS/SATA) above 11W cannot be selected.
- If H100 GPU is selected then no rear drive cage can be selected.

NVIDIA T4 16GB Computational Accelerator for HPE R0W29C

Notes:

- If more than one GPU is selected, the GPU SKU numbers must match; Mixing of GPUs is not allowed.
- System memory should be 2x GPU memory.
- This option requires the High Performance Fan Kit (P14608-B21) to be selected.
  If this option is being configured into a 12LFF Model-X or 24SFF Model-X, this rule does not apply as these models already come standard with the High Performance Fans.
- This option requires the selection of the High Performance Heatsink (P27095-B21)
- Max of 8 NVMe Drives allowed for selection with this Graphics Option (All NVMe Drives selected must be below 11W).
- If NVMe Drive is selected with this Graphics Option then it can be populated in front cage only. Please consider this limitation while selecting Drives and Drive Cage.
- This Graphics option and SAS4 Drives cannot be selected together
- Graphics Option and 100Gb or above PCIe Networking/ Infiniband/ Smart IO (HW) Cards cannot be selected together.
- Could observe sub-optimal performance if installed in x8 slot.

NVIDIA A16 64GB PCIe Non-CEC Accelerator for HPE R8T26C

Notes:

- Max = 3
- This GPU requires Pwr Cable Kit (P39102-B21) to also be selected.
- This option requires the Max Performance Fan Kit (P14608-B21) to be selected.
- This option requires the selection of the High Performance Heatsink (P27095-B21)
- Max of 8 NVMe Drives allowed for selection with this Graphics Option (All NVMe Drives selected must be below 11W).
- This Graphics option and SAS4 Drives cannot be selected together.
- If Qty 1 of this GPU is selected then Qty 1 of PRI/SEC wo Retainer Kit (P38771-B21) must be selected.
- Graphics Option and 40Gb or above PCIe Networking/ Infiniband/ Smart IO (HW) Cards cannot be selected together.
- This option cannot be selected with 12LFF Model X.

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

Notes:

- Max = 5
- This option requires the Max Performance Fan Kit (P14608-B21) to be selected.
- This option requires the selection of the High Performance Heatsink (P27095-B21)
- This option cannot be selected with 24SFF Model X and 12LFF Model X.
- Max of 8 NVMe Drives allowed for selection with this Graphics Option (All NVMe Drives selected must be below 11W).

Core Options

- This Graphics option and SAS4 Drives cannot be selected together.
- This option requires Power Cable Kit P39100-B21
- Graphics Option and 40Gb or above PCIe Networking/ Infiniband/ Smart IO (HW) Cards cannot be selected together.
- If Qty 1 or 2 of this GPU is selected and can be populated in primary riser then PRI/SEC wo Retainer Kit (P38771-B21) need not be selected.

NVIDIA A30 PCIe Non-CEC Accelerator for HPE R9S38C

Notes:

- Max = 3
- This GPU requires Pwr Cable Kit (P39102-B21) to also be selected.
- This option requires the Max Performance Fan Kit (P14608-B21) to be selected.
- This option requires the selection of the High Performance Heatsink (P27095-B21)
- Max of 8 NVMe Drives allowed for selection with this Graphics Option (All NVMe Drives selected must be below 11W).
- This Graphics option and SAS4 Drives cannot be selected together.
- If Qty 1 of this GPU is selected then Qty 1 of PRI/SEC wo Retainer Kit (P38771-B21) must be selected.
- Graphics Option and 40Gb or above PCIe Networking/ Infiniband/ Smart IO (HW) Cards cannot be selected together.

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

Notes:

- Requires HPE DL38X Gen10+ PRI/SEC w/o Retainer Kit (P38771-B21)
- Requires HPE DL38X Gen10+ Ter w/o Retainer Kit (P38774-B21) if tertiary riser is selected
- This option requires the High Performance Fan Kit (P14608-B21) to be selected.
- This option requires the High Performance Heat sink (P27095-B21)
- System memory should be 2x GPU memory.
- Max of 8 NVMe drives allowed with this GPU, all NVMe drives must be under 11W
- This GPU and SAS4 drives cannot be selected together.
- This GPU and 40Gb or above Networking/InfiniBand/Smart IO adapters cannot be selected together.
- If NVMe Drive is selected with this Graphics Option then it can be populated in front cage only. Please consider this limitation while selecting Drives and Drive Cage.
- This Graphics option and SAS4 Drives cannot be selected together
- Graphics Option and 100Gb or above PCIe Networking/ Infiniband/ Smart IO (HW) Cards cannot be selected together.

NVIDIA A40 48GB PCIe Non-CEC Accelerator for HPE R9S37C

Notes:

- Requires High Performance Fan Kit (P14608-B21).
- System memory should be 2x GPU memory.
- Requires HPE ProLiant DL380 Gen10 Plus High Performance Heat Sink Kit (P27095-B21)
- Requires HPE DL38X Gen10 Plus Maximum Performance Fan Kit (P14608-B21)
- Requires HPE DL38X Gen10+ PRI/SEC w/o Retainer Kit (P38771-B21) if qty is more than 1.
- Requires HPE DL38X Gen10+ Ter w/o Retainer Kit (P38774-B21) if tertiary riser is selected
- Maximum Qty=3
- A Maximum of 8 NVMe Drives allowed when any quantity GPU is selected (All NVMe Drives selected must be below 11W).
- If NVMe Drive is selected with this Graphics Option then it can be populated in front cage only. Please consider this limitation while selecting Drives and Drive Cage.

Core Options

NVIDIA A100 80GB PCIe Non-CEC Accelerator for HPE R9P49C

Notes:

- Requires High Performance Fan Kit (P14608-B21).
- System memory should be 2x GPU memory.
- Requires HPE ProLiant DL380 Gen10 Plus High Performance Heat Sink Kit (P27095-B21)
- Requires HPE DL38X Gen10 Plus Maximum Performance Fan Kit (P14608-B21)
- Requires HPE DL38X Gen10+ PRI/SEC w/o Retainer Kit (P38771-B21)
- Requires HPE DL38X Gen10+ Ter w/o Retainer Kit (P38774-B21) if tertiary riser is selected
- Max = 2
- A Maximum of 8 NVMe Drives allowed when any quantity GPU is selected (All NVMe Drives selected must be below 11W).
- If NVMe Drive is selected with this Graphics Option then it can be populated in front cage only. Please consider this limitation while selecting Drives and Drive Cage.

NVIDIA L4 24GB PCIe Accelerator S0K89C

Notes:

- If more than one GPU is selected, all the part numbers must match; Mixing of GPUs is not allowed.
- This option requires the Max Performance Fan Kit (P14608-B21) to be selected. If this option is being configured into a 24SFF Model-X, this rule does not apply as these models already come standard with the Max Performance Fans.
- If this graphics option is selected, the system memory capacity must be less than 128TB
- This option requires the selection of the High Performance Heatsink (P27095-B21)
- This GPU and NEBS Riser cannot be selected together.
- This Graphics option and SAS4 Drives cannot be selected together.
- Graphics Option and 40Gb or above PCIe Networking/ Infiniband/ Smart IO (HW) Cards cannot be selected together.
- This option cannot be selected with 12LFF Model X.
- If configured with Ship-To destination of China, then OCA and CLIC to fire warning with the following message: "This SKU may contain components that have been deemed by the Cyberspace Administration of China (CAC) to pose a security concern."

NVIDIA L40 48GB PCIe Accelerator S0K90C

Notes:

- If more than one GPU is selected, all the part numbers must match; Mixing of GPUs is not allowed.
- A Max Qty=1 Doublewide GPU per riser.
- Supported only on 8SFF Model X
- If Qty=3 of 8SFF Front drive cage and HPE 8SFF Front Remove SPEC Perf FIO is selected then this GPU cannot be selected
- If Qty=2 of 8SFF Front drive cage is selected along with Universal Media bay and 2SFF front drive cage then this GPU cannot be selected
- Max Qty=2 of this GPU is allowed per server.
- Requires the Max Performance Fan Kit (P14608-B21) to be selected.
- If this graphics option is selected, the system memory capacity must be less than 128TB
- This option requires the selection of the High Performance Heatsink (P27095-B21)
- This GPU and NEBS Riser cannot be selected together.
- This Graphics option and SAS4 Drives cannot be selected together.
- If Qty 1 of this GPU is selected and can be populated in primary riser then PRI/SEC wo Retainer Kit (P38771-B21) need not be selected.

Core Options

- If Qty 1 of this GPU is selected and cannot be populated in primary riser then any one of below condition to be met:
- Qty1 of PRI/SEC wo Retainer Kit (P38771-B21) if no tertiary riser (except 2port Slimline Tertiary (P27093-B21)) is selected
- Qty1 of Ter wo Retainer Kit (P38774-B21) must be selected if Tertiary Riser (except 2port Slimline Tertiary (P27093-B21)) is also present in configuration.
- If Qty 2 of this GPU is selected then anyone of below combination must be selected:
- Qty1 of PRI/SEC wo Retainer Kit (P38771-B21) if no tertiary riser (except 2port Slimline Tertiary (P27093-B21)) is selected
- Qty1 of Ter wo Retainer Kit (P38774-B21) must be selected if Tertiary Riser (except 2port Slimline Tertiary (P27093-B21)) is also present in configuration.
- Graphics Option and 40Gb or above PCIe Networking/ Infiniband/ Smart IO (HW) Cards cannot be selected together.
- L40 GPU can be installed only on Primary and secondary riser and cannot be installed on tertiary riser. The “PCIe Card Capacity Limits” must account for this limitation.
- If Qty1 L40 GPU is selected then any one of below Primary Riser must be selected.
  - P14599-B21 - HPE DL38X Gen10+ 2x16 Slot 2/3 FIO Kit
  - P14592-B21 - HPE DL38X Gen10+ 2x16 Slot 1/2 FIO Kit
  - P27090-B21 - HPE DL380 Gen10+ 2p x16 SlimSAS Prim Kit
- If Qty2 of H100/ L40 GPU is selected then any one of below Primary Riser and any one of below Secondary Riser must be selected.
  - Primary Riser
    - P14599-B21 - HPE DL38X Gen10+ 2x16 Slot 2/3 FIO Kit
    - P14592-B21 - HPE DL38X Gen10+ 2x16 Slot 1/2 FIO Kit
    - P27090-B21 - HPE DL380 Gen10+ 2p x16 SlimSAS Prim Kit
  - Secondary Riser
    - P14590-B21 - HPE DL38X Gen10+ 2x16 S2/3 SEC Rsr Kit
    - P14589-B21 - HPE DL38X Gen10+ 2x16 S1/2 SEC Rsr Kit
    - P27089-B21 - HPE DL380 Gen10+ 2p x16 SlimSAS Sec Kit
- If Qty1 of L40 GPU is selected then no other PCIe cards can be populated on Primary Riser. The “PCIe Card Capacity Limits” must account for this limitation.
- If Qty2 of L40 GPU is selected then no other PCIe cards can be populated on Primary and Secondary Risers. The “PCIe Card Capacity Limits” must account for this limitation.
- If Qty1 of L40 GPU is selected then HPE DL380 G10+ 2w Cbl Kit NVIDIA H100 (P59212-B21) must be selected.
- If Qty2 of L40 GPU is selected then HPE DL380 G10+ 3w Cbl Kit NVIDIA H100 (P61423-B21) must be selected.
- If L40 GPU is selected then Drives (NVMe/SAS/SATA) above 11W cannot be selected.
- If L40 GPU is selected then no rear drive cage can be selected.
- If configured with Ship-To destination of China, then OCA and CLIC to fire warning with the following message:
  - "This SKU may contain components that have been deemed by the Cyberspace Administration of China (CAC) to pose a security concern."

Core Options

HPE ProLiant DL300 Gen10 Plus GPU 8-pin Keyed Cable Kit	P39102-B21
HPE ProLiant DL380 Gen10 Plus 8-pin/12-pin 2-way Power Cable Kit for NVIDIA H100 GPU	P59212-B21
HPE ProLiant DL380 Gen10 Plus 8-pin/12-pin 3-way Power Cable Kit for NVIDIA H100 GPU	P61423-B21

GPU Information

HPE DL380 Gen10 Plus Configuration

Part number	Card	Qty supp.	PCIe	8/16 SFF[3]	24 SFF[3] (Or 8 SSF/16 SFF if >1 SFF is NVMe storage	8LFF[3] w/ Power Switch	12LFF[3]
R9P49C[1,2,6]	NVIDIA A100 80GB PCIe NonCEC Accelerator	2	Gen4	25C	Not supported	20C	Not supported
R6B53C[1,2,6]	NVIDIA A100 40GB PCIe Computational Accelerator for HPE	3	Gen4	30C	20C (not recommended support)	25C	20C
R7E31C[1,2,6]	NVIDIA A40 48GB PCIe Graphics Accelerator for HPE	2	Gen4	25C	20C (not recommended support)	22C	Not supported
R9S37C [1,2,6]	NVIDIA A40 48GB PCIe Non-CEC Accelerator for HPE	3	Gen4	25C	20C (not recommended support)	22C	Not supported
R7G39C[1,2,6]	NVIDIA A30 24GB PCIe Accelerator for HPE	3	Gen4	30C	30C	30C	30C
R7G40C[1,2,4]	NVIDIA A10 24GB PCIe Accelerator for HPE	5	Gen4	25C	15C (not supported)	25C	15C (Not supported)
R9H23C[1,2,5]	NVIDIA A2 16GB PCIe NonCEC Accelerator	8	Gen4	35C (>30C may throttle)	35C (>30C may throttle)	35C (>30C may throttle)	20C
R0W29C[1,2,5]	HPE NVIDIA Tesla T4 16GB Module	8	Gen3	35C (>30C may throttle)	35C (>30C may throttle)	35C (>30C may throttle)	25C

Notes:

- [1] Requires High Performance Fan Kit (P14608-B21).
- [2] Supported on CPUs with 270W TDP or below.
- [3] Temperatures shown in column are for ambient temperature in degrees Celsius.
- [4] Requires DL300 Gen10 Plus GPU 2x8p Cable Kit (P39100-B21)
- [5] Could observe sub-optimal performance if installed in x8 slot.
- [6] Requires HPE DL300 Gen10 Plus GPU 8p Keyed Cable Kit (P39102-B21)
- System memory should be 2x GPU memory.
- There is no Energy Star certification with Graphic cards.

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 Common Password FIO Setting

HPE iLO Common Password FIO Setting P08040-B21

Notes:

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

HPE iLO Advanced

HPE iLO Advanced 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 Flexible Quantity License with 1yr Support on iLO Licensed Features 512486-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 Flexible Quantity License with 3yr Support on iLO Licensed Features BD506A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features BD507A

HPE Converged Infrastructure Management Software

HPE OneView including 3yr 24x7 Support Physical 1-server LTU E5Y34A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU E5Y35AAE
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 Flexible Quantity E-LTU P8B26AAE

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

Software as a Service Management

HPE GreenLake for Compute Ops Management

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

Additional Options

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

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

HPE GreenLake for Compute Ops Management Base SaaS R6Z73AAE

Additional Options

HPE Security

HPE Trusted Supply Chain for HPE ProLiant P36394-B21

Notes:

- HPE Trusted Supply Chain (P36394-B21) is an optional security upgrade intended for agencies and regulated industries needing enhanced security and compliance needs. Applying this option to a DL380 Gen10 Plus CTO server ensures it is built in the USA in a secured facility by vetted HPE personnel assigned to the manufacturing processes. A multitude of checkpoints/inspections for malicious microcode and counterfeit parts are performed throughout the server build, and additional safeguards are put in place against cyber-exploits throughout the server lifecycle. The HPE ProLiant DL380 Gen10 Plus Server is re-branded as a HPE ProLiant DL380T Gen10 Plus to denote the HPE Trusted Supply Chain security enhancements. The DL380T Gen10 Plus is Trade Agreement Act (TAA) compliant.Learn more at **http://www.hpe.com/security**
- This option requires the selection of HPE Gen10 Plus Intrusion Detection Kit (P14604-B21-B21)
- This option requires the selection of either HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features (BD505A) or HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features (512485-B21)
- This option is limited to stand-alone DL380 Gen10 Plus CTO servers only. The HPE Trusted Supply Chain configuration will not be available if the server is ordered as factory integrated into a rack
- One instance of the following Electronic License to Use is required per order (not per server): R6X85AAE
  - HPE Trusted Supply Chain E-LTU
- Logistics delivery speeds and services are available and selectable within Next Gen Quoter.
- This option cannot be selected with TAA instruction SKU nor TAA CTO Models

HPE iLO Common Password FIO Setting P08040-B21

Notes:

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

HPE Gen10 2U Bezel Kit 867809-B21

HPE Bezel Lock Kit 875519-B21

Notes: Requires the bezel kit

HPE Gen10 Plus Chassis Intrusion Detection Kit P14604-B21

Notes: 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 Trusted Platform Module 2.0 Gen10 Plus Black Rivets Kit P13771-B21

Notes: HPE Trusted Platform Module 2.0 option works with Gen10 Plus servers with UEFI Mode not Legacy Mode. It is not compatible with earlier generation HPE ProLiant server variants.

HPE Gen10 TPM 1.2 FIO Setting 872108-B21

Notes: This is a FIO setting to allow the TPM 2.0 module to operate in a TPM 1.2 mode.

Additional Options

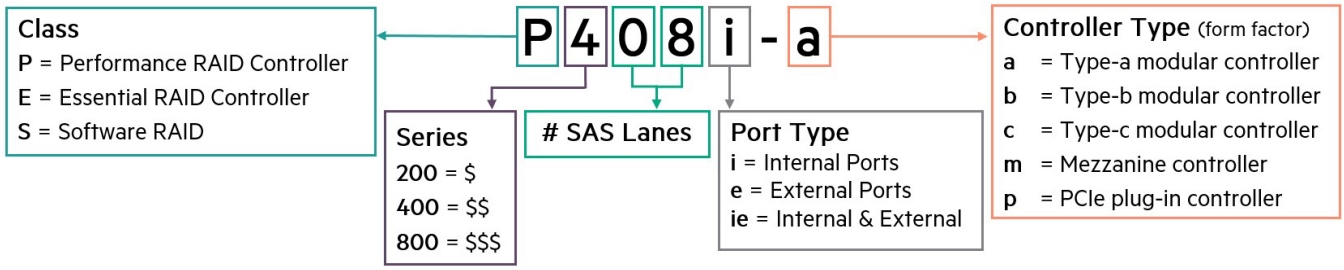
HPE Boot Controllers

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

Notes: This adapter requires UEFI boot mode be enabled.

HPE Smart Array Controllers

The Gen10 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10 Smart Array controllers visit the **https://www.hpe.com/psnow/doc/a00047736enw**.



HPE Flexible Smart Array Performance RAID Controllers

Notes:

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

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

Notes:

- Includes SmartCache license.
- The P816i-a cable ships in the 12LFF chassis only (868705-B21).

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

HPE Flexible Smart Array Essential Controllers

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

Performance RAID Controllers

Notes: All performance RAID controllers are supported by the HPE Smart Storage Hybrid Capacitor (P02377-B21) or HPE Smart Storage Battery (P01366-B21), which support multiple devices and are sold separately.

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

HPE Tri-Mode Controllers

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

Notes:

- Supports the following drive cages:
  - P26922-B21 - HPE DL38X Gen10+ 2SFF x4Tri-Mode U.3 Kit
  - P26924-B21 - HPE DL300 Gen10+ 2U 2SFF x4Tmode U.3 Kit
  - P27194-B21 - HPE DL300 Gen10+ 2U 8SFF x1Tmode U.3 Kit
  - P27193-B21 - HPE DL38X Gen10+ 8SFF x1Tri-Mode U.3 Kit
  - P26931-B21 - HPE DL300 Gen10+ 2U 8SFF x4Tmode U.3 Kit
  - P55518-B21 - HPE DL38X G10+ 2LFFPriLP Rsr UBM2-Trimod
  - P55519-B21 - HPE DL38X G10+ 2LFFTerRse UBM2-Trimod
  - P55700-B21 - HPE DL38X Gen10+ 4LFF SAS/SATA LP Kit
  - P55699-B21 - HPE DL300 Gen10+ 2U 2SFF SAS/SATA BC Kit

Additional Options

- P55696-B21 - HPE DL380 G10+ 2SFF SAS/SATA Pri/Sec Kit
- P55698-B21 - HPE DL380 Gen10+ 2SFF SAS/SATA BC Kit
- P55516-B21 - HPE DL300 Gen10+ 2U 8SFF SAS/SATA BC Kit
- Default Cages 8SFF SAS/SATA drive cages that come standard on the CTO server
- MegaRAID tools cannot be used to script and configure SmartRAID controllers

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

Notes:

– Supports the following drive cages:
- P26922-B21 - HPE DL38X Gen10+ 2SFF x4Tri-Mode U.3 Kit
- P26924-B21 - HPE DL300 Gen10+ 2U 2SFF x4Tmode U.3 Kit
- P27194-B21 - HPE DL300 Gen10+ 2U 8SFF x1Tmode U.3 Kit
- P27193-B21 - HPE DL38X Gen10+ 8SFF x1Tri-Mode U.3 Kit
- P39769-B21 - HPE DL300 G10+ 2U 8SFF x4TM Midplane Kit
- P26931-B21 - HPE DL300 Gen10+ 2U 8SFF x4Tmode U.3 Kit
- P55518-B21 - HPE DL38X G10+ 2LFFPriLP Rsr UBM2-Trimod
- P55519-B21 - HPE DL38X G10+ 2LFFTerRse UBM2-Trimod
- P55700-B21 - HPE DL38X Gen10+ 4LFF SAS/SATA LP Kit
- P55699-B21 - HPE DL300 Gen10+ 2U 2SFF SAS/SATA BC Kit
- P55696-B21 - HPE DL380 G10+ 2SFF SAS/SATA Pri/Sec Kit
- P55698-B21 - HPE DL380 Gen10+ 2SFF SAS/SATA BC Kit
- P55516-B21 - HPE DL300 Gen10+ 2U 8SFF SAS/SATA BC Kit
- Default Cages 8SFF SAS/SATA drive cages that come standard on the CTO server

MegaRAID tools cannot be used to script and configure SmartRAID controllers

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

Notes:

– Supports the following drive cages:
- P26922-B21 - HPE DL38X Gen10+ 2SFF x4Tri-Mode U.3 Kit
- P26924-B21 - HPE DL300 Gen10+ 2U 2SFF x4Tmode U.3 Kit
- P27194-B21 - HPE DL300 Gen10+ 2U 8SFF x1Tmode U.3 Kit
- P27193-B21 - HPE DL38X Gen10+ 8SFF x1Tri-Mode U.3 Kit
- P26931-B21 - HPE DL300 Gen10+ 2U 8SFF x4Tmode U.3 Kit
- P55518-B21 - HPE DL38X G10+ 2LFFPriLP Rsr UBM2-Trimod
- P55519-B21 - HPE DL38X G10+ 2LFFTerRse UBM2-Trimod
- P55700-B21 - HPE DL38X Gen10+ 4LFF SAS/SATA LP Kit
- P55699-B21 - HPE DL300 Gen10+ 2U 2SFF SAS/SATA BC Kit
- P55696-B21 - HPE DL380 G10+ 2SFF SAS/SATA Pri/Sec Kit
- P55698-B21 - HPE DL380 Gen10+ 2SFF SAS/SATA BC Kit
- P55516-B21 - HPE DL300 Gen10+ 2U 8SFF SAS/SATA BC Kit
- Default Cages 8SFF SAS/SATA drive cages that come standard on the CTO server

MegaRAID tools cannot be used to script and configure SmartRAID controllers

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

Notes:

– Supports the following drive cages:
- P26922-B21 - HPE DL38X Gen10+ 2SFF x4Tri-Mode U.3 Kit
- P26924-B21 - HPE DL300 Gen10+ 2U 2SFF x4Tmode U.3 Kit
- P27194-B21 - HPE DL300 Gen10+ 2U 8SFF x1Tmode U.3 Kit
- P27193-B21 - HPE DL38X Gen10+ 8SFF x1Tri-Mode U.3 Kit

Additional Options

- P39769-B21 - HPE DL300 G10+ 2U 8SFF x4TM Midplane Kit
- P26931-B21 - HPE DL300 Gen10+ 2U 8SFF x4Tmode U.3 Kit
- P55518-B21 - HPE DL38X G10+ 2LFFPriLP Rsr UBM2-Trimod
- P55519-B21 - HPE DL38X G10+ 2LFFTerRse UBM2-Trimod
- P55700-B21 - HPE DL38X Gen10+ 4LFF SAS/SATA LP Kit
- P55699-B21 - HPE DL300 Gen10+ 2U 2SFF SAS/SATA BC Kit
- P55696-B21 - HPE DL380 G10+ 2SFF SAS/SATA Pri/Sec Kit
- P55698-B21 - HPE DL380 Gen10+ 2SFF SAS/SATA BC Kit
- P55516-B21 - HPE DL300 Gen10+ 2U 8SFF SAS/SATA BC Kit
- Default Cages 8SFF SAS/SATA drive cages that come standard on the CTO server

MegaRAID tools cannot be used to script and configure SmartRAID controllers

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

Notes:

- Supports the following drive cages:
  - P26922-B21 - HPE DL38X Gen10+ 2SFF x4Tri-Mode U.3 Kit
  - P26924-B21 - HPE DL300 Gen10+ 2U 2SFF x4Tmode U.3 Kit
  - P27194-B21 - HPE DL300 Gen10+ 2U 8SFF x1Tmode U.3 Kit
  - P27193-B21 - HPE DL38X Gen10+ 8SFF x1Tri-Mode U.3 Kit
  - P26931-B21 - HPE DL300 Gen10+ 2U 8SFF x4Tmode U.3 Kit
  - P55518-B21 - HPE DL38X G10+ 2LFFPriLP Rsr UBM2-Trimod
  - P55519-B21 - HPE DL38X G10+ 2LFFTerRse UBM2-Trimod
  - P55700-B21 - HPE DL38X Gen10+ 4LFF SAS/SATA LP Kit
  - P55699-B21 - HPE DL300 Gen10+ 2U 2SFF SAS/SATA BC Kit
  - P55696-B21 - HPE DL380 G10+ 2SFF SAS/SATA Pri/Sec Kit
  - P55698-B21 - HPE DL380 Gen10+ 2SFF SAS/SATA BC Kit
  - P55516-B21 - HPE DL300 Gen10+ 2U 8SFF SAS/SATA BC Kit
  - Default Cages 8SFF SAS/SATA drive cages that come standard on the CTO server

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

Notes:

- Requires x16 riser slot
- MegaRAID tools cannot be used to script and configure SmartRAID controllers
- Supports the following drive cages:
  - P26922-B21 - HPE DL38X Gen10+ 2SFF x4Tri-Mode U.3 Kit
  - P26924-B21 - HPE DL300 Gen10+ 2U 2SFF x4Tmode U.3 Kit
  - P27194-B21 - HPE DL300 Gen10+ 2U 8SFF x1Tmode U.3 Kit
  - P27193-B21 - HPE DL38X Gen10+ 8SFF x1Tri-Mode U.3 Kit
  - P39769-B21 - HPE DL300 G10+ 2U 8SFF x4TM Midplane Kit
  - P26931-B21 - HPE DL300 Gen10+ 2U 8SFF x4Tmode U.3 Kit
  - P26932-B21 - HPE DL300 Gen10+ 2U 8SFF x4 NVMe U.2 Kit

Additional Options

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

Software RAID Controllers

Intel Virtual RAID on CPU Premium FIO Software for HPE	R7J57A
INT VROC FIO DL360/380 G10+ w/INT SSD	R7J58A

HPE Cable Options

HPE DL38X Gen10 Plus Rear Serial Cable Kit	P14606-B21
HPE DL38X Gen10 Plus 8NVMe CPU1/2 Cable Kit	P22829-B21
HPE Gen10 Plus Chassis Intrusion Detection Kit	P14604-B21
HPE ProLiant DL300 Gen10 Plus 2U x4 Tri-Mode Cable Kit	P36202-B21
HPE ProLiant DL300 Gen10 Plus 2U x2 Tri-Mode Cable Kit	P36203-B21
HPE DL380 SFF Smart Array HBA H200/P400 Series SAS Cable Kit	786092-B21
HPE ProLiant DL38X Gen10 Plus OCP to 2NVMe Adapter Kit	P27094-B21

Optional Upgrades

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

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

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 **http://www.hpe.com/storage/BURAcompatibility**

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

Additional Options

HPE Racks

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

HPE Power Distribution Units (PDUs)

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

HPE Uninterruptible Power Systems (UPS)

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

HPE Rack Options

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

Easy Install 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.
Notes: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

HPE DL38X Gen10 Plus 2U SFF Easy Install Rail Kit	P22018-B21
Notes: Does not include CMA (P22020-B21).	
HPE DL38X Gen10 Plus 2U LFF Easy Install Rail Kit	P22019-B21
Notes: Does not include CMA (P22020-B21).	
HPE DL38X Gen10 Plus 2U Cable Management Arm for Rail Kit	P22020-B21

Additional Options

HPE USB and SD Options

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 Enterprise Mainstream Flash Media Kits for Memory Cards

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

HPE Support Services

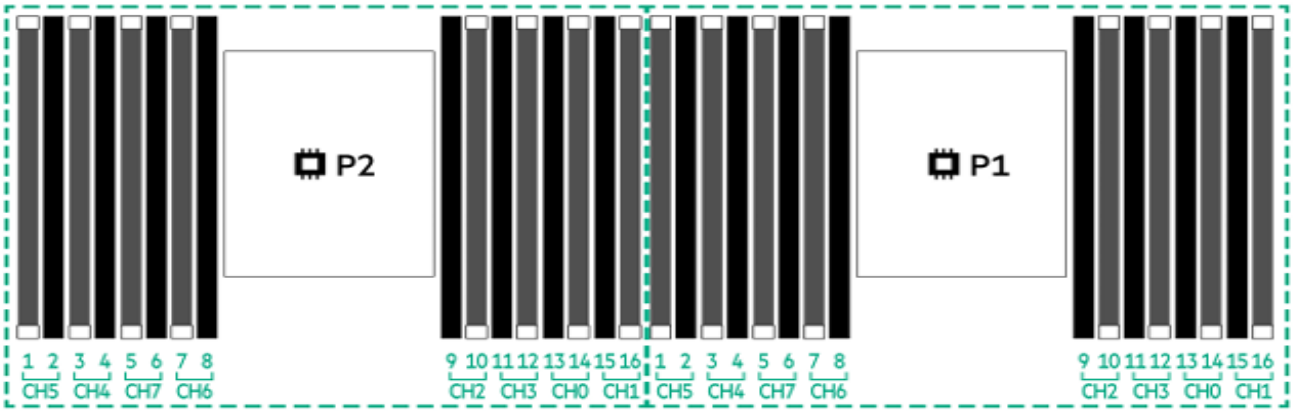
Tech Care

HPE 3 Year Tech Care Essential Proliant DL380 Gen10+ Service	HY4Z5E
HPE 3 Year Tech Care Essential wDMR Proliant DL380 Gen10+ Service	HY4Z6E
HPE 5 Year Tech Care Essential Proliant DL380 Gen10+ Service	HY5B9E
HPE 5 Year Tech Care Essential wDMR Proliant DL380 Gen10+ Service	HY5C0E

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

Memory

Memory Population guidelines



HPE ProLiant DL380 Gen10 Plus

HPE ProLiant Gen10 Plus 16 slot per CPU DIMM population order																
DIMM population order																
DIMM slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1 DIMM														14		
2 DIMMs			3											14		
4 DIMMs			3				7			10				14		
6 DIMMs	1		3				7			10				14		16
8 DIMMs[2,3]	1		3		5		7			10		12		14		16
12 DIMMs	1	2	3	4			7	8	9	10			13	14	15	16
12 DIMMs[1,2,3]	1		3	4	5		7	8	9	10		12	13	14		16
16 DIMMs[2,3]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Notes:

- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.
- Ommited DIMM counts/socket not qualified by Intel.
- [1] Required by Sub-NUMA Cluster (SNC) configurations, must be ordered with 12 DIMM SNC2 FIO Enable Kit (P26933-B21).
- [2] Support Hemi (hemisphere mode).
- [3] Support Software Guard Extensions (SGX)

General Memory Population Rules and Guidelines:

- DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.
- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two-processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- When two processors are installed, balance the DIMMs across the two processors.
- White DIMM slots denote the first slot to be populated in a channel.
- Mixing of DIMM types (UDIMM, RDIMM, and LRDIMM) is not supported.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.

Memory

- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, and 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/intel-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**.

Registered DIMM (RDIMM)				
HPE SKU P/N	P07525-B21	P06029-B21	P06031-B21	P40007-B21
SKU Description	HPE 8GB (1x8GB) Single Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	HPE 16GB (1x16GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	HPE 16GB (1x16GB) Dual Rank x8 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	HPE 32GB (1x32GB) Single Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit
DIMM Capacity	8GB	16GB	16GB	32GB
DIMM Rank	Single Rank (1R)	Single Rank (1R)	Dual Rank (2R)	Single Rank (1R)
Voltage	1.2 V	1.2 V	1.2 V	1.2 V
DRAM Depth [bit]	1G	2G	1G	2G
DRAM Width [bit]	x8	x4	x8	x4
DRAM Density	8Gb	8Gb	8Gb	8Gb
CAS Latency	22-22-22	22-22-22	22-22-22	22-22-22
DIMM Native Speed	3200 MT/s	3200 MT/s	3200 MT/s	3200 MT/s

HPE SKU P/N	P06033-B21	P06035-B21
SKU Description	HPE 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit	HPE 64GB (1x64GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart Memory Kit
DIMM Capacity	32GB	64GB
DIMM Rank	Dual Rank (2R)	Dual Rank (2R)
Voltage	1.2 V	1.2 V
DRAM Depth [bit]	1G	2G
DRAM Width [bit]	x8	x4
DRAM Density	8Gb	8Gb
CAS Latency	22-22-22	22-22-22
DIMM Native Speed	3200 MT/s	3200 MT/s

Notes: The maximum memory speed is a function of the memory type, memory configuration, and processor model. Also, DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance. For details on the HPE Server Memory speed, visit:
https://www.hpe.com/docs/memory-speed-table

Load Reduced DIMM (LRDIMM)		
HPE SKU P/N	P06037-B21	P06039-B21
SKU Description	HPE 128GB (1x128GB) Quad Rank x4 DDR4-3200 CAS-22-22-22 Load Reduced Smart Memory Kit	HPE 256GB (1x256GB) Octal Rank x4 DDR4-3200 CAS-26-22-22 Load Reduced 3DS Smart Memory Kit
DIMM Capacity	128GB	256GB
DIMM Rank	Quad Rank (4R)	Octal Rank (8R)
Voltage	1.2 V	1.2 V
DRAM Depth [bit]	2G	2G
DRAM Width [bit]	x4	x4
DRAM Density	8Gb	8Gb
CAS Latency	22-22-22	22-22-22
DIMM Native Speed	3200 MT/s	3200 MT/s

Memory

Notes: The maximum memory speed is a function of the memory type, memory configuration, and processor model. Also, DIMMs need to be selected in even quantities. Using odd quantity of DIMMs in configurations will cause memory to be unbalanced and may negatively impact system performance.

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

DDR4 memory options part number decoder

Notes:

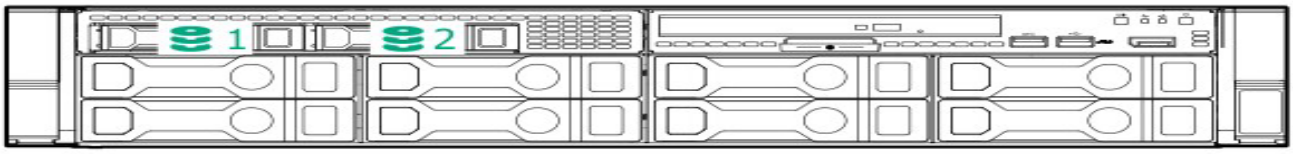
- Capacity references are rounded to the common gigabyte (GB) values.
  - 8GB = 8,192 MB
  - 16GB = 16,384 MB
  - 32GB = 32,768 MB
  - 64GB = 65,536 MB
  - 128GB = 131072 MB
  - 256GB = 262144 MB
  - 512GB = 524288 MB

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

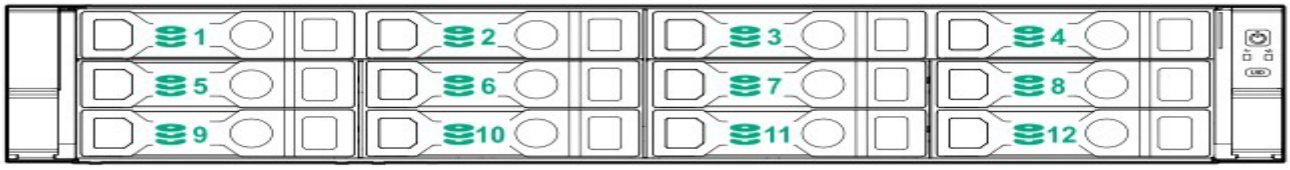
Memory Speed Table for HPE ProLiantDL380 Gen 10 Plus

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

Storage



8LFF chassis with Universal media bay and optional 2SFF and optical drive shown



12 LFF chassis

24 SFF + rear 2 SFF drives

Technical Specifications

System Unit

Dimensions

- **SFF Drives:**
  8.75 x 44.54 x 71. 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)

- **Maximum:** 8 SFF hard drives (no rear drives), 2x processors, 2x power supplies, 1x Smart Array, 2x Risers installed)
  - **Maximum:**
    28.77 kg / 63.43 lbs
  - **Minimum:**
    16.12 kg /35.54 lbs
- **Maximum:** 12 LFF hard drives (no rear drives), 2x processors, 2x power supplies, 1x Smart Array, 2x Risers installed)
  - **Maximum:**
    33.99 kg / 74.94 lbs
  - **Minimum:**
    22.48 kg / 49.56 lbs

Input Requirements (per power supply)

Rated Line Voltage

- For 1800W-2200W (Titanium) Power Supply: 200-240 VAC
- For 1600W (Platinum) Power Supply: 200-240 VAC
- For 800W (Titanium) Power Supply: 200-240 VAC
- For 800W (Platinum) Power Supply: 100-240 VAC
- For 800W (Universal) Power Supply: 200-277 VAC
- For 800W (-48VDC) Power Supply: -40 Vdc to -72 Vdc

BTU Rating

Maximum

- For 1800W-2200W Power Supply: 6497 BTU/hr (at 200 VAC), 6868 BTU/hr (at 208 VAC), 7230 BTU/hr (at 220 VAC), 7596 BTU/hr (at 230VAC), 7962 BTU/hr (at 240VAC)
- For 1600W Power Supply: 5918 BTU/hr (at 200 VAC), 5888 BTU/hr (at 220 VAC), 5884 BTU/hr (at 240 VAC)
- For 800W (Titanium) Power Supply: 2905 BTU/hr (at 200 VAC), 2899 BTU/hr (at 220 VAC), 2893 BTU/hr (at 240 VAC)
- For 800W (Platium) Power Supply: 3067 BTU/hr (at 100 VAC), 2958 BTU/hr (at 200 VAC), 2949 BTU/hr (at 240 VAC)
- For 800W (Universal) Power Supply: 2964 BTU/hr (at 200 VAC), 2951 BTU/hr (at 230 VAC), 2936 BTU/hr (at 277 VAC)
- For 800W-(48Vdc) Power Supply: 2983 BTU/hr (at -40 Vdc), 2951 BTU/hr (at -48Vdc), 2912 BTU/hr (at -72Vdc)

Relative Humidity (non-condensing)

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

Technical Specifications

Power Supply Output (per power supply)

Rated Steady-State Power

- For 1800W-2200W: 1800W(at 200 VAC), 1900W(at 208 VAC), 2000W(at 220 VAC), 2100W(at 230VAC), 2200W(at 240VAC)
- For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VDC) for China only
- For 800W (Titanium) Power Supply: 800W (at 200 VAC), 800W (at 240 VAC), 800W (at 240 VDC) for China only
- For 800W (Platinum) Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
- For 800W (Universal) Power Supply: 800W (at 200 VAC), 800W (at 277 VAC)
- For 800W (-48VDC) Power Supply: 800W (at -40 Vdc), 800W (at -72Vdc)

Maximum Peak Power

- For 1800W-2200W Power Supply: 1800W(at 200 VAC), 1900W(at 208 VAC), 2000W(at 220 VAC), 2100W(at 230VAC), 2200W(at 240VAC)
- For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VDC) for China only
- For 800W (Titanium) Power Supply: 800W (at 200 VAC), 800W (at 240 VAC), 800W (at 240 VDC) for China only
- For 800W (Platinum) Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
- For 800W (Universal) Power Supply: 800W (at 200 VAC), 800W (at 277 VAC)
- For 800W (-48VDC) Power Supply: 800W (at -40 Vdc), 800W (at -72Vdc)

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).

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).

Technical Specifications

Acoustic Noise

Listed are the declared A-Weighted sound power levels (L_{WAd}) and declared average bystander position A-Weighted sound pressure levels (L_{pAm}) 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.

Acoustic Noise	
Idle	
LWAd	4.8 B Entry 4.4 B Base 4.6 B Perf
LpAm	37 dBA Entry 31 dBA Base 31 dBA Perf
Operating	
LWAd	4.8 B Entry 4.4 B Base 4.6 B Perf
LpAm	37 dBA Entry 31 dBA Base 31 dBA Perf

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

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)

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
05-Feb-2024	Version 29	Changed	Standard Features and Configuration Information sections were updated.
11-Dec-2023	Version 28	Changed	Pre-Configured Models section was updated
04-Dec-2023	Version 27	Changed	Standard Features, Pre-Configured Models, and Configuration Information sections were updated.
20-Nov-2023	Version 26	Changed	Standard Features section was updated.
13-Nov-2023	Version 25	Changed	Pre-Configured Models Section was updated.
06-Nov-2023	Version 24	Changed	Core Options sections was updated.
05-Sep-2023	Version 23	Changed	Core Options and Technical Specifications sections were updated.
10-Jul-2023	Version 22	Changed	Core Options sections was updated.
05-Jun-2023	Version 21	Changed	Standard Features and Core Options sections were updated.
01-May-2023	Version 20	Changed	Optional Features and Additional Options sections were updated.
06-Mar-2023	Version 19	Changed	Standard Features, Core Options, and Additional Options sections were updated. Obsolete SKUs were removed.
05-Dec-2022	Version 18	Changed	Standard Features, Core Options, and Additional Options sections were updated. Obsolete SKUs were removed.
07-Nov-2022	Version 17	Changed	Optional Features, Core Options, and Additional Options sections were updated. Obsolete SKUs were removed.
06-Sep-2022	Version 16	Changed	Core Options, Configuration Information and Additional Options sections were updated. Obsolete SKUs were removed.
01-Aug-2022	Version 15	Changed	Core Options, Configuration Information and Additional Options sections were updated.
05-Jul-2022	Version 14	Changed	Core Options, Memory and Additional Options sections were updated. Obsolete SKUs were removed.
13-Jun-2022	Version 13	Changed	Standard Features, Configuration Information and Core Options sections were updated. Obsolete SKUs were removed.
16-May-2022	Version 12	Changed	Core Options and Additional Options sections were updated. Obsolete SKUs were removed.
07-Apr-2022	Version 11	Changed	Core Options section was updated. Obsolete SKU was removed.
21-Mar-2022	Version 10	Changed	Overview,Pre-Configured Models and Additional Options sections were updated.
07-Feb-2022	Version 9	Changed	Core Options and Additional Options sections were updated. Obsolete SKUs were removed.
06-Dec-2021	Version 8	Changed	Core Options and Additional Options sections were updated. Obsolete SKUs were removed.
01-Nov-2021	Version 7	Changed	Overview, Standard Features, Core Options, Service and Support and Additional Options sections were updated.
07-Sep-2021	Version 6	Changed	Overview, Standard Features, Configuration Information, Core Options and Technical Specifications sections were updated.
23-Aug-2021	Version 5	Changed	Overview, Standard Features, Configuration Information, Core Options and Technical Specifications sections were updated.

Summary of Changes

Date	Version History	Action	Description of Change
06-Jul-2021	Version 4	Changed	Standard Features,Pre-Configured Models, Configuration Information, Core Options, Additional Options, Memory and Technical Specifications sections were updated.
07-Jun-2021	Version 3	Changed	Overview, Standard Features, Pre-Configured Models, Core Options and Additional Options sections were updated.
10-May-2021	Version 2	Changed	Standard Features, Configuration Information and Core Options sections were updated.
06-Apr-2021	Version 1	New	New QuickSpecs

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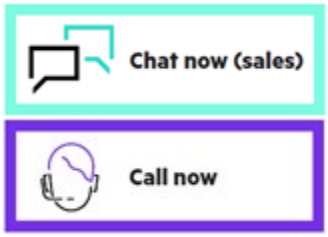

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