QuickSpecs

Overview

HPE ProLiant DL380 Gen10 Carrier Grade Server

NEBS Level 3 and ETSI Certified

This section lists some of the steps required to configure a Factory Integrated Model compliant with typically requested telecom carrier NEBS and ETSI requirements. In addition to the worldwide compliance criteria applied to the commercial version of the product, all components listed in this document have been evaluated to the following criteria:

- SR-3580, Level 3, NEBS Criteria Levels
- GR-1089-CORE, EMC & Electrical Safety
- GR-63-CORE, Physical Protections
- ETSI EN 300 386, Class A, EMC
- ETSI EN 300 019-2-1, Class 1.2, Storage
- ETSI EN 300 019-2-2, Class 2.3, Transportation
- ETSI EN 300 019-2-3, Class 3.1 & 3.1E, Stationiary Use at Weather protected locations
- ETSI 300 132, Power Suppply Interface to Telecom Equipment, -48VDC
- ETSI ETS 300 753, Acoustic Noise

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.

Notes:

- To yield a carrier grade server that is compliant with all the required technical criteria, the product content is limited to what is listed in this document. In addition to this, system maintenance switch #10 must be turned on to enable the expanded operating temperature range and the hardware from the following kits must be installed:
 - 1. HPE DL38X Gen10 High Performance Temperature Fan Kit- 867810-B21
 - 2. All installed PCI risers must be NEBS certified versions:
 - o HPE DL38X Gen10 x8/16/8 NEBS Riser Kit 873209-B21
 - HPE DL38XGen10 x8/16/8 M.2 NEBS Riser Kit 826701-B21
 - HPE DL38X Gen10 x16 Tertiary NEBS Riser Kit 826702-B21
- M.2 Riser is only supported in the primary PCI riser location.
 Please refer to the HPE DL380 Gen10 Carrier Grade Conversion documentation on the HPE web site:

http://www.hpe.com/services/hpsc



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

CTO Server	HPE ProLiant DL380 Gen10 8 SFF CTO Server					
SKU Number	868703-B21					
TAA SKU	875782-B21					
Processor	Not included as standard					
DIMM Slots	24-DIMM slots					
Storage Controller Embedded SW RAID with 14 SATA ports (12-ports accessible), choice of HPE modular Sma						
	and PCIe plug-in controller					
PCle	Three standard in primary riser (with dual M.2 support)					
Drive Cage - included	8 SFF					
Network Controller	HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card					
Fans	4-Standard					
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advances and OneView (optional)					
USB	1x 3.0 standard plus iLo front service port					

Notes:

- HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government
 customers. These products are either manufactured or substantially transformed in a designated country. TAA compliance
 is only provided when HPE options are included as part of factory integrated orders (CTO).
- TAA chassis are only orderable in North America and Canada.
- All CTO servers are Energy Star 2.1 compliant.

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

Please select one -L21 processor required below.

For second processor, please select the same processor model with –B21 from Core Options – HPE Processors section. For example: first processor, select 874752-L21 then for second processor, select 874752-B21.

Notes:

- 8SFF CTO 1P models ship with 4 standard fans. The second processor option kit contains 2 additional fans.
- Maximum memory capacity per processor is dependent on processor models. All processors support up to 768 GB max memory per processor except "M" model processors will support up to 1.5 TB max memory per processor.
- Mixing of 2 different processor models are NOT allowed.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type
 of DIMMs installed.

Step 2a: Choose Processors

Processor Option Kits (Required Processor)

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

2nd Generation Intel Xeon-Platinum

Intel Xeon-Platinum 8260 (2.4GHz/24-core/165W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02521-L21
Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02518-L21
Notes: Does not ship with High Performance Heatsink	

2nd Generation Intel Xeon-Gold

Intel Xeon-Gold 6252N (2.3GHz/24-core/150W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P11829-L21
Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02516-L21
Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02502-L21
Notes: Does not ship with High Performance Heatsink	

Notes: Does not ship with High Performance Heatsink

Intel Xeon-Gold 6212U (2.4GHz/24-core/165W) FIO Processor Kit for HPE ProLiant DL380 Gen10

P11825-L21

Notes: 2-processor configurations NOT supported with this processor; NEBS Secondary and Tiertiary Risers NOT supported.



Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02499-L21
Notes: Does not ship with High Performance Heatsink Intel Xeon-Gold 5218B (2.3GHz/16-core/125W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P12513-L21
Notes:	TIZJIJ EZI
 5218B has consistent features with the 5218 processor but from a different die. Mixing both 5218B & 5218 in a system is NOT supported. 	
- Does not ship with High Performance Heatsink Intel Xeon-Gold 5218N (2.3GHz/16-core/110W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P11831-L21
Notes: Does not ship with High Performance Heatsink	F11051-L21
Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02498-L21
Notes: Does not ship with High Performance Heatsink	102470 221
2nd Generation Intel Xeon-Silver	
Notes:	
 Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) is NOT supported. 	
 All of the Xeon-Silver models listed below do NOT ship with Performance Heatsink option 	
Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02495-L21
Intel Xeon-Silver 4214Y (2.2GHz/12-10-8-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02506-L21
Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02493-L21
Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02492-L21
Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02491-L21
2nd Generation Intel Xeon-Bronze	
Notes:	
 Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) is NOT supported. 	
 All of the Xeon-Bronze models listed below do NOT ship with Performance Heatsink option 	
Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	P02489-L21
1st Generation Intel Xeon-Gold/Silver/Bronze	
Intel Xeon-Gold 6152 (2.1GHz/22-core/140W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826886-L21
Notes: Ships with Performance Heatsink.	
Intel Xeon-Gold 6148 (2.4GHz/20-core/150W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826882-L21
Notes: Ships with Performance Heatsink.	
Intel Xeon-Gold 6140 (2.3GHz/18-core/140W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826878-L21
Notes: Ships with Performance Heatsink.	
Intel Xeon-Gold 6138 (2.0GHz/20-core/125W)FIO Processor Kit for HPE ProLiant DL380 Gen10	826876-L21
Intel Xeon-Gold 6130 (2.1GHz/16-core/120W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826866-L21
Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826856-L21
Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826854-L21
Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826852-L21
Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826850-L21
Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	
Intal Voon Silver 1.100 (1.9CHz/9, care/9EM) EIO Drococcar Vit for LIDE DroLiant DI 700 Can10	826846-L21
Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10	826848-L21
Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) FIO Processor Kit for HPE ProLiant DL380 Gen10 Notes: Processors above 130W use a High Performance Heatsink	



Step 2b: Choose Memory Options

Please select one or more memory from below.

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

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

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

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

Notes:

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

Registered DIMMs (RDIMMs)

HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00918-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00920-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21 Registered Smart Memory Kit	P00922-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00924-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00930-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19 Registered Smart Memory Kit	815097-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19 Registered Smart Memory Kit	815098-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	835955-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815100-B21
Load Reduced DIMMs (LRDIMMs)	
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit	P00926-B21
Step 2c: Choose Power Supplies	
Select one or two power supplies from below. Notes: Mixing of 2 different power supplies is NOT allowed.	
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21

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 Trusted Platform Module 2.0 Gen10 Option

864279-B21

Notes:

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

HPE Gen10 TPM 1.2 FIO Setting

872108-B21

Notes: TPM 2.0 is set as default, for 1.2 TPM setting instead, please select this option.

HPE Unique Options

HPE DL380 Gen10 x8/x16/x8 M.2 NEBS Riser Kit

826701-B21

Notes:

- Primary Riser Slot 1.
- Supports Full Height and Full length cards.
- Bus width x16, x16, Connector Width x16, x16.

HPE DL38X Gen10 x8/x16/x8 PCle NEBS Riser Kit 873209-B21

Notes:

- Secondary Riser, Connector in slot 2 & 3 for GPU support.
- Supports Full Height and Full length cards.
- Bus width x16, x16, Connector Width x16, x16.

HPE DL380 Gen10 x16 Tertiary NEBS Riser 826702-B21

Notes:

- Supports 1x 16 slot in the Tertiary location.
- Supports Full Height and full-length card.
- Bus width x16 Connector Width x16.

HPE DL38X Gen10 2SFF Premium HDD Front NVMe or Front/Rear SAS/SATA Kit 826687-B21

Notes:

- HPE DL38X Gen10 Universal Media Bay Kit (826708-B21).
- Drive cage can only be used in the front of the chassis for NEBS Compliance.

Hard Drive Kits

HPE DL38X Gen10 SFF Box1/2 Cage/Backplane Kit 826691-B21

Notes: Supports 8 SAS/ SATA SFF drives in Box 1 or 2

HPE Small Form Factor Hard Drive Blank Kit 666987-B21

Media Bay Kits

HPE DL38X Gen10 Universal Media Bay Kit 826708-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 (826687-B21, riser required) and ODD support (Not included); and can only be located in Box1 in either an 8 SFF model.
- This is a SFF model option only.

HPE Optical Drives

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

Notes: The Universal Media Bay (826708-B21) is required for this option on a SFF model.

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



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. Note the http://www.hpe.com/info/CablingMatrixGen10 can help to explain the cable routing for each option:

HPE Unique Options

Notes: Does not ship with High Performance Heatsink

The Conique Options	
HPE DL38X Gen10 Universal Media Bay Kit	826708-B21
Notes:	
 The HPE DL380 Gen10 Universal Media bay provides front Display Port and 2xUSB 2.0; can only be located in Box1 in either an 8 SFF model. 	
 This is a SFF model option only. 	
HPE DL380 Gen10 High Performance Heat Sink Kit	826706-B21
Notes: This kit contains 2 High Performance Heatsinks.	
HPE DL38X Gen10 High Performance Temperature Fan Kit	867810-B21
Notes:	
 This kit is required for specific <u>Ambient temperature environments</u>, coming in 2H2017. 	
 This kit provides maximum cooling for your Server. 	
HPE DL380 Gen10 SFF Systems Insight Display Kit	826703-B21
Notes: Systems Insight Display no longer ships as standard but is available as a Factory Integrated or field upgrade option.	
HPE DL3XX Gen10 Rear Serial Cable and Enablement Kit	873770-B21
HPE Processors	
Processor Option Kits	
2nd Generation Intel Xeon-Platinum	
Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) Processor Kit for HPE ProLiant DL380 Gen10	P02518-B21
Notes: Does not ship with High Performance Heatsink	
2nd Generation Intel Xeon-Gold	
Intel Xeon-Gold 6252N (2.3GHz/24-core/150W) Processor Kit for HPE ProLiant DL380 Gen10	P11829-B21
Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) Processor Kit for HPE ProLiant DL380 Gen10	P02516-B21
Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) Processor Kit for HPE ProLiant DL380 Gen10	P02502-B21
Notes: Does not ship with High Performance Heatsink	
Intel Xeon-Gold 6212U (2.4GHz/24-core/165W) Processor Kit for HPE ProLiant DL380 Gen10	P11825-B21
Notes: 2-processor configurations NOT supported with this processor; NEBS Secondary and Tiertiary Risers NOT supported.	
Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) Processor Kit for HPE ProLiant DL380 Gen10	P02499-B21
Notes: Does not ship with High Performance Heatsink	
Intel Xeon-Gold 5218B (2.3GHz/16-core/125W) Processor Kit for HPE ProLiant DL380 Gen10	P12513-B21
Notes:	
 5218B has consistent features with the 5218 processor but from a different die. Mixing both 5218B & 5218 in a system is NOT supported. 	
Does not ship with High Performance Heatsink	
Intel Xeon-Gold 5218N (2.3GHz/16-core/110W) Processor Kit for HPE ProLiant DL380 Gen10	P11831-B21
Notes: Does not ship with High Performance Heatsink	
Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) Processor Kit for HPE ProLiant DL380 Gen10	P02498-B21



2nd Generation Intel Xeon-Silver

Notes:

- Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) is NOT supported.
- All of the Xeon-Silver models listed below do NOT ship with Performance Heatsink option

Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) Processor Kit for HPE ProLiant DL380 Gen10	P02495-B21
Intel Xeon-Silver 4214Y (2.2GHz/12-10-8-core/85W) Processor Kit for HPE ProLiant DL380 Gen10	P02506-B21
Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) Processor Kit for HPE ProLiant DL380 Gen10	P02493-B21
Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) Processor Kit for HPE ProLiant DL380 Gen10	P02492-B21
Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit for HPE ProLiant DL380 Gen10	P02491-B21

2nd Generation Intel Xeon-Bronze

Notes:

- Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) is NOT supported.
- All of the Xeon-Bronze models listed below do NOT ship with Performance Heatsink option

Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor Kit for HPE ProLiant DL380 Gen10	P02489-B21
1st Generation Intel Xeon-Gold/Silver/Bronze	
Intel Xeon-Gold 6152 (2.1GHz/22-core/140W) Processor Kit for HPE ProLiant DL380 Gen10	826886-B21
Notes: Ships with Performance Heatsink.	
Intel Xeon-Gold 6148 (2.4GHz/20-core/150W) Processor Kit for HPE ProLiant DL380 Gen10	826882-B21
Notes: Ships with Performance Heatsink	
Intel Xeon-Gold 6140 (2.3GHz/18-core/140W) Processor Kit for HPE ProLiant DL380 Gen10	826878-B21
Notes: Ships with Performance Heatsink.	
Intel Xeon-Gold 6138 (2.0GHz/20-core/125W) Processor Kit for HPE ProLiant DL380 Gen10	826876-B21
Intel Xeon-Gold 6130 (2.1GHz/16-core/120W) Processor Kit for HPE ProLiant DL380 Gen10	826866-B21
Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) Processor Kit for HPE ProLiant DL380 Gen10	826856-B21

Notes:

- Processors above 130W use a High Performance Heatsink
- Up to two processors supported.
- HT indicates that the processor model supports Intel® Hyper-Threading Technology.

Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) Processor Kit for HPE ProLiant DL380 Gen10

Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) Processor Kit for HPE ProLiant DL380 Gen10

Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) Processor Kit for HPE ProLiant DL380 Gen10

Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit for HPE ProLiant DL380 Gen10

Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) Processor Kit for HPE ProLiant DL380 Gen10

Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) Processor Kit for HPE ProLiant DL380 Gen10

- Turbo2: Intel® Turbo Boost Technology 2.0 provides more computing power when you need it with performance that adapts
 to spikes in your workload and delivers more performance upside than then previous generation turbo technology.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type
 of DIMMs installed.
- The xxxxxx-L21 is the first processor shipped, the xxxxxx-B21 is the 2nd processor and ships with 2 additional fans for factory of field installation.
- Maximum memory per socket depends on the processor selected.

826854-B21

826852-B21

826850-B21

826846-B21

826848-B21

873641-B21

HPE Drives

LILE DILAGS	
Enterprise - 12G SAS - SFF Drives	
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870759-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870757-B21
HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
Midline - 12G SAS - SFF Drives	
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21
SSD Selection	
To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability,	
HPE recommends SSDs from the list located here: http://www.hpe.com/products/recommend	
Read Intensive 12G SAS - SFF - SC Value SAS Digitally Signed Firmware SSD	
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10440-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10444-B21
Mixed Use - 12G SAS - SFF - SC Value SAS Digitally Signed Firmware SSD	
HPE 960GB SAS 12G Mixed Use SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10448-B21
Mixed Use - 12G SAS - SFF - Solid State Drives	
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09088-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04525-B21
Read Intensive - NVMe - SFF - Solid State Drives	
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	P10214-B21
Mixed Use - 6G SATA - SFF - Solid State Drives	
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05976-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05980-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05986-B21
Mixed Use - 12G SAS - SFF - Value SAS Digitally Signed Firmware SSD	
HPE 1.92TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD	P10454-B21
Read Intensive X Temp – NVMe PCIe Drive	
HPE 1TB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	880266-B21
Hard Drive Blank Kits	
HPE Universal SATA HHHL 3yr Wty M.2 Kit	878783-B21
Notes: This is a M.2 enablement standup card.	



HPE Networking 1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port BASE-T BCM5719 Adapter 647594-B21 HPE Ethernet 1Gb 2-port BASE-T BCM5720 Adapter 615732-B21 HPE Ethernet 1Gb 2-port BASE-T I350-T2V2 Adapter 652497-B21 HPE Ethernet 1Gb 4-port BASE-T I350-T4V2 Adapter 811546-B21 10 Gigabit Ethernet adapters HPE Ethernet 10Gb 2-port BASE-T QL41401-A2G Adapter 867707-B21 HPE Ethernet 10Gb 2-port BASE-T 57810S Adapter 656596-B21 HPE Ethernet 10Gb 2-port SFP+ 57810S Adapter 652503-B21 HPE Ethernet 10Gb 2-port BASE-T BCM957416 Adapter 813661-B21 P11338-B21 HPE Ethernet 10Gb 2-port 548SFP+ Adapter HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter 727055-B21 HPE Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter 817738-B21 HPE Ethernet 10Gb 4-port SFP+ X710-DA4 Adapter 869585-B21 25 Gigabit Ethernet adapters HPE Ethernet 10/25Gb 2-port SFP28 QL41401-A2G Adapter 867328-B21 HPE Ethernet 10/25Gb 2-port SFP28 BCM957414 Adapter 817718-B21 HPE Ethernet 10/25Gb 2-port SFP28 XXV710-DA2 Adapter 870825-B21 **Notes:** The DL380 Gen10 ships with 4x 1 Gb Embedded. A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. FlexibleLOM adapters HPE Ethernet 1Gb 4-port FLR-SFP+ BCM5719 Adapter 629135-B22 HPE Ethernet 1Gb 4-port FLR-T I350-T4V2 Adapter 665240-B21 HPE FlexFabric 10Gb 2-port FLR-T 57810S Adapter 700759-B21 HPE FlexFabric 10Gb 2-port FLR-SFP+ 57810S Adapter 700751-B21 HPE Ethernet 10Gb 2-port FLR-SFP+ X710-DA2 Adapter 727054-B21 817709-B21 HPE Ethernet 10/25Gb 2-port FLR-SFP28 BCM957414 Adapter HPE Ethernet 10/25Gb 2-port FLR-SFP28 CX4 Adapter 817749-B21 **HPE InfiniBand** HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter 764284-B21 HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter 825111-B21 HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter 872726-B21

Riser Information								
NEBS	Description	Commercial	Riser position			Bus width (Gen3 lanes)		
Compliant Part number		Part number	Primary	Secondary	Tertiary	Top slot	Middle Slot	Bottom slot
826701-B21	HPE DL380 Gen10 x8 x16 x8 M.2 NEBS Riser	826694-B21	0	N	N	X16	X16	X8
873209-B21	HPE DL38X Gen10 x8 x16 x8 NEBS Riser	870548-B21	0	0	N	X8	X16	X8
826702-B21	HPE DL380 Gen10 x16 Tertiary NEBS Riser	826700-B21	N	N	0	X16	0	0

HPE Power Supplies

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

865414-B21

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

HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit

865434-B21

Notes: Flex Slot -48VDC power supplies support power efficiency of up to 94%.

The state of the s

HPE 48VDC 2.85m Power Cable Q0H80A

HPE Cooling Options

HPE DL38X Gen10 High Performance Temperature Fan Kit

867810-B21

Notes:

- This kit is required for specific **Ambient temperature environments**, coming in 2H2O17.
- 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.
- For elevated ambient temperature support please see: http://www.hpe.com/servers/ashrae.

Additional Options

HPE Security

HPE 2U Bezel Air Filter NEBs

HPE Gen10 2U Bezel Kit

HPE Trusted Platform Module 2.0 Gen10 Option

P05420-B1

867809-B21

864279-B21

Notes:

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

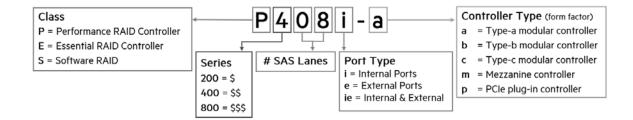
HPE Gen10 TPM 1.2 FIO Setting

872108-B21

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

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 **HPE Smart Array Gen10 Controllers Data Sheet**.



HPE Flexible Smart Array Controllers

Notes:

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

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

804338-B21

Notes: Does not occupy a PCIe expansion slot and includes SmartCache license.

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

Performance RAID Controllers

Notes: All performance RAID controllers are supported by the HPE Smart Storage Battery (P01366-B21) or HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit (P02377-B21), which supports multiple devices and is sold separately.

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

Essential RAID Controllers

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

804394-B21
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller

804398-B21

HPE Flexible Smart Array Essential Controllers

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



Additional Options

Optional Upgrades

HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit

P02377-B21

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

P01366-B21

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

HPE Storage Options

QLogic Fibre Channel HBAs

HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter

P9D94A

Converged Network Adapters

HPE CN1100R Dual Port Converged Network Adapter

QW990A

HPE Rack Options

Rail Kits

Notes:

- Ball bearing rail kits contain telescoping rails which allow for in-rack serviceability.
- 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 2U Small Form Factor Ball Bearing Rail Kit

720863-B21

Notes: Does not include CMA (720865-B21).

HPE 2U Cable Management Arm for Ball Bearing Rail Kit

720865-B21

Summary of Changes

Date	Version History	Action	Description of Change		
03-Aug-2020	Version 6	Changed	Core options section was updated.		
			Obsolete SKUs were removed		
17-Feb-2020	Version 5	Changed	Configuration Information and Core Options sections were updated.		
06-Jan-2020	Version 4	Changed	Overview, Configuration Information, Core Option and Additional Options		
			sections were updated.		
			Obsolete SKUs were removed		
04-Feb-2019	Version 3	Changed	Core Options and Storage sections were updated.		
15-Oct-2018	Version 2	Changed	Configuration Information - Factory Integrated Models, Core Options,		
			Aditional Options were updated.		
14-May-2018	Version 1	New	Content created.		

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

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