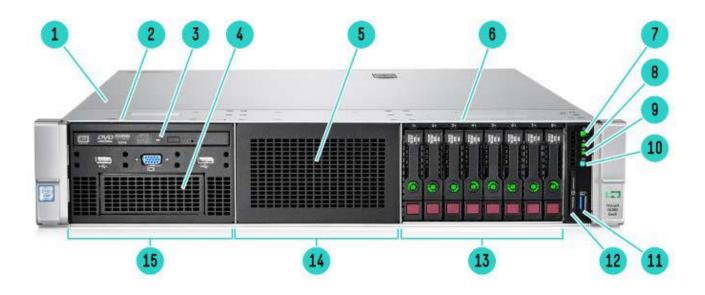
QuickSpecs

Overview

HPE ProLiant DL380 Generation9 (Gen9)

The HPE ProLiant DL380 Gen9 Server delivers the best performance and expandability in the Hewlett Packard Enterprise 2P rack portfolio. Reliability, serviceability and near continuous availability, backed by a comprehensive warranty, make it ideal for any environment. Deploy the data center standard.



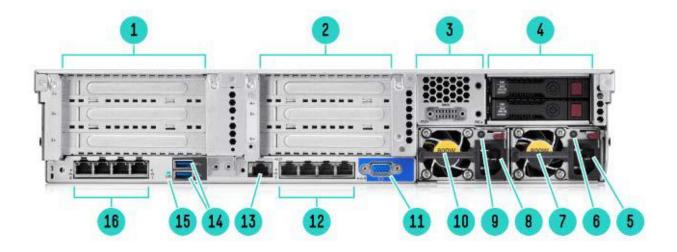
Front View - 8SFF Chassis with Optional Universal Media Bay shown

- 1. Quick removal access panel
- 3. Optional Optical drive. Requires Universal Media bay
- 5. Drive Bay 2. Blank shown, 8SFF or 6NVMe optional
- 7. Power On/Standby button and system power LED button
- 9. NIC status
- 11. USB 3.0
- 13. Bay 3
- 15. Bay 1

- 2. Universal Media bay. 2 USB 2.0 and VGA standard (8SFF bay optional)
- 4. Optional 2 SFF HDD, blank shown. Requires Universal Media bay
- 6. 8 SFF Drive Cage Bay
- 8. Health LED
- 10. UID button
- 12. Serial label pull tag
- 14. Bay 2



Overview

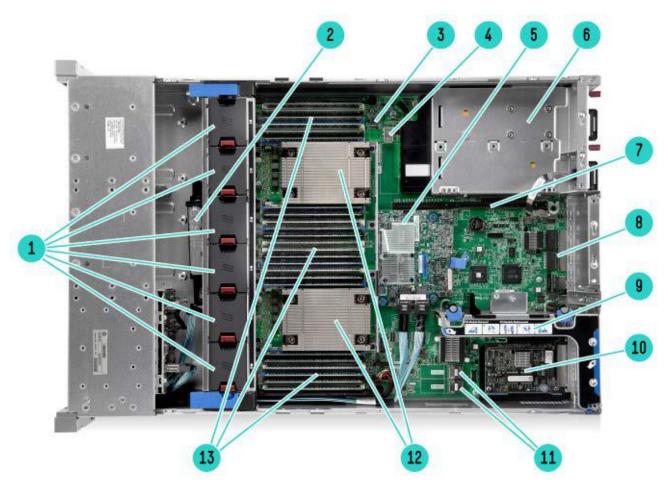


Rear View

- 1. PCI Slots (Slots 1-3 top to bottom, riser shipped standard)
- 3. Optional serial port
- 5. Power supply Power connection
- 7. HPE Flexible Slot Power Supply bay 1 (800w shown)
- 9. Power supply Power LED
- 11. VGA connector
- 13. Dedicated iLO connector
- 15. Unit ID LED

- 2. PCI Slots (Slots 4-6top to bottom, requires second riser card, and second processor)
- 4. Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end)
- 6. Power supply Power LED
- 8. Power supply Power connection
- 10. HPE Flexible Slot Power Supply bay 2 (800w shown) **NOTE:** Optional Battery Back up option.
- 12. Embedded 4x1GbE Network Adapter
- 14. USB 3.0 connectors (2)
- 16. Optional FlexibleLOM ports (Shown: 4x1GbE)

Overview



Internal View

- 1. Fan cage shown with 6 standard Hot-plug fans (High Performance fans optional)
- MicroSD card slot NOTE: Optional Dual MicroSD.
- 5. Optional HPE Flexible Smart Array or Smart HBA (H240ar shown)
- 7. Connection for second (optional) riser (Required second CPU)
- 9. Primary PCIe riser, standard (Optional double wide GPU riser)
- 11. X4 SATA ports (1 and 2)
- 13. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)

What's New

- New NVIDIA GPU
- New higher capacity LFF and SSD drives
- New 375GB NVMe x4 Lanes Wt SFF SCN DSF SSD
- New 750GB PCIe x4 Lanes WI HHHL DSF Card

- 2. Optional HPE Smart Storage Battery
- 4. Internal USB 3.0 connector (2)
- (Under) Hot Plug redundant HPE Flexible Slot Power supplies
 NOTE: Optional Micro UPS Battery Back up option.
- 8. Embedded 4x1Gbe NIC
- 10. Optional FlexibleLOM slot
- 12. 2 Processors, heatsink showing, with HPE Smart Socket Guide

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

Processor Up to two of the	Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
following depending on model	E5-2699v3	2.3GHz	18	45MB	145W	9.6GT/s	2133
	E5-2698v3	2.3GHz	16	40MB	135W	9.6GT/s	2133
	E5-2697v3	2.6GHz	14	35MB	145W	9.6GT/s	2133
	E5-2695v3	2.3GHz	14	35MB	120W	9.6GT/s	2133
	E5-2690v3	2.6GHz	12	30MB	135W	9.6GT/s	2133
	E5-2687Wv3	3.1GHz	10	25MB	160W	9.6GT/s	2133
	E5-2683v3	2.0GHz	14	35MB	120W	9.6GT/s	2133
	E5-2680v3	2.5GHz	12	30MB	120W	9.6GT/s	2133
	E5-2670v3	2.3GHz	12	30MB	120W	9.6GT/s	2133
	E5-2667v3	3.2GHz	8	20MB	135W	9.6GT/s	2133
	E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
	E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
	E5-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
	E5-2643v3	3.4GHz	6	20MB	135W	9.6GT/s	2133
	E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
	E5-2637v3	3.5GHz	4	15MB	135W	9.6GT/s	2133
	E5-2630v3	2.4GHz	8	20MB	85W	8.0GT/s	1866
	E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
	E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
	E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
	E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
	E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
	E5-2699v4	2.2GHz	22	55MB	145W	9.6GT/s	2400
	E5-2698v4	2.2GHz	20	50MB	135W	9.6GT/s	2400
	E5-2697v4	2.3GHz	18	45MB	145W	9.6GT/s	2400
	E5-2697Av4	2.6GHz	16	40MB	145W	9.6GT/s	2400
	E5-2695v4	2.1GHz	18	45MB	120W	9.6GT/s	2400
	E5-2690v4	2.6GHz	14	35MB	135W	9.6GT/s	2400
	E5-2687Wv4	3.0GHz	12	30MB	160W	9.6GT/s	2400
	E5-2683v4	2.1GHz	16	40MB	120W	9.6GT/s	2400
	E5-2680v4	2.4GHz	14	35MB	120W	9.6GT/s	2400
	E5-2667v4	3.2GHz	8	25MB	135W	9.6GT/s	2400
	E5-2660v4	2.0GHz	14	35MB	105W	9.6GT/s	2400
	E5-2650v4	2.2GHz	12	30MB	105W	9.6GT/s	2400
	E5-2650Lv4	1.7GHz	14	35MB	65W	9.6GT/s	2400
	E5-2643v4	3.4GHz	6	20MB	135W	9.6GT/s	2400
	E5-2640v4	2.4GHz	10	25MB	90W	8.0GT/s	2133
	E5-2637v4	3.5GHz	4	15MB	135W	9.6GT/s	2400
	E5-2630v4	2.2GHz	10	25MB	85W	8.0GT/s	2133
	E5-2630Lv4	1.8GHz	10	25MB	55W	8.0GT/s	2133
	E5-2623v4	2.6GHz	4	10MB	85W	8.0GT/s	2133

	E5-2620v4	2.1GHz	8	20MB	85W	8.0GT/s	2133		
	E5-2609v4	1.7GHz	8	20MB	85W	6.4GT/s	1866		
	E5-2603v4	1.7GHz	6	15MB	85W	6.4GT/s	1866		
	E5-2699Av4	2.4GHz	22	55MB	145W	9.6GT/s	2400		
	 NOTE: All processors above 120W use a high efficiency Heatsink. Doublewide PCIe cards are only supported with this Heatsink. For processors with a standard Heatsink that require double wide PCIe cards, the Graphics Enablement kit option is also required (719082-B21). NOTE: Mixing of E5-2600v3 and E5-2600v4 processors is not supported. NOTE: Field upgrade from E5-2600v3 to E5-2600v4 is supported. NOTE: All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3. 								
Chipset	Intel® C610 Series Chipset Intel® E5-2600v3 Processor Family Intel® E5-2600v4 Processor Family NOTE: For more information regarding Intel® chipsets, please see the following URL: <u>http://www.intel.com/products/server/chipsets/</u>								
On System Management Chipset	HPE iLO (Firmware NOTE: Read and lea								
Memory One of the following depending on model	Type: HPE SmartMemory DDR4 Registered (RDIMM), Load Reduced (LRDIMM) or Persistent Memory (NVDIMM)								
	DIMM Slots Available		channel)			nels per processo	or, 3 DIMMs per		
	Maximum Capacity (LRDIMM)	3TB		3GB LRDIMM	_				
	Maximum Capacity (RDIMM)	768GB	(24 x 320	GB RDIMM @2	2400MHz)				
	Maximum Capacity (NVDIMM)	128GB	(16 x 8G	B NVDIMM)*					
	NVDIMM support only with the E5-2600v4 processors, and RDIMMs only								
	 Note mixing of 2133 and 2400MHz memory is not supported Note mixing of RDIMM and LRDIMM memory is not supported Note the 128GB LRDIMM may not be mixed with other DIMM capacities/types 								
Memory Protection	Advanced ECC			single device o		n to detect and co 1 chip.	prrect single and		
	Online Spare	·	online spare n to the spar		s a rank that is	degrading and s	witches		
Expansion Slots									
Primary Riser (Standard)	Expansion Te Slots #	chnology	Bus Width	Connecto Width	r Bus Numbe	Form Facto r	r Notes		

1	PCIe 3.0	X8	X16	7	Full-height, half-length slot	Proc 1
2	PCle 3.0	X8	X16	10	Full-height, half-length slot	Proc 1
3	PCle 3.0	X8	X8	13	Half length/full height	Proc 1

NOTE: Bus Width Indicates the number of physical electrical lanes running to the connector. **NOTE:** All slots support PCIe cards to 150W or more, but an additional Power Cable Kit is required. **NOTE:** Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

Slot 2 PCIe Riser (Optional 3-slot)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
719073-B21	4	PCIe 3.0	X16	X16	16	Full-height, full-length slot	Proc 2
	5	PCIe 3.0	X16	X16	20	Full-height, full-length slot	Proc 2
	6	PCle 3.0	X8	X8	23	Full-height, half-length slot	Proc 2

NOTE: Bus Width Indicates the number of physical electrical lanes running to the connector. **NOTE:** When populating the second optional riser slot, the second processor must be installed. **NOTE:** All slots support PCIe cards to 150W or more, but an additional Power Cable Kit is required. **NOTE:** Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

Slot 1 PCIe Riser (Optional 2-slot)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
719076-B21	2	PCIe 3.0	X16	X16	0x05	Full-height, full-length slot	Proc 1
	3	PCle 3.0	X8	X8	0x08	Full-height, half-length slot	Proc 1

NOTE: Bus Width Indicates the number of physical electrical lanes running to the connector.
 NOTE: This will replace the standard primary riser and supports double wide cards.
 NOTE: All slots support PCIe cards to 150W or more, but an additional Power Cable Kit is required.
 NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

Storage Controller One of the following depending on model	controller will be needed B22. NOTE: The B140i defau models if required.	HPE Dynamic Smart Array B140i Controller B140i controller will operate in UEFI only mode. For legacy support an additional led, and for CTO orders please also select the Legacy mode settings part, 758959- aults to AHCI off the chipset. Smart array needs to be enables on the SATA only not operate in Legacy mode. HPE Dynamic Smart Array B140i Controller HPE Flexible Smart Array P440ar/2G FIO Controller HPE Flexible Smart Array P840/4G FIO Controller HPE Smart Array P840ar/2G Controller HPE Smart Array P840ar/2G Controller HPE Dynamic Smart Array B140i Controller HPE Dynamic Smart Array B140i Controller HPE Dynamic Smart Array P440ar/2GB			
Internal Storage Devices One of the following depending on model	Al Storage S Coptical Drive S Coptical Drive S Coptional: DVD-ROM, DVD-RW Hard Drives Hard Drive Bays Coptional: DVD-ROM, DVD-RW None ship standard S SFF with optional Universal Media Bay, 8 SFF bay or 6 NVME dr 24 SFF plus optional 2 SFF drives rear 12 LFF plus optional 3 LFF drives rear NOTE: The 3 LFF rear drives will consume space for the second		in Performance Models ROM, DVD-RW dard onal Universal Media Bay, 8 SFF bay or 6 NVME drive options tional 2 SFF drives rear tional 3 LFF drives rear .FF rear drives will consume space for the secondary riser. LFF chassis also supports 2 SFF rear which allows for the second NVMe drive option can only be leveraged in the SFF chassis and		
			configured Chassis come with an embedded 10-Port SATA ional HPE Flexible Smart Array and Smart SAS HBA Controllers		
Maximum Internal		CAPACITY	CONFIGURATION		
Storage	Hot Plug SFF SAS	52.0TB	24+2 \times 2TB (with optional rear SFF drive cage)		
	Hot Plug SFF SATA	52.0TB	24+2 x 2TB (with optional SFF drive cage)		
	Hot Plug LFF SAS	180.0TB	12+3 x 12TB (with optional rear LFF drive cage)		
	Hot Plug LFF SATA	180.0TB	12+3 x 12TB (with optional rear LFF drive cage)		
	Hot Plug SFF SAS SSD	397.8TB	$24+2 \times 15.3$ TB (with optional rear SFF drive cage)		
	Hot Plug SFF SATA SSD	99.84TB	24+2 x 3.84TB (with optional rear SFF drive cage)		
	Hot Plug LFF SATA SSD	57.6B	12+3 x 3.84TB (with optional rear LFF drive cage)xx		
	Hot Plug SFF NVMe PCle SSD	12TB NVMe + 36TB SFF	6x2TB NVMe plus 36TB with 18 SFF (Bay 1, bay 3 and optional rear drive support)		

Power Supply	HPE 500W Flex Slot Platinun	n Hot Plug Power Supply					
	NOTE: Available in 94% effic	ciency.					
	HPE 800W Flex Slot Platinum	n Hot Plug Power Supply					
	NOTE: Available in 94% and	96% efficiency.					
	NOTE: Also available in -48	VDC and 227VAC/380VDC power inputs.					
	HPE 1400W Flex Slot Platinu	um Plus Hot Plug Power Supply					
	NOTE: Available in 94% efficiency.						
	hot plug, tool-less installation certified for high-efficiency of a power supply for specific se	Power Supplies share a common electrical a n into HPE ProLiant Gen9 Performance Serv peration and offer multiple power output op erver configurations. This flexibility helps to ped" power capacity in the data center.	vers. Flex Slot power supplies are otions, allowing users to "right-size"				
	All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the ProLiant Power Cables web page.						
	To review the power requirements for your selected system, please use the HPE Power Advisor Tool located at http://www.hpe.com/info/hppoweradvisor .						
	Power specifications and technical content for all HPE Server power supplies can be found at http://www.hpe.com/info/proliant/powersupply .						
	-		plies can be found				
 System Fans	-		Redundant				
One of the following	-	o/proliant/powersupply					
	at http://www.hpe.com/info 2P model NOTE: 1P models typically s	o/proliant/powersupply	Redundant 6 fans				
One of the following	at <u>http://www.hpe.com/info</u> 2P model NOTE: 1P models typically s additional fans.	o/proliant/powersupply. Non-redundant ship with 4 standard fans. The second proc	Redundant 6 fans cessor option kit contains 2				
One of the following	at <u>http://www.hpe.com/info</u> 2P model NOTE: 1P models typically s additional fans. NOTE: The 12LFF and 24SF	o/proliant/powersupply Non-redundant ship with 4 standard fans. The second proc FF chassis ship with 6 High Performance fa	Redundant 6 fans cessor option kit contains 2 ans as standard.				
One of the following	at <u>http://www.hpe.com/info</u> 2P model NOTE: 1P models typically s additional fans. NOTE: The 12LFF and 24SF NOTE: High Performance Fa	o/proliant/powersupply. Non-redundant ship with 4 standard fans. The second proc	Redundant 6 fans cessor option kit contains 2 ans as standard. ature environments.				
One of the following	at <u>http://www.hpe.com/info</u> 2P model NOTE: 1P models typically s additional fans. NOTE: The 12LFF and 24SF NOTE: High Performance Fac NOTE: High Performance Fac	o/proliant/powersupply Non-redundant ship with 4 standard fans. The second proc FF chassis ship with 6 High Performance fa an Kit is available to meet ambient temper	Redundant 6 fans cessor option kit contains 2 ans as standard. ature environments.				
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One of the following depending on model	at http://www.hpe.com/info 2P model NOTE: 1P models typically s additional fans. NOTE: The 12LFF and 24SF NOTE: High Performance Fa NOTE: High Performance Fa NOTE: The 8SFF Bay1 kit (7 Serial Video	o/proliant/powersupply. Non-redundant ship with 4 standard fans. The second proc FF chassis ship with 6 High Performance fa an Kit is available to meet ambient temper an Kit is required for Passive GPU support. 719067-B21) will ship with 6 High efficient Optional 2 (1 front, optional via Universal Media Ba simultaneously	Redundant 6 fans cessor option kit contains 2 ans as standard. ature environments. cy fans.				
One of the following depending on model	at http://www.hpe.com/info 2P model NOTE: 1P models typically s additional fans. NOTE: The 12LFF and 24SF NOTE: High Performance Fa NOTE: High Performance Fa NOTE: The 8SFF Bay1 kit (7 Serial Video FlexibleLOM Network Ports HPE iLO Remote	o/proliant/powersupply. Non-redundant ship with 4 standard fans. The second proc FF chassis ship with 6 High Performance fa an Kit is available to meet ambient temper an Kit is required for Passive GPU support. 719067-B21) will ship with 6 High efficient Optional 2 (1 front, optional via Universal Media Ba simultaneously 4 x 1Gb ports shipping standard with opt	Redundant 6 fans cessor option kit contains 2 ans as standard. ature environments. cy fans.				
One of the following depending on model	at http://www.hpe.com/info 2P model NOTE: 1P models typically s additional fans. NOTE: The 12LFF and 24SF NOTE: High Performance Fa NOTE: High Performance Fa NOTE: High Performance Fa NOTE: The 8SFF Bay1 kit (7 Serial Video FlexibleLOM Network Ports HPE iLO Remote Management Network Port Micro SD Slot NOTE: The Micro SD slot is r	o/proliant/powersupply. Non-redundant ship with 4 standard fans. The second procession of the second procesecond procesecond procession of the second procession of the seco	Redundant 6 fans cessor option kit contains 2 ans as standard. ature environments. cy fans. ay, 724865-B21), 1 back not active ional FlexibleLOM				
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NOTE: Not shipping as standard. Available as a CTO option or as a field upgrade (768900-B21).

Operating Systems and Virtualization Software Support for ProLiant Servers	Microsoft Windows ServerCanonical UbuntuRed Hat Enterprise Linux (RHEL)SUSE Linux Enterprise Server (SLES)Oracle SolarisVMwareCitrix XenServerClearOSNOTE: ClearOS allows you to build a fully functional server that is just right for you at no upfront cost. It is available via CTO preload, Intelligent Provisioning or via download. For more information on ClearOS, please visit http://www.hpe.com/servers/clearos NOTE: 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, please visit our Support Matrix at: http://www.hpe.com/info/ossupport and our driver download page.
Upgradeability	Upgradeable to 2 processors (36 Cores) NOTE: Processor upgrade available from Intel® Xeon® Processors E5-2600v3. Please contact Hewlett Packard Enterprise Technology Sales (<u>http://www.hpe.com/support</u>), your local Hewlett Packard Enterprise Re-seller. Up to 24 DIMM slots available for higher Memory capacity FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options HPE Flexible Smart Array or Smart HBA Controllers Embedded 10-Port SATA, B140i as standard Optional 3 slot riser (x16, x16, x8), or 2 slot primary riser (x16, x8) NOTE: To take advantage of the additional 3 PCI slot upgrade, the second processor must be installed. Redundant Power Supply Optical Drive supported via Universal Media Bay NOTE: The Universal Media bay provides front VGA and 2xUSB 2.0, plus ability to add 2SFF and Optical. NOTE: Universal Media bay is only available with 8 or 8+8SFF chassis & can be populated in Bay1 only. HPE Legacy Mode (FIO only, 758959-B22) NOTE: UEFI is the default mode for CTO and BTO SKUs. Can change default to legacy via CTO.
Industry Standard Compliance	ACPI 2.0b Compliant PCle 3.0 Compliant PXE Support WOL Support WOL Support Microsoft® Logo certifications USB 3.0 Support USB 3.0 Support VSB 2.0 Support NOTE: This support is on the optional Universal Media Bay. Energy Star ASHRAE A3/A4 NOTE: The DL380 Gen9 is now one of the first HPE ProLiant Gen9 Servers with Extended Ambient Support up to 45 C for data center infrastructures designed for better energy efficiency such as but not limited to fresh air cooling.

Standard Featur	es			
	For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: http://www.hpe.com/servers/ashrae			
	UEFI (Unified Extensible Firmware Interface Forum)			
	NOTE: UEFI is the default for the DL380 Gen9. Legacy model can be selected in the field or as a CTO option (758959-B22).			
Graphics	Integrated Matrox G200eH2 video standard with 16MB of Video RAM 1280 x 1024 (32 bpp) 1920 x 1200 (16 bpp) 			
	HPE iLO 4 On System Management Memory			
	 16 MB Flash 256 MB DDR3 with ECC (112 MB after ECC and video) 			
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 Gen9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot Mode			
	Mode. NOTE: The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <u>http://www.hpe.com/servers/uefi</u> .			
	UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:			
	Secure Boot			
	Operating system specific functionality			
	• Support for > 2.2 TB (using GPT) boot drives			
	USB 3.0 Stack			
	Embedded UEFI Shell			
	Mass Configuration Deployment Tool using RESTful API for iLO 4			
	PXE boot support for IPv6 networks			
	Boot support for option cards that only support a UEFI option ROM			
	Network Stack configurations			
	NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properl to support UEFI. NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen9 Server.			
Earm Easter	2U Rack form factor			
Form Factor One of the following depending on model	20 Rack form factor 8 SFF & 24SFF Drive Bay Version: 3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm)			
	4 LFF & 12LFF Drive Bay Version: 3.44 x 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm) NOTE: Dimensions without bezel.			

Standard Featur	Standard Features				
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 .			
	RESTful API	RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi .			
	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning .			
	Embedded Remote Support	The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore .			
Server utilities	Smart Update	Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at http://www.hpe.com/servers/smartupdatemanager .			
	HPE Systems Insight Manager (HPE SIM)	HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and 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 <u>http://www.hpe.com/servers/hpsim</u> .			
	Scripting Tool Kit and Windows PowerShell	Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at <u>http://www.hpe.com/servers/proliant/stk</u> or <u>http://www.hpe.com/servers/powershell</u> .			
	RESTful Interface Tool	RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at http://www.hpe.com/info/resttool .			
	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 .			
	HPE Insight Online	HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at http://www.hpe.com/info/insightonline/explore .			

Security	Power-on password Serial interface control Administrator's password UEFI iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption Integrated Lights-Out can be disabled via a Global Setting iLO Advanced supports directory services integration TPM 1.2
Warranty	This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext 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. NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/.

Optional Features

Embedded Management	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. Learn more about HPE iLO Advanced at http://www.hpe.com/servers/iloadvanced.			
Server Management	HPE Insight Control	HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hpe.com/info/insightcontrol .			
	HPE Insight Cluster Management Utility (CMU)	HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at http://www.hpe.com/info/cmu .			
Rack and Power Infrastructure	HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HPE Rack and Power infrastructure solutions – rack infrastructure, power protection and management, performance optimized data centers (PODs) – are the foundation yeare looking for to help secure your long-term IT success. These products are designed to help you react changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at HPE Rack and Power Infrastructure.				
High Performance Clusters	optimized for Hig system options in Server, as well as ordering. <u>https://</u> software.html. NOTE: High Perf	forms are specifically engineered, factory-integrated large-scale ProLiant clusters gh Performance Computing, with a choice of servers, networks and software. Operating include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies /www.hpe.com/us/en/solutions/hpc-high-performance-computing/hpc- formance Computing (HPC) interconnect technologies are available for this server as Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are			
	fully supported by Hewlett Packard Enterprise when integrated within a Hewlett Packard Enterprise cluster. Flexible, validated solutions can be defined with the help of configuration tools. <u>https://www.hpe.com/info/hpc/solutions</u> .				
HPC Interconnects	under the HPE C by Hewlett Pack defined with a lo	formance Computing (HPC) interconnect technologies are available for this server cluster Platform product portfolio. These high-speed interconnects are fully supported ard Enterprise when they are part of these configure to order clusters. Solutions can be t of flexibility with the help of configuration ww.hpe.com/info/hpc/solutions			
Storage Software	challenge, or deli than Hewlett Pac storage infrastru	ed to solve a specific data protection, archiving, or storage command and control ver on strategic consolidation, compliance, or continuity initiatives, look no further ckard Enterprise storage software. Our storage software helps you reduce costs, simplify cture, protect vital assets and respond faster to business opportunities. that gets the job done:			

Optional Features

• Data Protection and Recovery Software

Whether you're a large enterprise or a smaller business, Hewlett Packard Enterprise data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.

Data Archive and Migration Software

Hewlett Packard Enterprise storage software enables you to comply with data retention and retrieval requirements, improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.

• Storage Resource Management Software (SRM)

Hewlett Packard Enterprise storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments.

Data Replication Software

Hewlett Packard Enterprise offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting.

• Storage Device Management Software

Maximize your investment in Hewlett Packard Enterprise storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.

• HPE StoreVirtual VSA

Enable highly available and clustered storage in your HPE ProLiant servers with virtualized storage: Add StoreVirtual VSA to multiple servers, manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. To simplify deployment, HPE offers StoreVirtual Ready Nodes, pre-defined reference configurations for converged vSphere and Hyper-V virtualization solutions. You also have the option to install free 1TB-capacity StoreVirtual VSA software during server setup within Intelligent Provisioning. HPE ProLiant Gen9 servers include a 3-year limited license for this HPE software-defined storage at no extra cost. More information, instructional videos, and free management software are available at http://www.hpe.com/storage/storevirtual.

NOTE: For more information about Storage Software including QuickSpecs, please see: https://www.hpe.com/us/en/storage/software-defined.html

ClearOS	HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive web based graphical user interface that provides a cloud-like experience on- premise, and an Application Marketplace with over 100 apps and growing. Whether you're starting out or scaling, you decide what applications you need and pay as you grow.
	NOTE: For more information on ClearOS, please visit <u>http://www.hpe.com/servers/clearos</u> .
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. http://ocs.ext.hpe.com/

HPE Support Services	HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support for need for your IT and business.
Connect your devices	Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77% ¹ reduction in down time, near 100% ² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support. 1-IDC 2 - HPE CSC reports 2014 - 2015
Recommended Support	Standard: HPE Proactive Care* with 24x7 coverage, three year Support Service HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers. https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf
	Optimized HPE Proactive Care* with 6 hour call-to-repair commitment, three year Support Service HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years' proactive reporting and advice with our highest level of hardware support – Hewlett Packard Enterprise 24x7, six hour hardware call-to-repair. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers. https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf
Parts and Materials	Hewlett Packard Enterprise 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.
	The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.
Related Services	HPE Server Hardware Installation Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf

Service and Support

Service and Support

	HPE Installation and Startup Service Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems, C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux).
	HPE Technology Services Support Credits Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.
HPE Education Services	Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. http://www.hpe.com/ww/learn
HPE Support Center	The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise support resources or collaborate with peers.
	Learn more http://www.hpe.com/support/hpesc
	The Hewlett Packard Enterprise Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.
	HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.
	*HPE Support Center Mobile App is subject to local availability.
	For more information: http://www.hpe.com/services

Pre-configured Models

	Entry Models		Base Models		
[SKU Number]	826681-B21	826682-B21	826683-B21	848774-B21	
Model Name	HPE ProLiant DL380 Gen9 E5-2609v4 1P 8GB-R B140i 8SFF 500W PS Entry SATA Server	HPE ProLiant DL380 Gen9 E5-2620v4 1P 16GB-R P440ar 8SFF 500W PS Base Server	HPE ProLiant DL380 Gen9 E5- 2620v4 1P 16GB-R P440ar 12LFF 2x800W PS Base Server	HPE ProLiant DL380 Gen9 E5-2630v4 1P 16GB-R P440ar 8SFF 500W PS Base Server	
Processor	Intel® Xeon® E5-2609v4	Intel® Xeon®	E5-2620v4	Intel® Xeon® E5-2630v4	
Number of Processors		One			
Memory	8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: With the E5-2609v4 this memory DIMM will only operate at 1866MHz.	16GB (1x16GB Register NOTE: With the E5-2 DIMM will only open	620v4 this memory	16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: With the E5- 2630v4 this memory DIMM will only operate at 2133MHz.	
Network Controller	HPE Embedded 1Gb Ethernet 4-	IPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE FlexibleLOM or stand up card			
Storage Controller	HPE Dynamic Smart Array B140i, plus optional HPE Flexible Smart Array or Smart HBA controller NOTE: Default is AHCI off chipset, Smart Array needs to be enabled on SATA model.	HPE Flexible Smart Array P440ar/2GB	HPE Flexible Smart Array P840ar/2G Controller	HPE Flexible Smart Array P440ar/2GB	
Hard Drive	None ship standard		None ship standa	ırd	
Internal Storage	8 SFF HDD Bays (upgradable to 24)	8 SFF HDD Bays (upgradable to 24)	12 LFF HDD Bays	8 SFF HDD Bays (upgradable to 24)	
Optical Drive Bay	Optional Universal Media Bay (724865- B21)	Optional Universal Media Bay (724865- B21)	Not Available	Optional Universal Media Bay (724865- B21)	
Optical Drive	Optional DVD-ROM (726536-B21) or DVD-RW (726537-B21) via the Universal Media Bay (724865-B21)	Optional DVD-ROM (726536-B21) or DVD-RW (726537- B21) via the Universal Media Bay (724865- B21)	Optional via HPE Mobile USB DVDRW Drive (701498-B21)	Optional DVD-ROM (726536-B21) or DVD-RW (726537- B21) via the Universal Media Bay (724865-B21)	
PCI-Express Slots	3 PCIe slots (+3 PCI slots	ots available with upgrade option, second processor required)			
Power Supply	(1) HPE 500W Flex Slot Platinum Power Supply	(1) HPE 500W Flex Slot Platinum Power Supply	(2) HPE 800W Flex Slot Platinum Power Supply	(1) HPE 500W Flex Slot Platinum Power Supply	
Fans	4 hot plug fans, redundant	4 hot plug fans, redundant	6 hot plug high performance fans, redundant	4 hot plug fans, redundant	

Pre-configured Models

Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control			
	(optional), HPE OneView (optional)			
Form Factor	Rack (2U), HPE Easy Install Rails	Rack (2U), HPE Easy Install Rails with CMA		
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response			

Pre-configured Models

	Performance Models			
[SKU Number]	826684-B21		852432-B21	
Model Name	HPE ProLiant DL380 Gen9 E5-2650v4 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server		HPE ProLiant DL380 Gen9 E5-2660v4 2P 64GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server	
Processor	Intel® Xeon® E5-2650v4		Intel® Xeon® E5-2660v4	
Number of Processors	Two			
Memory	32GB (2x16GB Registered DIMMs, 2400 MHz)	0 64GB (4x16GB Registered DIMMs, 2400 MHz)		
Network Controller	HPE Embedded 4x1Gb, plus 2x10Gb-T FlexibleLOM	HPE Embedded 4x1Gb, plus 2x10Gb SFP+ FlexibleLO		
Storage Controller	HPE Flexible Smart Array P440ar/2GB			
Hard Drive	None ship standard			
Internal Storage	8 SFF HDD Bays (upgradable to 24)			
Optical Drive Bay	Universal Media Bay (724865-B21)			
Optical Drive	HPE Half-Height SATA DVD-RW Optical Drive			
PCI-Express Slots		6 PCle	3.0 slots	
Power Supply	(2) HPE 800W Flex Slot Platinum Power Supply			
Fans	6	hot plug fa	ns, redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HPE OneViev (optional)			
Energy Star	Meets Energy Star requirements			
Form Factor	Rack (2U), HPE Easy Install Rails with CMA			
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response			

NOTE: UEFI is the standard default for all Predefined models.

Country Code Key	xx1 = B21	Worldwide
	NOTE: The -B21 WW SKU is	to be ordered in all countries other than Japan or PRC.
	xx1 = 291	Japan
	xx1 = AA1	PRC

Recommended Options

Offering the best combination of performance, value and availability, Recommended Options have been selected by HPE experts to provide the right technology for a range of workloads and market segments. Fully integrated into the HPE management and security experience, Recommended Options provide the best fit with timely availability.

Extended Options

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the HPE management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

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.

1. Factory Integrated Models must start with a CTO Server.

2. FIO indicates that this option is only available as a factory installable option.

3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the server.

4. Some options may not be integrated at the factory. Contact your local sales representative for additional information.

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

[Chassis]	HPE ProLiant DL380	HPE ProLiant	HPE ProLiant	HPE ProLiant	HPE ProLiant	
	Gen9 8SFF Configure-	DL380 Gen9 NVMe	DL380 Gen9	DL380 Gen9 4LFF	DL380 Gen9 12LFF	
	to-order Server	6 Solid State Drive	24SFF Configure- to-order Server	Configure-to-order Server	Configure-to-order Server	
		Express Bay Configure-to-order	10-order Server	Server	Server	
		Server				
SKU Number	719064-B21	810393-B21	767032-B21	767033-B21	719061-B21	
Processor		2 (optio	nal) x HPE Smart Sock	et Guide		
DIMM Slots		24 DIMM slots	s for RDIMM, LRDIMM [DDR4 Memory		
Storage Controller	HPE Dynamic	Dynamic Smart Array B140i, plus optional HPE Flexible Smart Array or Smart HBA controller				
PCle	3 PCIe slots (+3 PCI slots available with upgrade option, second processor required)					
Drive Cage	8SFF Hot Plug (+8SFF and Universal Media Bay Optional)	8SFF +6NVMe Hot Plug (+8SFF or Universal Media Bay Optional)	24SFF Hot Plug	4LFF Hot Plug	12LFF Hot Plug	
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE FlexibleLOM or stand up card	HPE Embedded 1Gb Ethernet 4- port 331i Adapter	HPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE FlexibleLOM or stand up card			
Fans	4 hot plug fans, redundant	6 hot plug high p redur		4 hot plug fans, redundant	6 hot plug high performance fans, redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard)					
USB	1 front, 2 internal, 2	1 front, 1 internal, 2	1 front, 2 internal, 2	I, 2 No front USB support		
	rear	rear	rear			
Ears		ł	HPE Quick Release Ear	S		

NOTE: With the NVMe chassis (810393-B21) there are limitations on GPU support. **NOTE:** The NVMe chassis (810393-B21) ships with the standard x8 Risers supporting 6xNVMe drives.

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

HPE Processors

Select one or two processors from Core Options-Processor section below.

- If one processor is desired, select one xxxxxx-L21
- If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.
- Up to 2 processors supported. Mixing different processor models is not supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

For the Intel[®] C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) = version number.

HPE Memory Select one or more memory from Core Options-Memory section below.

- UDIMM, RDIMM, and LRDIMM are all distinct memory technologies and cannot be mixed within a
 - server.
- HPE memory options from previous generation servers are not qualified or warranted with Hewlett Packard Enterprise Gen9 systems. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9.
- If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available.
- Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: <u>http://www.hpe.com/servers/ddr4memoryconfig</u>.

HPE Power Supplies Select one or more power supplies from Core Options-Power Supplies section below.

- Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <u>http://www.hpe.com/info/hppoweradvisor</u>.
- Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

Step 3: Choose Additional Factory Integratable Options

HPE Unique Options Select one or more Unique options from Core Options section below.

- This section may contain FIO options, please see the Unique options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE I/O Expansion Select one or more Riser Kit options from Core Options section below. **Options**

- To take advantage of the additional PCI slot upgrade, the second processor must be installed.
- This section may contain FIO options, please see HPE I/O Expansion Options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Drives	Select one or more drives from Core Options-HPE Drives section below.			
	 The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details. The HPE ProLiant Gen9 Smart Storage solutions are equipped with re-designed Small Form Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HPE Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove." 			
HPE FlexibleLOM	Select a FlexibleLOM from Core Options-Networking section below.			
	 Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped. For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter. Please see the QuickSpecs for Technical Specifications and additional information: http://www.hpe.com/servers/ProLiantNICs. 			
HPE Networking	Select a standup NIC adapter from Core Options-Networking section below.			
	 Please see the QuickSpecs for Technical Specifications and additional information: <u>http://www.hpe.com/servers/ProLiantNICs</u>. These options are upgradeable and can be changed from the original configuration after the server is shipped. For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 			
HPE Storage Controllers	Select one or more Storage options from Additional Options section below.			
	 The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22. This section may contain FIO options, please see HPE Storage Controllers section below. FIO indicates that this option is only available as a factory installable option. 			
HPE Graphics Options	Select one or more graphics adapter from Additional Options section below.			
	 Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located at: <u>http://www.hpe.com/info/hppoweradvisor</u>. This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below. 			

HPE Cooling Options Select one or more Fan Kits from Core Options section below.

- This section may contain FIO options, please see HPE Cooling Options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Rail Kits Select one type of rail kit from Additional Options section below.

- Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server.
- To assist in the installation of the server into the rack, an optional installation tool is available by contacting your local services representative (p/n 695539-001).
- See Hewlett Packard Enterprise Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.

CAUTION: 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.

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HPE Unique Options	Recommended HPE DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit (Recommended)	774741-B21
	NOTE: This option provides support for up to 6NVMe drives, and can only be populated in BAY2 in SFF chassis only, can be used with Bay1 and Bay 3 populated. NOTE: The HPE DL380 Gen9 High Performance Fan Kit is required for NVMe support (719079-B21).	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	NOTE: The PCIe card in this enablement kit can only be populated in slot2 (primary) or slot 5 (secondary).	
	NOTE: For true x16 support with this option a secondary riser (719073-B21) is needed (second processor required).	
	NOTE: Kit includes Mylar film for Universal Media Bay (724865-B21) support to ensure optimal airflow.	
	NOTE: For NVME CTO support, please use the NVME chassis (810393-B21), this kit is for field upgrades only.	
	NOTE: There are limitations on GPU support with the NVMe bay installed.	
	HPE DL380 Gen9 Universal Media Bay Kit (Recommended)	724865-B21
	NOTE: The HPE DL380 Gen9 Universal Media bay provides front VGA and 2xUSB 2.0; plus support for 2xSFF front drives (724864-B21) and ODD support (No included); and can only be located in Bay1 in either an 8SFF or 8+8SFF front end.	
	HPE DL380 Gen9 Graphics Enablement Kit (Recommended)	719082-B21
	 NOTE: This kit includes alternative 2 heatsinks plus6 cables to enable GPU support. Other limitations apply, see Graphic section for more details. NOTE: We support up to 2 Double wide and 3 single wide Graphics cards, limitations apply. NOTE: Double Wide GPUs will occupy slots 2 and 5 and will leave only 2 slots left open. 	
	NOTE: There are limitations on GPU support with the NVMe bay installed.	
	HPE DL380 Gen9 High Performance Fan Kit (Recommended)	719079-B21
	NOTE: This kit is required for specific Ambient temperature environments, more details here: <u>http://www.hpe.com/servers/ashrae</u> . NOTE: This kit is also required to support Passive GPUs.	
	NOTE: This kit provides max cooling for your Server.	
	HPE DL380 Gen9 2SFF Front/Rear SAS/SATA Kit (Recommended)	724864-B21
	NOTE: For 2SFF front the Universal Media Bay (724865-B21) is required.	

	NOTE: 2SFF in the rear is only supported with a 24SFF (CTO chassis or field upgraded) or 12LFF (719061-B21) front end. NOTE: Rear drives will not support higher than 160W CPUs and other special/unique CPUs.	
	HPE DL380 Gen9 3LFF Rear SAS/SATA Kit (Recommended)	768856-B21
	NOTE: This is only supported in the 12LFF chassis (CTO: 719061-B21 or BTO skus).	
	NOTE: 3LFF rear drives will consume the 2nd riser expansion slot.	
	NOTE: Rear drives will not support higher than 160W CPUs and other special/unique CPUs.	
	HPE DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit (Recommended)	719076-B21
	Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
	NOTE: This replaces the standard Primary riser in slot1.	
	HPE DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit (Recommended)	719073-B21
	Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
	HPE DL380 Gen9 8SFF Bay1 Cage/Backplane Kit (Recommended)	719067-B21
	NOTE: To add an additional 8SFF drive cage in Bay1.	
	NOTE: To get to 16SFF total please populate bay 2 with 768857-B21 (from an 8SFF starting point).	
	NOTE: This ships with 6 High Efficiency Fans.	
	NOTE: Selecting this option does not allow you to select the Universal Media Bay.	
	HPE DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit (Recommended)	768857-B21
	NOTE: To add an additional 8SFF drive cage in Bay 2. This is the optimal solution to upgrade to 16SFF total and allows the flexibility to add the Universal Media Bay (724865-B21) for 2 additional SFF or Optical.	
	HPE DL380 Gen9 Systems Insight Display Kit (Recommended)	768900-B21
	NOTE: The Systems Insight Display no longer ships as standard but is available as a	/00900-DZI
	Factory Integrated or field upgrade option.	
	HPE DL380 Gen9 Rear Serial Port and Enablement Kit (Recommended)	768896-B21
	HPE DL380 Gen9 P440ar/H240ar Riser 2 SAS Expander Kit (Recommended)	844115-B21
	NOTE: Cable kit required to support the SAS Expander (727250-B21) in the secondary riser (719073-B21) with the P840ar or P440ar.	
	HPE 12Gb SAS Expander Card with Cables for DL380 Gen9	727250-B21
	NOTE: SAS expander to enable 24SFF field upgrade.	
	NOTE: Primary population in slot2 or 3 of the Primary Riser.	
	HPE Legacy FIO Mode Setting	758959-B22
	NOTE: UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.	
HPE Processors	E5-2600v4 series Processors - Recommended	
	HPE DL380 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) FIO Processor Kit (Recommended)	817939-L21
	NOTE: Ships with a High Performance Heatsink.	
	HPE DL380 Gen9 Intel Xeon E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit (Recommended)	817939-B21
	NOTE: Ships with a High Performance Heatsink.	
	HPE DL380 Gen9 Intel Xeon E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit (Recommended)	817927-L21

HPE DL380 Gen9 Intel Xeon E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit (Recommended)	817927-B21
HPE DL380 Gen9 Intel Xeon E5-2690v4 (2.6GHz/14-core/35MB/135W) FIO Processor Kit (Recommended)	817959-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2690v4 (2.6GHz/14-core/35MB/135W) Processor Kit (Recommended)	817959-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit (Recommended)	817951-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit (Recommended)	817951-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit (Recommended)	817945-L21
HPE DL380 Gen9 Intel Xeon E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit (Recommended)	817945-B21
HPE DL380 Gen9 Intel Xeon E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit (Recommended)	817943-L21
HPE DL380 Gen9 Intel Xeon E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit (Recommended)	817943-B21
HPE DL380 Gen9 Intel Xeon E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit (Recommended)	817937-L21
HPE DL380 Gen9 Intel Xeon E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit (Recommended)	817937-B21
HPE DL380 Gen9 Intel Xeon E5-2667v4 (3.2GHz/8-core/25MB/135W) FIO Processor Kit (Recommended)	817947-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2667v4 (3.2GHz/8-core/25MB/135W) Processor Kit (Recommended)	817947-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit (Recommended)	817933-B21
HPE DL380 Gen9 Intel Xeon E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit (Recommended)	817933-L21
E5-2600v4 series Processors - Extended	
HPE DL380 Gen9 Intel Xeon E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit (Extended)	817941-L21
HPE DL380 Gen9 Intel Xeon E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit (Extended)	817941-B21
HPE DL380 Gen9 Intel Xeon E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit (Extended)	817931-L21
HPE DL380 Gen9 Intel Xeon E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit (Extended)	817931-B21
HPE DL380 Gen9 Intel Xeon E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	817925-L21
(Extended)	01/72J LZI

HPE DL380 Gen9 Intel Xeon E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit (Extended)	817925-B21
NOTE: This processor does not support Hyper-Threading.	
HPE DL380 Gen9 Intel Xeon E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit (Extended)	817923-L21
NOTE: This processor does not support Hyper-Threading.	
HPE DL380 Gen9 Intel Xeon E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit (Extended)	817923-B21
NOTE: This processor does not support Hyper-Threading.	
HPE DL380 Gen9 Intel Xeon E5-2637v4 (3.5GHz/4-core/15MB/135W) FIO Processor Kit (Extended)	817935-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2637v4 (3.5GHz/4-core/15MB/135W) Processor Kit (Extended)	817935-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit (Extended)	817929-L21
HPE DL380 Gen9 Intel Xeon E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit (Extended)	817929-B21
HPE DL380 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) FIO Processor Kit (Extended)	817957-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit (Extended)	817957-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) FIO Processor Kit (Extended)	817967-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit (Extended)	817967-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Processor Kit (Extended)	817965-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit (Extended)	817965-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) FIO Processor Kit (Extended)	817963-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit (Extended)	817963-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) FIO Processor Kit (Extended)	817955-L21
NOTE: Ships with a High Performance Heatsink.	

HPE Memory

HPE DL380 Gen9 Intel Xeon E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit (Extended)	817955-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit (Extended)	817953-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit (Extended)	817953-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2699Av4 (2.4GHz/22-core/55MB/145W) Processor Kit (Extended)	871026-B21
HPE DL380 Gen9 Intel Xeon E5-2699Av4 (2.4GHz/22-core/55MB/145W) FIO Processor Kit (Extended)	871026-L21
E5-2600v3 series Processors - Extended	
HPE DL380 Gen9 Intel Xeon E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit (Extended)	719044-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel Xeon E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit (Extended)	719044-B21
NOTE: Ships with a High Performance Heatsink.	
NOTE: FIO indicates factory integrated option via CTO.	
NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations in	nclude two
processors. NOTE: HT indicates that the processor model supports Intel® Hyper-Threading Technology NOTE: Turbo2: Intel® Turbo Boost Technology 2.0 provides more computing power when y with performance that adapts to spikes in your workload and delivers more performance up	ou need it
previous generation turbo technology. NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed on the quantity and type of DIMMs installed.	may depend
NOTE: The xxxxxx-L21 is the first processor shipped, the xxxxx-B21 is the 2nd processor with 2 additional FANs for factory of field installation.	and ships
NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging ⁻ Performance Heatsink. For Processors requiring double wide GPU support please order the enablement kit (719082-B21).	-
NOTE: Mixing of E5-2600v3 and E5-2600v4 Processors is not supported.	
NOTE: Field upgrade from E5-2600v3 to E5-2600v4 is supported.	
Registered DIMMs (RDIMMs) for E5-2600v3 Series - Extended	
NOTE: The following memory is supported by the E5-2600v3 series Processors.	700/00 001
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit (Recommended)	728629-B21
Registered DIMMs (RDIMMs) for E5-2600v3 Series - Extended NOTE: The following memory is supported by the E5-2600v3 series Processors.	
HPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit (Extended)	726718-B21
HPE 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit (Extended)	726719-B21
NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz.	

NOTE: Mixing of DIMM types is not supported.	
NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.	
Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series - Extended	
NOTE: The following memory is supported by the E5-2600v3 series Processors.	
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit (Extended)	726724-B21
NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. NOTE: Mixing of DIMM types is not supported. NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.	
Registered DIMMs (RDIMMs) for E5-2600v4 Series - Recommended	
NOTE: The following memory is supported by the E5-2600v4 series Processor only.	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Recommended)	805347-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Recommended)	805349-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2400 CAS-17-17-17 Registered Smart Memory Kit (Recommended)	P00423-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Recommended)	805351-B21
Registered DIMMs (RDIMMs) for E5-2600v4 Series - Extended	
HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit (Extended)	836220-B21
NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MHz. NOTE: Mixing of DIMM types is not supported. NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.	
Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series - Recommended	
NOTE: The following memory is supported by the E5-2600v4 series Processor only.	
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit (Recommended)	805353-B21
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit (Recommended)	805358-B21
HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit (Recommended)	809208-B21
NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MHz. NOTE: These LRDIMMs do not support NVDIMMs. NOTE: Mixing of DIMM types is not supported. NOTE: Mixing of 2133 and 2400MHz DIMMs is not supported.	
NOTE: Mixing the 128GB LRDIMM with other capacities is not supported.	
HPE Persistent Memory (NVDIMM) - Extended NOTE: The following memory is supported by the E5-2600v4 series Processor only.	
HPE 8GB NVDIMM Single Rank x4 DDR4-2133 Module (Extended)	782692-B21
NOTE: NVDIMMs are only supported with E5-2600v4 processors, excluding field upgrades E5-2600v3 to E5-2600v4. NOTE: A maximum of 16 NVDIMMs supported. NOTE: Can only be mixed with RDIMMs.	
NOTE: Depending on Processor selected this memory will run at 2133MHz maximum.	

HPE Optical Drives	Recommended	
	HPE 9.5mm SATA DVD-ROM Optical Drive (Recommended)	726536-B21
	NOTE: The Universal Media Bay (724865-B21) is required for this option.	
	HPE 9.5mm SATA DVD-RW Optical Drive (Recommended)	726537-B21
	NOTE: The Universal Media Bay (724865-B21) is required for this option.	
	HPE Mobile USB DVD-RW Optical Drive (Recommended)	701498-B21
	NOTE: This is only supported on USB 3.0 ports.	
HPE Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives - Recommended	
	HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD (Recommended)	881457-B21
	HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD (Recommended)	872481-B21
	HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	872479-B21
	HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	870759-B21
	HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	870757-B21
	HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	872477-B21
	HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	870753-B21
	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD (Recommended)	872475-B21
	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives - Extended	
	HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD (Extended)	870765-B21
	SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives - Recommended	
	HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD (Recommended)	765466-B21
	HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	832514-B21
	SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives - Extended	
	HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD (Extended)	765464-B21
	12G SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives - Recommended	
	HPE 600GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD (Recommended)	P04695-B21
	HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD (Recommended)	P04693-B21
	12G SAS Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty - Recommended	I
	HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD (Recommended)	819201-B21
	HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	872487-B21
	HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	872487-B21

HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	872485-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD	872485-B21
(Recommended) 12G SAS Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty - Extended	
HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed	857644-B21
Firmware HDD (Extended)	057044-021
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Extended)	846514-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD (Extended)	861754-B21
HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Extended)	846524-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives - Recommended	
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD (Recommended)	765455-B21
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	655710-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives - Recommended	
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD (Recommended)	819203-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD (Recommended)	861750-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	872491-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended)	872491-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD (Recommended)	861691-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives - Extended	
HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD (Extended)	881785-B21
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD (Extended)	857648-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Extended)	872489-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Extended)	872489-B21
SSD Selection	
To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located	
here: http://www.hpe.com/products/recommend.	
12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives - Recommended	07070/ 001
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872386-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873365-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872382-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873363-B21

HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872376-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873359-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872374-B21
(Recommended)	
12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives - Extended	
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	873367-B21
12G SAS Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives - Recommended	
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872394-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872392-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875326-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872390-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875313-B21
HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875311-B21
12G SAS Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives - Extended	
HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	870148-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	870144-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	875330-B21
12G SAS Hot Plug MU-3 SFF (3.5-inch) SC Solid State Drives - Extended	
HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	872378-B21
12G SAS Hot Plug SFF (2.5-inch) Write Intensive Solid State Drives - Recommended	
HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873357-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873355-B21
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	873351-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives - Recommended	
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04570-B21
(Recommended)	
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P06198-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875513-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04566-B21

HPE 960G (Recomme	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD nded)	P06196-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875511-B21
-	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04564-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06194-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875509-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04560-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875503-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04556-B21
	Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives - Extended	
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877764-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P06200-B21
• • • • • •	SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868830-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877758-B21
	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877752-B21
HPE 480G (Extended)	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877746-B21
HPE 240G (Extended)	B SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877740-B21
Read Inter	sive - 6G SATA - M.2 - Solid State Drives - Recommended	
HPE 480G (Recomme	B SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD nded)	875498-B21
Read Inter	sive - 6G SATA - M.2 - Solid State Drives - Extended	
HPE 960G (Extended)	B SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875500-B21
6G SATA	Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives - Recommended	
	B SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872352-B21
	B SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875478-B21
	B SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872348-B21
	B SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875474-B21
HPE 480G (Recomme	B SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD nded)	872344-B21
-	B SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875470-B21
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HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875483-B21
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P00896-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives - Extended	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877788-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877782-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877776-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	880295-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Recommended	
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Recommended)	875488-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives - Extended	
HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)	875492-B21
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended)	875490-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives - Extended	
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	877760-B21
HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	877754-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	877748-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives - Recommended	
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875480-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Recommended)	872350-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875476-B21
HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	875472-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives - Extended	
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	877790-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	877784-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	P03691-B21
HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	872346-B21
HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives - Extended	
HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	877986-B21
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875591-B21

HPE 1TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	877984-B21
HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875589-B21
HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875587-B21
HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	878014-B21
NOTE: With NVMe support only 1xDouble Wide Graphics card is supported.	
HPE NVMe PCIe Mixed Use SFF (2.5 inch) Solid State Drives - Recommended	
HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	877998-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875597-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	877994-B21
HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875595-B21
HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875593-B21
NOTE: With NVMe support only 1xDouble Wide Graphics card is supported.	
NOTE: The NVMe CTO chassis (810393-B21) or the NVMe Express Bay Enablement kit	
(774741-B21) are required to support these drives.	
NOTE: HPE has qualified the NVMe drive portfolio using the Operating System inbox drivers, full detail on the HPE Solid State Drive QuickSpecs .	
NOTE: With NVMe support only 1xDouble Wide Graphics card is supported.	
M.2 SSD - Recommended	
HPE Universal SATA HHHL 3yr Wty M.2 Kit (Recommended)	878783-B21
NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only.	
NOTE: M.2 supports Software RAID only.	
NOTE: No HPE Flexible Smart Array supported.	
Hard Drive Blank Kits - Recommended	
HPE Large Form Factor Hard Drive Blank Kit (Recommended)	666986-B21
HPE Small Form Factor Hard Drive Blank Kit (Recommended)	666987-B21
Hard Drive Kits - Recommended	
HPE DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit (Recommended)	774741-B21
NOTE: This option provides support for up to 6NVMe drives, and can only be populated in BAY2 in SFF chassis only, can be used with Bay1 and Bay 3 populated. NOTE: The HPE DL380 Gen9 High Performance Fan Kit is required for NVMe support	
(719079-B21).	
NOTE: The PCIe card in this enablement kit can only be populated in slot2 (primary) or slot 5 (secondary).	
NOTE: For true x16 support with this option a secondary riser (719073-B21) is needed (second processor required).	
NOTE: Kit includes Mylar film for Universal Media Bay (724865-B21) support to ensure optimal airflow.	
HPE DL380 Gen9 8SFF Bay1 Cage/Backplane Kit (Recommended)	719067-B21
HPE DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit (Recommended)	768857-B21

Core Options		
	HPE DL380 Gen9 2SFF Front/Rear SAS/SATA Kit (Recommended)	724864-B21
	HPE DL380 Gen9 3LFF Rear SAS/SATA Kit (Recommended)	768856-B21
	NOTE: For a complete list of the drive, controller and cable options please check the	
	compatibility matrix:	
	https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA5- 4154ENW&cc=us&lc=en	
	Media Bay Kits - Recommended	
	HPE DL380 Gen9 Universal Media Bay Kit (Recommended)	724865-B21
	NOTE: The Universal Media Bay offers front VGA and 2xUSB 2.0, plus ability to add	
	optional Optical drive, and 2SFF.	
	NOTE: This is only compatible with the 8SFF or 8+8 SFF front end configurations and can	
	only be populated in Bay1.	
HPE Networking	1 Gigabit Ethernet adapters - Recommended	
	HPE Ethernet 1Gb 4-port 331T Adapter (Recommended)	647594-B21
	HPE Ethernet 1Gb 4-port 366T Adapter (Recommended)	811546-B21
	1 Gigabit Ethernet adapters - Extended	
	HPE Ethernet 1Gb 2-port 332T Adapter (Extended)	615732-B21
	HPE Ethernet 1Gb 2-port 361T Adapter (Extended)	652497-B21
	10 Gigabit Ethernet adapters - Recommended	
	HPE Ethernet 10Gb 2-port 530SFP Adapter (Recommended)	652503-B21
	HPE Ethernet 10Gb 2-port 530T Adapter (Recommended)	656596-B21
	HPE Ethernet 10Gb 2-port 562SFP+ Adapter (Recommended)	727055-B21
	10 Gigabit Ethernet adapters - Extended	
	HPE Ethernet 10Gb 2-port 546SFP+ Adapter (Extended)	779793-B21
	HPE Ethernet 10Gb 2-port 560SFP+ Adapter (Extended)	665249-B21
	HPE Ethernet 10Gb 2-port 561T Adapter (Extended)	716591-B21
	NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded.	
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.	
	NOTE: 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: http://www.hpe.com/servers/ProLiantNICs.	
	25 Gigabit Ethernet adapters - Recommended	
	HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter (Recommended)	817753-B21
	FlexibleLOM Adapters - Recommended	01//55 021
	HPE Ethernet 1Gb 4-port 331FLR Adapter (Recommended)	629135-B22
	HPE Ethernet 1Gb 4-port 366FLR Adapter (Recommended)	665240-B21
	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter (Recommended)	700759-B21
	HPE FlexFabric 10Gb 2-port 535FLR-1 Adapter (Recommended)	700759-B21 700751-B21
	HPE FlexFabric 10Gb 4-port 536FLR-T Adapter (Recommended)	764302-B21
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter (Recommended)	704302-B21 727054-B21
	HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter (Recommended)	817749-B21
	FlexibleLOM Adapters - Extended	01//47-DZT
	-	779799-B21
	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter (Extended)	1141AA-RST

Core Options		
core opnono		
	HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter (Extended)	727060-B21
	HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter (Extended) HPE Ethernet 10Gb 2-port 561FLR-T Adapter (Extended)	665243-B21 700699-B21
		100044-DZT
	NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: Only one FlexibleLOM can be added to the server. These options are upgradeable	
	and can be changed from the original configuration after the server is shipped.	
	NOTE: 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: <u>http://www.hpe.com/servers/ProLiantNICs</u> ,	
HPE InfiniBand	NOTE: The DUEL 4.5. driver is not part of SDD, but may be developeded	,
	NOTE: The RHEL6.5 driver is not part of SPP, but may be downloaded here: http://h20565.www2.hpe.com/portal/site/hpsc/ .	
	Recommended	
	HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter (Recommended)	764286-B21
	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter (Recommended)	764285-B21
	HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Recommended)	764284-B21
	HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture	829335-B21
	Adapter (Recommended)	
	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Recommended)	825110-B21
	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Recommended)	825111-B21
	HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter (Recommended)	872725-B21
	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter (Recommended)	872726-B21
HPE I/O Expansion	Recommended	
Options	HPE DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit (Recommended)	719076-B21
	NOTE: This is for slot 1 and supports double wide GPGPUs.	
	NOTE: For Graphics cards please also order the DL380 Gen9 Graphics Enablement kit, 719082-B21.	
	Slot1: 1xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
	NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging	
	the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).	
	HPE DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit (Recommended)	719073-B21
	NOTE: This is for slot 2 and supports double wide GPGPUs.	/1/0/3 D21
	NOTE: For Graphics cards please also order the DL380 Gen9 Graphics Enablement kit,	
	719082-B21	
	Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
	NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging	
	the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).	
HPE Power	HDE Elay Slat Platinum Hat nlug Power supplies - Decommended	
Supplies	HPE Flex Slot Platinum Hot-plug Power supplies - Recommended	1CJ 07./\C
· ·········	HPE 500W Flex Slot Platinum Hot Plug Power Supply Kit (Recommended) NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94%.	720478-B21
	HPE 800W Flex Slot Platinum Hot Plug Power Supply Kit (Recommended)	720479-B21
	NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94%.	/ 204/ 7-021
	NOTE: THEX STOLE FLATHRUIT POWEL SUPPLIES SUPPOID POWEL ETHCHETCY OF UP TO 94%.	

	HPE 800W Flex Slot -48VDC Hot Plug Power Supply Kit (Recommended)	720480-B21
	NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.	
	HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit (Recommended)	720620-B21
	NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94%.	
	HPE Flex Slot Platinum Hot-plug Power supplies - Extended	
	HPE 800W Flex Slot Titanium Hot Plug Power Supply Kit (Extended)	720482-B21
	NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96%.	
	 NOTE: All power supplies must be of the same input voltage, output rating, and efficiency matching power supplies are installed, you may receive an error message and/or experience issues with your server. NOTE: Mixing different power supplies in the same server may limit or disable some power features including support for power redundancy. To ensure access to all available features supplies within the same server should have the same output and efficiency ratings NOTE: Prior to selecting a power supply option, it is highly recommended that you review y configuration in the HPE Power Advisor tool to determine the right size power supply for y configuration. The HPE Power Advisor is located at: http://www.hpe.com/info/hppowerade 	e operational supply s, all power your server our server <u>dvisor</u> .
	NOTE: Support for HPE Power Discovery Services is included with the 1400W Flex Slot optimized and the bring of the found of the service of t	tion. Power
	specifications and technical content for all HPE Server power supplies can be found at http://www.hpe.com/info/proliant/powersupply	
	NOTE: Maximum of 2 Flex Slot PS per platform.	
HPE Computation	Recommended	
and Graphics	HPE DL380 Gen9 Graphics Enablement Kit (Recommended)	719082-B21
Accelerators	NOTE: This GPU enablement kit includes 2 Heatsinks and 8 cables to enable double wide	
	GPUs to be supported.	
	NOTE: For doublewide GPU support you are required to have at least 1x1400W Power	
	Supply (720620-B21), per card for cards over 150W. Cards 150W or under can used	
	800W Power Supplies; however check the power usage via the HPE Power Advisor Tool	
	located at http://www.hpe.com/info/hppoweradvisor	
	NOTE: There are limitations on the chassis and processor supported when	
	adding Graphics accelerators.	
	NOTE: Passive cards will require the addition of the High Performance Fan Kit (719079-B21).	
	NOTE: We support up to 2 Double wide and 3 single wide Graphics cards, limitations apply.	
	NOTE: This kit support up to 2 double wide Graphics cards.	
	NOTE: Double Wide GPUs will occupy slots 2 and 5 and will leave only 2 slots left open.	
	NOTE: There are limitations on GPU support (1x double wide) with the NVMe bay installed.	
	NOTE: All Accelerators are restricted to less than 1024GB for system host memory, with the exception of the Tesla P100, AMD and Intel cards.	
	NOTE: This kit includes PCIe GPU Retention Brackets that need to be installed on the air baffle to support FL cards.	
	NOTE: Not required for M2000.	
	NVIDIA Tesla M10 Quad GPU Module (Recommended)	Q0J62A
	NOTE: This is supported in all chassis, however with the following limitations: 4LFF supported to 35C, 8SFF supported to 35C, 12LFF supported to 30C, 16SFF+Universal Media bay supported to 35C, 16SFF+NVMe cage supported to 35C and 24SFF+2SFF supported to 35C.	

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: For doublewide GPU support you are required to have at least 1x1400W Power	
Supply (720620-B21), per card.	
NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079-	
B21).	
NOTE: Only supported with E5-2600v4 processors.	
HPE NVIDIA Tesla M60 Reverse Air Flow Dual GPU PCIe Graphics Accelerator (Recommended)	M3X67A
NOTE: Maximum 2 supported with both risers, support for 2 cards requires the 1400W	
Power Supply (720620-B21) to be selected.	
NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079- B21).	
NOTE: This card only runs at PCIeGen2 speeds.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: There are limitations operating this card with a 160W processor with operative	
environment temperature limitations: 8SFF to 35°C, 16 SFF to 25°C and 24SFF/12LFF to 20°C	
NOTE: Additional Grid 2.0 Licensing from NVIDIA is required.	
HPE NVIDIA Tesla P4 8GB Computational Accelerator (Recommended)	Q0V79A
	QUV79A
NOTE: Maximum of 3 cards supported per server.	
NOTE: This is supported in all chassis.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required). NOTE: 1x 1400W PS recommended, but this card will work with 1x800W PS (Per GPU).	
However check the power usage via the HPE Power Advisor Tool located	
at http://www.hpe.com/info/hppoweradvisor.	
NOTE: No GPU enablement kit is required for this option.	
NOTE: Only supported with E5-2600v4 processors.	
HPE NVIDIA Tesla P40 24GB Computational Accelerator (Recommended)	Q0V80A
NOTE: There are chassis limitations with this card: 4LFF supported to 35C, 8SFF	
supported to 35C, 12LFF supported to 25C , 16SFF+Universal Media bay supported to	
30C, 16SFF+NVMe cage supported to 30C and 24SFF+2SFF supported to 30C.	
NOTE: For doublewide GPU support you are required to have at least 1x1400W Power	
Supply (720620-B21), per card.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: There are limitations on the chassis and processor supported when	
adding Graphics accelerators.	
NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).	
NOTE: This card is supported on the E5-2600v4 series processors only.	
HPE NVIDIA Tesla P100 PCIe 12GB Computational Accelerator (Recommended)	Q2S42A
NOTE: There are chassis limitations with this card: 4LFF supported to 25C, 8SFF supported to 30C, 12LFF not supported, 16SFF+Universal Media bay supported to 30C, 16SFF+NVMe cage supported to 30C and 24SFF+2SFF supported to 20C.	

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: There are limitations on the chassis and processor supported when	
adding Graphics accelerators.	
NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).	
NOTE: This card is supported on the E5-2600v4 series processors only.	
HPE NVIDIA Tesla P100 PCIe 16GB Computational Accelerator (Recommended)	Q0E21A
NOTE: There are chassis limitations with this card: 4LFF supported to 25C, 8SFF	
supported to 30C, 12LFF not supported, 16SFF+Universal Media bay supported to 30C,	
16SFF+NVMe cage supported to 30C and 24SFF+2SFF supported to 20C.	
NOTE: For doublewide GPU support you are required to have at least 1x1400W Power	
Supply (720620-B21), per card.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: There are limitations on the chassis and processor supported when	
adding Graphics accelerators.	
NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).	
NOTE: This card is supported on the E5-2600v4 series processors only.	
HPE NVIDIA Quadro P2000 Graphics Accelerator (Recommended)	Q0V77A
NOTE: Only supported with E5-2600v4 processors.	
NOTE: This is supported in all chassis.	
NOTE: Support with this card limited to 35C for all chassis permatations.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: 1x 1400W PS recommended, but this card will work with 1x800W PS (Per GPU).	
However check the power usage via the HPE Power Advisor Tool located	
at http://www.hpe.com/info/hppoweradvisor.	
HPE NVIDIA Quadro P4000 Graphics Accelerator (Recommended)	Q0V78A
NOTE: Only supported with E5-2600v4 processors.	
NOTE: This is supported in all chassis.	
NOTE: Support with this card limited to 35C for all chassis permatations.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: 1x 1400W PS recommended, but this card will work with 1x800W PS (Per GPU).	
However check the power usage via the HPE Power Advisor Tool located	
at http://www.hpe.com/info/hppoweradvisor.	
HPE NVIDIA Quadro P6000 Graphics Accelerator (Recommended)	Q0V76A
NOTE: There are chassis limitations with this card: 4LFF supported to 25C, 8SFF	
supported to 30C, 12LFF not supported, 16SFF+Universal Media bay supported to 30C,	
16SFF+NVMe cage supported to 20C and 24SFF+2SFF supported to 20C.	
NOTE: For doublewide GPU support you are required to have at least 1x1400W Power	
Supply (720620-B21), per card.	

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: There are limitations on the chassis and processor supported when	
adding Graphics accelerators.	
NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).	
NOTE: This card is supported on the E5-2600v4 series processors only.	
HPE NVIDIA Tesla V100 PCIe 16GB Computational Accelerator (Recommended)	Q2N68A
HPE AMD FirePro S9150 Accelerator Kit (Recommended)	JOH11A
NOTE: For doublewide GPU support you are required to have at least 1x1400W Power	
Supply (720620-B21), per card.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: There are limitations on the chassis and processor supported when	
adding Graphics accelerators.	
NOTE: This card will require the addition of the High Performance Fan Kit (719079-	
B21).	
NOTE: This card is supported on the E5-2600v3 series processors only.	
NOTE: 12LFF support is restricted to 30C Server Ambient only.	
HPE AMD FirePro S7150x2 Accelerator Kit (Recommended)	M3X68A
NOTE: For doublewide GPU support you are required to have at least 1x1400W Power	
Supply (720620-B21), per card.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd	
processor required).	
NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators.	
NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).	
NOTE: This card is supported on the E5-2600v4 series processors only.	
NOTE: This card only runs at PCIeGen2 speeds.	
NOTE: There are limitations operating this card with operative environment temperature	
limitations: 12LFF chassis to 30°C	
NOTE: Each DL380 Gen9 server will accommodate up to three single-width or two double	
width PCIe cards for Computational Graphics support. Note that 11.25" is the max length	
for a card to also allow for cabling. This applies to primary slots 1 $\&$ 2 or secondary slots 4	
& 5.	
NOTE: The NVIDIA Tesla, GRID and Quadro modules are supported only on 64-bit	
versions of Linux and Windows operating systems as well as on Virtual Machine client	
operating systems. The supported bare metal operating systems are RHEL6, SLES 11 and Windows Server 2012 R2.	
NOTE: There are limitations on fan types, setting, and chassis support by card.	
NOTE: Mixing of GPUs is not supported.	
NOTE: All NVIDIA, Intel and AMD cards limit configurations to having less than 1TB	
memory installed.	
NOTE: Double Wide GPUs will occupy slots 2 and 5 and will leave only 2 slots left open.	
NOTE: There are limitations on GPU support with the NVMe bay installed.	

719079-B21

Core Options

HPE Cooling Options

HPE DL380 Gen9 High Performance Fan Kit (Recommended)
 NOTE: 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.
 NOTE: The 12LFF and 24SFF chassis (including field upgrades to 24SFF) will already include 6 High Performance Fan kits.
 NOTE: The High Performance Fan Kit is needed to support certain Passive GPGPU (Graphics cards) configurations; or ASHRAE operating environments.
 NOTE: For elevated ambient temperature support please see: http://www.hpe.com/servers/ashrae.

Recommended Options

Offering the best combination of performance, value and availability, Recommended Options have been selected by HPE experts to provide the right technology for a range of workloads and market segments. Fully integrated into the HPE management and security experience, Recommended Options provide the best fit with timely availability.

Extended Options

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the HPE management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

NOTE: 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 Insight	HPE Insight Control	
Software	HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU	C6N27A
	HPE Insight Control including 1yr 24x7 TSU E-LTU	C6N28ABE
	HPE Insight Control Upgrade from iLO Advanced including 1yr 24x7 Support E-LTU	C6N38ABE
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. NOTE: Customer will receive a license entitlement certificate. The license entitlement	
	certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HPE Software Technical Support and Update Service.	
	NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded	
	at: <u>https://www.hpe.com/info/insightmanagement</u> . NOTE: For additional license options please see the <u>HPE Insight Control QuickSpecs</u> .	
	NOTE: For additional license options please see the QuickSpecs	
	at: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123391	
	HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU	C6N36A
Embedded	HPE iLO Advanced	
Management	HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
	HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
	HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE Converged	HPE OneView Advanced (with HPE iLO Advanced)	
Infrastructure	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
Management Software	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
	HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
	HPE OneView Advanced (without HPE iLO Advanced)	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
	HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE

P8B31A

E5Y37A

Additional OptionsHPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU
HPE OneView Physical Media Kit LTUNOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE
Insight Control without additional charge.NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as
part of HPE OneView Advanced and provides multi-server OS and driver provisioning.
Media kit #BD883A can be ordered for a physical copy of this software (USB flash
drive).NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered
separately, or can be downloaded at: http://www.hpe.com/info/hpeoneview

	separately, or can be downloaded at: http://www.hpe.com/info/hpeoneview.	
High Performance	HPE Cluster Management Utility	
Clusters	HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU	QL803B
	HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU	BD476A
	NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement.	
	HPE Insight Cluster Management Utility Media	BD477A
	NOTE: For additional license kits please see the <u>HPE Insight Cluster Management</u> <u>Utility QuickSpecs</u> .	
HPE PCIe Workload	NVME PCIe Workload Accelerators - Recommended	
Accelerator Options	HPE 1.6TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card (Recommended)	877825-B21
	NVME PCIe Workload Accelerators - Extended	
	HPE 6.4TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card (Extended)	877829-B21
	HPE 4TB PCIe x4 Lanes Read Intensive HHHL 3yr Wty Digitally Signed Firmware Card (Extended)	877831-B21
	HPE 3.2TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card (Extended)	877827-B21
	HPE 750GB PCIe x4 Lanes Write Intensive HHHL 3yr Wty Digitally Signed Firmware Card (Extended)	878038-B21
HPE Security	Recommended	
	HPE 2U Security Bezel Kit (Recommended)	666988-B21
	HPE Trusted Platform Module 2.0 Kit (Recommended)	745823-B21
	NOTE: If the TPM Module (488069-B21) is installed, then there is no support for TPM 2.0.	
	NOTE: This is supported on both the E5-2600v3 and E5-2600v4 processors. NOTE: HPE Trusted Platform Module 2.0 Option works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.	
	NOTE: HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option.	
	NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.	

Additional Opt	Additional Options	
	HPE Trusted Platform Module Option (Recommended)	488069-B21
	NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version. Compatible server platforms include Gen8 and Gen9 servers. NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.	
HPE Storage	SAS Controllers	
Controllers	HPE Flexible Smart Array Controllers - Recommended	
	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller (Recommended)	726736-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
	NOTE: Includes the HPE Smart Storage Battery.	
	HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller (Recommended)	749974-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
	NOTE: Includes the HPE Smart Storage Battery.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HPE Smart Array P840ar/2GB FBWC 12Gb 2-port Internal SAS Controller (Recommended)	843199-B21
	NOTE: Provides support for up to 16 internal SAS/SATA drives without using a PCIe slot.	
	NOTE: Includes the HPE Smart Storage Battery.	
	HPE Smart Array Controllers - Recommended	
	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller (Recommended)	726821-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives.	
	HPE Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller (Recommended)	726897-B21
	HPE Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller (Recommended)	761872-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives.	
	NOTE: Includes the HPE Smart Storage Battery. NOTE: FIO indicates factory integrated option via CTO.	
	HPE Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller (Recommended)	761874-B21
	NOTE: Includes the HPE Smart Storage Battery.	
	NOTE: When ordering controllers, please reference the HPE Cable Options below for the required cable.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HPE Smart Array Controllers - Extended	
	HPE Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller (Extended)	726903-B21
	HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller (Extended)	726825-B21
	HPE Smart Host Bus Adapters - Recommended	
	HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter (Recommended)	726911-B21
	HPE H240ar 12Gb 2-ports Int Smart Host Bus Adapter (Recommended)	726757-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
	HPE H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter (Recommended)	749976-B21

	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HPE Smart Host Bus Adapters - Extended	
	HPE H240 12Gb 2-ports Int Smart Host Bus Adapter (Extended)	726907-B21
	HPE Cable Options - Recommended	
	HPE DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit (Recommended)	783007-B21
	NOTE: 12LFF port 3 to 2SFF or 3LFF to P440/840 PCIe.	
	HPE DL380 Gen9 2SFF Front SAS x4 Cable Kit (Recommended)	783008-B21
	NOTE: For front mount 2SFF to H240/P440ar, H240 or embedded B140i SATA.	
	HPE DL380 Gen9 8SFF SAS Cable Kit (Recommended)	783009-B21
	NOTE: 8/16/24 SFF to P840/440 bay 3.	
	HPE DL380 Gen9 2SFF x8 Front Cable Kit (Recommended)	785989-B21
	NOTE: For front/rear mount 2SFF to P440/840 PCIe).	
	HPE DL380 Gen9 12LFF SAS Cable Kit (Recommended)	785991-B21
	NOTE: For 12LFF to P440/840 PCIe cables- ports 1/2/3.	
	HPE DL380 SFF Smart Array HBA H200/P400 Series SAS Cable Kit (Recommended) NOTE: 8/16/24SFF to 240/440ar, H240 PCIe or embedded B140i SATA.	786092-B21
	HPE DL380 Gen9 12LFF Smart HBA H240 SAS Cable Kit (Recommended)	786215-B21
	NOTE: For 12LFF ports 1&2 to H240/P440ar, H240 or embedded B140i SATA.	700213 021
	NOTE: For details on cabling options, additional information available here:	
	Cabling Matrix.	
	Optional Software	
	HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU	Q2F26AAE
	HPE Smart Array SR SmartCache (Single Key/Single Server) LTU	D7S26A
	HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU	D7S27A
	HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU	D7S27AAE
	NOTE: HPE SmartCache is supported when one of the supported Smart Array Controllers is installed in the server.	
	NOTE: HPE SmartCache comes standard (no licensing is required) if the HPE Smart	
	Array P840 Controller is installed in the server.	
HPE Tape Backup	NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hpe.com/storage/storeever . For hardware and software compatibility	of Hewlett
	Packard Enterprise tape backup products http://www.hpe.com/storage/BURAcompati	
	Tape Drives	
	HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
	HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
	HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
	HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
	HPE Tape Storage Systems	
	HPE StoreEver MSL6480	
	HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A

	NOTE: Please see the HPE StoreEver MSL6480 Tape Library QuickSpecs for Technical Specifications and additional information. HPE StoreEver MSL6480 Scalable Base Module HPE StoreEver MSL2024 0-drive Tape Library	
		QU625A AK379A AK381A
	HPE StoreEver MSL4048 0-drive Tape Library	
HPE Disk Backup	HPE RDX Removable Disk Backup System	
	HPE RDX 4TB USB 3.0 External Disk Backup System	Q2R33A
	HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A
	HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A
	HPE RDX 2TB USB3.0 External Disk Backup System	E7X53B
	HPE RDX+ 1TB External Backup System	B7B69E
	HPE RDX+ 500GB External Backup System	B7B66E
	HPE RDX+ External Docking System	C8S07E
	HPE D3700 Enclosure	QW967A
	HPE D3600 Enclosure	QW968A
	NOTE: For the complete range of RDX drives and media	QW/00/
	see: https://www.hpe.com/us/en/product-catalog/storage/disk-based-backup- systems.html. For hardware and software compatibility of Hewlett Packard	
	Enterprise disk backup products see: <u>http://www.hpe.com/storage/spock</u> .	
HPE Storage	NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000,	Windows
Options	Server 2003 and Linux, please see: https://www.hpe.com/us/en/product-catalog/storage/storage-adapters.html	
	Emulex Fibre Channel HBAs - Recommended	
	HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter (Recommended)	AJ762E
	HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter (Recommended)	AJ763E
	HPE StoreFabric 84E 4-port 8Gb Fibre Channel Host Bus Adapter (Recommended)	E7Y63A
	HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	QOL13A
	HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	QOL14A
	HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	QOL11A
	HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	QOL12A
	HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	C8R38A
	HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	C8R39A
	HPE StoreFabric SN1100E 4-port 16Gb Fibre Channel Host Bus Adapter (Recommended)	P9D99A
	QLogic Fibre Channel HBAs - Recommended	
	HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter (Recommended)	AK344A
	HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter (Recommended)	AJ764A
	HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter (Recommended)	P9D914
	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	P9D93A

Additional Options

	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	P9D94A
	HPE StoreFabric SN1000Q 16GB 1-port PCle Fibre Channel Host Bus Adapter (Recommended)	QW971A
	HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter (Recommended)	QW972A
	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	P9M75A
	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	P9M76A
	Converged Network Adapter - Recommended	
	HPE StoreFabric CN1100R Dual Port Converged Network Adapter (Recommended)	QW990A
	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter (Recommended)	N3U52A
	HPE StoreFabric CN1200E 10Gb Converged Network Adapter (Recommended)	E7Y06A
	HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter (Recommended)	N3U51A
HPE Power	HPE Basic Power Distribution Units (PDU) - Extended	
Distribution Units	HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer (Extended)	H3X09A
(PDUs)	NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs	
	for information on additional options and product specifications.	
	HPE Intelligent Power Distribution Unit (PDU) - Recommended	
	HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU (Recommended)	AF520A
	HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU (Recommended)	AF525A
	HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU (Recommended)	AF535A
	HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit (Recommended)	AF534A
	HPE 5xC13 Intelligent PDU Extension Bar G2 Kit (Recommended)	AF547A
	HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar (Recommended)	AF528A
	HPE Intelligent Power Distribution Unit (PDU) - Extended	
	HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU (Extended)	AF521A
	HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU (Extended)	AF522A
	HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU (Extended)	AF523A
	HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU (Extended)	AF526A
	HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU (Extended)	AF527A
	HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C19/Horizontal INTL PDU (Extended)	AF538A
	HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU (Extended)	AF533A

NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs

for information on additional options and product specifications.

HPE Rack Mount	HPE Location Discovery Services	
Consoles, KVM	HPE DL380 Gen9 Location Discovery Services Ear Kit	768884-B21
Switches, and Keyboards	NOTE: Please see the HPE Location Discovery Services QuickSpecs for information	
	on additional options and product specifications.	
	HPE Rack Mount Consoles - Recommended	
	HPE LCD8500 1U US Rackmount Console Kit (Recommended)	AF630A
	HPE LCD8500 1U JP Rackmount Console Kit (Recommended)	AF642A
	HPE LCD8500 1U INTL Rackmount Console Kit (Recommended)	AF644A
	HPE Rack Mount Consoles - Extended	
	HPE LCD8500 1U UK Rackmount Console Kit (Extended)	AF631A
	HPE LCD8500 1U DE Rackmount Console Kit (Extended)	AF632A
	HPE LCD8500 1U FR Rackmount Console Kit (Extended)	AF633A
	HPE LCD8500 1U RU Rackmount Console Kit (Extended)	AF643A
	HPE LCD8500 1U US TAA Rackmount Console Kit (Extended)	AF645A
	HPE KVM Switches - Recommended	
	HPE 0x1x8 G3 KVM Console Switch (Recommended)	AF651A
	HPE 0x2x16 G3 KVM Console Switch (Recommended)	AF652A
	HPE 1x4 USB/PS2 KVM Console Switch (Recommended)	AF611A
	HPE KVM Console USB Interface Adapter (Recommended)	AF628A
	HPE KVM Console USB 2.0 Virtual Media CAC Interface Adapter (Recommended)	AF629A
	HPE KVM Switches - Extended	
	HPE USB Remote Access Key for G3 KVM Console Switches (Extended)	AF650A
	HPE 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software (Extended)	AF618A
	HPE 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software (Extended)	AF619A
	HPE 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software (Extended)	AF620A
	HPE 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software (Extended)	AF621A
	HPE 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software (Extended)	AF622A
	NOTE: To learn more, please visit the HPE KVM Switches web page.	
	HPE USB Keyboard and Mouse - Recommended	
	HPE USB US Keyboard/Mouse Kit (Recommended)	631341-B21
	HPE USB UK Keyboard/Mouse Kit (Recommended)	631344-B21
	HPE USB FR Keyboard/Mouse Kit (Recommended)	631346-B21
	HPE USB ES Keyboard/Mouse Kit (Recommended)	631348-B21
	HPE USB DE Keyboard/Mouse Kit (Recommended)	631358-B21
	HPE USB JP Keyboard/Mouse Kit (Recommended)	631360-B21
	HPE USB IT Keyboard/Mouse Kit (Recommended)	631362-B21
	HPE USB CN Keyboard/Mouse Kit (Recommended)	631364-B21
	HPE USB AE Keyboard/Mouse Kit (Recommended)	638212-B21
	HPE USB RU Keyboard/Mouse Kit (Recommended)	638214-B21
	HPE USB IN Keyboard/Mouse Kit (Recommended)	672097-D63

HPE USB AP/INTL Keyboard/Mouse Kit (Recommended)	672097-373
HPE USB INTL Keyboard/Mouse Kit (Recommended)	672097-B33
HPE USB PT Keyboard/Mouse Kit (Recommended)	672097-133
HPE USB TR Keyboard/Mouse Kit (Recommended)	672097-143
HPE USB CZ Keyboard/Mouse Kit (Recommended)	672097-223
HPE USB FI Keyboard/Mouse Kit (Recommended)	672097-353
HPE USB SE Keyboard/Mouse Kit (Recommended)	672097-103
HPE USB CH Keyboard/Mouse Kit (Recommended)	672097-113
HPE USB KR Keyboard/Mouse Kit (Recommended)	672097-KD3

Rail Kits - Recommended

NOTE: Gen9 rail kits have changed significantly from prior generation rail kits. Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server.

NOTE: Rail kits are optional for DL380 Gen9 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit.

NOTE: Ball bearing and Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.

NOTE: To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001).

CAUTION: 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 Easy Install Rail Kit (Recommended)	733660-B21
NOTE: Does not include CMA (733664-B21).	
HPE 2U Large Form Factor Easy Install Rail Kit (Recommended)	733662-B21
NOTE: Does not include CMA (733664-B21).	
HPE 2U Cable Management Arm for Easy Install Rail Kit (Recommended)	733664-B21
HPE 2U Small Form Factor Ball Bearing Rail Kit (Recommended)	720863-B21
NOTE: Does not include CMA (720865-B21).	
HPE 2U Large Form Factor Ball Bearing Rail Kit (Recommended)	720864-B21
NOTE: Does not include CMA (720865-B21).	
HPE 2U Cable Management Arm for Ball Bearing Rail Kit (Recommended)	720865-B21
HPE Other Options - Recommended	
HPE Rack LED Light Kit (Recommended)	BW939A
HPE Other Options - Extended	
HPE Kit LCD 1.83m Latch Display Port Cable (Extended)	G7T29A

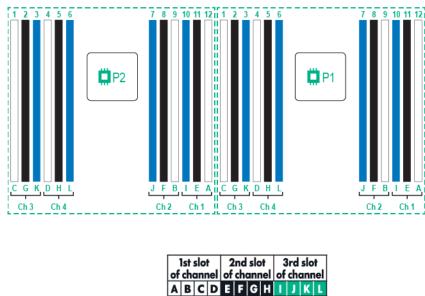
HPE Uninterruptible HPE Rack-mountable UPS

Power Systems (UPS) R7000 Uninterruptible Power System (UPS) - Extended

HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System (Extended)	AF462A
HPE R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System (Extended)	AF463A
R5000 Uninterruptible Power System (UPS) - Recommended	
HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System (Recommended)	AF460A
HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System (Recommended)	AF461A

Additional Option	IS	
	NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for	
	information on additional options and product specifications.	
	HPE UPS Options - Recommended	
	HPE R/T3000 G4 Extended Runtime Module (Recommended)	J2R10A
	HPE UPS Options - Recommended	
	HPE R/T2200 G4 Extended Runtime Module (Extended)	J2R09A
	HPE 2U Rack/Tower UPS Shipping Kit (Extended)	L4Q11A
	NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS)</u> web page.	
HPE USB and SD	HPE Enterprise Mainstream Flash Media Kits for Memory Cards - Recommended	
Options	HPE 32GB microSD Flash Memory Card (Recommended)	700139-B21
	HPE 8GB microSD Flash Memory Card (Recommended)	726116-B21
	HPE 8GB microSD Flash USB Drive (Recommended)	737953-B21
	HPE 8GB Dual microSD Flash USB Drive (Recommended)	741279-B21
HPE Support Services	Installation & Start-up Services	
	HPE Install ProLiant DL38x(p) Service	U4554E
	HPE Installation and Startup DL38x(p) Service	U4555E
	Proactive Care	
	HPE 3 year Proactive Care 24x7 DL380 Gen9 w/IC Service	U5HW1E
	HPE 3 year Proactive Care 24x7 with DMR DL380 Gen9 w/IC Service	U5HW2E
	HPE 3 year Proactive Care 24x7 with CDMR DL380 Gen9 w/IC Service	U5HW3E
	HPE 3 year Proactive Care Call to Repair DL380 Gen9 w/IC Service	U5HX0E
	HPE 3 year Proactive Care Call to Repair $24x7$ with DMR DL380 Gen9 w/IC Service	U5HX1E
	HPE 3 year Proactive Care Call to Repair with CDMR DL380 Gen9 w/IC Service	U5HX2E
	HPE 3 year Proactive Care 24x7 DL380 Gen9 Service	U7AE8E
	HPE 3 year Proactive Care 24x7 with DMR DL380 Gen9 Service	U7AE9E
	HPE 3 year Proactive Care 24x7 with CDMR DL380 Gen9 Service	U7AF0E
	HPE 3 year Proactive Care Call to Repair DL380 Gen9 Service	U7AF4E
	HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL380 Gen9 Service	U7AF5E
	HPE 3 year Proactive Care Call to Repair with CDMR DL380 Gen9 Service	U7AF6E
	NOTE: For a full listing of support services available for this server, please visit https://ssc.hpe.com/	

Memory Population guidelines





General Memory Population Rules and Guidelines:

- . White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- . A minimum of one DIMM is required per server.
- . 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 and to load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- . Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel. Heaviest load (DIMM with most ranks) within a channel goes furthest from the processor.
- . Do not mix RDIMMs or LRDIMMs.
- . LRDIMMs are supported up to 3 DIMMs per channel.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- . The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors.
- . HPE memory from previous generation servers is not compatible with the DL380 Gen9 Server. Certain HPE SmartMemory features such as memory authentication and enhanced performance may not be supported.
- . To realize the performance memory capabilities listed in this document, HPE SmartMemory is required. For additional information, please see the HPE SmartMemory QuickSpecs
- at: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111535.
- . For memory population rules and additional memory guidelines, please see the DL380 Gen9 user guide at http://www.hpe.com/support.

- . There are four (4) Memory channels per processor; eight (8) channels per 2 processor server.
- . There are three (3) DIMM slots for each memory channel; twenty four (24) total slots for 2 processor server.
- . Memory channels1 and 3 consists of the three (3) DIMMs that are furthest from the processor.
- . Memory channel 2 and 4 consists of the three (3) DIMMs that are closest to the processor.

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v3 Series Processor Family

	Memory Bandwidth	and Capacity			
[DIMM Type]		Load Reduced (LRDIMMs)			
HPE SKU P/N	726718-B21	726719-B21	P00423-B21	728629-B21	726724-B21
DIMM Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank
DIMM Capacity	8GB	16GB	16GB	32GB	64GB
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
DRAM Depth [bit]	1G	1G	1G	1G	2G
DRAM Width [bit]	x4	x4	x8	x4	x4
DRAM Density	4Gb	4Gb	8Gb	4Gb	8Gb
CAS Latency	15-15-15	15-15-15	17-17-17	15-15-15	15-15-15
DIMM Native Speed (MT/s)	2133	2133	2400	2133	2133
-	AN BE POPULATED		1	1	
24 slot servers	24	24	24	24	24
MAXIMUM CAP	ACITY (GB)		•		•
	192	384	384	768	1536
POPULATED D	IMM SPEED (MT/s)				•
1 DIMM Per Channel	2133	2133	2400	2133	2133
2 DIMM Per Channel	2133	2133	2400	2133	2133
3 DIMM Per Channel	1600	1600	1866	1600	1866

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v4 Series Processor Family

Memory Bandwidth and C	Capacity								
[DIMM Type]	Registered DIMMs (RDIMMs)				I Type] Registered DIMMs (RDIMMs)		Load Reduced (LRDIMMs)		0IMMs)
HPE SKU P/N	805347-B21	805349-B21	836220-B21	805351-B21	805353-B21	805358-B21	809208-B21		
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Octal Rank		
DIMM Capacity	8GB	16GB	16GB	32GB	32GB	64GB	128GB		
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V		
DRAM Depth [bit]	1G	2G	1G	2G	2G	2G	2G		
DRAM Width [bit]	x8	х4	х4	х4	x4	x4	x4		
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb	8Gb	8Gb		
CAS Latency	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	20-18-18		
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400	2400	2400		
SLOTS THAT CAN BE PO	PULATED								
24 slot servers	24	24	24	24	24	24	24		
MAXIMUM CAPACITY (G	B)								
	192	384	384	768	768	1536	3072		
POPULATED DIMM SPEE	POPULATED DIMM SPEED (MT/s)								
1 DIMM Per Channel	2400	2400	2400	2400	2400	2400	2400		
2 DIMM Per Channel	2133	2133	2400	2400	2400	2400	2400		
3 DIMM Per Channel	1866	1866	1866	1866	2400	2400	2400		

NOTE: Mixing the 128GB LRDIMM with other capacities is not supported.

Memory Speed Processor Models by P Mod

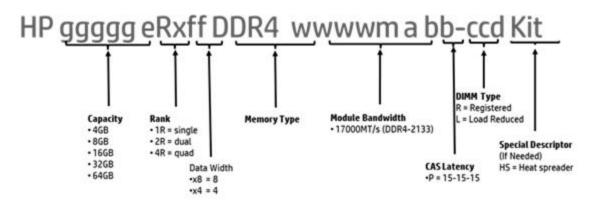
Processor Models	Supported Memory Speeds
E5-2609v3, E5-2603v3	1600MT/s
E5-2630Lv3, E5-2640v3, E5-2630v3, E5-2623v3, E5-2620v3	1866MT/s
E5-2637v3, E5-2687Wv3, E5-2699v3, E5- 2698v3, E5-2697v3, E5-2695v3, E5-2690v3, E5- 2683v3, E5-2680v3, E5-2670v3, E5-2660v3, E5- 2650Lv3, E5-2650v3, E5-2667v3, E5-2643v3	2133MT/s
E5-2609v4, E5-2603v4	1866MT/s
E5-2630Lv4, E5-2623v4, E5-2620v4, E5-2640v4, E5-2630v4	2133MT/s
E5-2650Lv4, E5-2643v4, E5-2637v4, E5- 2687Wv4, E5-2699v4, E5-2698v4, E5-2697v4, E5-2697Av4, E5-2695v4, E5-2690v4, E5- 2683v4, E5-2680v4, E5-2660v4, E5-2650v4, E5- 2667v4, E5-2699Av4	2400MT/s

Maximum Memory Capacity (Pre- configured Models)	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
	E5-2690v3, E5-2650v3	32GB (2x16GB)	736GB (22x32GB, 2x16GB)	1536GB (24x64GB)
	E5-2660v4	64GB(4x16GB)	704GB (20x32GB, 4x16GB)	3072GB (24x128GB)
	E5-2650v4	32GB (2x16GB)	736GB (22x32GB, 2x16GB)	3072GB (24x128GB)
	E5-2630v4, E5-2620v4	16GB (1x16GB)	752GB (23x32GB, 1x16GB)	3072GB (24x128GB)
	E5-2620v3	16GB (1x16GB)	752GB (23x32GB, 1x16GB)	1536GB (24x64GB)
	E5-2609v4	8GB (1x8GB)	744GB (23x32GB, 1x8GB)	3072GB (24x128GB)
	E5-2609v3	8GB (1x8GB)	744GB (23x32GB, 1x8GB)	1536GB (24x64GB)

DDR4 memory options part number decoder

NOTE: Capacity references are rounded to the common gigabyte (GB) values.

- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB
- 128GB = 13,072MB



QuickSpecs

Storage

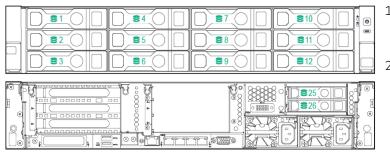
4 LFF hot-plug drive model

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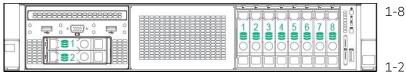
12 LFF + 3 rear LFF hot-plug drive model

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12 LFF + 2 rear SFF hot-plug drive model



8 SFF (+2 SFF) hot-plug drive model with Universal Media Bay



16 SFF (+2 SFF) hot-plug drive model with Universal Media Bay



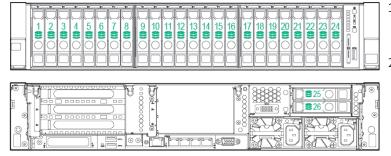
- 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- -12 12 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- 5-27 3 x LFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays

- 1-12 12 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays
- 25-26 2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays

- 8 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays
- 2 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- 9-24 16 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays
 - 2 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays

Storage

24 SFF + rear 2 SFF hot-plug drive model



- 1-24 24 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays
- 25-26 2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays

NOTE: Drives behind the SAS expander will be labeled continuous, drives behind a controller will be numbered 1-8. **NOTE:** With a SAS Expander and rear drive support the 2SFF rear will be labeled 25 & 26, for 3LFF they will be numbered 25-27.

Technical Specifications

System Unit	Dimensions	SEE Drives: 3.44 x 17.54	x 26.75 in (8.73 x 44.55 x 67.94 cm)
System Offic	Dimensions		x 28.75 in (8.73 x 44.55 x 73.02 cm)
	Weight (approximate)	Minimum: (Minimum - 8SFF chassis with 1xSFF HDD and 7 HDD blanks, 1x processor, 1x power supply (plus blank), 1x Flexible Smart Array, 1x Riser installed)	32.6 lb (14.759 kg)
		Maximum: (Maximum - 12 LFF hard drives (No rear drives), 2x processors, 2x power supplies, 1x Flexible Smart Array, 2x Risers installed)	51.5 lb (23.6 kg)
	Input Requirements	Rated Line Voltage	100 to 120 VAC
	(per power supply)		200 to 240 VAC
	BTU Rating	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only
			For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only
	Power Supply Output (per power supply)	Rated Steady-State Power	For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC)
			For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only
			For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only
		Maximum Peak Power	For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only
			For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only
			For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only
	System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

Technical Specifications Extended Ambient For approved hardware configurations, the **Operating Support** supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hpe.com/servers/ashrae For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hpe.com/servers/ashrae System performance may be reduced if operating in the extended ambient operating range or with a fan fault. Non-operating -30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr). **Relative Humidity** Operating Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity. Non-operating 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) (non-condensing) maximum wet bulb temperature, non-condensing. Altitude Operating 3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min) Non-operating 9144 m (30.000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min). Acoustic Noise Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). Idle LWAd 4.0 B Entry LFF 4.1 B Entry 4.2 B Base 5.7 B Base LFF 4.3 B Perf

23 dBA Entry LFF

24 dBA Entry 24 dBA Base

Technical Specifi	ications		
			39 dBA Base LFF
			25 dBA Perf
		Operating	
		LWAd	4.3 B Entry LFF
			4.6 B Entry
			4.8 B Base
			5.9 B Base LFF
			5.6 B Perf
		LpAm	25 dBA Entry LFF
			29 dBA Entry
			30 dBA Base
			31 dBA Base LFF
			39 dBA Perf
		(Entry LFF, Entry, Base options may result in it	nd levels apply to standard shipping configurations e, Base LFF and Performance models) additional ncreased sound levels. The Base LFF model iciency Fans, other models are shipping with
	Emissions Classification	FCC Rating	Class A
	(EMC)	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
		sample (type) testing,	mance to cited product specifications is based on evaluation, or assessment. This product or family to bear the appropriate compliance logos and
			nd levels apply to standard shipping onal options may result in increased sound levels.
HPE Dynamic Smart	Number of PCI links	Four	
Array B140i	PCI link rate	4Gb/s	
Controller	Storage protocol support	SATA	
	SAS/SATA peak data transfer rate	6Gb/s	
	Number of SAS/SATA links	10 links	
	SAS/SATA connectivity	2x4 connectors; 2x1 cc	onnectors
	Expander support	No	
	Drives supported (max)	Up to 10 Internal Drive	S
	RAID support	0, 1, 10, 5 SATA	
	Software management	HPE SSA, SMH, SIM	
	Warranty	Server warranty	
	HPE Secure Encryption license	Not Supported	
	HPE SmartCache License	Not Supported	
	HPE Smart Storage Administrator	Supported	
			Dogo 60

HPE Ethernet 1Gb	Network Interface	10Base-T/100Base-TX/1000Base-TX IEEE 802.3 10Base-T		
4-port 331i Adapter	Compatibility			
		IEEE 802.3ab 1000Base-T		
		IEEE 802.3u 100Base-TX		
	Data Transfer Method	Method PCI Express, two lanes (x2)		
	Controller	ller BCM5719		
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s per port, 40 Mb/s combined	
		10Base-T (Full-Duplex)	20 Mb/s per port, 80 Mb/s combined	
		100Base-TX (Half-		
		Duplex)	100 Mb/s per port, 400 Mb/s combined	
		100Base-TX (Full-Duplex) 200 Mb/s per port, 800 Mb/s combined		
		1000Base-TX (Half and Full-Duplex)	1000 Mb/s per port, 4000 Mb/s combined	
		1000Base-TX (Full- Duplex)	2000 Mb/s per port, 8000 Mb/s combined	
	Connector	Four RJ-45		
	Cable Support	10 Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)	
		10/100/1000 Base-TX	Category 5 or higher UTP; up to 328 ft (100 m	
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.		
		http://www.hpe.com/recycle		
		The EU WEEE directive (2002/95/EC) requires manufacturers to prov treatment information for each product type for use by treatment facil This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used I recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.		
		http://www.hpe.com/recycle		

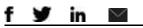
Technical Specifications

Date	Version History	Action	Description of Change	
13-Aug-2018	Version 41	Added	Added new memory option.	
		Changed	Memory section was updated.	
6-Aug-2018	Version 40	Added	Added new Solid State Drives offering to the HPE Drives section.	
		Changed	Core Options and Additional Options were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
4-Jun-2018	Version 39	Added	Added new Solid State Drives offering to the HPE Drives section.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
7-May-2018	Version 38	Changed	Form factor for Base Models was revised.	
2-Apr-2018	Version 37	Changed	SKU description from Core Options and Additional Options were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
5-Mar-2018	Version 36	Removed	Obsolete SKUs were removed from the QuickSpecs.	
4-Dec-2017	Version 35	Added	Added new higher capacity LFF and SSD drives.	
		Changed	Maximum Internal Storage and Additional Options were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
25-Sep-2017	Version 34	Added	Added new Solid State Drives offering to the HPE Drives section.	
			Added new PCIe Accelerators options.	
			Added new InfiniBand option.	
		Changed	Core Options and Additional Options were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
7-Aug-2017	Version 33	Added	Added new Solid State Drives offering to the HPE Drives section.	
11-Jul-2017	Version 32	Added	Added new NVIDIA Tesla GPUs.	
		Changed	HPE Power Supplies section was revised.	
5-Jun-2017	Version 31	Added	Added new Solid State Drives offering to the HPE Drives section. Added new GPU option.	
8-May-2017	Version 30	Added	Support for ClearOS was added under Operating Systems and Virtualization Software Support for ProLiant Servers and Optional Features sections. Added new HPE Computation and Graphics Accelerators options.	
		Changed	HPE Unique Options section was revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
3-Apr-2017	Version 29	Changed	Smart Buy models section was revised for the NA version only.	
27-Mar-2017	Version 28	Added	Added new Hard Drives and new HPE Networking option.	
		Changed	Base Configuration, HPE Unique Options, HPE Computation and Graphics Accelerators, and HPE Storage Options were revised.	
17-Feb-2017	Version 27	Changed	HPE Memory section under Core Options was revised.	
13-Feb-2017	Version 26	Added	Added new HDD and SSD offering to HPE Drives section.	
131002017		Changed	Processors and Memory under Standard Features were revised. Storage Software, HPE Unique Options, HPE Processors, and HPE Memory were revised.	
16-Dec-2016	Version 25	Added	Availability note was added to the HPE Drives section.	
		Changed	Overview, Storage Software, and HPE Computation and Graphics Accelerators were revised.	
28-Nov-2016	Version 24	Added	Added new NVIDIA Tesla M10 and P100 cards new Virtualization and High- End General Compute GPU offering. Added new LFF HDDs up to 10TB capacity now bring the DL380 max storage capacity to 150TB SAS. Added new Fiber Channel HBA's up to 32Gb.	

			Added new E5-2699Av4 processor.	
		Changed	Processors, Memory, Maximum Internal Storage, HPE Drives, HPE Computation and Graphics Accelerators, and HPE Storage Options were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
28-Oct-2016	Version 23	Removed	Obsolete Hard Drives were removed from the QuickSpecs.	
26-Sep-2016	Version 22	Added	Added new NVIDIA Tesla M4/M40 GPUs and new 10TB LFF hard drives offering.	
		Changed	Memory, Maximum Internal Storage, HPE Computation and Graphics Accelerators, and HPE Storage Options were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
19-Aug-2016	Version 21	Changed	Smart Buy models section was revised for the NA version only.	
15-Aug-2016	Version 20	Added	Added new options to HPE Networking, HPE Infiniband, HPE Computation and Graphics Accelerators, HPE Disk Backup, and HPE Storage Options.	
		Changed	HPE Unique Options was revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
8-Jul-2016	Version 19	Changed	Smart Buy models section was revised for the NA version only.	
6-Jun-2016	Version 18	Added	Added new 25GbE networking options, OneView 3.0, and new NVIDIA Quadro GPU options.	
		Changed	Pre-configured Models, HPE Memory, HPE Drives, HPE Computation and Graphics Accelerators, HPE Disk Backup, and HPE Storage Options were updated.	
29-Apr-2016	Version 17	Changed	E5-2600v4 Series Smart Buy Models table was updated in the NA version only.	
1-Apr-2016	Version 16	Changed	What's New section was updated. Standard Features/Memory and HPE Memory sections were revised.	
31-Mar-2016	Version 15	Added	Added new Smart Memory DDR4 2400MHz, Intel Xeon E5-2600v4 processor support, new Flexible Smart Array P840ar controller, new graphic options, new HPE Trusted Platform Module (TPM) 2.0, new HDD offering.	
		Changed	Embedded Management, Service and Support, Pre-Configured Models, HPE Security, and Memory sections were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
16-Feb-2016	Version 14	Added	New HDD offering was added to HPE Drives.	
		Changed	HPE Computation and Graphics Accelerators, HPE Data Center Racks, and HPE Power Distribution Units (PDUs) were revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
17-Dec-2015	Version 13	Changed	Smart Buy models section was revised in the NA version only.	
1-Dec-2015	Version 12	Added	New HDD offering was added to HPE Drives. New options added to Graphics Options, HPE PCIe Workload Accelerator Options, and HPE Tape Backup.	
		Changed	On System Management Chipset, Maximum Internal Storage, Embedded Management, and Server utilities were revised. Product images were updated.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
28-Sep-2015	Version 11	Added	Added new 6Gb SATA Solid State Drives. Added new HPE OneView management software.	
		Changed	Maximun Internal Storage was revised.	
		Removed	Obsolete SKUs were removed from the QuickSpecs.	
17-Aug-2015	Version 10	Added	Added new Solid State Drives offering. Added new graphic options.	

		Changed	What's New changed to: New support for NVMe PCIe SSDs New Graphic card options Service and Support section was updated. Maximun Internal Storage and Core Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
1-Jun-2015	Version 9	Added	New larger capacity HDDs (up to 8TB LFF), Max capacity 120TB were added. New higher capacity memory (64GB), Max capacity 1.5TB was added. New Networking options were added. Optional Software added to HPE Storage Controllers.
		Changed	Updated max HDD and memory capacity due to new options added. HPE SmartCache Software, HPE Disk Backup System, HPE Uninterruptible Power Systems (UPS) were updated.
30-Mar-2015	Version 8	Added	New Hard Drives offering. Optical Software added to HPE Storage Controllers. Added new HPE Pointnext operational services. Added new HPE PCIe Workload Accelerator Options.
		Changed	What's New, Standard Features, Unique Options, Power Supplies, HPE Storage Controllers, HPE Disk Storage Systems, and Technical Specifications were revised.
		Removed	Removed obsolete HPE Pointnext operational services.
17-Feb-2015	Version 7	Added	Added Smart Buy Models to the NA version only.
9-Feb-2015	Version 6	Added	What's new section was added. Added new HDD offering, new computational Graphics options, and new G4 UPS models.
		Changed	HPE Drives, HPE Computation and Graphics Accelerators, HPE Tape Backup, HPE Disk Backup, HPE Rack Mount, Consoles, KVM Switches, and Keyboards, and HPE Uninterruptible Power Systems (UPS) sections were revised.
1-Dec-2014	Version 5	Changed	Changes made throughout the entire QuickSpecs.
13-Oct-2014	Version 4	Changed	Corrected inconsistencies between Product Bulletin and Concentra versions.
13-Oct-2014	Version 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section. HPE PCIe Workload Accelerator Options, HPE USB and SD options, and HPE Pointnext operational services were added to the Additional Options section.
		Changed	Standard Features, Optional Features, Pre-Configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.
19-Sep-2014	Version 2	Changed	Changes were made throughout the QuickSpecs.
09-Sep-2014	Version 1	New	New QuickSpecs.





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