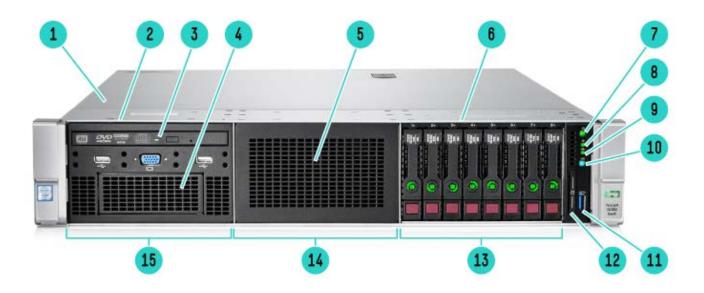
QuickSpecs

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.



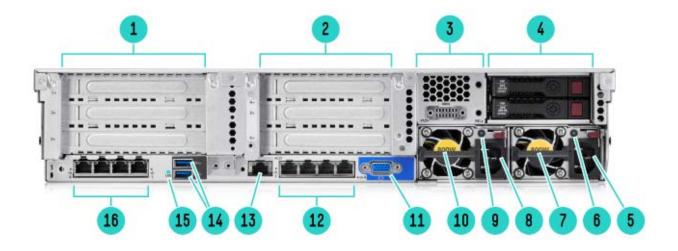
Front View - 8SFF Chassis with Optional Universal Media Bay shown

- 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

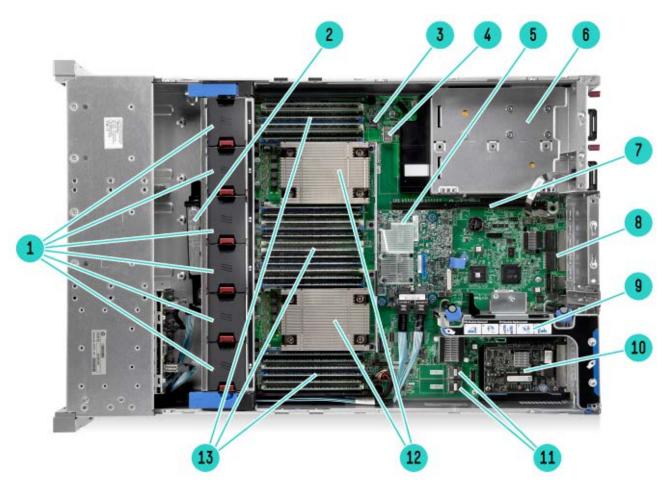


Rear View

- 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 2 (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 1 (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)	2.
3.	MicroSD card slot NOTE: Optional Dual MicroSD.	4.
5.	Optional HPE Flexible Smart Array or Smart HBA (H240ar shown)	6.
7.	Connection for second (optional) riser (Required second	8.
/.	CPU)	0.
9.	Primary PCIe riser, standard (Optional double wide GPU riser)	10.
11.	X4 SATA ports (1 and 2)	12.
13.	DDR4 DIMM slots. Shown fully populated in 24 slots (12 per	

- 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.
 - Embedded 4x1Gbe NIC

Optional FlexibleLOM slot

2 Processors, heatsink showing, with HPE Smart Socket Guide

What's New

processor)

- NVIDIA Tesla M10 and P100 cards new Virtualization and High-End General Compute GPU offering
- New max capacity HDDs New LFF HDDs up to 10TB capacity now bring the DL380 max storage capacity to 150TB SAS
- New Fiber Channel HBA's up to 32Gb
- New E5-2699Av4 CPU from Intel

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

Processor	Model	CPU	Cores	L3 Cache	Power	QPI	DDR4 Hz
Up to two of the	Houer	frequency	cores	ES cache	i owei	GII	DDR4112
following depending	E5-2699v3	2.3GHz	18	45MB	145W	9.6GT/s	2133
on model	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	3.6GHz	22	55MB	145W	9.6GT/s	2400				
	supported with this H cards, the Graphics E NOTE: Mixing of E5-2 NOTE: Field upgrade	 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 Chi Intel® E5-2600v3 Pro- Intel® E5-2600v4 Pro- NOTE: For more infor http://www.intel.com	cessor Fami cessor Fami mation rega	ly arding Intel		ase see the fo	llowing URL:					
On System Management Chipset	HPE iLO (Firmware HI NOTE: Read and learr										
Memory One of the following depending on model	Type: HPE SmartMemory DDR4 Registered (RDIMM), Load Reduced (LRDIMM) or Persistent Memory (NVDIMM) DIMM Slots Available 24 (12 DIMM slots per processor, 4 channels per processor, 3 DIMMs per										
	Maximum Capacity (LRDIMM)	3TB	channel) (24 x 12	8GB LRDIMM	@2400MHz)*	k					
	Maximum Capacity (RDIMM)	768GB	(24 x 32	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 ofNote the 128	of RDIMM ar GB LRDIMN	nd LRDIMM 1 may not b	memory is not I memory is no be mixed with c BTO only opti	t supported other DIMM ca	apacities/types support)					
Memory Protection	Advanced ECC Advanced ECC uses single device data correction to detect and correct single a all multibit error that occurs within a single DRAM chip.										
	Online Spare		online spare n to the spa		s a rank that is	s degrading and s	witches				
Expansion Slots											
Primary Riser	Expansion Tec	hnology	Bus	Connecto	r Bus	Form Facto	r Notes				

(Standard)	Slots #		Width	Width	Number		
	1	PCle 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 depending on card, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.
 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) 719073-B21	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	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 depending on card but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

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) 719076-B21	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	2	PCle 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 depending on card, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.
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	FIOLEIUS SEE SAS					
Storago	Hot Plug SFF SAS	52.0TB	24+2 x 2TB (with optional rear SFF drive cage)			
Maximum Internal		CAPACITY	CONFIGURATION			
		chassis or the NOTE: The 85 upgrades. For the last to be NOTE: The 41 NOTE: All Pre	niversal Media Bay (724865-B21) not available with the LFF 24SFF front end, and can only be populated in Bay1. SFF can be upgraded with a drive cage to 16 or 24 SFF with field optimal upgrade Bay2 should be populated second, with Bay 3 populated for a field upgrade to 24 SFF. _FF chassis cannot be upgraded to 12LFF in the field. -configured Chassis come with an embedded 10-Port SATA tional HPE Flexible Smart Array and Smart SAS HBA Controllers			
		replaces Bay 2				
		NOTE: The 12	LFF rear drives will consume space for the secondary riser. 2 LFF chassis also supports 2 SFF rear which allows for the second			
			ptional 3 LFF drives rear			
	24 SFF plus optional 2 SFF drives rear					
depending on model	Hard Drives Hard Drive Bays					
Devices One of the following		·	-ROM, DVD-RW			
Internal Storage	Optical Drive	·	d in Performance Models			
		HPE Flexible S	Smart Array P440ar/2GB			
	Performance Models		Smart Array B140i Controller			
			Smart Array P840/4G FIO Controller ray P840ar/2G Controller			
			Smart Array P440ar/2G FIO Controller			
	Base Models	HPE Dynamic	Smart Array B140i Controller			
	NOTE: The B140i defaults to AHCI off the chipset. Smart array needs to be enables on the SATA only models if required. NOTE: The B140i will not operate in Legacy mode.					
depending on model	NOTE: 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.					
One of the following						

orage	Hot Plug SFF SAS	52.0TB	24+2 x 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	150.0TB	12+3 x 10TB (with optional rear LFF drive cage)
	Hot Plug LFF SATA	150.0TB	12+3 x 10TB (with optional rear LFF drive cage)
	Hot Plug SFF SAS 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)
	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 Platinum Hot Plug Power Supply						
	NOTE: Available in 94% effic						
	HPE 800W Flex Slot Platinum Hot Plug Power Supply						
	NOTE: Available in 94% and 96% efficiency.						
	NOTE: Also available in -48	NOTE: Also available in -48VDC and 227VAC/380VDC power inputs.					
	HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply						
	NOTE: Available in 94% effic	ciency.					
	hot plug, tool-less installation certified for high-efficiency of a power supply for specific se	HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen9 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.					
	All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (AOK02A). 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 <u>http://www.hp.com/go/hppoweradvisor</u> .						
	Power specifications and tech http://www.hp.com/go/pro	hnical content for all HPE Server power su pliant/powersupply .	upplies can be found at				
System Fans		Non-redundant	Redundant				
One of the following	2P model		6 fans				
depending on model	NOTE: 1P models typically ship with 4 standard fans. The second processor option kit contains 2 additional fans.						
	NOTE: The 12LFF and 24SFF chassis ship with 6 High Performance fans as standard.						
	NOTE: High Performance Fan Kit is available to meet ambient temperature environments.						
	NOTE: High Performance Fan Kit is required for Passive GPU support.						
	NOTE: The 8SFF Bay1 kit (7	719067-B21) will ship with 6 High efficie	ency fans.				
nterfaces	Serial	Optional					
	Video	2 (1 front, optional via Universal Media active simultaneously	Bay, 724865-B21), 1 back not				
	FlexibleLOM Network Ports	4 x 1Gb ports shipping standard with o	ptional FlexibleLOM				
	HPE iLO Remote Management Network Port	1 Gb Dedicated					
	Micro SD Slot	1 Micro SD					
	NOTE: The Micro SD slot is	not a hot-pluggable device. Customers s	hould not attempt to plug an SD				
		he converie newered					

card into the SD slot while the server is powered.

Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay

SID (Systems Insight Display) Optional

USB 3.0

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 Server Canonical Ubuntu Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Oracle Solaris VMware Citrix XenServer 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.hp.com/go/ossupport and our driver download page: http://h20566.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=7271242.
Upgradeability	Upgradeable to 2 processors (36 Cores) NOTE: Processor upgrade available from Intel® Xeon® Processors E5-2600v3. Please contact Hewlett Packard Enterprise Technology Sales (http://www.hpe.com/support), 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 PCIe 3.0 Compliant PXE Support WOL Support

Microsoft[®] Logo certifications

USB 3.0 Support

USB 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.

For additional technical thermal details regarding ambient temperatures, humidity and features support

	please visit: http://www.hp.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. 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 properly 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.					
Form Factor One of the following depending on model	2U 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 Featu	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 <u>http://www.hpe.com/servers/smartupdatemanager</u> .				
	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 http://www.hpe.com/servers/powershell.				
	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-or	n password
Serial inte	erface control
Administ	rator's password
UEFI	
iLO 4 (In	tegrated Lights-Out 4) has 12 customizable user accounts and SSL encryption
Integrate	d Lights-Out can be disabled via a Global Setting
iLO Adva	nced 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 Care Pack 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 <u>http://www.hpe.com/servers/iloadvanced</u> .		
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 you are looking for to help secure your long-term IT success. These products are designed to help you react to 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	 mance HPE Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant optimized for High Performance Computing, with a choice of servers, networks and softw. system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Server, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simpli http://www.hp.com/go/clusters. NOTE: High Performance Computing (HPC) interconnect technologies are available for part of the HPE Cluster Platform portfolio. These high-speed InfiniBand and Gigabit int fully supported by Hewlett Packard Enterprise when integrated within a Hewlett Packare Enterprise cluster. Flexible, validated solutions can be defined with the help of configure http://www.hp.com/techservers/clusters/ucp/index.html. 			
HPC Interconnects	under the HPE (by Hewlett Pack defined with a lo configure HPEC	formance Computing (HPC) interconnect technologies are available for this server Cluster Platform product portfolio. These high-speed interconnects are fully supported and Enterprise when they are part of these configure to order clusters. Solutions can be of of flexibility with the help of configuration tools. Please visit the following URL to Clusters with InfiniBand Interconnects: com/techservers/clusters/ucp/index.html.		
Storage Software	challenge, or del than Hewlett Pa storage infrastru	ed to solve a specific data protection, archiving, or storage command and control iver on strategic consolidation, compliance, or continuity initiatives, look no further ckard Enterprise storage software. Our storage software helps you reduce costs, simplify icture, protect vital assets and respond faster to business opportunities. e 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

Make the move to virtualized storage with HPE StoreVirtual VSA. Transform unused capacity inside your servers into a virtual storage array. Add StoreVirtual VSA to multiple servers, manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. HPE ProLiant Gen9 servers include a 3-year limited license for HPE software-defined storage at no extra cost. You have the option to install free 1TB-capacity StoreVirtual VSA software during server setup within Intelligent Provisioning. More information, instructional videos, and free management software are available at <u>http://www.hpe.com/storage/tryVSA</u>.

NOTE: For more information about Storage Software including QuickSpecs, please see: <u>http://www.hp.com/go/storage/software</u>.

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

Service and Support

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 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 Hewlett Packard Enterprise-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 QuickSpecs, 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 HPE Installation and Startup Service

Service and Sup	port
	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 access 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

		Entry Mode	s	Base Models				
[SKU Number]	766342- B21	752686- B21	826681- B21	752688- B21	752687- B21	826682- B21	826683- B21	848774- B21
Model Name	HPE ProLiant DL380 Gen9 E5- 2609v3 1P 8GB-R B140i 4LFF SATA 500W PS Entry Server Intel® Xeon	HPE ProLiant DL380 Gen9 E5- 2609v3 1P 8GB-R B140i 8SFF SATA 500W PS Entry Server ® E5-2609v3	HPE ProLiant DL380 Gen9 E5- 2609v4 1P 8GB-R B140i 8SFF 500W PS Entry SATA Server	HPE ProLiant DL380 Gen9 E5-2620v3 2.4GHz 6- core 1P 16GB-R P840/4GB 12LFF 2x800W PS Base Server	HPE ProLiant DL380 Gen9 E5- 2620v3 1P 16GB- R P440ar 8SFF 500W PS Base 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
			Xeon® E5- 2609v4					E5-2630v4
Number of Processors				(One			
Memory	DIMMs, 2 NOTE: W 2609v3 t DIMM will	B Registered 2133 MHz) (ith the E5- his memory only operate 00MHz.	8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: With the E5-2609v4 this memory DIMM will only operate at 1866MHz.	16GB (1x16G DIMMs, 21 NOTE: Wit 2620v3 thi DIMM will onl 1866N	33 MHz) h the E5- s memory y operate at	DIMMs, 2 NOTE: W 2620v4 t DIMM will o	oGB Registered 2400 MHz) /ith the E5- his memory nly operate at 3MHz.	16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: With the E5- 2630v4 this memory DIMM will only operate at 2133MHz.
Network Controller	HPE	Embedded 1	Gb Ethernet 4-	port 331i Adap	ter, plus option	nal HPE Flexib	le LOM or stanc	l up card
Storage Controller	optional H Sn NOTE: D	mic Smart Arra IPE Flexible Sr nart HBA cont efault is AHCI ay needs to be SATA mode	nart Array or roller off chipset, e enabled on	HPE Flexible Smart Array P840/4G Controller		ible Smart 40ar/2GB	HPE Flexible Smart Array P840ar/2G Controller	HPE Flexible Smart Array P440ar/2GB
Hard Drive	None ship standard		None ship standard; includes 10 LFF hard drive blanks		None sł	nip standard		
Internal Storage	4 LFF HDD Bays		DD Bays ble to 24)	12 LFF HDD Bays		DD Bays ble to 24)	12 LFF HDD Bays	8 SFF HDD Bays (upgradable to 24)

Optical Drive Bay	Not Available	Optional Universal Media Bay (724865-B21)	Not Available	Optional Universal Media Bay (724865- B21)	Not Available	Optional Universal Media Bay (724865- B21)
Optical Drive	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)	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)	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 available with upgrade option, second processor required)					
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	(2) HPE 800W Flex Slot Platinum Power Supply	(1) HPE 500W Flex Slot Platinum Power Supply
Fans	4 hot plug fans, redundant		6 hot plug high performance fans, redundant	4 hot plug fans, redundant	6 hot plug high performance fans, redundant	4 hot plug fans, redundant
Management						
Form Factor			Rack (2U), HPE Easy Install Rails with CMA			Rack (2U), HPE Easy Install Rails
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response					

		Performance Mode	High Perforr	High Performance Models		
[SKU Number]	752689-B21 826684-B21 852432-B21			803860-B21	803861-B21	
Model Name	HPE ProLiant DL380 Gen9 E5- 2650v3 2P	HPE ProLiant DL380 Gen9 E5- 2650v4 2P 32GB-	HPE ProLiant DL380 Gen9 E5- 2660v4 2P 64GB-	HPE ProLiant DL380 Gen9 E5- 2690v3 2P 32GB-	HPE ProLiant DL380 Gen9 E5- 2690v3 2P 32GB-	
	32GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server	R P440ar 8SFF 2x10Gb 2x800W Perf Server	R P440ar 8SFF 2x10Gb 2x800W Perf Server	R P440ar 8SFF 2x10Gb 2x800W High Perf Server	R P440ar 8SFF 2x10Gb 2x800W OneView Server	
Processor	Intel® Xeon® E5- 2650v3	Intel® Xeon® E5- 2650v4	Intel® Xeon® E5- 2660v4	Intel [®] Xeon [®] E5-2690v3		
Number of Processors			Two			
Memory	32GB (2x16GB Registered DIMMs, 2133 MHz)	32GB (2x16GB Registered DIMMs, 2400 MHz)	64GB (4x16GB Registered DIMMs, 2400 MHz)	32GB (2x16GB Registered DIMMs, 21 MHz)		
Network Controller		+x1Gb, plus 2x10Gb- kible LOM	HPE Embedded 4x1Gb, plus 2x10Gb SFP+ Flexible LOM	HPE Embedded 4x1Gb, plus 2x10Gb- Flexible LOM		
Storage Controller	HPE Flexible Smart Array P440ar/2GB					
Hard Drive			None ship standar	d		
Internal Storage	8 SFF HDD Bays (upgradable to 24)					
Optical Drive Bay	Optional Universal Media Bay (724865- B21)		Universal Media E	ay (724865-B21)		
Optical Drive		HPE Half-	Height SATA DVD-RV	V Optical Drive		
PCI-Express Slots	6 PCIe slots 6 PCIe 3.0 slots 6 PCIe slots (includes second ris (includes second riser slot upgrade option) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
Power Supply		(2) HPE 80	OW Flex Slot Platinum	n Power Supply		
Fans			6 hot plug fans, redun	dant		
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HPE OneView (optional) Intelligent Provisioning (standard), iLO Advanced (standard), HPE OneView (Standard)					
Energy Star		Me	ets Energy Star requir	ements		
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

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	DL380 Gen9 NVMe	DL380 Gen9	DL380 Gen9 4LFF	DL380 Gen9 12LFF	
	Configure-to-order Server	6 Solid State Drive Express Bay	24SFF Configure- to-order Server	Configure-to-order Server	Configure-to-order Server	
	Server	Configure-to-order	10-01del 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 I	DDR4 Memory		
Storage Controller	HPE Dynamic	HPE 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 Flexible LOM or stand up card	HPE Embedded 1Gb Ethernet 4- port 331i Adapter		Ethernet 4-port 331i Adapter, plus optional lexible LOM 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 (s	tandard), Intelligent Pro	ovisioning (standard)		
USB	1 front, 2 internal, 2	1 front, 1 internal, 2	1 front, 2 internal, 2	No front U	SB support	
	rear	rear	rear			
Ears	HPE Quick Release Ears					

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 2xNVMe 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: http://www.hpe.com/go/ddr4config.

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/go/hpepoweradvisor</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/go/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/go/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/go/hpepoweradvisor</u>. 					
	 This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below. 					
HPE Cooling Optior	s 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.

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.

information.		
HPE Unique Options	HP DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit 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	774741-B21
	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: There are limitations on GPU support with the NVMe bay installed.	
	HP DL380 Gen9 Universal Media Bay Kit	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.	
	HP DL380 Gen9 Graphics Enablement Kit	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.	
	HP DL380 Gen9 High Performance Fan Kit	719079-B21
	NOTE: This kit is required for specific Ambient temperature environments, more details here: <u>http://www.hp.com/servers/Ashrae</u> .	
	NOTE: This kit is also required to support Passive GPUs.	
	NOTE: This kit provides max cooling for your Server.	72/0// 021
	HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit	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 are only supported with the following processor characteristics: 145W, 22/18/16 Cores; 135W, 20/8/6/4 Cores; 120W, 18/16/14 Cores; 105W, 14/12 Cores; 90W, 10 Cores; 85W, 10/8/6/4 Cores; 65W, 14 Cores and 55W, 10 Cores, 160w v4 Processor.	
	HP DL380 Gen9 3LFF Rear SAS/SATA Kit	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: 3LFF Rear drives are only supported with the following processor characteristics: 145W, 22/18/16 Cores; 135W, 20/8/6/4 Cores; 120W, 18/16/14 Cores; 105W, 14/12 Cores; 90W, 10 Cores; 85W, 10/8/6/4 Cores; 65W, 14 Cores and 55W, 10 Cores, 160w v4 Processor.	

HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit	719076-B21
Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
NOTE: This replaces the standard Primary riser in slot1.	
HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit	719073-B21
Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
HPE DL380 Gen9 8SFF Bay1 Cage/Backplane Kit	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.	
HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit	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.	
HP 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.	
HP DL380 Gen9 Systems Insight Display Kit	768900-B21
NOTE: The Systems Insight Display no longer ships as standard but is available as a Factory Integrated or field upgrade option.	
HP Legacy FIO Mode Setting	758959-B22
NOTE: UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.	
HP DL380 Gen9 Rear Serial Port and Enablement Kit	768896-B21
HPE DL380 12Gb SAS Expander Card Riser 1 Cable Bundle Kit	839786-B21
NOTE: Cable kit required to support the SAS Expander (727250-B21) in the	
secondary riser (719073-B21) without the second processor.	
HPE DL380 Gen9 P440ar/H240ar Riser 2 SAS Expander Kit	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 Processors	E5-2600v4 series Processors	
	HPE DL380 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit	817941-L21
	HPE DL380 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit	817941-B21
	HPE DL380 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit	817931-L21
	HPE DL380 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit	817931-B21
	HPE DL380 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	817925-L21
	NOTE: This processor does not support Hyper-Threading.	
	HPE DL380 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	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	817923-L21 Page 26

12.1		
Kit		
	DTE: This processor does not support Hyper-Threading.	017007 001
	2 DL380 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit	817923-B21
	DTE: This processor does not support Hyper-Threading.	017070 01
Pro	2E DL380 Gen9 Intel® Xeon® E5-2643v4 (3.4GHz/6-core/20MB/135W) FIO ocessor Kit	817939-L21
NC	TE: Ships with a High Performance Heatsink.	
Pro	PE DL380 Gen9 Intel® Xeon® E5-2637v4 (3.5GHz/4-core/15MB/135W) FIO ocessor Kit	817935-L21
	TE: Ships with a High Performance Heatsink.	
HF Kit	E DL380 Gen9 Intel® Xeon® E5-2637v4 (3.5GHz/4-core/15MB/135W) Processor	817935-B21
NC	TE: Ships with a High Performance Heatsink.	
HF Kit	PE DL380 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor	817929-L21
HF	E DL380 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit	817929-B21
HF Kit	E DL380 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor	817927-L21
HF	E DL380 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit	817927-B21
HF Kit	E DL380 Gen9 Intel® Xeon® E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor	817939-B21
	PE DL380 Gen9 Intel® Xeon® E5-2687Wv4 (3.0GHz/12-core/30MB/160W) FIO ocessor Kit	817957-L21
NC	DTE: Ships with a High Performance Heatsink.	
	PE DL380 Gen9 Intel® Xeon® E5-2687Wv4 (3.0GHz/12-core/30MB/160W) ocessor Kit	817957-B21
NC	DTE: Ships with a High Performance Heatsink.	
HF	PE DL380 Gen9 Intel® Xeon® E5-2699v4 (2.2GHz/22-core/55MB/145W) FIO	817967-L21
NC	DTE: Ships with a High Performance Heatsink.	
	PE DL380 Gen9 Intel® Xeon® E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor	817967-B21
	TE: Ships with a High Performance Heatsink.	
HF	PE DL380 Gen9 Intel® Xeon® E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Docessor Kit	817965-L21
	DTE: Ships with a High Performance Heatsink.	
	E DL380 Gen9 Intel® Xeon® E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor	817965-B21
	TE: Ships with a High Performance Heatsink.	
HF	PE DL380 Gen9 Intel® Xeon® E5-2697v4 (2.3GHz/18-core/45MB/145W) FIO	817963-L21
NC	DTE: Ships with a High Performance Heatsink.	
	E DL380 Gen9 Intel® Xeon® E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor	817963-B21
	TE: Ships with a High Performance Heatsink.	
HF	2 DL380 Gen9 Intel® Xeon® E5-2697Av4 (2.6GHz/16-core/40MB/145W) FIO Docessor Kit	817955-L21
		D

NOTE: Ships with a High Performance Heatsink. HPE DL380 Gen9 Intel® Xeon® E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor	817955-B21
Kit	
NOTE: Ships with a High Performance Heatsink. HPE DL380 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO	817961-L21
Processor Kit	
NOTE: Ships with a High Performance Heatsink.	817961-B21
HPE DL380 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Processor Kit	81/A01-R51
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2690v4 (2.6GHz/14-core/35MB/135W) FIO Processor Kit	817959-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2690v4 (2.6GHz/14-core/35MB/135W) Processor Kit	817959-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit	817953-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit	817953-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit	817951-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit	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	817945-L21
HPE DL380 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit	817945-B21
HPE DL380 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	817943-L21
HPE DL380 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit	817943-B21
HPE DL380 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	817937-L21
HPE DL380 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit	817937-B21
HPE DL380 Gen9 Intel® Xeon® E5-2667v4 (3.2GHz/8-core/25MB/135W) FIO Processor Kit	817947-L21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2667v4 (3.2GHz/8-core/25MB/135W) Processor Kit	817947-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	817933-B21
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HPE DL380 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit	817933-L21
HPE DL380 Gen9 Intel® Xeon® E5-2699Av4 (3.6GHz/22-core/55MB/145W) Processor Kit	871026-B21
HPE DL380 Gen9 Intel® Xeon® E5-2699Av4 (3.6GHz/22-core/55MB/145W) FIO Processor Kit	871026-L21
E5-2600v3 series Processors	
HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit	719052-L21
NOTE: This processor does not support Hyper-Threading.	
HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	719052-B21
NOTE: This processor does not support Hyper-Threading.	
HPE DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit	719053-L21
NOTE: This processor does not support Hyper-Threading.	
HP DL380 Gen9 Intel [®] Xeon [®] E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit NOTE: This processor does not support Hyper-Threading.	719053-B21
HPE DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit	719060-L21
HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	719060-B21 719049-L21
HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HPE DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit	719049-B21 719058-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel [®] Xeon [®] E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit	719058-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit	719050-L21
HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	719050-B21
HPE DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit	779556-L21
HP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	779556-B21
HP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit	719051-L21
HP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	719051-B21
HPE DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit	762768-L21
NOTE: Ships with a High Performance Heatsink.	
NOTE: This processor is not supported in a 12LFF or 24SFF Chassis + Rear drive.	
HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit	762768-B21
NOTE: Ships with a High Performance Heatsink.	
NOTE: This processor is not supported in a 12LFF or 24SFF Chassis + Rear drive.	
HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit	781915-L21

NOTE: Ships with a High Performance Heatsink. HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit	781915-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit	781913-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit	781913-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit	719054-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor Kit	719054-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit	762760-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit	762760-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit	719044-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit	719044-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit	719055-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor Kit	719055-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	762766-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor Kit	762766-B21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) FIO Processor Kit	719046-L21
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor Kit	719046-B21
NOTE: Ships with a High Performance Heatsink.	
HPE DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO	762764-L21

HPE Memory

Core Options

HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor	762764-B2
Sit	
HPE DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	719059-L2
HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	719059-B2
HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit	719048-L2
HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	719048-B2
HPE DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit	719056-L2
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor Kit	719056-B2
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor (it	719057-L2
NOTE: Ships with a High Performance Heatsink.	
HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit	719057-B2
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 configuration processors.	
NOTE: HT indicates that the processor model supports Intel [®] Hyper-Threading Technolo NOTE: Turbo2: Intel [®] Turbo Boost Technology 2.0 provides more computing power whe with performance that adapts to spikes in your workload and delivers more performance rhen previous generation turbo technology.	en you need it
NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed on the quantity and type of DIMMs installed.	eed may
NOTE: The xxxxxx-L21 is the first processor shipped, the xxxxxx-B21 is the 2nd proces with 2 additional FANs for factory of field installation.	sor and ships
NOTE: Double wide PCIe cards are only supported in risers with the Processors leveragin Performance Heatsink. For Processors requiring double wide GPU support please order t 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.	

NOTE: The following memory is supported by the E5-2600v3 series Processors.

HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21	
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21	
HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21	
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21	
HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-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.		

NOTE: The following memory is supported by the E5-2600v3 series Processors.	
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B2
HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B2
HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726724-B2
NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MH NOTE: Mixing of DIMM types is not supported. NOTE: Mixing of 2133 and 2400MHz DIM supported.	
Registered DIMMs (RDIMMs) for E5-2600v4 Series	
NOTE: The following memory is supported by the E5-2600v4 series Processor only.	
HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B2
HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B2
HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B2
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B2
NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MH	Ζ.
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	
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	805353-B2
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B2
HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit	809208-B2
NOTE: Depending on Processor selected this memory will run at 1866, 2133 or 2400MH 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.	Ζ.
NOTE: Mixing the 128GB LRDIMM with other capacities is not supported.	
HPE Persistent Memory (NVDIMM)	
NOTE: The following memory is supported by the E5-2600v4 series Processor only.	
HPE 8GB NVDIMM Single Rank x4 DDR4-2133 Module	782692-B2
NOTE: NVDIMMs are currently only available as BTO for field upgrades only (no CTO sup NOTE: NVDIMMs are only supported with E5-2600v4 processors, excluding field upgrade 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	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
	NOTE: The Universal Media Bay (724865-B21) is required for this option.	
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21

HPE Drives

Core Options

NOTE: The Universal Media Bay (724865-B21) is required for this option. HP Mobile USB Non Leaded System DVD RW Drive NOTE: This is only supported on USB 3.0 ports.	701498-B21
SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21 785069-B21

HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard 748387-B21 Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 759212-B21 HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 781516-B21 HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 759210-B21 HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 759208-B21 HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 785067-B21 HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 652605-B21 SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives

SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives		
HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21	
HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21	
HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21	

SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives

HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21

SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives

HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	857644-B21
HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	861590-B21
HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819201-B21
HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793703-B21
HPE 6TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846514-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793671-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846528-B21
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21
HPE 1TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846524-B21

SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives

HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HPE 10TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	857648-B21
HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	861594-B21
HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819203-B21
HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846510-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861678-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861693-B21
HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861676-B21
HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861691-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-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:	
https://ssd.hpe.com/recommend	
To further assist with configuration, HPE also offers an SSD Selector Tool located here: http://ssd.hpe.com	
12G SAS Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
HPE 1.6TB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846432-B21
HPE 800GB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846430-B21
12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.2TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822567-B21
HPE 1.6TB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846436-B21
HPE 800GB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846434-B21
6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives	
HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816576-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	010070 011
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2	779176-B21
Solid State Drive	802586-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779172-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779168-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779164-B21
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
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HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State	762272-B21
Drive	
6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1 Solid State	
Drives	
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764927-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	
HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868830-B21
NOTE: This drive will ship in Q1 2017.	
HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816929-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868826-B21
NOTE: This drive will ship in Q1 2017.	
HPE 1.92TB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871770-B21
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868822-B21
NOTE: This drive will ship in Q1 2017.	
HPE 960GB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871768-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868818-B21
NOTE: This drive will ship in Q1 2017.	
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	872855-B21
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	872853-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804575-B21
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21

HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	004013 021
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed	869058-B21
Firmware SSD	007030 021
NOTE: This drive will ship in Q1 2017.	
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	869056-B21
NOTE: This drive will ship in Q1 2017.	
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
6G SATA Hot Plug LFF (3.5-inch) SC Write Intensive Solid State Drives	
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives	
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804634-B21
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	832417-B21
HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives	
HP 2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764908-B21
HP 1.2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764906-B21
HP 400GB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764904-B21
NOTE: With NVMe support only 1xDouble Wide Graphics card is supported.	
HPE NVMe PCIe Mixed Use SFF (2.5 inch) Solid State Drives	
HP 2TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765044-B21
HP 1.6TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765038-B21
HP 800GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765036-B21
HP 400GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765034-B21
NOTE: With NVMe support only 1xDouble Wide Graphics card is supported.	
HPE NVMe PCIe Write Intensive SFF (2.5-inch) Solid State Drives	
HP 2TB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764894-B21
HP 1.6TB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764892-B21
HP 800GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736939-B21
HP 400GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736936-B21
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 <u>HPE Solid State Drive QuickSpecs</u> . NOTE: With NVMe support only 1xDouble Wide Graphics card is supported.	
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M.2 SSD	
HPE Dual 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835565-B2
HPE 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835563-B2
HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	777894-B2
HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers 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.	788028-B2
Hard Drive Blank Kits	
HP Large Form Factor Hard Drive Blank Kit HP Small Form Factor Hard Drive Blank Kit	666986-B21 666987-B21
Hard Drive Kits HP DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit	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 PCle 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	719067-B21
HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit	768857-B21
HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit	724864-B21
HP DL380 Gen9 3LFF Rear SAS/SATA Kit 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 Kite	768856-B21
Media Bay Kits	70/045 001
HP DL380 Gen9 Universal Media Bay Kit 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.	724865-B21

HPE Networking	1 Gigabit Ethernet adapters	
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HP Ethernet 1Gb 4-port 366T Adapter	811546-B21

HPE InfiniBand

10 Gigabit Ethernet adapters	
HP Ethernet 10Gb 2-port 530SFP Adapter	652503-l
HP Ethernet 10Gb 2-port 530T Adapter	656596-l
HP Ethernet 10Gb 2-port 546SFP+ Adapter	779793-6
HP Ethernet 10Gb 2-port 557SFP+ Adapter	788995-
HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-
HP Ethernet 10Gb 2-port 561T Adapter	716591-
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-
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.hp.com/go/ProLiantNICs	
25 Gigabit Ethernet adapters	
HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter	817762-
NOTE: Initially available as a BTO only option.	
HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-
FlexibleLOM Adapters	
HP Ethernet 1Gb 4-port 331FLR Adapter	629135-
HP Ethernet 1Gb 4-port 366FLR Adapter	665240-
HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-
HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-
HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-
HPE FlexFabric 10Gb 2-port 556FLR-T Adapter	794525-
HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-
HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-
HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-
 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: http://www.hp.com/go/ProLiantNICs .	
HP InfiniBand FDR 2-port 545QSFP Adapter	702211-
NOTE: The RHEL6.5 driver is not part of SPP, but may be downloaded here: <u>http://downloads.linux.hp.com/SDR/downloads/MLNX_OFED/</u> .	
HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-
HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-

Core Options		
	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
	HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel® Omni-Path Architecture Adapter	829335-B21
	HPE 100Gb 1-port OP101 QSFP28 x8 PCIe Gen3 with Intel® Omni-Path Architecture Adapter	829334-B21
	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21
	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825111-B21
	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA	583211-B21
HPE I/O Expansion	HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit	719076-B21
Options	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).	
	HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit	719073-B21
	NOTE: This is for slot 2 and supports double wide GPGPUs.	
	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 Supplies	HPE Flex Slot Platinum Hot-plug Power supplies	720478-B21
	HPE 500W Flex Slot Platinum Hot Plug Power Supply Kit NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	/204/o-b21
	HPE 800W Flex Slot Titanium Hot Plug Power Supply Kit	720482-B21
	NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	, _ 0 . 0
	HPE 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
	NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	
	HPE 800W Flex Slot Universal Hot Plug Power Supply Kit	720484-B21
	NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.	
	HPE 800W Flex Slot -48VDC Hot Plug Power Supply Kit	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	720620-B21
	NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).	
	NOTE: All power supplies must be of the same input voltage, output rating, and efficience	cy rating. If non-
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issues with your server.

	 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 revier configuration in the HPE Power Advisor tool to determine the right size power supply for configuration. The HPE Power Advisor is located at: http://www.hp.com/go/hppowerae NOTE: Support for HPE Power Discovery Services is included with the 1400W Flex Slot specifications and technical content for all HPE Server power supplies can be found at http://www.hp.com/go/proliant/powersupply. NOTE: Maximum of 2 Flex Slot PS per platform. 	or your server dvisor .
HPE Computation	HP DL380 Gen9 Graphics Enablement Kit	719082-B21
and Graphics 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 <u>http://www.hp.com/go/hppoweradvisor</u> .	
	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 GPU support is limited with 1TB max memory support with the exception on NVIDIA P series, 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.	
	HP NVIDIA GRID K1 Quad GPU PCIe Graphics Accelerator	JOG94A
	NOTE: This is supported in all chassis. 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.hp.com/go/hppoweradvisor .	
	NOTE: This card only runs at PCleGen2 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: This card will require the addition of the High Performance Fan Kit (719079- B21).	
	NVIDIA Tesla K40C 12GB Computational Accelerator	753960-B21
	NOTE: This is supported in all chassis.	

matching power supplies are installed, you may receive an error message and/or experience operational

NOTE: Mixing different power supplies in the same server may limit or disable some power supply features including support for power redundancy. To ensure access to all available features, all power

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 E5-2600v3 processors.	
HP NVIDIA Tesla K80 Dual GPU PCIe Computational Accelerator	JOG95A
NOTE: For doublewide GPU support you are required to have at least 1x1400W	
Power Supply (720620-B21), per card.	
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: PCIe accelerators are not supported in conjunction with this card.	
NOTE: This card will require the addition of the High Performance Fan Kit (719079-	
321).	
NOTE: Max cooling setting required to support in RSBU.	
NOTE: There are limitations operating this card with operative environment	
emperature limitations: 24SFF chassis to 30° C and 12LFF chassis to 25° C	
HP NVIDIA Quadro K2200 Graphics Accelerator	JOG89A
NOTE: This is supported in all chassis.	
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: 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.hp.com/go/hppoweradvisor	
IVIDIA Quadro K6000 PCI-E Graphics Adapter	730874-B21
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: For doublewide GPU support you are required to have at least 1x1400W	
Power Supply (720620-B21), per card.	
IOTE: Double-wide cards require the addition of the High Performance Fan Kit 719079-B21).	
IPE NVIDIA Tesla M4 4GB Computational Accelerator	P9U90A
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).	
INTE: 1x 1/00W DS recommended but this card will work with 1x000W DS (Der	
NOTE: 1x 1400W PS recommended, but this card will work with 1x800W PS (Per SPU). However, check the power usage via the HPE Power Advisor Tool located at	
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.hp.com/go/hppoweradvisor .	

NOTE: Only supported with E5-2600v4 processors.	001/24
NVIDIA Tesla M10 Quad GPU Module	Q0J62A
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: 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 M40 24GB Computational Accelerator	P8Y46A
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: 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: Only supported with E5-2600v4 processors. NOTE: There are limitations operating this card with operative environment	
temperature limitations: 24SFF chassis to 30°C and 12LFF chassis to 25°C	
HPE NVIDIA Tesla M60 Reverse Air Flow Dual GPU PCIe Graphics Accelerator	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 P100 PCIe 16GB Computational Accelerator	Q0E21A
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 M2000 Graphics Accelerator	P8Y48A
	F 0 I 40A
NOTE: Maximum of 3 cards supported per server.	
NOTE: This is supported in all chassis.	

(2nd processor required).	
NOTE: Only supported with E5-2600v4 processors.	
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	
nttp://www.hp.com/go/hppoweradvisor	
NOTE: No GPU enablement kit is required for this option.	
HPE NVIDIA Quadro M4000 Graphics Accelerator	M9X58A
NOTE: Only supported with E5-2600v4 processors.	
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.hp.com/go/hppoweradvisor	
HP NVIDIA Quadro M5000 Graphics Accelerator	M9R60A
NOTE: Only supported with E5-2600v4 processors.	
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.hp.com/go/hppoweradvisor	
NOTE: Double-wide cards require the addition of the High Performance Fan Kit (719079-B21).	
HP NVIDIA Quadro M6000 Graphics Accelerator	JOG92A
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: 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: This card only runs at PCIeGen2 speeds.	
HPE NVIDIA Quadro M6000 24GB Graphics Accelerator	P8Y47A
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: 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: Only supported with E5-2600v4 processors.	
ntel® Xeon® Phi 7120P (16GB/300W) Coprocessor Kit	E2M34A
	E2M34A

1400W Power Supply (720620-B21) to be selected.	
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: This card will require the addition of the High Performance Fan Kit (719079- B21).	
NOTE: This is supported in an 8SFF chassis only.	
NOTE: Max cooling setting required to support in RSBU.	
HP AMD FirePro W7100 Accelerator Kit	J0H10A
NOTE: This is supported in all chassis.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).	
NOTE: Up to 3 of these single wide cards are supported.	
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.hp.com/go/hppoweradvisor	
HP AMD FirePro S9150 Accelerator Kit	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	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	
HP 150W PCI-E Power Cable Kit	669777-B21
NOTE: This cable is required for the K1, K4200, K5200, M5000 and W7100 cards.	00//// 021
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	

Core Options		
	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.	
HPE Cooling	HP DL380 Gen9 High Performance Fan Kit	719079-B21
Options	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.hp.com/servers/ASHRAE.	

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 Control	
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 Management Media Kit	C6N31A
NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple	
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	
NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be	
NOTE: For additional license options please see the QuickSpecs at:	
HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU	C6N36A
HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO E-LTU	C6N36ABE
HPE iLO Advanced	
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU	512485-B21
	BD505A
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
HPE OneView Advanced (with HPE iLO Advanced)	
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
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
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
HPE OneView Physical Media Kit LTU	E5Y37A
HPE Operations Analytics for HPE OneView LTU	
HPE Operations Analytics for HPE OneView LTU HPE Operations Analytics for HPE OneView E-LTU	
	K8G29A K8G29AAE
	 HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU HPE Insight Control including 1yr 24x7 TSU E-LTU HPE Insight Management Media Kit 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: http://www.hp.com/go/insightupdates NOTE: For additional license options please see the HPE Insight Control QuickSpecs. NOTE: For additional license options please see the UPL Insight Control QuickSpecs. NOTE: For additional license options please see the UPL Insight Control QuickSpecs. NOTE: For additional license options please see the UPL Insight Control QuickSpecs. NOTE: For additional license options please see the UPL Insight Control OuickSpecs. NOTE: For additional license options please see the UPL Insight Control OuickSpecs. NOTE: For additional license options please see the UPL Insight Control OuickSpecs. NOTE: For additional license options please see the UPL Insight Control Cource Spece Server FIO LTU HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO E-LTU HPE iLO Advanced HPE iLO Advanced (with HPE iLO Advanced) HPE OneView Advanced (without HPE iLO Advanced) HPE OneView Mol ILO including 3yr 24x7 Support Flexible Quantity E-LTU HPE OneView Mol ILO including 3yr 24x7 Suppo

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: <u>http://www.hp.com/go/oneview</u>.

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 Light Endurance (LE) PCIe Workload Accelerators

Accelerator Options	HPE 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21
	HPE 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775670-B21
	HPE 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775668-B21
	HPE 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775666-B21
	NVME PCIe Workload Accelerators	
	HPE 6.4TB Read Intensive-2 FH/HL PCIe Workload Accelerator	831739-B21
	HPE 3.2TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831737-B21
	HPE 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803204-B21
	HPE 1.6TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831735-B21
	HPE 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803197-B21
	HPE 1.6TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803202-B21
	HPE 1.3TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831733-B21
	HPE 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803195-B21
	HPE 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803200-B21
HPE Security	HP 2U Security Bezel Kit	666988-B21
	HP Trusted Platform Module 2.0 Kit	745823-B21
	NOTE: If the TPM Module (488069-B21) is installed, then there is no support for	

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 Options HP Trusted Platform Module Option 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** HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller 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. HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller 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. 843199-B21 HPE Smart Array P840ar/2GB FBWC 12Gb 2-port Internal SAS Controller 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** HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller 726821-B21 NOTE: Provides support for up to 8 internal SAS/SATA drives. 726897-B21 HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller 726903-B21 HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller 726825-B21 HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller 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. HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller 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 Host Bus Adapters** HP H241 12Gb 2-ports Ext Smart Host Bus Adapter 726911-B21 HP H240 12Gb 2-ports Int Smart Host Bus Adapter 726907-B21 HP H240ar 12Gb 2-ports Int Smart Host Bus Adapter 726757-B21 **NOTE:** Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. 749976-B21 HP H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter **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 Cable Options	
HP DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit	783007-B21
NOTE: 12LFF port 3 to 2SFF or 3LFF to P440/840 PCIe.	
HP DL380 Gen9 2SFF Front SAS x4 Cable Kit	783008-B21
NOTE: For front mount 2SFF to H240/P440ar, H240 or embedded B140i SATA.	
HP DL380 Gen9 8SFF SAS Cable Kit	783009-B21
NOTE: 8/16/24 SFF to P840/440 bay 3.	
HP DL380 Gen9 2SFF x8 Front Cable Kit	785989-B21
NOTE: For front/rear mount 2SFF to P440/840 PCIe).	
HP DL380 Gen9 12LFF SAS Cable Kit	785991-B21
NOTE: For 12LFF to P440/840 PCIe cables- ports 1/2/3.	
HP DL380 Gen9 8SFF H240 Cable Kit	786092-B21
NOTE: 8/16/24SFF to 240/440ar, H240 PCIe or embedded B140i SATA.	
HP DL380 Gen9 12LFF Smart HBA H240 SAS Cable Kit	786215-B21
NOTE: For 12LFF ports 1&2 to H240/P440ar, H240 or embedded B140i SATA.	
NOTE: For details on cabling options, additional information available here: <u>Cabling</u>	
<u>Matrix</u>	
Optional Software	
HPE SmartCache No Media 24x7 Technical Support 1-server LTU	D7S26A
HPE SmartCache No Media 24x7 Technical Support Flexible LTU	D7S27A
HPE SmartCache No Media 24x7 Technical Support 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.	
Optional Upgrades	
HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers	727258-B21
NOTE: Provides backup power for multiple HPE Smart Array controllers or other	
devices (up to 16). NOTE: Ships as standard with some HPE Flexible Smart Array Controllers.	
The Field of the only as standard with some the Elfexible Smart Array controllers.	

HPE Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see:

http://www.hp.com/go/tape. For hardware and software compatibility of Hewlett Packard Enterprise tape backup products http://www.hpe.com/storage/BURAcompatibility.

Tape Drives

· · · · · · · · ·	
HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit	COL99A
HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit	EJ014B
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HPE StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B

HPE Disk Backup

HPE StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
HPE StoreEver 1U SAS Rack Mount Kit	AE459B
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	QU625A
HPE StoreEver MSL2024 0-drive Tape Library	AK379A
HPE StoreEver MSL4048 0-drive Tape Library	AK381A

•	1,	
	HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A
	HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A
	HP RDX 2TB USB3.0 External Disk Backup System	E7X53B
	HP RDX+ 1TB External Backup System	B7B69B
	HP RDX+ 500GB External Backup System	B7B66B
	HPE RDX+ External Docking System	C8S07B
	HPE D3700 Enclosure	QW967A
	HPE D3600 Enclosure	QW968A
	NOTE: For the complete range of RDX drives and media see:	
	http://www.hp.com/go/rdx. For hardware and software compatibility of Hewlett	
	Packard Enterprise disk backup products see: <u>http://www.hp.com/storage/SPOCK</u> .	

HPE RDX Removable Disk Backup System

HPE StorageNOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows ServerOptions2003 and Linux, please see: http://h18006.www1.hp.com/storage/saninfrastructure/hba.html.

Emulex Fibre Channel HBAs	
HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
HPE StoreFabric 84E 4-port 8Gb Fibre Channel Host Bus Adapter	E7Y63A
HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A
HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A
HPE StoreFabric SN1100E 4-port 16Gb Fibre Channel Host Bus Adapter	P9D99A
QLogic Fibre Channel HBAs	
HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter	P9D91A
HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	Q0L13A
HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	Q0L14A
HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	Q0L11A

HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	Q0L12A
HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	P9M75A
HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	P9M76A
Converged Network Adapter HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A

HPE Disk Storage Disk Enclosures

Systems	HP D6000 Dual I/O Module Disk Enclosure	QQ695A
	HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W30A
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HPE D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	MOT59A
	HPE D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A

HPE A HPE Data Center

Racks

Advanced Series Racks	
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HPE 48U 600mm x 1075mm Advanced Pallet Rack	H6J87A
HPE 48U 600mm x 1075mm Advanced Shock Rack	H6J88A
HPE 42U 600mm x 1075mm Advanced Pallet Rack	H6J65A
HPE 42U 600mm x 1075mm Advanced Shock Rack	H6J66A
HPE 42U 600mm x 1200mm Advanced Pallet Rack	H6J67A
HPE 42U 600mm x 1200mm Advanced Shock Rack	H6J68A
HPE 36U 600mm x 1075mm Advanced Pallet Rack	H6J77A
HPE 36U 600mm x 1075mm Advanced Shock Rack	H6J78A
HPE 22U 600mm x 1075mm Advanced Pallet Rack	H6J83A
HPE 22U 600mm x 1075mm Advanced Shock Rack	H6J84A
HPE 14U 600mm x 1075mm Advanced Shock Rack	H6J82A

NOTE: Please see the HPE Advanced Series Racks QuickSpecs for information on

additional racks options and rack specifications.

HPE Enterprise Series Racks

HP 47U 600mm x 1075mm Enterprise Pallet Rack	BW911A
HP 47U 600mm x 1075mm Enterprise Shock Rack	BW912A
HP 47U 600mm x 1200mm Enterprise Pallet Rack	BW913A
HP 47U 600mm x 1200mm Enterprise Shock Rack	BW914A
HPE 42U 600mm x 1075mm Enterprise Pallet Rack	BW903A
HP 42U 600mm x 1075mm Enterprise Shock Rack	BW904A
HP 42U 600mm x 1200mm Enterprise Pallet Rack	BW907A
HP 42U 600mm x 1200mm Enterprise Shock Rack	BW908A
HP 36U 600mm x 1075mm Enterprise Pallet Rack	BW895A

Additional Opti	ons	
	HP 36U 600mm x 1075mm Enterprise Shock Rack	BW896A
	HP 42U 800mm x 1075mm Enterprise Pallet Rack	BW917A
	HP 42U 800mm x 1075mm Enterprise Shock Rack	BW9184
	NOTE: Please see the HPE Enterprise Series Racks QuickSpecs for information on additional racks options and rack specifications.	
	HPE Value Series Rack	
	HP 42U 600mm x 1075mm Standard Pallet Rack	AF0464
	NOTE: Please see the HPE Standard Series Racks QuickSpecs for information on additional racks options and rack specifications.	
HPE Power	HPE Basic Power Distribution Units (PDU)	
Distribution Units (PDUs)	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	H5M54A
(FD03)	HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	H5M56A
	HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU	H5M55A
	HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU	H5M574
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU	H5M584
	HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU	H5M68/
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU	H5M61/
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M59/
	HPE Basic 7.3kVA/60309 3-wire 32A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M704
	HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU	H5M60A
	HPE Basic 11kVA/60309 63A 3-wire 48A/230V Outlets (30) C13 (6) C19/Vertical INTL PDU	H5M714
	HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU	H5M754
	HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU	H5M63A
	HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5- 20R/Vertical NA/JP PDU	H5M64A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M62A
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M72/
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6) C19/Vertical INTL PDU	H5M73A
	HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	H5M67/
	HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU	252663-D7
	HPE Basic Modular 4.9kVA/L6-30P 24A/208V Outlets (4) C19/Horizontal NA/JP Core Only PDU	252663-D74
	, HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4) C19/Horizontal NA/JP PDU	252663-D7
	HPE Basic Modular 7.3kVA/60309 3-wire 32A/230V Outlets (4) C19/Horizontal INTL Core Only PDU	252663-B33
	HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4) C19/Horizontal	252663-B34

INTL PDU	
HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A
HPE Basic Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF513A
HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF519A
HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF511A
HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF518A
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs	
for information on additional options and product specifications.	
HPE Metered Power Distribution Units (PDU)	
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A
HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU	G9Z06A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	D9N48A
HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU	D9N51A
HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5- 20R/Vertical NA/JP PDU	D9N53A
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13 (3) C19/Vertical INTL PDU	D9N55A
HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlet (32) C13 (4) C19/Vertical INTL PDU	D9N50A
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13 (3) C19/Vertical INTL PDU	D9N57A
HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N58A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) C19/Vertical NA/JP PDU	D9N61A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N62A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU	D9N54A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N59A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12)	G9Z07A

C19/Vertical NA/JP PDU	
HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU	D9N63A
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlet (30) C13 (3) C19/Vertical INTL PDU	D9N56A
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	D9N60A
HPE Metered 3Ph 22kVA/60309 5-wire WT 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	G9Z08A
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the HPE Metered Power Distribution Units (PDU) QuickSpecs for information on additional options and product specifications.	
HPE Intelligent Power Distribution Unit (PDU)	
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF520A
HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF521A
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF522A
HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU	AF523A
HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU	AF901A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF525A
HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF526A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF527A
HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C19/Horizontal INTL PDU	AF538A
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF531A
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF532A
HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit	AF534A
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs for	
information on additional options and product specifications.	
HPE Metered and Switched Power Distribution Units (PDU)	
HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU	H8B48A
HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1)	H8B49A

C19/Vertical WW PDU	
HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	H8B50A
HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	H8B51A
HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	H8B52A
HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5- 20R/Vertical NA/JP PDU	H8B53A
HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU	H8B54A
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A
NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU)	
QuickSpecs for information on additional options and product specifications.	
NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS)</u> web page.	
	HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5- 20R/Vertical NA/JP PDU HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (12) C13 (3) C19/Vertical INTL PDU HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU) QuickSpecs for information on additional options and product specifications. NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)

HPE Rack Mount	HPE Location Discovery Services	
Consoles, KVM	HPE 36U Location Discovery Kit	BW945A
Switches, and	HPE 42U Location Discovery Kit	BW946A
Keyboards	HPE 47U Location Discovery Kit	BW947A
	HP DL380 Gen9 Location Discovery Services Ear Kit	768884-B21
	HPE Location Discovery Services LCD8500 Kit	TL052A
	NOTE: Please see the HPE Location Discovery Services QuickSpecs for information	
	on additional options and product specifications.	
	HPE Rack Mount Consoles	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	HP LCD8500 1U DE Rackmount Console Kit	AF632A
	HP LCD8500 1U FR Rackmount Console Kit	AF633A
	HP LCD8500 1U JP Rackmount Console Kit	AF642A
	HP LCD8500 1U RU Rackmount Console Kit	AF643A
	HP LCD8500 1U INTL Rackmount Console Kit	AF644A
	HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
	HPE KVM Switches	
	HP 0x1x8 G3 KVM Console Switch	AF651A
	HP 0x2x16 G3 KVM Console Switch	AF652A
	HP TAA 0x2x16 G3 KVM Console Switch	AF653A
	HP USB Remote Access Key for G3 KVM Console Switches	AF650A
	HP KVM Console USB Interface Adapter	AF628A
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
	HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A

HP 1x4 USB/PS2 KVM Console Switch	AF611A
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
NOTE: To learn more, please visit the HPE KVM Switches web page.	
HPE USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3

Rail Kits

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.

HP 2U Small Form Factor Easy Install Rail Kit	733660-B21
NOTE: Does not include CMA (733664-B21).	
HP 2U Large Form Factor Easy Install Rail Kit	733662-B21
NOTE: Does not include CMA (733664-B21).	
HP 2U Cable Management Arm for Easy Install Rail Kit	733664-B21
HP 2U Small Form Factor Ball Bearing Rail Kit	720863-B21
NOTE: Does not include CMA (720865-B21).	

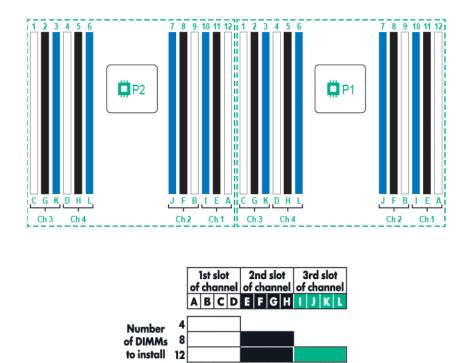
	NOTE: Does not include CMA (720865-B21).	
	HP 2U Cable Management Arm for Ball Bearing Rail Kit	720865-B21
	HPE Other Options	
	HPE Rack LED Light Kit	BW939A
	HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HPF Uninterruntible	HPE DirectFlow Three Phase UPS	
Power Systems	Power Unit (1U UPS)	
(UPS)	HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
	HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
	HPE RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF437A
	Input/Output Module Options for 1U UPS	
	HPE 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 Input/Output Module	AF488A
	HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF4894
	HPE 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module	AF490/
	HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF4914
	HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF492A
	HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9Y76A
	HPE DirectFlow UPS Management Card	AF4934
	Power Unit (2U UPS)	
	HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF4794
	Input/Output Module Options for 2U UPS	
	HPE 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309 Input/Output Module	AF4837
	HPE 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated Input/Output Module	AF485/
	HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF4864
	HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF4874
	HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
	HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484/
	NOTE: All Input/Output Modules support dual output outlets except the AF484A.	
	Battery Pack Options	
	HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
	HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF4824
	HPE WW DirectFlow Secondary Battery Cable	AF497/

HPE T750 G4 NA/JP Uninterruptible Power SystemJ2P85HPE T750 G4 INTL Uninterruptible Power SystemJ2P86HPE T1000 G4 UPS ModelsJ2P86HPE T1000 G4 UPS ModelsJ2P87HPE T1500 G4 UPS ModelsJ2P87HPE T1500 G4 UPS ModelsJ2P87HPE T1500 G4 VAJP Uninterruptible Power SystemJ2P87HPE T1500 G4 UPS ModelsJ2P87HPE T1500 G4 INTL Uninterruptible Power SystemJ2P87HPE T1500 G4 INTL Uninterruptible Power SystemJ2P87HPE RAT2200 G4 VPS ModelsJ2P87HPE R/T2200 G4 UPS ModelsHPE R/T3000 G4 UPS ModelsHPE R/T3000 G4 UPS ModelsJ2R00HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power SystemJ2R02HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power SystemJ2R02HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power SystemJ2R03HPE R/T3000 G4 INTL Uninterruptible Power SystemJ2R04R1500 G4 ModelsJ2R04HPE R1500 G4 NA Uninterruptible Power SystemJ2R03HPE R1500 G4 INTL Uninterruptible Power SystemJ2R03R7000 Uninterruptible Power System (UPS)J2R03HPE R7000 4U ISC-32A High Voltage INTL Uninterruptible Power SystemAF463R5000 Uninterruptible Power System (UPS)AF463HPE R5000 3U L630 High Voltage INTL Uninterruptible Power SystemAF4646NOTE: Please see the HPE Line Interactive Single Phase UPS OuickSpecs for information on additional options and product specifications.AF461HPE R71200 G4 Extended Runtime ModuleJ2R05HPE R7200 G4 Extended Runtime Module<	HPE Tower UPS	
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HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power SystemAF461NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for information on additional options and product specifications.AF461HPE UPS OptionsJ2R09HPE R/T2200 G4 Extended Runtime ModuleJ2R09HPE R/T3000 G4 Extended Runtime ModuleJ2R10HPE 2U Rack/Tower UPS Shipping KitL4Q11NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)	R5000 Uninterruptible Power System (UPS)	
NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs forinformation on additional options and product specifications.HPE UPS OptionsHPE R/T2200 G4 Extended Runtime ModuleJ2R09HPE R/T3000 G4 Extended Runtime ModuleJ2R10HPE 2U Rack/Tower UPS Shipping KitL4Q11NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)	HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF4604
information on additional options and product specifications.HPE UPS OptionsHPE R/T2200 G4 Extended Runtime ModuleJ2R09HPE R/T3000 G4 Extended Runtime ModuleJ2R10HPE 2U Rack/Tower UPS Shipping KitL4Q11NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)	HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461/
HPE UPS OptionsHPE R/T2200 G4 Extended Runtime ModuleJ2R09HPE R/T3000 G4 Extended Runtime ModuleJ2R10HPE 2U Rack/Tower UPS Shipping KitL4Q11NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)	NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for	
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HPE 2U Rack/Tower UPS Shipping Kit L4Q11 NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)	HPE R/T2200 G4 Extended Runtime Module	J2R09/
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)	HPE R/T3000 G4 Extended Runtime Module	J2R10/
	HPE 2U Rack/Tower UPS Shipping Kit	L4Q11/
	NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS)	

HPE USB and SD	HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
Options	HPE 32GB microSD Mainstream Flash Media Kit	700139-B21
	HPE 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21

HPE Support	Installation & Start-up Services	
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

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 <u>http://www.hp.com/support</u>.

- . 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]	Registered DIMMs (RDIMMs)				Load Reduced (LRDIMMs)			
HPE SKU P/N	726717- B21	726718- B21	759934- B21	726719- B21	728629- B21	726720- B21	726722- B21	726724- B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Quad Rank
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB	64GB
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	Std Voltage 1.2V
DRAM Depth [bit]	512M	1G	512M	1G	1G	2G	2G	2G
DRAM Width [bit]	x8	x4	x8	x4	х4	х4	x4	х4
DRAM Density	4Gb	4Gb	4Gb	4Gb	4Gb	8Gb	8Gb	8Gb
CAS Latency	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133	2133
SLOTS THAT CAN	BE POPULAT	ED					•	
24 slot servers	24	24	24	24	24	24	24	24
ΜΑΧΙΜυΜ CAPACI	TY (GB)							
	96	192	192	384	768	384	768	1536
POPULATED DIMM	SPEED (MT/	/s)						
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133
2 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133
3 DIMM Per Channel	1600	1600	1600	1600	1600	1866	1866	1866

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

Memory Bandwidth and Capacity							
[DIMM Type]	Registered DIMMs (RDIMMs) Load Reduced (LRDI					IMMs)	
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

128GB	64GB	32GB	32GB	16GB	16GB	8GB	DIMM Capacity
Std Voltage 1.2V	Voltage						
2G	2G	2G	2G	1G	2G	1G	DRAM Depth [bit]
x4	x4	х4	х4	х4	х4	x8	DRAM Width [bit]
8Gb	8Gb	8Gb	8Gb	4Gb	8Gb	8Gb	DRAM Density
20-18-18	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	CAS Latency
2400	2400	2400	2400	2400	2400	2400	DIMM Native Speed (MT/s)
						PULATED	SLOTS THAT CAN BE POF
24	24	24	24	24	24	24	24 slot servers
	1)	MAXIMUM CAPACITY (GB
3072	1536	768	768	384	384	192	
	<u> </u>) (MT/s)	POPULATED DIMM SPEED
2400	2400	2400	2400	2400	2400	2400	1 DIMM Per Channel
2400	2400	2400	2400	2400	2133	2133	2 DIMM Per Channel
2400	2400	2400	1866	1866	1866	1866	3 DIMM Per Channel
							2 DIMM Per Channel 3 DIMM Per Channel

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

Memory Speed by Pro

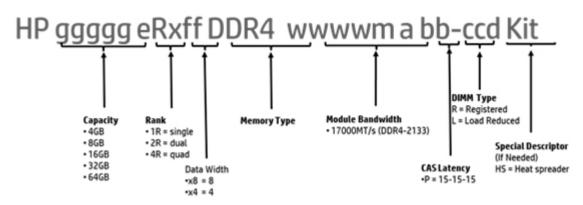
Processor Models	Supported Memory Speeds
E5-2609v3, E5-2603v3	1600MT/s
E5-2630Lv3, E5-2640v3, E5-2630v3, E5-2623v3, E5-2620v3	1866MT/s
E5-2637v3, E5-2687Wv3, E5-2699v3, E5- 2698v3, E5-2697v3, E5-2695v3, E5-2690v3, E5- 2683v3, E5-2680v3, E5-2670v3, E5-2660v3, E5- 2650Lv3, E5-2650v3, E5-2667v3, E5-2643v3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

Standard and Maximum Memory Capacity (Pre-	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
configured Models)	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

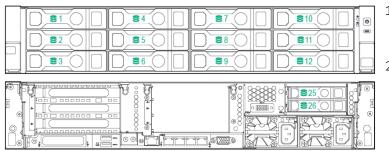
4 LFF hot-plug drive model

		1-4

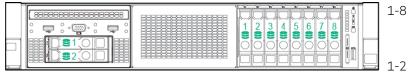
12 LFF + 3 rear LFF hot-plug drive model

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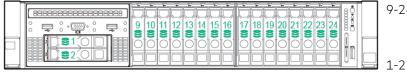
12 LFF + 2 rear SFF hot-plug drive model



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



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



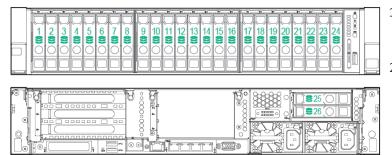
- 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- -12 12 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- 5-27 3 x LFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays

- 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

QuickSpecs

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.

System Unit	Dimensions	SEE Drivoc 7/4 × 17 5/	x 26.75 in (8.73 x 44.55 x 67.94 cm)
System Offi	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).

	Extended Ambient Operating Support				
		For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.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-condensing)	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.			
Altitude	Operating	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).			
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).			
Acoustic Noise	declared average bysta (LpAm) when the prod Noise emissions were m	A-Weighted sound power levels (LWAd) and nder position A-Weighted sound pressure levels uct is operating in a 23°C ambient environment. neasured in accordance with ISO 7779 (ECMA 74) ance 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			
	l nAm	4.3 B Perf			
	LpAm	23 dBA Entry LFF 24 dBA Entry			
		24 dBA Base			

		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			
	NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.				
		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 connectors
	Expander support	No
	Drives supported (max)	Up to 10 Internal Drives
	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	Supported

	Administrator					
HPE Ethernet 1Gb	Network Interface	10Base-T/100Base-TX/1000Base-TX				
4-port 331i Adapter	Compatibility	IEEE 802.3 10Base-T				
	. ,	IEEE 802.3ab 1000Base-	Т			
		IEEE 802.3u 100Base-TX	< compared with the second sec			
	Data Transfer Method	PCI Express, two lanes (x2	2)			
	Controller	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	nd 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.				
		<u>http://www8.hp.com/us/en/hpe/hp-</u> information/livingprogress/environmentalprogress/product- recycling.html#.V-IPA_krKiM				
		treatment information for This information (product Hewlett Packard Enterpris recyclers and other WEEE	2002/95/EC) requires manufacturers to provide each product type for use by treatment facilities. disassembly instructions) is posted on the se web site. These instructions may be used by treatment facilities as well as Hewlett Packard rs who integrate and re-sell Hewlett Packard			

http://www8.hp.com/us/en/hpe/hpinformation/livingprogress/environmentalprogress/productrecycling.html#.V-IPA_krKiM

Date	Version History	Action	Description of Change
16-Dec-2016	From Version 24 to 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	From Version 23 to 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	From Version 22 to 23	Removed	Obsolete Hard Drives were removed from the QuickSpecs.
26-Sep-2016	From Version 21 to 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	From Version 20 to 21	Changed	Smart Buy models section was revised for the NA version only.
15-Aug-2016	From Version 19 to 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	From Version 18 to 19	Changed	Smart Buy models section was revised for the NA version only.
6-Jun-2016	From Version 17 to 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	From Version 16 to 17	Changed	E5-2600v4 Series Smart Buy Models table was updated in the NA version only.
1-Apr-2016	From Version 15 to 16	Changed	What's New section was updated. Standard Features/Memory and HPE Memory sections were revised.
31-Mar-2016	From Version 14 to 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, Preconfigured Models, HPE Security, and Memory sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 13 to 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	From Version 12 to 13	Changed	Smart Buy models section was revised in the NA version only.
1-Dec-2015	From Version 11 to 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	From Version 10 to 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	From Version 9 to 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	From Version 8 to 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	From Version 7 to 8	Added	New Hard Drives offering.
			Optical Software added to HPE Storage Controllers.
			Added new HPE Care Pack 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 Care Pack Services.
17-Feb-2015	From Version 6 to 7	Added	Added Smart Buy Models to the NA version only.
9-Feb-2015	From Version 5 to 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	From Version 4 to 5	Changed	Changes made throughout the entire QuickSpecs.
13-Oct-2014	From Version 3 to 4	Changed	Corrected inconsistencies between Product Bulletin and Concentra versions.
13-Oct-2014	From Version 2 to 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 Care Pack 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	From Version 1 to 2	Changed	Changes were made throughout the QuickSpecs.





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

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