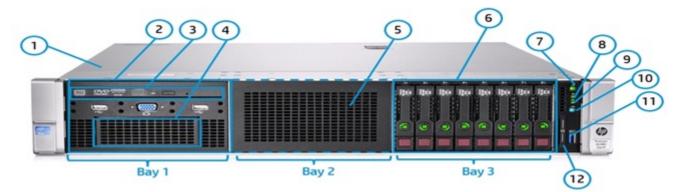
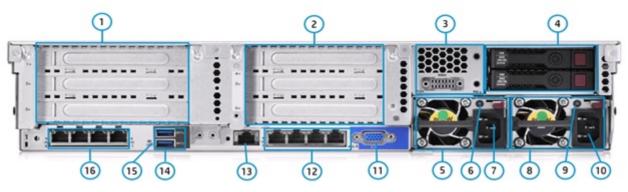
Overview

The HP ProLiant DL380 Gen9 Server delivers the best performance and expandability in the HP 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
- 2. Universal Media bay. 2 USB 2.0 and VGA standard (8SFF bay optional)
- 3. Optional Optical drive. Requires Universal Media bay
- 4. Optional 2 SFF HDD, blank shown. Requires Universal Media bay.
- 5. Drive Bay 2. Blank shown, 8SFF optional.
- 6. 8 SFF Drive Cage Bay
- 7. Power On/Standby button and system power LED button
- 8. Health LED
- 9. NIC status
- 10. UID button
- 11. USB 3.0
- 12. Serial label pull tag



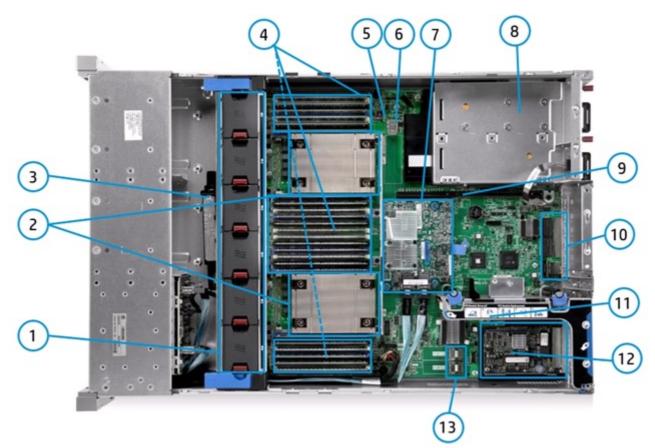
Rear view

- 1. PCI Slots (Slots 1-3 top to bottom, riser shipped standard)
- 2. PCI Slots (Slots 4-6top to bottom, requires second riser card, and second processor)
- 3. Optional serial port
- 4. Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end)
- 5. HP Flexible Slot Power Supply bay 1 (800w shown)
- 6. Power supply Power LED



Overview

- 7. Power supply Power connection
- 8. HP Flexible Slot Power Supply bay 2 (800w shown)
- 9. Power supply Power LED
- 10. Power supply Power connection
- 11. VGA connector
- 12. Embedded 4 x 1GbE Network Adapter
- 13. Dedicated iLO connector
- 14. USB 3.0 connectors (2)
- 15. Unit ID LED
- 16. Optional FlexibleLOM ports (Shown: 4 x 1GbE)



Internal view

- 1. Fan cage shown with 6 standard Hot-plug fans (High Ambient temperature fans optional)
- 2. 2 Processors, heatsink showing, with HP Smart Socket Guide
- 3. Optional HP Smart Storage Battery
- 4. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)
- 5. MicroSD card slot
- 6. Internal USB 3.0 connector
- 7. Optional HP Flexible Smart Array or Smart HBA (H240ar shown)
- 8. (Under) Hot Plug redundant HP Flexible Slot Power supplies
- 9. Connection for second (optional) riser (Required second CPU)
- 10. Embedded 4x1Gbe NIC
- 11. Primary PCIe riser, standard (Optional double wide GPU riser)



Overview

- 12. Optional Flexible LOM slot
- 13. X4 SATA ports (1 and 2)



Standard Features

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

Intel® Xeon® processor E5-2600 v3 product family is designed to deliver the best combination of performance, built-in capabilities, and cost-effectiveness. One (or two) of the following Intel® Xeon® E5-2600 v3 processors based on the model

5-2699v3 5-2698v3 5-2697v3 5-2695v3 5-2690v3 2687Wv3 5-2683v3 5-2683v3 5-2680v3 5-2670v3 5-2667v3	2.3GHz 2.3GHz 2.6GHz 2.3GHz 2.6GHz 3.1GHz 2.0GHz 2.5GHz	18 16 14 14 12 10 14	45MB 40MB 35MB 35MB 30MB 25MB	145W 135W 145W 120W 135W 160W	9.6GT/s 9.6GT/s 9.6GT/s 9.6GT/s 9.6GT/s	2133 2133 2133 2133 2133 2133
5-2697v3 5-2695v3 5-2690v3 5-2687Wv3 5-2683v3 5-2680v3 5-2670v3 5-2667v3	2.6GHz 2.3GHz 2.6GHz 3.1GHz 2.0GHz 2.5GHz	14 14 12 10	35MB 35MB 30MB 25MB	145W 120W 135W	9.6GT/s 9.6GT/s 9.6GT/s	2133 2133 2133
5-2695v3 5-2690v3 -2687Wv3 5-2683v3 5-2680v3 5-2670v3 5-2667v3	2.3GHz 2.6GHz 3.1GHz 2.0GHz 2.5GHz	14 12 10	35MB 30MB 25MB	120W 135W	9.6GT/s 9.6GT/s	2133 2133
5-2690v3 2687Wv3 5-2683v3 5-2680v3 5-2670v3 5-2667v3	2.6GHz 3.1GHz 2.0GHz 2.5GHz	12 10	30MB 25MB	135W	9.6GT/s	2133
2687Wv3 5-2683v3 5-2680v3 5-2670v3 5-2667v3	3.1GHz 2.0GHz 2.5GHz	10	25MB			1
5-2683v3 5-2680v3 5-2670v3 5-2667v3	2.0GHz 2.5GHz		î	160W		0100
5-2680v3 5-2670v3 5-2667v3	2.5GHz	14			9.6GT/s	2133
5-2670v3 5-2667v3			35MB	120W	9.6GT/s	2133
5-2667v3		12	30MB	120W	9.6GT/s	2133
i	2.3GHz	12	30MB	120W	9.6GT/s	2133
	3.2GHz	8	20MB	135W	9.6GT/s	2133
5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
5-2643v3	3.4GHz	6	20MB	135W	9.6GT/s	2133
5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
5-2637v3	3.5GHz	4	15MB	135W	9.6GT/s	2133
5-2630v3	2.4Ghz	8	20MB	85W	8.0GT/s	1866
-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
5-2620v3		6	15MB	85W		1866
5-2609v3		6	15MB	85W	6.4GT/s	1600
5-2603v3		6	15MB	85W	6.4GT/s	1600
ds we would I® C610 S6 I® E5-2600 TE: For mo	d need to leverage eries Chipset 0v3 Processor Fam re information rega	the Grap illy arding Inte	hics Enablemer	nt kit (719082-	B21).	uble wide
	5-2640v3 5-2637v3 5-2630v3 5-2630Lv3 5-2623v3 5-2620v3 5-2609v3 5-2609v3 5-2603v3 TE: All proc ported with ds we would I® C610 Se I® E5-2600 TE: For mo ://www.inte	5-2640v3 2.6GHz 5-2637v3 3.5GHz 5-2630v3 2.4Ghz -2630Lv3 1.8GHz 5-2623v3 3.0GHz 5-2620v3 2.4GHz 5-2620v3 2.4GHz 5-2609v3 1.9GHz 5-2603v3 1.6GHz TE: All processors above 1200 ported with this Heatsink. For ds we would need to leverage I® C610 Series Chipset I® E5-2600v3 Processor Fam TE: For more information regative ://www.intel.com/products/se	5-2640v3 2.6GHz 8 5-2637v3 3.5GHz 4 5-2630v3 2.4Ghz 8 5-2630v3 1.8GHz 8 5-2630v3 1.8GHz 8 5-2630v3 1.8GHz 8 5-2620v3 2.4GHz 6 5-2620v3 2.4GHz 6 5-2609v3 1.9GHz 6 5-2603v3 1.6GHz 6 5-2603v3 1.6GHz 6 5-2603v3 1.6GHz 6 5-2603v3 1.6GHz 6 7 8 6 6 7 8 6 7 8 9 9 1.6GHz 6 9 9 1.6GHz 6 6 10 9 9 9 1.6GHz 6 10 9 9 9 1.6GHz 6 11 9 9 9 1.6GHz 6 12 9 9 9 1.6 1.6 10 8 9 <t< td=""><td>5-2640v3 2.6GHz 8 20MB 5-2637v3 3.5GHz 4 15MB 5-2630v3 2.4Ghz 8 20MB -2630Lv3 1.8GHz 8 20MB 5-2623v3 3.0GHz 4 10MB 5-2620v3 2.4GHz 6 15MB 5-2620v3 2.4GHz 6 15MB 5-2609v3 1.9GHz 6 15MB 5-2603v3 1.6GHz 6 15MB 5-2603v3 1.6GHz 6 15MB 5-2603v3 1.6GHz 6 15MB 5-2603v3 1.6GHz 6 15MB 6 15MB 5 1.6GHz 6 7 8 would need to leverage the Graphics Enablement 1.6GHz 1.5MB 10 8 8 8 1.6GHz 1.5MB 1.6GHz 6 15MB 1.6GHz 6 1.6GHz 1.6GHz 1.6GHz 1.6GHz 10 8 8 8 1.6GHz 6 1.6GHz 1.6GHz 1.6GHz 1.6GHz</td><td>5-2640v32.6GHz820MB90W5-2637v33.5GHz415MB135W5-2630v32.4Ghz820MB85W-2630Lv31.8GHz820MB55W5-2623v33.0GHz410MB105W5-2620v32.4GHz615MB85W5-2609v31.9GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85WTE: All processors above 120W use a high efficiency Heatsink. Dou ported with this Heatsink. For processors with a standard Heatsink ds we would need to leverage the Graphics Enablement kit (719082-I® C610 Series Chipset I® E5-2600v3 Processor FamilyTE: For more information regarding Intel chipsets, please see the fol ://www.intel.com/products/server/chipsets/.</td><td>5-2640v32.6GHz820MB90W8.0GT/s5-2637v33.5GHz415MB135W9.6GT/s5-2630v32.4Ghz820MB85W8.0GT/s-2630Lv31.8GHz820MB55W8.0GT/s5-2623v33.0GHz410MB105W8.0GT/s5-2620v32.4GHz615MB85W8.0GT/s5-2620v32.4GHz615MB85W8.0GT/s5-2609v31.9GHz615MB85W6.4GT/s5-2603v31.6GHz615MB85W6.4GT/s5-2603v31.6GHz615MB85W6.4GT/s5-2603v31.6GHz615MB85W6.4GT/sTE: All processors above 120W use a high efficiency Heatsink. Doublewide PCle of ported with this Heatsink. For processors with a standard Heatsink that require does we would need to leverage the Graphics Enablement kit (719082-B21).I® C610 Series Chipset I@ E5-2600v3 Processor FamilyTE: For more information regarding Intel chipsets, please see the following URL: ://www.intel.com/products/server/chipsets/.</td></t<>	5-2640v3 2.6GHz 8 20MB 5-2637v3 3.5GHz 4 15MB 5-2630v3 2.4Ghz 8 20MB -2630Lv3 1.8GHz 8 20MB 5-2623v3 3.0GHz 4 10MB 5-2620v3 2.4GHz 6 15MB 5-2620v3 2.4GHz 6 15MB 5-2609v3 1.9GHz 6 15MB 5-2603v3 1.6GHz 6 15MB 5-2603v3 1.6GHz 6 15MB 5-2603v3 1.6GHz 6 15MB 5-2603v3 1.6GHz 6 15MB 6 15MB 5 1.6GHz 6 7 8 would need to leverage the Graphics Enablement 1.6GHz 1.5MB 10 8 8 8 1.6GHz 1.5MB 1.6GHz 6 15MB 1.6GHz 6 1.6GHz 1.6GHz 1.6GHz 1.6GHz 10 8 8 8 1.6GHz 6 1.6GHz 1.6GHz 1.6GHz 1.6GHz	5-2640v32.6GHz820MB90W5-2637v33.5GHz415MB135W5-2630v32.4Ghz820MB85W-2630Lv31.8GHz820MB55W5-2623v33.0GHz410MB105W5-2620v32.4GHz615MB85W5-2609v31.9GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85W5-2603v31.6GHz615MB85WTE: All processors above 120W use a high efficiency Heatsink. Dou ported with this Heatsink. For processors with a standard Heatsink ds we would need to leverage the Graphics Enablement kit (719082-I® C610 Series Chipset I® E5-2600v3 Processor FamilyTE: For more information regarding Intel chipsets, please see the fol ://www.intel.com/products/server/chipsets/.	5-2640v32.6GHz820MB90W8.0GT/s5-2637v33.5GHz415MB135W9.6GT/s5-2630v32.4Ghz820MB85W8.0GT/s-2630Lv31.8GHz820MB55W8.0GT/s5-2623v33.0GHz410MB105W8.0GT/s5-2620v32.4GHz615MB85W8.0GT/s5-2620v32.4GHz615MB85W8.0GT/s5-2609v31.9GHz615MB85W6.4GT/s5-2603v31.6GHz615MB85W6.4GT/s5-2603v31.6GHz615MB85W6.4GT/s5-2603v31.6GHz615MB85W6.4GT/sTE: All processors above 120W use a high efficiency Heatsink. Doublewide PCle of ported with this Heatsink. For processors with a standard Heatsink that require does we would need to leverage the Graphics Enablement kit (719082-B21).I® C610 Series Chipset I@ E5-2600v3 Processor FamilyTE: For more information regarding Intel chipsets, please see the following URL: ://www.intel.com/products/server/chipsets/.



Standard Features

Memory One of the following depending on Model	Type HP SmartMemory DDR4 Registered (RDIM	IM) or Load Reduced ((LRDIMM)	
	DIMM Slots Available	24	(12 DIMM slots per processor, 4 channels per processor, 3 DIMMs per channel)	
	Maximum Capacity (LRDIMM)	768GB	(24 x 32GB LRDIMM @2133MHz)	
	Maximum Capacity (RDIMM)	384GB	(24 x 16GB RDIMM @2133MHz)	
Memory Protection	Advanced ECC		es single device data correction to detect and correct bit error that occurs within a single DRAM chip.	
	Online spare	Memory online spare mode detects a rank that is degrading and switche operation to the spare rank.		

Expansion Slots

Primary Riser (Standard)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 3.0	x8	x16	7	Full-height, half-length Slot	Proc 1
	2	PCle 3.0	x8	x16	10	Full-height, half-length Slot	Proc 1
	3	PCle 3.0	x8	x8	13	Half Length, Full Height Slo	Proc 1 t

* Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

** 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.

Slot 2 PCle Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
(Optional 3- slot) 719073-B21	4	PCle 3.0	x16	x16	16	Full Height, Full Length Slot	Proc 2
	5	PCle 3.0	x16	x16	20	Full Height, Full Length Slot	Proc 2
	6	PCIe 3.0	x8	x8	23	Full-height, half-length Slot	Proc 2

* Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

** 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.



Slot 1 PCle Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
(Optional 2- slot) 719076-B21	2	PCle 3.0	x16	x16	0x05		Full Height, Full Length Slot	Proc 1
	3	PCle 3.0	x16	x16	0x08		Full-height, half-length Slot	Proc 1
	number ** Indicates NOTE: This NOTE: All s	s assignment (the number of will replace the lots support PC PN 669777-B2	physical elected e standard pri Cle cards to 1	trical lanes rui imary riser and 50W or more	nning to the co I supports dou depending on o	onnector. ble wide card	ds.	s assignment ver Cord Option
Storage Conf One of the fo depending of	Ilowing n Model a N						cy mode settings	
	E	Base Models	HF	HP Dynamic Smart Array B140i Controller HP Flexible Smart Array P440ar/2G FIO Controller HP Flexible Smart Array P840ar/4GB				
	F	Performance Mo			art Array B140 art Array P840/		troller	
Internal Stora Devices	age (Optical Drives			n Performance OM, DVD-RW			
One of the follo		lard Drives	No	one ship stand	ard			
depending on	Model ŀ	lard Drive Bays	24 12 NG Se 4 I NG ch NG fie wi NG CO	SFF plus opti LFF plus opti DTE: The 3 LF DTE: The 12LI cond riser. LFF drive bays DTE: The Univ assis or the 24 DTE: The 8SF Id upgrades. F th Bay 13 the DTE: The 4LFI DTE: All Pre-co	F chassis also ersal Media Ba 4SFF front end cor optimal upg ast to be popu chassis cannon figured Chas nal HP Flexible	ves rear ves rear vill consume o supports 25 ay (724865-B d, and can on aded with a d grade Bay2 sl llated for a fie not be upgrad ssis come wit	space for the s SFF rear which 21) not availate ly be populate rive cage to 10 hould be popu eld upgrade to led to 12LFF in th an embedde	secondary riser. In allows for the ole with the LFF ed in Bay1. 6 or 24 SFF with lated second, 24 SFF. In the field. ed 10-Port SATA



Standard Features							
Maximum Internal		CAPACITY	CONFIGURATION				
Storage	Hot Plug SFF SAS	31.2TB	24+2 x 1.2TB (with optional rear SFF drive cage)				
	Hot Plug SFF SATA	26.0TB	24+2 x 1TB (with optional SFF drive cage)				
	Hot Plug LFF SAS	90.0TB	12+3 x 6TB (with optional rear LFF drive cage)				
	Hot Plug LFF SATA	90.0TB	12+3 x 6TB (with optional rear LFF drive cage)				
	Hot Plug SFF SAS SSD	31.2TB	24+2 x 1.6TB (with optional rear SFF drive cage)				
	Hot Plug LFF SATA SSD	24.0TB	12+3 x 1.6TB (with optional rear LFF drive cage)				
Power Supply	HP 500W Flex Slot Platinum Hot Plug Power Supply HP 800W Flex Slot Platinum Hot Plug Power Supply HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply						
	HP Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HP 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 (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the ProLiant Power Cables web page.						
	To review the power requirements for your selected system, please use the HP Power Advisor Tool located at www.hp.com/go/hppoweradvisor.						
	Power specifications and technical content for all HP Server power supplies can be found at www.hp.com/go/proliant/powersupply.						
	NOTE: Mixing of power supplies in the same	e server is supported	d on DL380 Gen9.				
System Fans		on-redundant	Redundant				
One of the following depending on Model	2P model		6 fans				
	 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 Temperature Fan Kit is available to meet ambient temperature 						

environments. **NOTE:** High Performance Temperature Fan Kit is required for Passive GPU support. **NOTE:** The 8SFF Bay1 kit (719067-B21) will ship with 6 High efficiency fans.



Interfaces	Serial	optional					
	Video	2 (1 front, optional via Universal Media Bay, 724865- B21), 1 back not active simultaneously					
	FlexibleLOM Network Ports	4 x 1Gb ports shipping standard with optional FlexibleLOM					
	HP iLO Remote Management Network Por	t 1 Gb Dedicated					
	Micro SD Slot 1 Micro SD						
	NOTE: The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.						
	USB 3.0	Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay					
	SID (Systems Insight Display)	Optional					
	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	Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Oracle Solaris VMware Citrix XenServer						
		ied and Supported ProLiant Servers for OS and software drivers available for your server, please visit our ssupport and our driver download page:					
Upgradeability	Technology Sales (http://www.hp.com/sup Up to 24 DIMM slots available for higher M FlexibleLOM connector for 1 Gigabit or 10 HP Flexible Smart Array or Smart HBA Co Embedded 10-Port SATA, B140i as standa	emory capacity Gigabit networking options ntrollers ard					
	Optional 3 slot riser (x16, x16, x8), or 2 slo NOTE: To take advantage of the additional installed. Redundant Power Supply Optical Drive supported via Universal Media	3 PCI slot upgrade, the second processor must be					
	NOTE: The Universal Media bay provides front VGA and 2xUSB 2.0, plus ability to add 2SFF and Optical. NOTE: Universal Media bay only available with 8 or 8+8SFF chassis & can be populated in Bay1 only.						
	HP Legacy Mode (FIO only, 758959-B22) NOTE: UEFI is the default mode for CTO a	nd BTO skus. Can change default to legacy via CTO.					



Standard Teatures	
Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL 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: For details on configurations supporting ASHRAE A3/4 please see: 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) 4000 x 4000 (40 bpr)
	• 1920 x 1200 (16 bpp)
	HP iLO 4 On System Management Memory
	 16 MB Flash 256 MB DDR 3 with ECC (112 MB after ECC and video)
HP Server UEFI/Legacy ROM	 HP Server UEFI /Legacy ROM Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration while interacting with your server at boot time. HP 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 HP ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit http://www.hp.com/go/proliantuefi/docs. UEFI enables numerous new capabilities specific to HP 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 HP RESTful API. PXE boot support for IPv6 networks Boot support for option cards that only support a UEFI option ROM
	For more information please visit www.hp.com/go/proliant/uefi. NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI. NOTE: HP UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory.



Form Factor One of the following depending on Model	One of the following 8 SFF & 24SFF Drive Bay Version:				
Embedded Manageme	ntHP Integrated Lights- Out (HP iLO)	Monitor your servers for ongoing management, service alerting, reporting and remote management with iLO. Learn more at www.hp.com/go/ilo.			
	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at www.hp.com/go/ProLiant/uefi.			
	HP RESTful API	RESTful API is an application programming interface. RESTful Web Service API served by iLO's web server. Learn more at www.hp.com/go/restfulapi.			
	Intelligent Provisioning	Provision servers by discovering and deploying 1 to few servers with Intelligent Provisioning. Learn more at www.hp.com/go/intelligentprovisioning.			
	Embedded Remote Support	HP's embedded remote support, used with Insight Online direct connect or HP Insight Remote Support, allows HP ProLiant servers to transmit hardware events directly to HP or an HP Authorized Partner for automated phone home support. Learn more at www.hp.com/go/insightonline/info.			
Server utilities	HP Smart Update	Optimize firmware and driver updates with HP Smart Update solutions. Learn more at www.hp.com/go/smartupdate.			
	HP Systems Insight Manager (HP SIM)	HP SIM allows you to monitor the health of your HP ProLiant Servers and HP Integrity Servers, and also provides you with basic support for non-HP servers. HP SIM also integrates with HP SUM to provide quick and seamless firmware updates. Learn more at www.hp.com/go/sim.			
	Scripting Tool Kit and Windows PowerShell	Provision 1 to many servers using your own scripts to discover and deploy them with HP Scripting Tool Kit for Windows and Linux or HP Scripting Tools for Windows PowerShell. Learn more at www.hp.com/go/ProLiantSTK or www.hp.com/go/powershell.			
	HP RESTful Interface Tool	HP RESTful Interface tool is a scripting tool to provision servers using RESTful API Interface to discover and deploy servers at scale. Learn more at www.hp.com/go/restfulapi.			



Standard Features		
	HP 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: www.hp.com/go/ilo/mobileapp.
	HP Insight Online	HP Insight Online, available at no additional cost as part of your HP warranty, Care Pack or contractual support agreement with HP, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at www.hp.com/go/insightonline/info.
Security	Integrated Lights-Out can	Out 4) has 12 customizable user accounts and SSL encryption to be disabled via a Global Setting lirectory services integration
Warranty	worldwide network of HP A repair is available for three available for 90 days from through HP Care Pack ser year or three year warrant NOTE: Server Warranty in business day response. W Repair (CSR) parts. These easy replacement. A trave Mandatory CSR part; 2) O involve added complexity. charge. Additional information	A a global limited warranty and supported by HP Services and a Authorized Channel Partners resellers. Hardware diagnostic support and e years from date of purchase. Support for software and initial setup is date of purchase. Enhancements to warranty services are available rvices or customized service agreements. Hard drives have either a one by; refer to the specific hard drive QuickSpecs for details. Includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next Varranty repairs may be accomplished through the use of Customer Self e parts fall into two categories: 1) Mandatory CSR parts are designed for el and labor charge will result when customers decline to replace a optional CSR parts are also designed for easy replacement but may Customers may choose to have HP replace Optional CSR parts at no tion regarding worldwide limited warranty and technical support is .www1.hp.com/products/servers/platforms/warranty/index.html.

Optional Features Embedded ManagementiLO Advanced HP iLO Advanced licenses offer smart remote functionality without compromise, for all HP 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 HP iLO Advanced at www.hp.com/go/iloadvanced. **HP Insight Control** HP Insight Control, lets you deploy, migrate, monitor, remote control, and Server Management optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hp.com/go/insightcontrol. **HP OneView** Powerful converged management of servers, storage, and network for IT service automation and infrastructure simplicity, see www.hp.com/go/oneview. **HP Insight Cluster** HP Insight Cluster Management Utility is a hyperscale-optimized management framework that includes software for the provisioning, **Management Utility** (CMU) control, performance management and monitoring of groups of nodes and infrastructure. Learn more at www.hp.com/go/cmu. **Rack and Power** HP Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HP Rack and Power infrastructure solutions - rack Infrastructure 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, HP is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at HP Rack and Power Infrastructure. **High Performance** HP Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters Clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters. **HPC Interconnects** NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HP Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPC Clusters with InfiniBand Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html. Whether you need to solve a specific data protection, archiving, or storage command and control Storage Software challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than HP storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities.



Optional Features

Storage software that gets the job done:

• Data Protection and Recovery Software

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

- Data Archive and Migration Software HP's 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) HP's 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 HP 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 HP storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.
- HP StoreVirtual VSA

With HP StoreVirtual VSA you can use the power of virtualization to create a virtual array within your host server. Manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. HP ProLiant Gen9 servers include a 3-year limited license for HP StoreVirtual VSA software with 1TB of capacity at no extra cost. Simply select to install HP StoreVirtual VSA software during server setup within Intelligent Provisioning. More information, instructional videos, and free console management software are available at www.hp.com/go/vsa1TB.

NOTE: For more information available Storage Software including QuickSpecs, please see: www.hp.com/go/storage/software.

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



Service and Support

HP Technology Services HP Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HP to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.
 Protect your business beyond warranty with HP Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.

 Optimized Support recommendation
 HP Proactive Care - Call to Repair commitment, 24x7 coverage, three year Care Pack Service

 Prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. Includes enhanced escalation management and the industry's highest level of hardware support commitment - hardware will be returned to operating conditions within six (6) hours after you open your case. Comes with collaborative software call management with two hour call back to reduce troubleshooting.

As a leading global support provider for Microsoft, Red Hat, VMware, SUSE and other operating systems, HP is able to simplify and shorten your time to resolution with one call for hardware or software questions. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf.

HP ProLiant Server Hardware Installation Help ensure your new HP ProLiant hardware is installed smoothly, efficiently and with minimal disruption to your IT and business operations. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf.

Standard Support HP Proactive Care - 24x7 coverage, three year Care Pack Service

recommendation

This service helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. Includes four hour response for hardware, and collaborative call management for software with a two hour callback. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf.

HP ProLiant Hardware Installation

Help ensure your new HP ProLiant hardware is installed smoothly, efficiently and with minimal disruption to your IT and business operations. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf.

Related Services

These services help modernize key systems and leverage new technology to support a changing business climate and prepare you for the new style of IT. HP understands the needs of the data center of the future and will serve as your guide for the journey. www.hp.com/services/consulting.

Data Privacy Services

Protect your data through better media management. HP Data privacy services help manage and protect sensitive data. www.hp.com/services/dataprivacy.

Factory Express for Servers and storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Choose how your factory solutions are built, tested, integrated, shipped and deployed. http://www.hp.com/go/factory-express.

HP Foundation Care

Hardware and software support services provide easy connection to HP to resolve support issues



Service and Support

quickly. Includes collaborative call management for industry leading software; full software support may also be purchased, giving you one place to call for help, www.hp.com/services/foundationcare.

Additional HP Care Pack services can be found at: www.hp.com/go/cpc.

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

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

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction.



Pre-configured Models

For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information - Factory Integrated Models" section.

1. Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.

2. HP does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.

3. If you desire a custom configuration please see "Configuration Information - Factory Integrated Models" section of this QuickSpecs.

4. Not all models are available in all regions. Check with your local country HP offices for availability.

NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either P/N 666987-B21: HP SFF Hard Drive Blank Kit or P/N 666986-B21: HP LFF Hard Drive Blank Kit.

NOTE: All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the ProLiant Power Cables web page.

CAUTION: HP 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.

	Entry Models		Base Models			
[SKU Number]	766342-B21	752686-B21	752688-B21	752687-B21		
Model Name	E5-2609v3 1P 8GB-R	HP ProLiant DL380 Gen9 E5-2609v3 1P 8GB-R B140i 8SFF SATA 500W PS Entry Server	HP ProLiant DL380 Gen9 E5-2620v3 1P 16GB-R P440ar 12LFF 2x800W PS Base Server	HP ProLiant DL380 Gen9 E5-2620v3 1P 16GB-R P440ar 8SFF 500W PS Base Server		
Processor	Intel® Xeon® E5-2609v3 Intel® Xeon® E5-2620v3					
Number of Processors		One				
Memory	NOTE: with the E5-2609	ed DIMMs, 2133 MHz) /3 this memory DIMM will at 1600MHz	16GB (1x16GB Registered DIMMs, 2133 MHz) NOTE: with the E5-2620v3 this memory DIMM will only operate at 1866MHz			
Network Controller	HP Embedded 1Gb Ethernet 4-port 331i Adapter					
Storage Controller	HP Dynamic Smart Array B140i NOTE: Default is AHCI off chipset, Smart Array needs to be enabled on SATA model		HP Flexible Smart Array P840/4G Controller	HP Flexible Smart Array P440ar/2GB		
Hard Drive	None ship	o standard	None ship standard; includes 10 LFF hard drive blanks	None ship standard		
Internal Storage	4 LFF HDD Bays	8 SFF HDD Bays	12 LFF HDD Bays	8 SFF HDD Bays		
Optical Drive Bay	Not Available	Optional Universal Media Bay (724865-B21)	Not Available	Optional Universal Media Bay (724865-B21)		
Optical Drive	Optional via HP 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 HP 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	3 PCI slots available with u	pgrade option, second proc	cessor required)		
Power Supply	(1) HP 500W Flex Slot	Platinum Power Supply	(2) HP 800W Flex Slot Platinum Power Supply	(1) HP 500W Flex Slot Platinum Power Supply		



Pre-configured Models

Fans	4 hot plug fans, redundant	6 hot plug high	4 hot plug fans, redundant			
		performance temperature				
		fans, redundant				
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control					
	(optional), HP OneView (optional)					
Form Factor	Rack (2U), HP Easy Install Rails	Rack (2U), HP Easy	Install Rails with CMA			
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day					
	response					

	Performance Models
[SKU Number]	752689-B21
Model Name	HP ProLiant DL380 Gen9 E5-2650v3 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server
Processor	Intel® Xeon® E5-2650v3
Number of Processors Two	
Memory 32GB (2x16GB Registered DIMMs, 2133 MHz)	
Network Controller	HP Embedded 4x1Gb, plus 2x10Gb-T Flexible LOM
Storage Controller	HP Flexible Smart Array P440ar/2GB
Hard Drive	None ship standard
Internal Storage	8 SFF HDD Bays
Optical Drive Bay	
Optical Drive	HP Half-Height SATA DVD-RW Optical Drive
PCI-Express Slots	6 PCIe slots (includes second riser slot upgrade option)
Power Supply	(2) HP 800W Flex Slot Platinum Power Supply
Fans 4 hot plug fans, redundant	
Management iLO Management (standard), Intelligent Provisioning (stand iLO Advanced (standard), HP OneView (optional)	
Energy Star	Meets Energy Star requirements
Form Factor	Rack (2U), HP 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 that UEFI is the standard default for all Predefined models

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



Configuration Information - Factory Integrated Models

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, HP recommends the use of an HP 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]	HP ProLiant DL380 Gen9	HP ProLiant DL380 Gen9	HP ProLiant DL380 Gen9	ant DL380 Gen9 HP ProLiant DL380 Gen9	
	8SFF Configure-to-order	24SFF Configure-to-order	4LFF Configure-to-order	12LFF Configure-to-order	
	Server Server Server Ser		Server		
SKU Number	719064-B21	767032-B21	767033-B21	719061-B21	
Processor	2 (optional) x HP Smart Socket Guides				
DIMMSIots		24 DIMM slots for RDIMM	I, LRDIMM DDR4 Memory		
Storage Controller	HP Dynamic Smart Array B140i, plus optional HP Flexible Smart Array or Smart HBA controller		r Smart HBA controller		
PCIe	3 PCIe slots (+3 PCI slots available with upgrade option, second processor required)		cessor required)		
Drive Cage	8SFF Hot Plug 24SFF Hot Plug 4LFF Hot Plug 12LFF Hot Plug		12LFF Hot Plug		
Network	HP Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HP Flexible LOM				
Controller	er				
Fans	4 hot plug fans, 6 hot plug high 4 hot plug fans, 6 hot plug hig		6 hot plug high		
			performance temperature		
fans, redundant fans, red		fans, redundant			
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight				
	Control (optional), HP OneView (optional)				
USB	1 front, 2 internal, 2 rear				
Ears	HP Quick Release Ears				

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

HP Processors

Select one or two processors from Core options-Processor section below,

- If one processor is desired, select one xxxxx-L21
- If two processors are desired, select one xxxxx-L21 and one xxxxx-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.

HP Memory

-

Select one or more memory from Core options-Memory section below,

• LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM.



Configuration Information - Factory Integrated Models

HP Power Supplies	 HP memory from previous generation servers are not qualified or warranted with this HP ProLiant Server. HP 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. Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient. Depending on the memory configuration and processor model, the memory speed may run at 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: www.hp.com/go/ddr4memory-configurator
	 Prior to selecting a power supply option, it is highly recommended that you review your conver configuration in the HD Power Advisor tool to determine the right size power supply
	server configuration in the HP Power Advisor tool to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor .
	• 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
HP 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.
HP I/O Expansion Options	Select one or more Riser Kit options from Core options section below.
	 To take advantage of the additional PCI slot upgrade, the second processor must be installed. This section may contain FIO options, please see HP I/O Expansion Options section below. FIO indicates that this option is only available as a factory installable option.
HP Drives	Select one or more drives from Core options-HP 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 HP 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 HP Qualified
	Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove".
HP Flexible LOM	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: www.hp.com/go/ProLiantNICs
HP Networking	Select a standup NIC adapter from Core options-Networking section below,
	Please see the QuickSpecs for Technical Specifications and additional information:



Configuration Information - Factory Integrated Models

www.hp.com/go/ProLiantNICs

- 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.

HP 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 HP Storage Controllers section below. • FIO indicates that this option is only available as a factory installable option. **HP Graphics Options** Select one or more graphics adapter from Additional options section below. Please see the HP Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor This section may contain FIO options, please see HP Computation & Graphics Accelerators section below. **HP Cooling Options** Select one or more Fan Kits from Core options section below. This section may contain FIO options, please see HP Cooling Options section below. FIO indicates that this option is only available as a factory installable option. **HP 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 HP Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.

CAUTION: HP 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.



Core Options

NOTE: Some options may not be integrated at the factory. To ensure only valid configurations are ordered. HP recommends the use of an HP approved configurator. Contact your local sales representative for additional information. HP DL380 Gen9 Universal Media Bay Kit **HP Unique Options** 724865-B21 **NOTE:** HP DL380 Gen9 Universal Media bay provides front VGA and 2xUSB 3.0; 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 plus 6 cables to enable GPU support. Other limitations apply, see Graphic section for more details. HP DL380 Gen9 High Performance Temperature Fan Kit 719079-B21 **NOTE:** This kit is required for specific Ambient temperature environments, more details here: www.hp.com/go/proliant/Ashrae. **NOTE:** This kit is also required to support Passive GPUs. 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. HP DL380 Gen9 3LFF Rear SAS/SATA Kit 768856-B21 NOTE: This is only supported in the 12LFF chassis (719061-B21). **NOTE:** 3LFF rear drives will consume the 2nd riser expansion slot. 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 HP 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. 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 Processors** Entry Processors - E5-2600v3 series Processors HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO 719053-L21 Processor Kit



KitYearHP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO7'Processor KitHP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor71KitBase Processors - E5-2600v3 series Processors71HP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO7'Processor KitHP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) ProcessorHP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor71KitHP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO7'Processor KitHP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor77KitHP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor71HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO7'Processor KitHP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor71HP DL380 Gen9 Intel® Xeon® E5-2630v3 (1.8GHz/8-core/20MB/85W) FIO7'Processor KitHP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO7'Processor KitHP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/4-core/15MB/135W) FIO7'Processor KitHP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO7'Processor KitShips with a High Performance Heatsink1HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO7'Processor KitShips with a High Performance Heatsink7'HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO7'	719053-B21 719052-L21 719052-B21 719051-L21 719051-B21 779556-L21 779556-B21 719050-L21 719050-L21 719060-L21 719060-B21 719068-L21
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Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor 71	
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	'19049-B21
Performance Processors - E5-2600v3 series Processors	
	719057-L21
Ships with a High Performance Heatsink	
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Processor Kit Ships with a High Performance Heatsink	19091-021
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Processor Kit	719048-L21
HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) 71 Processor Kit	'19048-B21
HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO 71 Processor Kit	719059-L21
HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) 71 Processor Kit	'19059-B21



HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	762764-L21
HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	762764-B21
HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit	719056-L21
Ships with a High Performance Heatsink HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W)	719056-B21
Processor Kit Ships with a High Performance Heatsink	110000 221
HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) FIO	719046-L21
Processor Kit Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor Kit	719046-B21
Ships with a High Performance Heatsink	700700 / 04
HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	762766-L21
Ships with a High Performance Heatsink HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W)	762766-B21
Processor Kit Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit	719055-L21
Ships with a High Performance Heatsink HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor	719055-B21
Kit Ships with a High Performance Heatsink	719055-621
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO	719044-L21
Processor Kit Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit	719044-B21
Ships with a High Performance Heatsink HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO	762760-L21
Processor Kit Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W)	762760-B21
Processor Kit Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit	719054-L21
Ships with a High Performance Heatsink HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W)	719054-B21
Processor Kit Ships with a High Performance Heatsink	
HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit	781913-L21
Ships with a High Performance Heatsink	



	HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit	781913-B21
	Ships with a High Performance Heatsink	
	HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit	781915-L21
	Ships with a High Performance Heatsink	
	HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit Ships with a High Performance Heatsink	781915-B21
	HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit	762768-L21
	HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit	762768-B21
	NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations include two processors.	
	NOTE: HT indicates that the processor model supports Intel® Hyper-Threading Technology.	
	NOTE: Turbo2: Intel® Turbo Boost Technology 2.0 provides more computing power when you need it with performance that adapts to spikes in your workload and delivers more performance upside than then previous generation turbo technology.	
	NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed. NOTE: The xxxxx-L21 is the first processor shipped, the xxxxx-B21 is the 2nd processor and ships with 2 additional FANs for factory of field installation.	
	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 Memory	Registered DIMMs (RDIMMs) for E5-2600v3 Series	
	NOTE: The following memory is supported by the E5-2600v3 series Processors.	
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
	NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz.	
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series NOTE: The following memory is supported by the E5-2600v3 series Processors.	
	HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz.	726722-B21



Core Options		
HP Optical Drives	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive NOTE: The Universal Media Bay (724865-B21) is required for this option.	726536-B21
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive NOTE: The Universal Media Bay (724865-B21) is required for this option.	726537-B21
	HP Mobile USB Non Leaded System DVD RW Drive	701498-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
	HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
	HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
	HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
	HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
	HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-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	
	HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
	HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-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	
	HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
	HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
	HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
	HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
	SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
	HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	655710-B21
	HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
	HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21

HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Driv	e 695510-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Dr	ive 628061-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Dr	ive 658079-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Dr	ive 657750-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard	Drive 658071-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Performance Solid State D	Drives
HP 800GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance Wty Solid State Drive	e 3yr 741159-B21
HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance Wty Solid State Drive	e 3yr 741155-B21
HP 200GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance Wty Solid State Drive	e 3yr 741151-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Dr	ives
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741146-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741142-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741138-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 V Solid State Drive	Vty 762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Solid State Drive	Wty 762261-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 W Solid State Drive	/ty 762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr V Solid State Drive	Nty 762270-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Dr	rives
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691868-B21
HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691866-B21
HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691864-B21
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Solid State Drive	Wty 717973-B21
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Solid State Drive	Wty 739898-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Solid State Drive	Wty 717971-B21



Core Options

HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739888-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717969-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive	717965-B21
HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734360-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691860-B21
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	739900-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718183-B21
HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	739890-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718177-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	718171-B21
HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734362-B21
Hard Drive Blank Kits	
HP Large Form Factor Hard Drive Blank Kit	666986-B21
HP Small Form Factor Hard Drive Blank Kit	666987-B21
Hard Drive Kits	
HP 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	768856-B21
NOTE: East a second to list of the drive. Or stalling and asking a first should be	

NOTE: For a complete list of the drive, Controller and cable options please check the compatibility matrix:

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA5-4154ENW&cc=us&lc=en. Media Bay Kits

Core Options		
	HP DL380 Gen9 Universal Media Bay Kit NOTE: The Universal Media Bay offers front VGA and 2xUSB 3.0, 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
HP Networking	1 Gigabit Ethernet adapters	
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B2 ²
	HP Ethernet 1Gb 4-port 366FLR FIO Adapter	684217-B2 ²
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	10 Gigabit Ethernet adapters	
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B2
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B2
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B2
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B2
	HP Ethernet 10Gb 2-port 570SFP+ Adapter	718904-B2 ⁻
	HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B2
	HP StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06/
	NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each ac NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and c optic environments must be purchased separately. Please see the related NIC Quick Technical Specifications and additional information: www.hp.com/go/ProLiantNICs.	ables for fiber-
	FlexibleLOM Adapters	
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B2
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B2 ²
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B2
	HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B2 ²
	 NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded. NOTE: Only one FlexibleLOM can be added to the server. These options are upgrade be changed from the original configuration after the server is shipped. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and coptic environments must be purchased separately. Please see the related NIC Quick Technical Specifications and additional information: www.hp.com/go/ProLiantNICs. 	ables for fiber-
HP InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter NOTE: The RHEL6.5 driver is not part of SPP, but may be downloaded here: http://downloads.linux.hp.com/SDR/downloads/MLNX_OFED/.	702211-B2



Core Options		
HP I/O Expansion Options	HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit NOTE: This is for slot 1 and supports double wide GPGPUs Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL.	719076-B21
	HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit NOTE: This is for slot 2 and supports double wide GPGPUs Slot2: 2x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL. NOTE: To support Graphics cards please also order the DL380 Gen9 Graphics Enablement kit, 719082-B21 that ships with 2 Performance Heatsinks and 6 Performance Fans. 1 kit needed for a 2P unit.	719073-B21
HP Power Supplies	NOTE: All power supplies must be of the same input voltage, output rating, and effici non-matching power supplies are installed, you may receive an error message and/or operational issues with your server. NOTE: Prior to selecting a power supply option, it is highly recommended that you reserver configuration in the HP Power Advisor tool to determine the right size power supply	r experience eview your
	server configuration. The HP Power Advisor is located at: www.hp.com/go/hppowerac	
	HP Flex Slot Platinum Hot-plug Power supplies	
	HP 500W Flex Slot Platinum Hot Plug Power Supply Kit	720478-B21
	HP 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
	HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit NOTE: The above power supply options are all 80Plus Platinum-certified with an effic	720620-B21
	up to 94%. Support for HP Power Discovery Services is included with the 1400W Fle Power specifications and technical content for all HP Server power supplies can be for www.hp.com/go/proliant/powersupply. NOTE: Maximum of 2 Flex Slot PS per platform	
HP Computation and Graphics Accelerators	HP DL380 Gen9 Graphics Enablement Kit NOTE: This GPU enablement kit includes 2 Heatsinks and 6 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. 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 Ambient Temperature Fan Kit (719079-B21).	719082-B21
	NVIDIA GRID K2 Reverse Air Flow Dual GPU PCIe Graphics Accelerator NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card. 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 Ambient Temperature Fan Kit (719079-B21).	753958-B21
	NVIDIA Tesla K40C 12GB Computational Accelerator 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.	753960-B21

Core Options		
	HP NVIDIA Quadro K2200 Graphics Accelerator 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.	J0G89A
	HP NVIDIA Quadro K4200 Graphics Accelerator 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.	J0G90A
	 NVIDIA Quadro K6000 PCI-E Graphics Adapter 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. 	730874-B21
	HP 150W PCI-E Power Cable Kit NOTE: Each DL380 Gen9 server will accommodate up to three single-width or two de PCIe cards for Computational Graphics support. NOTE: The NVIDIA Tesla, GRID and Quadro modules are supported only on 64-bit ve Linux and Windows operating systems as well as on Virtual Machine client operatin supported bare metal operating systems are RHEL6, SLES 11 and Windows Server NOTE: There are limitations on fan types, setting, and chassis support by card. NOTE: Mixing of GPUs is not supported.	ersions of g systems. The
HP Cooling Options	HP DL380 Gen9 High Performance Temperature Fan Kit NOTE: High Performance Temperature 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 Temperature Fan Kit is needed to support certain Passive GPGPU (Graphics cards) configurations; or ASHRAE operating environments. NOTE: For elevated ambient temperature support please see: www.hp.com/servers/ASHRAE.	719079-B21



Additional Options

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

HP Insight software	HP Insight Control	
	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A
	HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28ABE
	HP Insight Control Server Provisioning Media Kit	BD883A
	 HP 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 HP Software Technical Support and Update Service. NOTE: Licenses ship without media. The HP 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 QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html. 	C6N31A
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License	C6N36ABE
Embedded Managem	entHP iLO Advanced	
	HP iLO Advanced Electronic License with 3yr 24x7 Tech Support and Updates	BD506AAE
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single	512485-B21

HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates

HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU

HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU

HP iLO Advanced including 1yr 24x7 Technical Support and Updates Electronic

Server License

License

BD505A

E6U59ABE

E6U64ABE

TA850AAE

Additional Options				
HP High Performance	HP Cluster Management Utility			
Clusters	HP Insight Cluster Management Utility 1yr 24x7 Flexible License	QL803B		
	HP Insight Cluster Management Utility 3yr 24x7 Flexible License BD476A	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.			
	HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at:	BD477A		
	http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.html			
HP Security	HP 2U Security Bezel Kit	666988-B21		
	HP Trusted Platform Module Option	488069-B21		
	NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can secure used to authenticate the server platform. These artifacts can include passwords, cer encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data prote available in Windows Server® 2008. BitLocker leverages the enhanced security cap Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help p and to ensure that a server running Windows Server 2008 has not been tampered w system was offline. For more information about TPM, including a white paper, go to www.hp.com/go/TPM. NOTE: ProLiant OS pre-installed units will come with the partition required for TPM NOTE: The TPM key is unique to every TPM deployed server and must be retained. losing the key could result in data loss.	rtificates and ection feature abilities of a protect user data ith while the deployment.		
HP Storage Controllers				
	HP Flexible Smart Array Controllers	706706 004		
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Includes the HP Smart Storage Battery.	726736-B21		
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller NOTE: Includes the HP Smart Storage Battery.	749974-B21		
	HP H240ar 12Gb 1-port Int Smart Host Bus Adapter	726757-B21		
	HP H240ar 12Gb 1-port Int FIO Smart Host Bus Adapter	749976-B21		
	HP Smart Array Controllers			
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21		
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726897-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		
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller	761874-B21		
	HP Cable Options			
	HP DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit	783007-B21		

HP DL380 Gen9 2SFF Front SAS x4 Cable Kit **NOTE:** For front mount 2SFF to H240/P440ar, H240 or embedded B140i SATA.



NOTE: 12LFF port 3 to 2SFF or 3LFF to P440/840 PCIe.

783008-B21

Additional Options

	HP DL380 Gen9 8SFF SAS Cable Kit NOTE: 8/16/24 SFF to P840/440 bay 3.	783009-B21
	HP DL380 Gen9 2SFF x8 Front Cable Kit NOTE: For front/rear mount 2SFF to P440/840 PCIe).	785989-B21
	HP DL380 Gen9 12LFF SAS Cable Kit NOTE: For 12LFF to P440/840 PCIe cables- ports 1/2/3.	785991-B21
	HP DL380 Gen9 8SFF H240 Cable Kit NOTE: 8/16/24SFF to 240/440ar, H240 PCIe or embedded B140i SATA.	786092-B21
	HP DL380 Gen9 12LFF H240 SAS Cable Kit NOTE: For 12LFF ports 1&2 to H240/P440ar, H240 or embedded B140i SATA. NOTE: For details on cabling options, additional information available here: Cabling Matrix	786215-B21
	Optional Upgrades	
	HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers NOTE: Provides backup power for multiple HP Smart Array controllers or other devices (up to 16). NOTE: Ships as standard with some HP Flexible Smart Array Controllers	727258-B21
	HP 12Gb SAS Expander Card with Cables for DL380 Gen9	727250-B21
HP 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 HP tape ba see: www.hp.com/storage/SPOCK and www.hp.com/go/ebs.	
	Tape Drives	
	HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
	HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader	C0H19A
	HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	C0L99A
	HP StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
	HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	EH946C
	HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
	HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	EJ014B
	HP StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
	HP StoreEver LTO-5 Ultrium 3280 SAS Tape Drive in 3U Rack-mount	EJ013B
	HP StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
	HP StoreEver 1U SAS Rack-mount Kit	AE459B
	HP StoreEver LTO-4 Ultrium 1760 SCSI External Tape Drive	EH922B
	HP Tape Storage Systems	
	HP StoreEver MSL6480	
	HP StoreEver MSL6480 Scalable Expansion Module NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14604_div/14604_div.html (Worldwide).	QU626A
	HP StoreEver MSL6480 Scalable Base Module	QU625A
	HP MSL2024 0-Drive Tape Library	AK379A
	HP MSL4048 0-Drive Tape Library	AK381A
	HP MSL Library Extender Kit	AQ746A



Additional Options

HP Storage Options	NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows Server 2003 and Linux, please see: http://h18006.www1.hp.com/storage/saninfrastructure/hba.html.			
	Emulex Fibre Channel HBAs			
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B		
	HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B		
	HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A		
	HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A		
	QLogic Fibre Channel HBAs			
	HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A		
	HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A		
	HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A		
	HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A		
	Converged Network Adapter			
	HP StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A		
HP 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		
HP Data Center Racks	HP 11000 G2 Series Racks			
	HP 11648 1075mm Pallet Universal Rack	H6J87A		
	HP 11648 1075mm Shock Universal Rack	H6J88A		
	HP 11642 1075mm Pallet Universal Rack	H6J65A		
	HP 11642 1075mm Shock Universal Rack	H6J66A		
	HP 11642 1200mm Pallet Universal Rack	H6J67A		
	HP 11642 1200mm Shock Universal Rack	H6J68A		
	HP 11636 1075mm Pallet Universal Rack	H6J77A		
	HP 11636 1075mm Shock Universal Rack	H6J78A		
	HP 11622 G2 1075mm Pallet Universal Rack	H6J83A		
	HP 11622 G2 1075mm Shock Universal Rack	H6J84A		
	HP 11614 1075mm Shock Universal Rack	H6J82A		
	NOTE: Please see the HP 11000 G2 Series Racks QuickSpec for information on ac options and rack specifications.	ditional racks		
	HP Intelligent Series Racks			
	HP 647 1075mm Pallet Intelligent Series Rack	BW911A		
	HP 647 1075mm Shock Intelligent Series Rack	BW912A		



Additional Options

	HP 647 1200mm Pallet Intelligent Series Rack	BW913A
	HP 647 1200mm Shock Intelligent Series Rack	BW914A
	HP 642 1075mm Pallet Intelligent Series Rack	BW903A
	HP 642 1075mm Shock Intelligent Series Rack	BW904A
	HP 642 1200mm Pallet Intelligent Series Rack	BW907A
	HP 642 1200mm Shock Intelligent Series Rack	BW908A
	HP 636 1075mm Pallet Intelligent Series Rack	BW895A
	HP 636 1075mm Shock Intelligent Series Rack	BW896A
	HP 842 1075mm Pallet Intelligent Series Rack	BW917A
	HP 842 1075mm Shock Intelligent Series Rack	BW918A
	NOTE: Please see the HP Intelligent Series Racks QuickSpecs for information options and rack specifications.	on additional racks
	HP Value Series Rack	
	HP V142 1075mm deep Pallet 100 series Rack	AF046A
	NOTE: Please see the HP Value Series Rack QuickSpecs for information on ad options and rack specifications.	ditional racks
	HP Basic Power Distribution Unit (bPDU)	
Units (PDUs)	HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D74
	HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D75
	HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit	252663-B33
	HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit	AF511A
	HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit	AF518A
	HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56A
	HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU	H5M58A
	HP 7.3kVA 230 Volt IEC309 32A Input (20xC13) INTL Basic PDU	H5M68A
	HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70A
	NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please vi website at www.hp.com/go/pdu.	sit the HP
	HP Monitored Power Distribution Units (mPDU)	
	HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43A
	HP 3 6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45A

HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43A
HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45A
HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU	D9N47A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU	D9N48A
HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU	D9N50A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU	D9N55A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N57A
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU	D9N59A
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N56A



Additional Options

HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU	D9N60A
NOTE: Please see the HP Monitored Power Distribution Units QuickSpecs for information additional options and product specifications.	n on
HP Intelligent Power Distribution Units (iPDU	
HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF520A
HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF521A
HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF522A
HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF523A
HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF535A
HP 4.9kVA 24A Single Phase NA/JP Intelligent Modular Power Distribution Kit	AF531A
HP 8.6kVA 24A Three Phase NA/JP Intelligent Modular Power Distribution Kit	AF532A
HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525A
HP 7.3kVA 32A Single Phase INTL Intelligent Modular Power Distribution Kit	AF534A
NOTE: Disease and the UD Intelligent Device Distribution Units OvickOneses for information	

NOTE: Please see the HP Intelligent Power Distribution Units QuickSpecs for information on additional options and product specifications.

HP Rack Mount HP Rack Mount Consoles Consoles, KVM HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor AZ870A Switches, and HP TFT7600 G2 KVM Console Rackmount Keyboard Intl Monitor AZ884A **Keyboards** NOTE: Please see the HP Rack Console QuickSpecs for information on additional options and product specifications. **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:** HP 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



Additional Options		
	HP 2U Small Form Factor Ball Bearing Rail Kit NOTE: Does not include CMA (720865-B21) .	720863-B21
	HP 2U Large Form Factor Ball Bearing Rail Kit NOTE: Does not include CMA (720865-B21).	720864-B21
	HP 2U Cable Management Arm for Ball Bearing Rail Kit	720865-B21
	HP KVM Switches 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 Server Console 0x2x8 Port Analog Switch	AF616A
	HP Server Console 0x2x16 Port Analog Switch	AF617A
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 1x4 USB/PS2 KVM Console Switch NOTE: To learn more, please visit the HP KVM Switches web page.	AF611A
	HP USB Keyboard and Mouse	
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
	HP USB BFR with PVC Free Intl Keyboard/Mouse Kit NOTE: Please see the HP USB Keyboard and Mouse QuickSpecs for information on additional options and product specifications.	672097-B33
	HP 1U Rackmount Keyboard with USB	
	HP 1U US Rackmount Keyboard with USB	AG072A
	HP 1U INT Rackmount Keyboard with USB NOTE: Please see the HP 1U Rackmount Keyboard QuickSpecs for information on additional options and product specifications.	AG086A
HP Uninterruptible	HP Rack-mountable UPS	
Power Systems (UPS)	HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A
	HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System	AF468A
	HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
	HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
	NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page.	



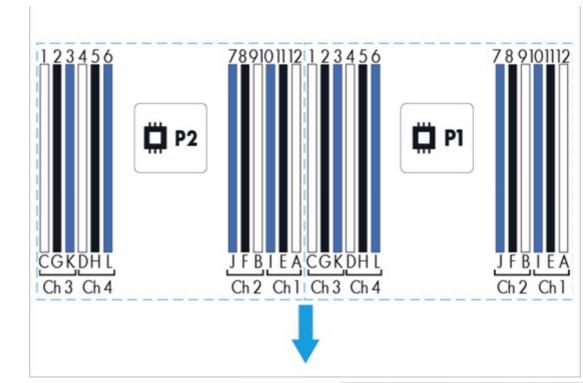
Memory

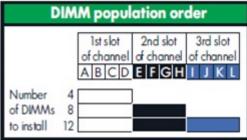
guidelines

Memory Subsystem Architecture

Memory Population

Each Intel® Xeon® E5-2600v3 family processor socket contains four memory channels per installed processor with three DIMMs per channel for a total of twelve (12) DIMMs or a grand total of twenty-four (24) DIMMs for the server.





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.



Memory

- 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.
- HP memory from previous generation servers is not compatible with the DL380 Gen9 Server. Certain HP SmartMemory features such as memory authentication and enhanced performance may not be supported.
- To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html (Worldwide).
- For memory population rules and additional memory guidelines, please see the DL380 Gen9 user guide at http://www.hp.com/support.
- There are four (4) Memory channels per processor; eight (8) channels per 2 processor server.
- There are three (3) DIMM slots for each memory channel; twenty four (24) total slots for 2 processor server.
- Memory channels1 and 3 consists of the three (3) DIMMs that are furthest from the processor.
- Memory channel 2 and 4 consists of the three (3) DIMMs that are closest to the processor.

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

Memory Bandwidth and Capacity					
[DIMM Type]	Registered DII	MMS (RDIMMs)	Load Reduced (LRDIMMs)		
DIMM Rank	Single Rank	Single Rank Quad Rank Quad Rank			
DIMM Capacity	8GB 16GB 32GB				
Voltage		Std Voltage 1.2V			
SLOTS THAT CAN BE POPULATED					
24 slot servers	24				
MAXIMUM CAPACITY (GB)*					
	192 384 768				
1 DIMM Per Channel	er Channel 2133				
2 DIMM Per Channel	2133				
3 DIMM Per Channel	1600 1600 1600				



Standard Memory

Maximum Memory

Memory

Standard and

Memory Speed by Processor Model	Processor Models E5-2603v3, E5-2609v3,	Supported Memory Speeds 1600MHz
	E5-2620v3, E5-2623v3, E5-2630v3, E5- 2630Lv3, E5-2640v3,	1866MHz
	E5-2637v3, E5-2643v3, E5-2650v3, E5- 2650Lv3, E5-2660v3, E5-2667v3, E5-2670v3, E5-2680v3, E5-2683v3, E5-2690v3, E5-2695v3, E5-2697v3, E5-2698v3, E5-2699v3, E5- 2687Wv3,	2133MHz

Maximum Memory Models Plus Optional Memory Replaced with Capacity (Pre-Optional Memory configured Models) E5-2609v3, 8GB (1x8GB) 376GB (23x16GB, 768GB (24x32GB) 1x8GB) 16GB (1x16GB) 384GB (23x16GB, E5-2620v3, 768GB (24x32GB) 1x16GB) 384GB (22x16GB, E5-2650v3, 32GB (2x16GB) 768GB (24x32GB) 2x16GB)

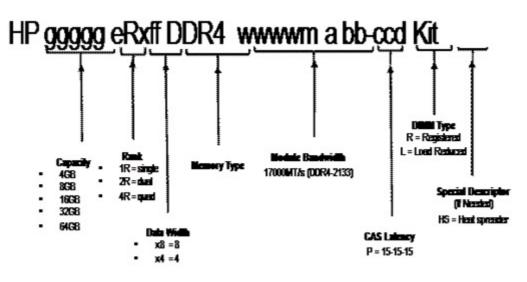
Standard Memory

DDR4 memory options part number decoder

NOTE: Capacity references are rounded to the common Gigabyte values.

Pre-Configured

- 2GB = 2,048MB
- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



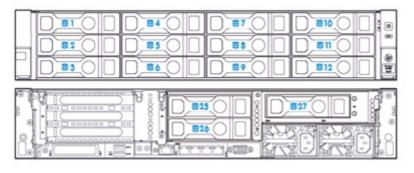


Storage

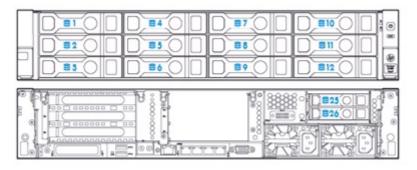
4LFF hot-plug drive model

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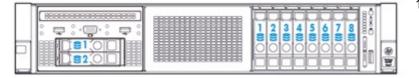
12 LFF + 3 rear LFF hot-plug drive model



12 LFF + 2 rear SFF hot-plug drive model



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



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



- 1-8 8 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays
- 1-2 2 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- 1-16 16 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays
- 1-2 2 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays



1-4 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays

- 1-12 12 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
- 25-27 3 x LFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays

Storage

24 SFF + rear 2 SFF hot-plug drive model

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 2 3 4 5 6 7 8 9 10 11 12 13 14 15 2 3 4 5 6 7 8 9 10 11 12 13 14 15 2 3 8	16 17 18 19 20 21 22 23 24 16 17 18 19 20 21 22 23 24 16 17 18 19 20 21 22 23 24 16 17 18 19 20 21 22 23 24 17 18 19 20 21 22 23 24 10

- 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



Technical Specifications

System Unit	Dimensions	SFF Drives: 3.44 x 17.54	x 26.75 in (8.73 x 44.55 x 67.94 cm)
		LFF Drives: 3.44 x 17.54 NOTE: Dimensions witho	x 28.75 in (8.73 x 44.55 x 73.02 cm) out Bezel
	Weight (approximate)	Maximum: (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)
		Minimum: (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 (per power supply)	Range Line Voltage	100 to 120 VAC 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	Rated Steady-State Power	For 1400W Power Supply: 1400W (at 100 VAC), 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 100 to 127 VAC), 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



Technical Specifications

	Extended Ambient Operating Support	number of options installed. For approved hardware configurations, the supported system inlet range is extended to be: 35° to 40°C (41° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: www.hp.com/go/proliant/Ashrae For approved hardware configurations, the supported system inlet range is extended to be: 5° to 45°C (41° 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: www.hp.com/go/proliant/Ashrae
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity (non-condensing)	Operating	Minimum to be the higher (more moisture) of - 12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) 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 bystan (LpAm) when the produc Noise emissions were m	A-Weighted sound power levels (LWAd) and oder position A-Weighted sound pressure levels of is operating in a 23°C ambient environment. neasured in accordance with ISO 7779 (ECMA ordance with ISO 9296 (ECMA 109).
	LWAd	4.0 B Entry LFF 4.1 B Entry 4.2 B Base 5.7 B Base LFF 4.3 B Perf



Technical Specificat	ions			
		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	
	Emissions Classification (EMC)	NOTE: The Listed sound levels apply to standard shipping configurations (Entry LFF, Entry, Base, Base LFF and Performance models) Additional options may result in increased sound levels. The Base LFF model leverages our High Efficiency Fans, other models are shipping with standard fan options.		
		FCC Rating	Class A	
		Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1	
		sample (type) testing, e	mance to cited product specifications is based on evaluation, or assessment. This product or family o bear the appropriate compliance logos and	
			nd levels apply to standard shipping nal options may result in increased sound levels.	
HP Dynamic Smart	Number of PCI links	Four		
Array B140i Controller	PCI link rate	4 Gb/s		

P Dynamic Smart	Number of PCI links	Four
rray B140i Controller	PCI link rate	4 Gb/s
	Storage protocol support	SATA
	SAS/SATA peak data transfer rate	6 Gb/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	HP SSA, SMH, SIM
	Warranty	Server warranty



Technical Specifications				
	HP Secure Encryption license	Not Supported		
	HP SmartCache License	Not Supported		
	HP Smart Storage Administrator	Supported		
HP Ethernet 1Gb 4-port 331i Adapter	Network Interface Compatibility	10Base-T/100Base-TX/1000Base-TX IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX		
	Ports			
	Data Transfer Method Controller	PCI Express, two lanes BCM5719	(x2)	
		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	
	Network Transfer Rate	,	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)	1000Mb/s per port, 4000 Mb/s combined	
		1000Base-TX (Full- Duplex)	2000Mb/s per port, 8000 Mb/s combined	
	Connector	Four RJ-45		
	Cable Support	10 Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)	
		10/100/1000 Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)	
Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.		



Summary of Changes

Date	Version History	Action	Description of Change
9/23/2014	From Version 1 to 2	Changed	Changes made throughout the QuickSpecs.



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

