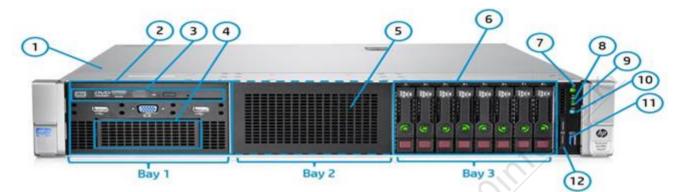
Overview

HP ProLiant DL380 Generation9 (Gen9)

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

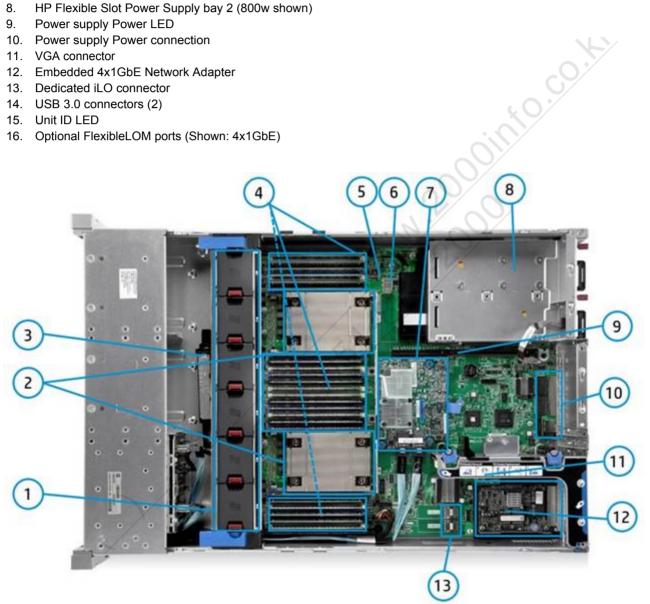


Rear view



Overview

- 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
- Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF 4. front end)
- HP Flexible Slot Power Supply bay 1 (800w shown) 5. NOTE: Optional Micro UPS option.
- 6. Power supply Power LED
- 7. Power supply Power connection
- HP Flexible Slot Power Supply bay 2 (800w shown) 8.
- 9. Power supply Power LED
- 10. Power supply Power connection
- 11. VGA connector
- 12. Embedded 4x1GbE Network Adapter
- 13. Dedicated iLO connector
- 14. USB 3.0 connectors (2)
- 15. Unit ID LED
- 16. Optional FlexibleLOM ports (Shown: 4x1GbE)



Internal View



Overview

- 1. Fan cage shown with 6 standard Hot-plug fans (High Performance fans optional)
- 2 Processors, heatsink showing, with HP Smart Socket 2. Guide
- 3. **Optional HP Smart Storage Battery**
- DDR4 DIMM slots. Shown fully populated in 24 slots (12 per 4. processor)
- 5. MicroSD card slot NOTE: Optional Dual MicroSD.
- 6. Internal USB 3.0 connector
- 7. Optional HP Flexible Smart Array or Smart HBA (H240ar shown)
- B 2000 MMN 2000 MMN 2000 (Under) Hot Plug redundant HP Flexible Slot Power supplies 8. NOTE: Optional Micro UPS option.
- 9. Connection for second (optional) riser (Required second CPU)
- 10. Embedded 4x1Gbe NIC
- 11. Primary PCIe riser, standard (Optional double wide GPU riser)
- 12. Optional Flexible LOM slot
- 13. X4 SATA ports (1 and 2)

What's New

- New larger capacity HDDs (up to 8TB LFF), Max capacity 120TB
- New higher capacity memory (64GB), Max capacity 1.5TB
- New Networking options



Standard Features

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

Processor Up to two of the	Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz	
following	E5-2699v3	2.3GHz	18	45MB	145W	9.6GT/s	2133	
depending on	E5-2698v3	2.3GHz	16	40MB	135W	9.6GT/s	2133	
nodel	E5-2697v3	2.6GHz	10	35MB	145W	9.6GT/s	2133	
	E5-2695v3	2.3GHz	14	35MB	120W	9.6GT/s	2133	
	E5-2690v3	2.6GHz	12	30MB	135W	9.6GT/s	2133	
	E5-2687Wv3	3.1GHz	12	25MB	160W	9.6GT/s	2133	
	E5-2683v3	2.0GHz	10	35MB	120W	9.6GT/s	2133	
	E5-2680v3	2.5GHz	12	30MB	120W	9.6GT/s	2133	
	E5-2670v3	2.3GHz	12	30MB	120W	9.6GT/s	2133	
	E5-2667v3	3.2GHz	8	20MB	135W	9.6GT/s	2133	
	E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133	
	E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133	
	E5-2650Lv3	1.8GHz	10	30MB	65W	9.6GT/s	2133	
	E5-2643v3	3.4GHz	6	20MB	135W	9.6GT/s	2133	
	E5-2640v3	2.6GHz	8	20MB	90W	9.0GT/s	1866	
-	E5-2637v3	3.5GHz	4	15MB	135W	9.6GT/s	2133	
	E5-2630v3	2.4Ghz	8	20MB	85W	8.0GT/s	1866	
	E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866	
	E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866	
	E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866	
	E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600	
	E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600	
	this Heatsink. For p	rocessors with	a standard					
hipset	this Heatsink. For p Enablement kit opt Intel®C610 S Intel®E5-2600 NOTE: For mo	orocessors with on is also requ eries Chipset Dv3 Processor F	a standard ired (7190 amily regarding	I Heatsink that 82-B21). Intel chipsets, p	require double		ds, the Graphics	
Dn System Management	this Heatsink. For p Enablement kit opti Intel®C610 S Intel®E5-2600 NOTE: For mo http://www.int	eries Chipset Dv3 Processor F Dre information el.com/products vare HP iLO4 2. SB user space	a standard ired (7190) amily regarding s/server/ch	d Heatsink that 82-B21), Intel chipsets, p ipsets/.	require double	e wide PCIe car	ds, the Graphics	
On System lanagement hipset lemory Dne of the follo	this Heatsink. For p Enablement kit opti Intel®C610 S Intel®E5-2600 NOTE: For mo http://www.int HP iLO (Firmw NOTE: 1GB U iLO QuickSpe Type: owing HP SmartMen	vare HP iLO4 2. SB user space	a standard ired (7190) amily regarding s/server/ch 0) 4GB NA configurab	d Heatsink that 82-B21). Intel chipsets, p ipsets/. AND le via UEFI and	require double	e wide PCIe car	ds, the Graphics	
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	this Heatsink. For p Enablement kit opti Intel®C610 S Intel®E5-2600 NOTE: For mo http://www.int HP iLO (Firmy NOTE: 1GB U iLO QuickSpe Type: DiLO QuickSpe Type: pwing HP SmartMen modelDDR4 Registe (LRDIMM) DIMM Slots A	eries Chipset Dv3 Processor F Dv3 Processor F Dre information el.com/products vare HP iLO4 2. SB user space cs.	a standard ired (7190) amily regarding s/server/ch 0) 4GB NA configurab	d Heatsink that 82-B21). Intel chipsets, p ipsets/. AND le via UEFI and duced 24	lease see the accessible vi (12 DIMM s processor, 3	e wide PCIe car e following URL: a iLO. Read and lots per process 3 DIMMs per cha	ds, the Graphics	
On System Management Chipset Memory Dne of the follo	this Heatsink. For p Enablement kit opt Intel®C610 S Intel®E5-2600 NOTE: For mo http://www.int HP iLO (Firmy NOTE: 1GB U iLO QuickSpe Type: owing HP SmartMen modelDDR4 Registe (LRDIMM)	rocessors with on is also requ eries Chipset Dv3 Processor F ore information el.com/products vare HP iLO4 2. SB user space cs. hory ered (RDIMM) c vailable pacity 1.5	a standard ired (7190) Family regarding s/server/ch 0) 4GB NA configurab	d Heatsink that 82-B21). Intel chipsets, p ipsets/. AND le via UEFI and	(12 DIMM s processor, 3 M @2133MHz	e wide PCIe car e following URL: a iLO. Read and lots per process 3 DIMMs per cha	ds, the Graphics	



Standard Features

Memory Protection Advanced ECC

Online spare

Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip. Memory online spare mode detects a rank that is degrading and switches 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	-	t, half-length slot	Proc 1
	2	PCIe 3.0	x8	x16	10	-	t, half-length slot	Proc 1
	3	PCIe 3.0	x8	x8	13	Half Lengt	h/Full Height	Proc 1
	number. ** Indicate	s the number	of physical	electrical lan	es running f	to the conne		-
						•	l, but an additional	Power Cord
		equired (PN 6						N
Slot 2 PCIe Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
(Optional 3-slot) 719073-B21	4	PCIe 3.0	x16	x16	16	Number	Full-height, full- length slot	Proc 2
	5	PCIe 3.0	x16	x16	20	~ 0	Full-height, full- length slot	Proc 2
	6	PCIe 3.0	x8	x8	23		Full-height, half- length slot	Proc 2
Slot 1 PCIe Riser	Option is re Expansion	slots support F equired (PN 66 Technology	69777-B21 Bus). See Optior Connector	Section be Bus	low for offeri Device	but an additional F ng. Form Factor	Power Cord Notes
(Optional 2-slot)	Slots #		Width	Width	Number	Number		
719076-B21	2	PCle 3.0	x16	x16	0x05		Full-height, full- length slot	Proc 1
	3	PCle 3.0	x8	x8	0x08		Full-height, half- length slot	Proc 1
		us assignmen	it (in decim	al). Inserting	cards with	PCI bridges	may alter the actua	al bus assignm
	NOTE: This NOTE: All	s the number of s will replace t slots support F equired (PN 60	he standar PCIe cards	d primary rise to 150W or r	er and supp	orts double ding on card	wide cards. I, but an additional	Power Cord
Storage Controller	** Indicates NOTE: This NOTE: All Option is re	s will replace t slots support f equired (PN 60	he standar PCIe cards 69777-B21	d primary rise to 150W or r	er and supp more depend n Section be	orts double ding on card low for offeri	wide cards. I, but an additional	Power Cord
One of the following	** Indicates NOTE: This NOTE: All Option is re Entry Mode NOTE: The	s will replace t slots support F equired (PN 66 els HP embedded B	he standar PCIe cards 69777-B21 Dynamic S 140i contro	d primary rise to 150W or r). See Optior Smart Array E oller will opera	er and supp nore depen- n Section be 3140i Contro ate in UEFI (orts double ding on card low for offeri oller only mode. F	wide cards. I, but an additional ng. For legacy support a	an
Storage Controller One of the following depending on mod	** Indicates NOTE: This NOTE: All Option is ro Entry Mode NOTE: The eladditional of	s will replace t slots support F equired (PN 66 els HP embedded B	he standar PCIe cards 69777-B21 Dynamic S 140i contro be needed,	d primary rise to 150W or r). See Optior Smart Array E oller will opera	er and supp nore depen- n Section be 3140i Contro ate in UEFI (orts double ding on card low for offeri oller only mode. F	wide cards. I, but an additional ng. For legacy support a	an
One of the following	** Indicates NOTE: This NOTE: All Option is re Entry Mode NOTE: The eladditional of settings pa NOTE: The only model	s will replace t slots support f equired (PN 6) els HP e embedded B controller will t rt, 758959-B2 B140i defaults s if required.	he standar PCIe cards 69777-B21 Dynamic S 140i contro pe needed, 2. s to AHCI c	d primary rise to 150W or r). See Option Smart Array E oller will opera and for CTC ff the chipset	er and supp more depend Section be 3140i Contro ate in UEFI () orders plea . Smart arra	orts double ding on card low for offeri oller only mode. F ase also sele	wide cards. I, but an additional ng. For legacy support a	an de
One of the following	** Indicates NOTE: This NOTE: All Option is re Entry Mode NOTE: The eladditional of settings pa NOTE: The only model	s will replace t slots support f equired (PN 60 els HP e embedded B controller will t rt, 758959-B2 B140i defaults s if required. e B140i will no	he standar PCIe cards 69777-B21 Dynamic \$ 140i contro be needed, 2. s to AHCI control t operate ir	d primary rise to 150W or r). See Option Smart Array E oller will opera and for CTC ff the chipset	er and supp more depend Section be 3140i Contro ate in UEFI () orders plea . Smart arra	orts double ding on card low for offeri oller only mode. F ase also sele by needs to b	wide cards. , but an additional ng. For legacy support a ect the Legacy mod	an de

Base Models HP Dynamic Smart Array B140i Controller

HP Flexible Smart Array P440ar/2G FIO Controller

HP Flexible Smart Array P840/4G FIO Controller

Performance Models HP Dynamic Smart Array B140i Controller

HP Flexible Smart Array P440ar/2GB



Standard Feat	ures					
Internal Storage Devices One of the following depending on mod		Ships standard in Performance Models Optional: DVD-ROM, DVD-RW None ship standard				
	Hard Drive Bays	 8 SFF with optional Universal Media bay or 8SFF bay options 24 SFF plus optional 2 SFF drives rear 12 LFF plus optional 3 LFF drives rear NOTE: The 3 LFF rear drives will consume space for the secondary riser. NOTE: The 12LFF chassis also supports 2SFF rear which allows for the second riser. 4 LFF drive bays total NOTE: The Universal Media Bay (724865-B21) not available with the LFF chassis or the 24SFF front end, and can only be populated in Bay1. NOTE: The 8SFF can be upgraded with a drive cage to 16 or 24 SFF with field upgrades. For optimal upgrade Bay2 should be populated second, with Bay 13 the last to be populated for a field upgrade to 24 SFF. NOTE: The 4LFF chassis cannot be upgraded to 12LFF in the field. NOTE: All Pre-configured Chassis come with an embedded 10-Port SATA controller. Optional HP Flexible Smart Array and Smart SAS HBA Controllers can be added. 				
Maximum Internal		CAPACITY				
Storage	Hot Plug SFF SAS Hot Plug SFF SATA Hot Plug LFF SAS Hot Plug LFF SATA Hot Plug SFF SAS S Hot Plug LFF SATA					
Power Supply	NOTE: Available in 9 HP 800W Flex Slot I NOTE: Available in 9 NOTE: Also available HP 1400W Flex Slot NOTE: Also available HP 1400W Flex Slot NOTE: Available in 9 HP Flexible Slot Bat NOTE: Flex Slot Bat HP Flexible Slot (Fle hot plug, tool-less in certified for high-effi power supply for spi energy costs, and an All pre-configured se cord is also included please check the Pr To review the power at http://www.hp.cor	Platinum Hot Plug Power Supply 4% and 96% efficiency. a in -48VDC and 227VAC/380VDC power inputs. Platinum Plus Hot Plug Power Supply 4% efficiency. ery Backup Unit Kits ery Backup provides 750W output and 500W in paralleled configuration. ex Slot) Power Supplies share a common electrical and physical design that allows for stallation into HP ProLiant Gen9 Performance Servers. Flex Slot power supplies are ciency operation and offer multiple power output options, allowing users to "right-size" a ecific server configurations. This flexibility helps to reduce power waste, lower overall void "trapped" power capacity in the data center. ervers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper I with each standard AC power supply option kit. If a different power cord is required, obliant Power Cables web page.				
	Power specification	and technical content for all HP Server power supplies can be found at o/proliant/powersupply.				

Standard Featu	ires						
System Fans One of the following depending on mode		Non-redundant	Redundant 6 fans processor option kit contains 2				
	NOTE: 1P models typically ship with 4 standard fans. The second processor option kit contains 2 additional fans.						
	NOTE: The 12LFF and 24SFF chassis ship with 6 High Performance fans as standard. NOTE: High Performance Fan Kit is available to meet ambient temperature environments.						
	NOTE: High Performance Fan Kit is required for Passive GPU support.						
	NOTE: The 8SFF Bay1 kit (71906	7-B21) will ship with 6 High efficie	ncy fans.				
nterfaces	Serial	Optional					
	Video	2 (1 front, optional via Universal not active simultaneously	Media Bay, 724865-B21), 1 back				
	FlexibleLOM Network Ports	4 x 1Gb ports shipping standard	d with optional FlexibleLOM				
	HP iLO Remote Management Network Port	1 Gb Dedicated	c.0.''				
	Micro SD Slot	1 Micro SD					
	NOTE: The Micro SD slot is not a card into the SD slot while the ser	hot-pluggable device. Customers	should not attempt to plug an SD				
	USB 3.0	Up to 5 total: 1 front, 2 rear, 2 ir 2.0 front via Universal Media Ba					
	SID (Systems Insight Display)	Optional	19				
		Available as a CTO option or as a	a field upgrade (768900-B21).				
Operating Systems	Microsoft Windows Server	1.	Ø/				
and Virtualization	Canonical Ubuntu	142					
Software Support	Red Hat Enterprise Linux (RHEL)						
for ProLiant Servers	SUSE Linux Enterprise Server (SL	LES)					
	Oracle Solaris VMware						
	Citrix XenServer						
	NOTE: For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hp.com/go/ossupport_and our driver download page: http://www.hp.com/support/DL380Gen9.						
Upgradeability	Upgradeable to two processors (,					
	NOTE: Processor upgrade available from Intel®Xeon®Processors E5-2600v3. Please contact HP Technology Sales (http://www.hp.com/support), your local HP Re-seller.						
	Up to 24 DIMM slots available for higher Memory capacity						
	FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options						
	HP Flexible Smart Array or Smart HBA Controllers						
	Embedded 10-Port SATA, B140i as standard						
	Optional 3 slot riser (x16, x16, x8), or 2 slot primary riser (x16, x8) NOTE: To take advantage of the additional 3 PCI slot upgrade, the second processor must be installed.						
7	Redundant Power Supply						
	Optical Drive supported via Univer	-					
			plus ability to add 2SFF and Optica ssis & can be populated in Bay1 onl				
	HP Legacy Mode (FIO only, 75895 NOTE: UEFI is the default mode for	59-B22) or CTO and BTO SKUs. Can chang	ge default to legacy via CTO.				
		-	-				

Standard Features

Standard Featu 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: The DL380 Gen9 is now one of the first HP ProLiant Gen9 Servers with Extended Ambient Support up to 45 C for data center infrastructures designed for better energy efficiency such as but not limited to fresh air cooling. For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: http://www.hp.com/servers/ASHRAE.
	UEFI (Unified Extensible Firmware Interface Forum) NOTE: UEFI is the default for the DL380 Gen9. Legacy model can be selected in the field or as a CTO option (758959-B22).
Graphics	Integrated Matrox G200eH2 video standard with 16MB of Video RAM 1280 x 1024 (32 bpp) 1920 x 1200 (16 bpp) HP iLO 4 On System Management Memory 16 MB Flash 256 MB DDR3 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 http://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 Legacy FIO Mode Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory.



Standard Features

Form Factor2U Rack form factorOne of the following8 SFF & 24SFF Drive Bay Version:depending on model3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm)4 LFF & 12LFF Drive Bay Version:3.44 x 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm)NOTE: Dimensions without bezel.

Embedded Management	HP Integrated Lights-Out (HP iLO)	Monitor your servers for ongoing management, service alerting, reporting and remote management with iLO. Learn more at http://www.hp.com/go/ilo.
	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at http://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 http://www.hp.com/go/restfulapi .
	Intelligent Provisioning	Provision servers by discovering and deploying 1 to few servers with Intelligent Provisioning. Learn more at http://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 http://www.hp.com/go/insightonline/info.
Server utilities	HP Smart Update	Optimize firmware and driver updates with HP Smart Update solutions. Learn more at http://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 http://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 http://www.hp.com/go/ProLiantSTK or http://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 http://www.hp.com/go/restfulapi.
	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: http://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 http://www.hp.com/go/insightonline/info.



Standard Features

Security	Power-on password Serial interface control Administrator's password UEFI iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption Integrated Lights-Out can be disabled via a Global Setting
	Integrated Lights-Out can be disabled via a Global Setting iLO Advanced supports directory services integration TPM 1.2

Warranty This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.



Optional Fe	eatur	es					
Embedded Management	ilo A	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 http://www.hp.com/go/iloadvanced				
Server Management	HP In	sight Control	HP Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hp.com/go/insightcontrol.				
	HP OneView Advanced HP Insight Cluster Management Utility (CMU)		HP OneView Advanced is converged management that eliminates infrastructure complexity with automation simplicity. This modern architecture is designed to accelerate your IT operations across servers, storage, and network resources using software-defined approaches and automation, see http://www.hp.com/go/oneview.				
			HP Insight Cluster Management Utility is a hyperscale- optimized management framework that includes software for the provisioning, control, performance management and monitoring of groups of nodes and infrastructure. Learn more at http://www.hp.com/go/cmu.				
Infrastructure existing or new protection and looking for to he changes in the provision infras the key concern		existing or new protection and looking for to h changes in the provision infras the key concer	Power Infrastructure products and services create highly efficient and intelligent solutions for IT data centers. HP Rack and Power infrastructure solutions – rack infrastructure, power management, performance optimized data centers (PODs) – are the foundation you are elp secure your long-term IT success. These products are designed to help you react to industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and structure from entry to enterprise. As an industry leader, HP is uniquely positioned to address ns of power, cooling, cable management and system access. HP Rack and Power Infrastructure.				
High Performa Clusters	ance	HP Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters op 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 Se as well as Microsoft Windows HPC Server. A Cluster Platform Configurator simplifies ordering.					
		NOTE: High P of the HP Clust supported by H	com/go/clusters. Performance Computing (HPC) interconnect technologies are available for this server as par ster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully HP when integrated within an HP cluster. Flexible, validated solutions can be defined with the uration tools. http://www.hp.com/techservers/clusters/ucp/index.html.				
HPC Interconr	nects	the HP Cluster they are part of help of configu	rformance Computing (HPC) interconnect technologies are available for this server under Platform product portfolio. These high-speed interconnects are fully supported by HP when i these configure to order clusters. Solutions can be defined with a lot of flexibility with the ration tools. Please visit the following URL to configure HPC Clusters with InfiniBand http://www.hp.com/techservers/clusters/ucp/index.html.				



Optional Features

Storage Software Whether you need to solve a specific data protection, archiving, or storage command and control 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. 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 http://www.hp.com/go/vsa1TB.

NOTE: For more information about Storage Software including QuickSpecs, please see: http://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.

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Service and Support

HP Technology Services

Jy 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.

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.

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Protect your business beyond warranty with HP Care Pack Services

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 recommendation	HP Proactive Care - 24x7 coverage, three year Care Pack Service 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.
\succ	HP ProLiant Hardware Installation Help ensure your new HP ProLiant hardware is installed smoothly, efficiently and with minimal disruption to

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 Data Center Platform Consulting 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. http://www.hp.com/services/consulting



Service and Support

Data Privacy Services

Protect your data through better media management. HP Data privacy services help manage and protect sensitive data. http://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 quickly. Includes collaborative call management for industry leading software; full software support may also be purchased, giving you one place to call for help. http://www.hp.com/services/foundationcare.

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

Parts and Materials herein 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.

	Entr	y Models	Base Models		
[SKU Number]	766342-B21	752686-B21	752688-B21	752687-B21	
Model Name	HP ProLiant DL380 Gen9 E5-2609v3 1P 8GB-R B140i 4LFF SATA 500W PS Entry Server	HP ProLiant DL380 Gen9 E5-2609v3 1P 8GB-R B140i 8SFF SATA 500W PS Entry Server	HP ProLiant DL380 Gen9 E5-2620v3 2.4GHz 6-core 1P 16GB-R P840ar/4GB 12LFF 2x800W PS Base Server	HP ProLiant DL380 Gen9 E5-2620v3 1P 16GB-R P440ar 8SFF 500W PS Base Server	
Processor	Intel®Xeo	n®E5-2609v3	Intel®Xeon®	E5-2620v3	
Number of Processors		8	One		
Memory	NOTE: With the E5-260	ered DIMMs, 2133 MHz) 9v3 this memory DIMM will te at 1600MHz.	NOTE: with the E5-2620v3 t	red DIMMs, 2133 MHz) this memory DIMM will only 1866MHz	
Network Controller		HP Embedded 1Gb E	thernet 4-port 331i Adapter		
Storage Controller	NOTE: Default is AHC	Smart Array B140i Cl off chipset, Smart Array bled on SATA model.	HP Flexible Smart Array P840/4G Controller	HP Flexible Smart Array P440ar/2GB	
Hard Drive	None s	hip 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 slo	ts (+3 PCI slots available wit	h upgrade option, second pro	ocessor required)	
Power Supply	(1) HP 500W Flex SI	ot Platinum Power Supply	(2) HP 800W Flex Slot Platinum Power Supply	(1) HP 500W Flex Slot Platinum Power Supply	
Fans	4 hot plug	fans, redundant	6 hot plug high performance fans, redundant	4 hot plug fans, redundant	
Management	iLO Management (st		ning (standard), iLO Advanced (optional), Insight Control OneView (optional)		
Form Factor		P Easy Install Rails		Install Rails with CMA	
Warranty	Server Warranty includ	es 3-Year Parts, 3-Year Labo	or, 3-Year Onsite support with	n next business day response	



Pre-configured Models

	Performance Models	High Performance Models			
[SKU Number]	752689-B21	803860-B21	803861-B21		
Model Name	HP ProLiant DL380 Gen9	HP ProLiant DL380 Gen9 E5-	HP ProLiant DL380 Gen9 E5-		
	E5-2650v3 2P 32GB-R	2690v3 2P 32GB P440ar 8SFF	2690v3 2P 32GB-R P440ar 8SFF		
	P440ar 8SFF 2x10Gb	2x10Gb 2x800W High Perf Server	2x10Gb 2x800W OneView Server		
	2x800W Perf Server				
Processor	Intel®Xeon®E5-2650v3	Intel®Xeon®	E5-2690v3		
Number of Processors		Тwo			
Memory		32GB (2x16GB Registered DIMMs, 21	33 MHz)		
Network Controller	HP	P Embedded 4x1Gb, plus 2x10Gb-T Fl	exible LOM		
Storage Controller		HP Flexible Smart Array P440ar/2	GB		
Hard Drive		None ship standard			
Internal Storage		8 SFF HDD Bays	-O7		
Optical Drive Bay	Optional Universa	I Media Bay (724865-B21)	Optional via Universal Media Bay		
Optical Drive		HP Half-Height SATA DVD-RW Optica	al Drive		
PCI-Express Slots	6 PC	Cle slots (includes second riser slot u	ograde option)		
Power Supply		(2) HP 800W Flex Slot Platinum Powe	r Supply		
Fans	6 hot plug fans, redundant	6 hot plug high perform	nance fans, redundant		
Management	iLO Management (standard iLO Advanced (stand	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HP OneView Advanced (Standard)			
Energy Star		Meets Energy Star requiremen	ts		
Form Factor		Rack (2U), HP Easy Install Rails with	h CMA		
Warranty	Server Warranty includes 3	3-Year Parts, 3-Year Labor, 3-Year Or response	site support with next business day		

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

Country Code Keyxx1 = B21WorldwideNOTE: The -B21 WWSKU is to be ordered in all countries other than Japan or PRC.xx1 = 291Japanxx1 = AA1PRC



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, I 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 w 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	HP ProLiant DL380	HP ProLiant DL380	HP ProLiant DL380		
	Gen9 8SFF Configure-	Gen9 24SFF Configure-	Gen9 4LFF Configure-	Gen9 12LFF Configure-		
	to-order Server	to-order Server	to-order Server	to-order Server		
SKU Number	719064-B21	767032-B21	767033-B21	719061-B21		
Processor		2 (optional) x HP	Smart Socket Guide 🛛 🆕	0/		
DIMMSIots		24 DIMM slots for RDIMM	A, LRDIMM DDR4 Memory			
Storage	HP Dynamic Smar	t Array B140i, plus optional	HP Flexible Smart Array or	Smart HBA controller		
Controller						
PCle	3 PCIe slots (+3 PCI slots available with	upgrade option, second pr	ocessor required)		
Drive Cage	8SFF Hot Plug	24SFF Hot Plug	4LFF Hot Plug	12LFF Hot Plug		
Network Controller	HP Embedded 1Gb	Ethernet 4-port 331i Adapte	er, plus optional HP Flexible	e LOM or stand up card		
Fans	4 hot plug fans, redundant	6 hot plug high performance fans, redundant	4 hot plug fans, redundant	6 hot plug high performance fans, redundant		
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Contro (optional), HP OneView (optional)					
USB	1 front, 2 in	iternal, 2 rear	No front U	SB support		
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 xxxxxx-L21
	 If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.
	 Up to 2 processors supported. Mixing different processor models is not supported.
	• DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend
	on the quantity and type of DIMMs installed.
	For the Intel®C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product
	Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 =
	Processor SKU, x = L for low power SKUs and v# (not yet designated) = version number.
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.
	• 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 Efficien Features, see: http://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: http://www.hp.com/go/ddr4config.



Configuration Information - Factory Integrated Models

HP Power Supplies Select one or more power supplies from Core Options-Power Supplies section below:

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

Step 3: Choose Additional Factory Integratable Options

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** Select one or more Riser Kit options from Core options section below. Options To take advantage of the additional PCI slot upgrade, the second processor must be installed. This section may contain FIO options, please see 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: . http://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: . http://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** Select one or more Storage options from Additional options section below. Controllers 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** Select one or more graphics adapter from Additional options section below. Options 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: http://www.hp.com/go/hppoweradvisor. This section may contain FIO options, please see HP Computation & Graphics Accelerators sectio 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 •



Configuration Information - Factory Integrated Models

- 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.

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Please refer to your installation instructions for proper tools and number of people to use for any installation.

hp

Core Options

HP DL380 Gen9 Rear Serial Port and Enablement Kit	768896-B21
	758959-B22
NOTE: The Systems Insight Display no longer ships as standard but is available as	
HP DL380 Gen9 Systems Insight Display Kit	768900-B21
NOTE: SAS expander to enable 24SFF field upgrade.	
HP 12Gb SAS Expander Card with Cables for DL380 Gen9	727250-B21
(724865-B21) for 2 additional SFF or Optical.	
upgrade to 16SFF total and allows the flexibility to add the Universal Media Bay	
NOTE: To add an additional 8SFF drive cage in Bay 2. This is the optimal solution to	
	768857-B21
NOTE: Selecting this option does not allow you to select the Universal Media Bay.	
	FICCOL DET
	719067-B21
	119013-021
	719073-B21
	113010-021
	719076-B21
	100000-021
	768856-B21
	724864-B21
	704964 001
	719079-B21
	719082-B21
NOTE: The HP DL380 Gen9 Universal Media bay provides front VGA and 2xUSB	
	 2.0; plus support for 2xSFF front drives (724864-B21) and ODD support (No included); and can only be located in Bay1 in either a 8SFF or 8+8SFF front end. HP DL380 Gen9 Graphics Enablement Kit NOTE: This kit includes alternative 2 heatsinks plus6 cables to enable GPU support. Other limitations apply, see Graphic section for more details. NOTE: We support up to 2 Double wide and 3 single wide Graphics cards, limitations apply HP DL380 Gen9 High Performance Fan Kit NOTE: This kit is required for specific Ambient temperature environments, more details here: http://www.hp.com/servers/Ashrae. NOTE: This kit is also required to support Passive GPUs. HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit NOTE: For 2SFF front the Universal Media Bay (724865-B21) is required. NOTE: 2SFF in the rear is only supported with 160W Processors HP DL380 Gen9 3LFF Rear SAS/SATA Kit NOTE: 3LFF rear drives are not supported with 160W Processors HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit Slot1: ix 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 Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL. NOTE: To add an additional 8SFF drive cage in Bay1. NOTE: Selecting this option does not allow you to select the Universal Media Bay. HP DL380 Gen9 SSFF Bay1 Cage/Backplane Kit NOTE: To add an additional 8SFF drive cage in Bay2. This is the optimal solution to upgrade to 18SFF apy 2 Cage/Backplane Kit NOTE: To add an additional 8SFF drive cage in Bay2. This is the optimal solution to upgrade to 18SFF total please populate bay 2 with 768857-B21 (from an 8SFF starting point). NOTE: To add an additional 8SFF drive cage in Bay2. This is the optimal solution to upgrade to 18SFF total please populate bay 2 with 768857-B21 (from an 8SFF starting point). NOTE:

HP Processors

Entry Processors - E5-2600v3 series Processors



Core Options		
	HP DL380 Gen9 Intel®Xeon®E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO	719053-L21
	Processor Kit	
	NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	710053 P21
	HP DL380 Gen9 Intel®Xeon®E5-2609v3 (1.9GHz/6-core/15MB/85W) FIOCessor Kit HP DL380 Gen9 Intel®Xeon®E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO	719053-B21 719052-L21
	Processor Kit	110002 221
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	719052-B21
	Base Processors - E5-2600v3 series Processors	
	HP DL380 Gen9 Intel®Xeon®E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit	719051-L21
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	719051-B21
	HP DL380 Gen9 Intel®Xeon®E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit	779556-L21
	NOTE: FIO indicates factory integrated option via CTO.	770550 004
	HP DL380 Gen9 Intel®Xeon®E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit HP DL380 Gen9 Intel®Xeon®E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit	779556-B21 719050-L21
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL380 Gen9 Intel®Xeon®E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit	719050-B21 719060-L21
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor	719060-B21
	Kit HP DL380 Gen9 Intel®Xeon®E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit	719058-L21
	NOTE: Ships with a High Performance Heatsink.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit	719058-B21
	NOTE: Ships with a High Performance Heatsink.	
	HP DL380 Gen9 Intel®Xeon®E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	719049-L21
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit Performance Processors - E5-2600v3 series Processors	719049-B21
	HP DL380 Gen9 Intel®Xeon®E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor Kit	719057-L21
	NOTE: Ships with a High Performance Heatsink.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit	719057-B21
	NOTE: Ships with a High Performance Heatsink.	
	HP DL380 Gen9 Intel®Xeon®E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit	719048-L21
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor	719048-B21
	Kit HP DL380 Gen9 Intel®Xeon®E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO	719059-L21
	Processor Kit	
	NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor	719059-B21
	Kit	119009-021
	HP DL380 Gen9 Intel®Xeon®E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	762764-L21
	NOTE: FIO indicates factory integrated option via CTO.	

Core Options HP DL380 Gen9 Intel®Xeon®E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor 762764-B21 Kit HP DL380 Gen9 Intel®Xeon®E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO 719056-L21 Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor 719056-B21 Kit NOTE: Ships with a High Performance Heatsink. HP DL380 Gen9 Intel®Xeon®E5-2670v3 (2.3GHz/12-core/30MB/120W) FIO 719046-L21 Processor Kit **NOTE:** Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor 719046-B21 Kit NOTE: Ships with a High Performance Heatsink. HP DL380 Gen9 Intel®Xeon®E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO 762766-L21 Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor 762766-B21 Kit NOTE: Ships with a High Performance Heatsink. HP DL380 Gen9 Intel®Xeon®E5-2683v3 (2GHz/14-core/35MB/120W) FIO 719055-L21 Processor Kit **NOTE:** Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2683v3 (2GHz/14-core/35MB/120W) Processor 719055-B21 Kit NOTE: Ships with a High Performance Heatsink. HP DL380 Gen9 Intel®Xeon®E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO 719044-L21 Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor 719044-B21 Kit NOTE: Ships with a High Performance Heatsink. HP DL380 Gen9 Intel®Xeon®E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO 762760-L21 Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor 762760-B21 Kit **NOTE:** Ships with a High Performance Heatsink. HP DL380 Gen9 Intel®Xeon®E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO 719054-L21 Processor Kit **NOTE:** Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor 719054-B21 Kit **NOTE:** Ships with a High Performance Heatsink. HP DL380 Gen9 Intel®Xeon®E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO 781913-L21 Processor Kit NOTE: Ships with a High Performance Heatsink. NOTE: FIO indicates factory integrated option via CTO. HP DL380 Gen9 Intel®Xeon®E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor 781913-B21 Kit NOTE: Ships with a High Performance Heatsink.



Core Options		
	HP DL380 Gen9 Intel®Xeon®E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO	781915-L21
	Processor Kit NOTE: Ships with a High Performance Heatsink.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HP DL380 Gen9 Intel®Xeon®E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit	781915-B21
	NOTE: Ships with a High Performance Heatsink. HP DL380 Gen9 Intel®Xeon®E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO	762768-L21
	Processor Kit NOTE: Ships with a High Performance Heatsink.	
	NOTE: FIO indicates factory integrated option via CTO.	
	NOTE: This processor is not supported in a 12LFF or 24SFF Chassis + Rear drives HP DL380 Gen9 Intel®Xeon®E5-2687Wv3 (3.1GHz/10-core/25MB/160W)	s 762768-B21
	Processor Kit	
	NOTE: Ships with a High Performance Heatsink. NOTE: This processor is not supported in a 12LFF or 24SFF Chassis + Rear drive.	
	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.	200212 001
	HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
	HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory	759934-B21 726719-B21
	Kit	120119-021
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
	NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	NOTE: The following memory is supported by the E5-2600v3 series Processors.	
	HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced	726724-B21
	✓ Memory Kit HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced	726722-B21
	Memory Kit	
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced	726720-B21
	Memory Kit NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz.	
HP Optical Drives	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
	NOTE: The Universal Media Bay (724865-B21) is required for this option.	
	HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
	NOTE: The Universal Media Bay (724865-B21) is required for this option.	
	HP Mobile USB Non Leaded System DVD RW Drive	701498-B21
HP Drives	SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
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Core Options HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard 791034-B21 Drive HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 781518-B21 718162-B21 HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 785069-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 512e Enterprise 3yr Warranty Hard 748387-B21 Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 759212-B21 HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 781516-B21 HP 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 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 785067-B21 HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 652611-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 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive 765466-B21 HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive 765464-B21 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 765424-B21 Hard Drive HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty 737394-B21 Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty 737261-B21 Hard Drive SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive 793703-B21 HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive 793699-B21 HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive 765259-B21 HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive 761477-B21 HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard 793671-B21 Drive HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive 765257-B21 HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive 695510-B21 HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard 793669-B21 Drive 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 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive 765455-B21 HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive 765453-B21 HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive 655710-B21 HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1vr Warranty Hard Drive 655708-B21

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



Core Options

HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard	765255-B21
Drive	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard	793667-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard	765253-B21
Drive	000007 004
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	628061-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	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 Drives	
HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr	741155-B21
Wty Solid State Drive	
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty	779176-B21
H2 Solid State Drive	
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr	779172-B21
Wty H2 Solid State Drive HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr	779168-B21
Wty H2 Solid State Drive	//9100-D21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr	779164-B21
Wty H2 Solid State Drive	THORE BET
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid	762263-B21
State Drive	
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	762261-B21
Solid State Drive 12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid	762272-B21
State Drive	
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty	762270-B21
Solid State Drive	
6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream	691868-B21
3yr Wty Solid State Drive	
HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream	691866-B21
3yr Wty Solid State Drive	004004 004
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	691862-B21
3yr Wty Solid State Drive	001002-D21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	

Core Options

	HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	757339-B21
	HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717973-B21
	HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	739898-B21
	Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	717971-B21
	Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	739888-B21
	Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	717969-B21
	Solid State Drive	
	6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value G1 Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1	s 756657-B21
	Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1	756636-B21
	Solid State Drive	
	HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756621-B21
	6G SATA Hot Plug SFF (2.5-inch) Enterprise Light G1 Solid State Drives HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive	756601-B21
	6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value M1 Solid State Drive HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	e s 764929-B21
	HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764927-B21
	HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764925-B21
	HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764923-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 SFF (2.5-inch) SC Read Intensive Solid State Drives	
	HP 240GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789135-B21
	HP 480GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789145-B21
	HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789155-B21
	6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	709100-021
	HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream	691860-B21
	3yr Wty Solid State Drive HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream	691856-B21
\succ	3yr Wty Solid State Drive 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 Value Endurance (3.5-inch) Converter Enterprise Value G1 Solid State Drives	
	HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756660-B21
	HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756639-B21
	HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756624-B21
	6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise Value M1 Solid State Drives	

Core Options HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty 764945-B21 M1 Solid State Drive HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty 764943-B21 M1 Solid State Drive 764941-B21 HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty 764939-B21 M1 Solid State Drive 6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives HP 1.6TB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr 757342-B21 Wty Solid State Drive 718189-B21 HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive 739900-B21 HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Conveter Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty 718183-B21 Solid State Drive HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 739890-B21 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3vr Wty 718177-B21 Solid State Drive 6G SATA Hot Plug LFF (3.5-inch) Enterprise Light G1 Solid State Drives HP 960GB 6G SATA Light Endurance LFF 3.5-in SC Converter ENT Light 3yr Wty 756604-B21 G1 Solid State Drive 6G SATA Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives 718171-B21 HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid 734362-B21 State Drive 6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives HP 240GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State 789137-B21 Drive HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State 789147-B21 Drive HP 960GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State 789157-B21 Drive M.2 SSD HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant 777894-B21 ML/DL Servers HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL 788028-B21 Servers NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only. 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: 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 HP DL380 Gen9 Universal Media Bay Kit 724865-B21 NOTE: The Universal Media Bay offers front VGA and 2xUSB 2.0, plus ability to add optional Optical drive, and 2SFF. NOTE: This is only compatible with the 8SFF or 8+8 SFF front end configurations

and can only be populated in Bay1.



Core Options

Core Optio	ns	
HP	1 Gigabit Ethernet adapters	
Networking	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HP Ethernet 1Gb 4-port 366T Adapter	811546-B21
	10 Gigabit Ethernet adapters	011040 021
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP Ethernet 10Gb 2-port 546SFP+ Adapter	
		779793-B21
	HP Ethernet 10Gb 2-port 557SFP+ Adapter	788995-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
	NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded.	
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each	
	adapter.	<u>~</u> 9/
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and	
	cables for fiber-optic environments must be purchased separately. Please see the	•/
	related NIC QuickSpecs for Technical Specifications and additional information:	
	http://www.hp.com/go/ProLiantNICs.	
	FlexibleLOM Adapters	
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
	HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
	NOTE: The DL380 Gen9 chassis ships with 4x1Gb Embedded.	
	NOTE: Only one FlexibleLOM can be added to the server. These options are	
	upgradeable and can be changed from the original configuration after the server is	
	shipped.	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and	
	cables for fiber-optic environments must be purchased separately. Please see the	
	related NIC QuickSpecs for Technical Specifications and additional information:	
	http://www.hp.com/go/ProLiantNICs.	
	http://www.hp.com/gon toEldinatios.	
HP InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-B21
	NOTE: The RHEL6.5 driver is not part of SPP, but may be downloaded here:	
	http://downloads.linux.hp.com/SDR/downloads/MLNX_OFED/.	
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA	583211-B21
	- Y	
		740070 504
HP I/O	HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit	719076-B21
Expansion	NOTE: This is for slot 1 and supports double wide GPGPUs.	
Options	NOTE: For Graphics cards please also order the DL380 Gen9 Graphics Enablement	t
	kit, 719082-B21	
	Slot1: 1xGen3 x16 FH/FL, 1xGen3 x8 FH/HL	
	HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit	719073-B21
	NOTE: This is for slot 2 and supports double wide GPGPUs.	
	NOTE: For Graphics cards please also order the DL380 Gen9 Graphics Enablement	t
	kit, 719082-B21	
	Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.	



Core Options

	110	
HP Power Supplies	HP Flex Slot Platinum Hot-plug Power supplies HP 500W Flex Slot Platinum Hot Plug Power Supply Kit NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	720478-B21
	HP 800W Flex Slot Titanium Hot Plug Power Supply Kit NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	720482-B21
	HP 800W Flex Slot Platinum Hot Plug Power Supply Kit NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	720479-B21
	HP 800W Flex Slot Universal Hot Plug Power Supply Kit NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.	720484-B21
	HP 800W Flex Slot -48VDC Hot Plug Power Supply Kit NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.	720480-B21
	HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HP Power Discovery Services (blue connector).	720620-B21
	HP 750W Flex Slot Hot Plug Battery Backup Module NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration. NOTE: Only 1 Battery Backup module per server, and a Flex Slot Power Supply needed in parallel.	738024-B21
	NOTE: 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. NOTE: Mixing different power supplies in the same server may limit or disable some power supply features including support for power redundancy. To ensure access to all available features, all power supplies within the same server should have the	
	same output and efficiency ratings NOTE: Prior to selecting a power supply option, it is highly recommended that you review your 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: http://www.hp.com/go/hppoweradvisor.	
	NOTE: Support for HP Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HP Server power supplies can be found at http://www.hp.com/go/proliant/powersupply. NOTE: Maximum of 2 Flex Slot PS per platform.	
HP Computation	HP DL380 Gen9 Graphics Enablement Kit NOTE: This GPU enablement kit includes 2 Heatsinks and 6 cables to enable	719082-B21
and Graphics Accelerators	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 Fan Kit (719079-B21). NOTE: We support up to 2 Double wide and 3 single wide Graphics cards,	

limitations apply



ore Opti	ions	
	HP NVIDIA GRID K1 Quad GPU PCIe Graphics Accelerator	J0G94A
	NOTE: For doublewide GPU support you are required to have at least 1x1400W	
	Power Supply (720620-B21), per card.	
	NOTE: This card only runs at PCIeGen2 speeds.	
	NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
	NOTE : The secondary GPU riser (719073-B21) is required to support this in slot2	
	(2nd processor required).	
	NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators	
	adding Graphics accelerators. NOTE: This card will require the addition of the High Performance Fan Kit (719079-	
	B21).	
	NVIDIA GRID K2 Reverse Air Flow Dual GPU PCIe Graphics Accelerator	753958-B21
	NOTE: For doublewide GPU support you are required to have at least 1x1400W	
	Power Supply (720620-B21), per card.	
	NOTE: This card only runs at PCIeGen2 speeds.	0%
	NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
	NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2	
	(2nd processor required).	
	NOTE: There are limitations on the chassis and processor supported when	
	adding Graphics accelerators.	
	NOTE: This card will require the addition of the High Performance Fan Kit (719079-	
	B21).	
	NOTE: Max cooling setting required to support in RSBU	750000 004
	NVIDIA Tesla K40C 12GB Computational Accelerator	753960-B21
	NOTE: This is supported in all chassis.	
	NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1. NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2	
	(2nd processor required).	
	NOTE: For doublewide GPU support you are required to have at least 1x1400W	
	Power Supply (720620-B21), per card.	
	HP NVIDIA Tesla K80 Dual GPU PCIe Computational Accelerator	J0G95A
	NOTE: This cards is limited to 1 per system.	
	NOTE: For doublewide GPU support you are required to have at least 1x1400W	
	Power Supply (720620-B21), per card.	
	NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
	NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2	
	(2nd processor required).	
	NOTE: There are limitations on the chassis and processor supported when	
	adding Graphics accelerators. NOTE: This card will require the addition of the High Performance Fan Kit (719079-	
	B21).	
	NOTE: Max cooling setting required to support in RSBU.	
	HP NVIDIA Quadro K2200 Graphics Accelerator	J0G89A
	NOTE: This is supported in all chassis.	000007
	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.	
	HP NVIDIA Quadro K4200 Graphics Accelerator	J0G90A
	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.	

Core Optic	ns	
	HP NVIDIA Quadro K5200 GPU Graphics Accelerator	J0G91A
	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.	
	NVIDIA Quadro K6000 PCI-E Graphics Adapter	730874-B21
	NOTE: This is supported in all chassis.	
	NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
	NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).	
	NOTE: For doublewide GPU support you are required to have at least 1x1400W	NI NA
	Power Supply (720620-B21), per card.	
	Intel®Xeon®Phi 5110P Coprocessor Kit	C1P87A
	NOTE: This card only runs at PCIeGen2 speeds.	5/
	NOTE: This is supported in the 728543-B21 riser in the secondary position (second	
	processor required) or in the 752803-B21, primary position. Maximum 2 supported	
	with both risers, support for 2 cards requires the 1400W Power Supply (720620-	
	B21) to be selected.	
	NOTE: Max cooling setting required to support in RSBU.	
	HP AMD FirePro W7100 Accelerator Kit	J0H10A
	NOTE: This is supported in all chassis.	
	NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2	
	(2nd processor required).	
	NOTE: Up to 3 of these single wide cards are supported.	J0H11A
	HP AMD FirePro S9150 Accelerator Kit NOTE: For doublewide GPU support you are required to have at least 1x1400W	JUNITA
	Power Supply (720620-B21), per card.	
	NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
	NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2	
	(2nd processor required).	
	NOTE: There are limitations on the chassis and processor supported when	
	adding Graphics accelerators.	
	NOTE: This card will require the addition of the High Performance Fan Kit (719079-	
	B21).	
	HP 150W PCI-E Power Cable Kit	669777-B21
	NOTE: Each DL380 Gen9 server will accommodate up to three single-width or two	
	double width PCIe cards for Computational Graphics support. Note that 11.25" is the	
	max length for a card to also allow for cabling. This applies to primary slots 1 & 2 or secondary slots 4 & 5.	
	NOTE: The NVIDIA Tesla, GRID and Quadro modules are supported only on 64-bit	
	versions of Linux and Windows operating systems as well as on Virtual Machine	
	client operating systems. The supported bare metal operating systems are RHEL6,	
	SLES 11 and Windows Server 2012 R2.	
	NOTE: There are limitations on fan types, setting, and chassis support by card.	
	NOTE: Mixing of GPUs is not supported.	
HP Cooling	HP DL380 Gen9 High Performance Fan Kit	719079-B21
Options	NOTE: High Performance Fan kit consists of 6 fans, these will need to replace all	
-	the standard Fans in the unit, and fill all 6-Fan cages.	
	NOTE: The 12LFF and 24SFF chassis (including field upgrades to 24SFF) will	
	already include 6 High Performance Fan kits.	
	NOTE: The High Performance Fan Kit is needed to support certain Passive	
	GPGPU (Graphics cards) configurations; or ASHRAE operating environments.	
	NOTE: For elevated ambient temperature support please see: http://www.hp.com/servers/ASHRAE.	

Additional Options

	tions may not be integrated at the factory. To ensure only valid configurations are ordered, HI onfigurator. Contact your local sales representative for additional information.	P recommends the use of
	ware HP Insight Control	
U	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	C6N31A
	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.	
	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	HP iLO Advanced	
Management	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21
	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
HP Converged	HP OneView Advanced (with HP iLO Advanced)	
Infrastructure	HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34A
Management	HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y35AAE
Software	HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic	E5Y43A
	HP OneView Advanced (without HP iLO Advanced)	
	HP OneView w/o iLO Adv incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y38A
	HP OneView w/o iLO Adv inc 3yr 24x7 Supp Flex Qty E-LTU	E5Y39AAE
	HP OneView Media Kit Phys No Lic	E5Y37A
	HP Operations Analytics for HP OneView LTU	K8G29A
	HP Operations Analytics for HP OneView E-LTU	K8G29AAE
	NOTE: Full licenses of HP OneView Advanced also provide the right-to-use HP Insight Control without additional charge.	
	NOTE: Server provisioning (via 'HP Insight Control server provisioning') is licensed	
	as part of HP OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software	
	(USB flash drive).	
	NOTE: Licenses ship without media. The HP OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/oneview.	
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	



Additional Opt	tions	
High Performanco Clusters	 HP Insight Cluster Management Utility 1yr 24x7 Flexible License HP Insight Cluster Management Utility 3yr 24x7 Flexible License 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: 	QL803B BD476A BD477A
HP PCle Workload Accelerator Options	HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21 763838-B21 763836-B21
	HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator Light Endurance (LE) PCIe Workload Accelerators HP 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator HP 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator NVME PCIe Workload Accelerators HP 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator HP 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator HP 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator HP 300GB NVMe Write Intensive HH/HL PCIe Workload Accelerator HP 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator	763834-B21 775672-B21 775670-B21 775668-B21 775666-B21 803204-B21 803197-B21 803202-B21 803195-B21 803200-B21
HP Security	HP 2U Security Bezel Kit HP Trusted Platform Module Option NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows®BitLocker™Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: http://www.hp.com/go/TPM. NOTE: ProLiant OS pre-installed units will come with the partition required for TPM deployment. NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.	666988-B21 488069-B21
HP Storage Controllers	 SAS Controllers HP Flexible Smart Array Controllers HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. NOTE: Includes the HP Smart Storage Battery. HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. NOTE: Provides the HP Smart Storage Battery. NOTE: Includes the HP Smart Storage Battery. NOTE: FIO indicates factory integrated option via CTO. 	726736-B21 749974-B21

Additional Op	otions	
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726897-B21
	HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726903-B21 726825-B21
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
	NOTE: Includes the HP Smart Storage Battery.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller	761874-B21
	NOTE: Includes the HP Smart Storage Battery. NOTE: When ordering controllers, please reference the HP Cable Options below for	F.
	the required cable.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HP Smart Host Bus Adapters	
	HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
	HP H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
	HP H240ar 12Gb 2-ports Int Smart Host Bus Adapter	726757-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
	HP H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter	749976-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HP Cable Options	
	HP DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit NOTE: 12LFF port 3 to 2SFF or 3LFF to P440/840 PCIe.	783007-B21
	HP DL380 Gen9 2SFF Front SAS x4 Cable Kit	783008-B21
	NOTE: For front mount 2SFF to H240/P440ar, H240 or embedded B140i SATA. HP DL380 Gen9 8SFF SAS Cable Kit	783009-B21
	NOTE: 8/16/24 SFF to P840/440 bay 3.	700000 B21
	HP DL380 Gen9 2SFF x8 Front Cable Kit	785989-B21
	NOTE: For front/rear mount 2SFF to P440/840 PCIe).	
	HP DL380 Gen9 12LFF SAS Cable Kit	785991-B21
	NOTE: For 12LFF to P440/840 PCIe cables- ports 1/2/3. HP DL380 Gen9 8SFF H240 Cable Kit	786092-B21
	NOTE: 8/16/24SFF to 240/440ar, H240 PCIe or embedded B140i SATA.	700092-021
	HP DL380 Gen9 12LFF H240 SAS Cable Kit	786215-B21
	NOTE: For 12LFF ports 1&2 to H240/P440ar, H240 or embedded B140i SATA.	
	NOTE: For details on cabling options, additional information available here: Cabling Mat	rix.
	Optional Software HP Secure Encryption No Media Flexible License per Drive	D8S84A
	HP Secure Encryption No Media E-LTU per Drive	D8S85AAE
	NOTE: HP Secure Encryption is supported when one of the supported Smart Array	DOCOUNTE
	Controllers or the supported Smart SAS HBA (configured in a RAID mode) is installed in the server.	
	HP Secure Encryption licensing is based on the number of physical drives requiring	
	encryption.	
	NOTE: For more information about HP Secure Encryption, go to	
	http://www.hp.com/go/hpsecureencryption. HP SmartCache No Media 24x7 Technical Support 1 Svr License	D7S26A
	HP SmartCache No Media 24x7 Technical Support Flexible License	D7S20A D7S27A
	HP SmartCache No Media 24x7 Technical Support Flectronic License	D7S27AAE
	NOTE: HP SmartCache is supported when one of the supported Smart Array	
	Controllers is installed in the server.	
	NOTE: HP SmartCache comes standard (no licensing is required) if the HP Smart Array P840 Controller is installed in the server.	

Additional Op	tions		
	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	727258-B21	
	devices (up to 16).		
	NOTE: Ships as standard with some HP Flexible Smart Array Controllers.		
	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/tap For hardware and software compatibility of HP tape backup products see: http://www.hp.com/storage/SPOCK and http://www.hp.com/go/ebs.		
	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-6 Ultrium 6250 External Tape Drive	EH970A	
	HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	EJ014B	
	HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B	
	HP StoreEver LTO-5 Ultrium 3280 SAS Tape Drive in 3U Rack-mount	EJ013B	
	HP StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B	
	HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	EH946C	
	HP StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B	
	HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B	
	HP StoreEver 1U SAS Rack-mount Kit	AE459B	
	HP Tape Storage Systems HP StoreEver MSL6480		
	HP StoreEver MSL6480 Scaleable Expansion Module	QU626A	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional		
	information: http://h18000.www1.hp.com/products/quickspecs/14604_div/14604_div.h (Worldwide).	tml	
	HP StoreEver MSL6480 Scalable Base Module	QU625A	
	HP MSL2024 0-Drive Tape Library	AK379A	
	HP MSL4048 0-Drive Tape Library	AK381A	
IP Disk Backup	HP RDX Removable Disk Backup System		
	HP RDX1000 USB 3.0 External Disk Backup System	B7B69A	
	HP RDX+ 1TB External Backup System	B7B69B	
	HP RDX500 USB 3.0 External Disk Backup System	B7B66A	
	HP RDX+ 500GB External Backup System	B7B66B	
	HP RDX320 USB3.0 External Disk Backup System	B7B63A	
	HP RDX 2TB USB3.0 External Disk Backup System	E7X53A	
	HP RDX 2TB USB3.0 External Disk Backup System	E7X53B	
	HP D3700 Enclosure	QW967A	
	HP D3600 Enclosure	QW968A	
	HP RDX+ External Docking System	C8S07B	
	NOTE: For the complete range of RDX drives and media see: http://www.hp.com/go/rdx.		
	For hardware and software compatibility of HP disk backup products see:		
	http://www.hp.com/storage/SPOCK.		



Additional Opti	ons		
HP Storage Option	s NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows Server 200 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	00110071	
	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 StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A	
	67		
IP Disk Storage	Disk Enclosures		
Systems	HP D6000 Dual I/O Module Disk Enclosure	QQ695A	
2	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 D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A	
HP Data Center	HP 11000 G2 Series Racks		
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 QuickSpecs for information on		
	additional racks options and rack specifications.		
	HP Intelligent Series Rack		
	HP 647 1075mm Pallet Intelligent Series Rack	BW911A	
	HP 647 1075mm Shock Intelligent Series Rack	BW912A	
	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 on add		



Additional Options

Additional Options				
	HP Value Series Rack HP V142 1075mm deep Pallet 100 series Rack NOTE: Please see the HP Value Series Rack QuickSpecs for information on additional rack options and rack specifications.	AF046A <s< th=""></s<>		
HP Power	HP Basic Power Distribution Unit (bPDU)			
Distribution Units	HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5M54A		
(PDUs)	HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56A		
	HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDU	H5M55A		
	HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU	H5M57A		
	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 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M61A		
	HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU	H5M59A		
	HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70A		
	HP 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU	H5M60A		
	HP 11kVA 230 Volt IEC309 63A Input (30xC13/6xC19) INTL Basic PDU 🖕 🔾 🔨	H5M71A		
	HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75A		
	HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xNEMA 5-20R) NA/JP Basic PDU	H5M63A		
	HP 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU	H5M64A		
	HP 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU	H5M62A		
	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU	H5M72A		
	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU	H5M73A		
	HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67A		
	HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU	H3X08A		
	HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A		
	HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit	252663-D71		
	HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D74		
		252663-D75		
	HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit	252663-B33		
	HP 9.2kVA 40A High Voltage INTL Core Modular Power Distribution Unit	252663-B34		



HP 8.6kVA 24A Three Phase NA/JP Modular Power Distribution Unit

HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit

HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit

HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit

NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the

HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit

HP website at http://www.hp.com/go/pdu. HP Monitored Power Distribution Units (mPDU) AF512A

AF513A

AF519A

AF511A

AF518A

Additional Options

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 (12xC13) WW Monitored PDU	D9N46A
HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU	D9N44A
HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45A
HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU	G9Z05A
HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU	G9Z06A
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 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU	D9N48A
HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP Monitored PDU	D9N52A
HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP	D9N53A
Monitored PDU	DONIEEA
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU	D9N55A
	DONIADA
HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU	D9N49A
HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU	D9N50A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored	D9N57A
PDU	DONISOA
HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU	D9N58A
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU	D9N61A
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored	D9N62A
PDU	DSNOZA
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored	D9N54A
PDU	DONOAN
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored	D9N59A
PDU	Dontoon
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Watertight Input (12xC13/12xC19)	G9Z07A
NA/JP Monitored PDU	0020111
HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU	D9N63A
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored	D9N56A
PDU	201100/1
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored	D9N60A
PDU	201100/1
HP 22kVA 400 Volt IEC309 32A 3-Phase Watertight Input (12xC13/12xC19) INTL	G9Z08A
Monitored PDU	00200.
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the HP Monitored Power Distribution Units QuickSpecs for information	
on additional options and product specifications.	
HP Intelligent Power Distribution Units (iPDU)	



Additional Options

Additional Op	lions	
	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	AF523A
		AFJZJA
	HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Power Distribution	AF900A
	Unit	A 300A
	HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distribution	AF901A
	Unit	7 00 17 (
	HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525A
	HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF526A
	HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF527A
	HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power	AF535A
	Distribution Unit	/
	HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Power	AF537A
	Distribution Unit	
	HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Power	AF538A
	Distribution Unit	
	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 14.4kVA 40A Three Phase NA/JP Intelligent Modular Power Distribution Unit	AF533A
	HP 7.3kVA 32A Single Phase INTL Intelligent Modular Power Distribution Kit	AF534A
	HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
	HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
	NOTE: Please see the HP Intelligent Power Distribution Units QuickSpecs for information	
	on additional options and product specifications.	
	HP Managed Power Distribution Units (maPDU)	
	HP 2.8kVA 120 Volt L5-30 Input (24x NEMA 5-20) NA/JP Managed PDU	H8B48A
	HP 3.6kVA 200-240 Volt Detachable C20 Input (7xC13/1xC19) WW Managed PDU	H8B49A
	HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Managed PDU	H8B50A
	HP 7.3kVA 200-240 Volt IEC309 32A Input (20xC13/4xC19) INTL Managed PDU	H8B51A
	HP 8.6kVA 208 Volt L15-30 3 Phase Input (18xC13/6xC19) NA/JP Managed PDU	H8B52A
	HP 8.6kVA 208 Volt L21-30 3 Phase Input (20xC13/3xC19/1x NEMA 5-20) NA/JP	H8B53A
	Managed PDU	
	HP 11kVA 400 Volt IEC309 16A 3 Phase Input (21xC13/3xC19) INTL Managed PDU	H8B54A
	HP 14.4kVA 208V CS8365C 3 Phase Input (12xC13/12xC19) NA/JP Managed PDU	H8B55A
	HP 17.3kVA 208V IEC309 60A 3 Phase Input (12xC13/12xC19) NA/JP Managed	H8B56A
	PDU	
	NOTE: Please see the HP Managed Power Distribution Units QuickSpecs for information	
	on additional options and product specifications.	
	NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web page	qe.
HP Rack Mount	HP Location Discovery Services	
Consoles, KVM	HP 36U Location Discovery Kit	BW945A
Switches, and Keyboards	HP 42U Location Discovery Kit	BW946A
Reyboarus	HP 47U Location Discovery Kit	BW947A
	HP DL380 Gen9 Location Discovery Services Ear Kit	768884-B21
	HP Location Discovery Services LCD8500 Kit	TL052A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information:	
	http://h18000.www1.hp.com/products/quickspecs/14429 div/14429 div.html	

http://h18000.www1.hp.com/products/quickspecs/14429_div/14429_div.html (Worldwide)

HP Rack Mount Consoles



Additional Opti	ons	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	HP LCD8500 1U DE Rackmount Console Kit	AF632A
	HP LCD8500 1U FR Rackmount Console Kit	AF633A
	HP LCD8500 1U JP Rackmount Console Kit	AF642A
	HP LCD8500 1U RU Rackmount Console Kit	AF643A
	HP LCD8500 1U INTL Rackmount Console Kit	AF644A
	HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
	HP TFT7600 G2 KVM Console Rackmount Keyboard UK Monitor	AZ871A
	HP TFT7600 G2 KVM Console Rackmount Keyboard DE Monitor	AZ872A
	HP TFT7600 G2 KVM Console Rackmount Keyboard FR Monitor	AZ873A
	HP TFT7600 G2 KVM Console Rackmount Keyboard IT Monitor	AZ874A
	HP TFT7600 G2 KVM Console Rackmount Keyboard ES Monitor	AZ875A
	HP TFT7600 G2 KVM Console Rackmount Keyboard DK Monitor	AZ876A
	HP TFT7600 G2 KVM Console Rackmount Keyboard NO Monitor	AZ877A
	HP TFT7600 G2 KVM Console Rackmount Keyboard SE/FI Monitor	AZ878A
	HP TFT7600 G2 KVM Console Rackmount Keyboard CH Monitor	AZ879A AZ880A
	HP TFT7600 G2 KVM Console Rackmount Keyboard PT Monitor HP TFT7600 G2 KVM Console Rackmount Keyboard BE Monitor	AZ8800A AZ881A
	HP TFT7600 G2 KVM Console Rackmount Keyboard DE Monitor	AZ882A
	HP TFT7600 G2 KVM Console Rackmount Keyboard SI Monitor	AZ883A
	HP KVM Switches	ALOUSA
	HP Server Console 0x2x8 Port Analog Switch	AF616A
	HP Server Console 0x2x16 Port Analog Switch	AF617A
	HP 0x1x8 G3 KVM Console Switch	AF651A
	HP 0x2x16 G3 KVM Console Switch	AF652A
	HP TAA 0x2x16 G3 KVM Console Switch	AF653A
	HP USB Remote Access Key for G3 KVM Console Switches	AF650A
	HP KVM Console USB Interface Adapter	AF628A
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
	HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
	HP 1x4 USB/PS2 KVM Console Switch	AF611A
	HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
	HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
	HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
	NOTE: To learn more, please visit the HP KVM Switches web page.	
	HP USB Keyboard and Mouse	
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
	HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
	HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
	HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
	HP/USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
	HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
	HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
	HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
	HP USB BFR with PVC Free AE Keyboard/Mouse Kit HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638212-B21 638214-B21
	HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
	HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
	HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
	HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
	HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
	HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
	HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
	HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
	HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
	HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3

Additional Option	ons	
	HP 1U INT Rackmount Keyboard with USB HP 1U US Rackmount Keyboard with USB	AG086A AG072A
	NOTE: Please see the HP USB Keyboard and Mouse QuickSpecs for information on additional options and product specifications. Rail Kits	
	 NOTE: Gen9 rail kits have changed significantly from prior generation rail kits. Please tal the installation documentation that comes with the server to help you with the installation NOTE: Rail kits are optional for DL380 Gen9 and are no longer included standard with the 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-r NOTE: To assist in the installation of the server into the rack an optional installation tool contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server refer to your installation instructions for proper tools and number of people to use for an HP 2U Small Form Factor Easy Install Rail Kit 	n of your Gen9 server. he server. Customers rack serviceability. is available by er installations. Please
	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 HP 2U Small Form Factor Ball Bearing Rail Kit	733664-B21 720863-B21
	NOTE: Does not include CMA (720865-B21). HP 2U Large Form Factor Ball Bearing Rail Kit	720864-B21
	NOTE: Does not include CMA (720865-B21). HP 2U Cable Management Arm for Ball Bearing Rail Kit HP Other Options	720865-B21
	HP Rack LED Light Kit HP Kit LCD 1.83m Latch Display Port Cable	BW939A G7T29A
HP Uninterruptible Power Systems	HP DirectFlow Three Phase UPS Power Unit (1U UPS)	
(UPS)	HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	G9Y75A AF478A
	Input/Output Module Options for 1U UPS HP 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 Input/Output Module	AF488A
	HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A
	HP 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module	AF490A
	HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output	AF491A AF492A
	Module HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output	G9Y76A
>	Module HP DirectFlow UPS Management Card	AF493A
	Power Unit (2U UPS) HP R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A



Additional Op	tions	
	HP 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309	AF483A
	Input/Output Module HP 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated	AF485A
	Input/Output Module HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF486A
	HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
	HP 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
	HP 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484A
	NOTE: All Input/Output Modules support dual output outlets except the AF484A. Battery Pack Options	
	HP DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
	HP DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
	HP WW DirectFlow Secondary Battery Cable	AF497A
	NOTE: Please see the HP DirectFlow Three Phase Uninterruptible Power System QuickSp	
	for information on additional options and product specifications.	
	HP Tower UPS	
	HP T750 G4 UPS Models	
	HP T750 G4 NA/JP Uninterruptible Power System	J2P85A
	HP T750 G4 INTL Uninterruptible Power System	J2P88A
	HP T1000 G4 UPS Models	JZFOOA
		J2P86A
	HP T1000 G4 NA/JP Uninterruptible Power System	
	HP T1000 G4 INTL Uninterruptible Power System	J2P89A
	HP T1500 G4 UPS Models	100074
	HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A
	HP T1500 G4 INTL Uninterruptible Power System	J2P90A
	HP T750 G2 UPS Models	
	HP T750 G2 750VA NA Tower Uninterruptible Power System	AF446A
	HP T750 G2 750VA INTL Tower Uninterruptible Power System	AF447A
	HP T750J JP Uninterruptible Power System	AF456A
	HP T1000 G3 UPS Models	
	HP T1000 G3 1000VA INTL Tower Uninterruptible Power System	AF449A
	HP T1500 G3 UPS Models	
	HP T1500 G3 1400VA NA Tower Uninterruptible Power System	AF450A
	HP T1500 G3 1400VA INTL Tower Uninterruptible Power System	AF451A
	HP Rack-mountable UPS	
	HP R/T2200 G4 UPS Models	
	HP R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
	HP R/T3000 G4 UPS Models	0_1.007.1
	HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
	HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
	HP R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
	HP R/T3000 G2 Uninterruptible Power System (UPS)	5211047
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power	AF468A
	System	
	R1500 G4 Models	10000
	HP R1500 G4 NA Uninterruptible Power System	J2Q99A
	HP R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
	HP R1500 G4 INTL Uninterruptible Power System	J2R03A
	R1.5kVA G3 Models	
	HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A
	HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
	HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A



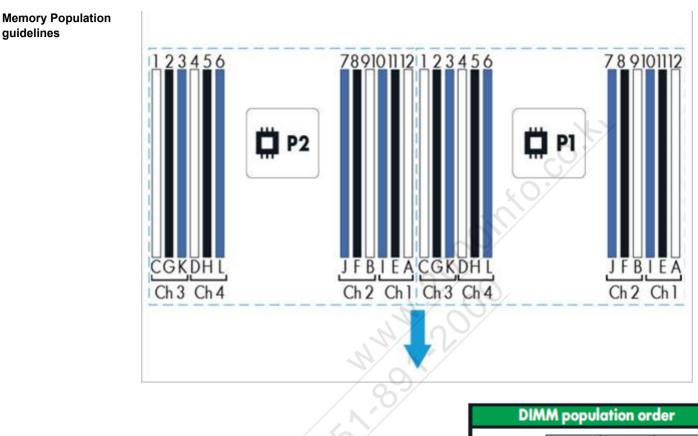
Additional Options

R7000 Uninterruptible Power System (UPS)	
· · · · ·	AF462A
	AF463A
	711 100/1
	AF460A
	AF461A
	on on
Expansion modules for RP36000/3 UPS	
HP RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power	AF437A
•	
-	
	J2R09A
	J2R10A
	L4Q11A
NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web p	age.
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HD Entorprise Mainstream Elash Media Kits for Memory Cards	
	700139-B21
·	
	726116-B21
	737953-B21
HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
Installation & Start-up Services	
	U4554E
	U4555E
	04555E
	U5HW1E
	U5HW2E
	U5HW3E
Proactive Care Service	
	U5HX0E
HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service	U5HX0E U5HX1E
HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive	
HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service	U5HX1E
HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC	
HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service	U5HX1E U5HX2E
 HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year 24x7 DL380 Gen9 Proactive Care Service 	U5HX1E U5HX2E U7AE8E
 HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year 24x7 DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service 	U5HX1E U5HX2E U7AE8E U7AE9E
 HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year 24x7 DL380 Gen9 Proactive Care Service 	U5HX1E U5HX2E U7AE8E
 HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year 24x7 DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 	U5HX1E U5HX2E U7AE8E U7AE9E
 HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year 24x7 DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service HP 3 year Call to Repair DL380 Gen9 Proactive Care Service 	U5HX1E U5HX2E U7AE8E U7AE9E U7AF0E
 HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year 24x7 DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service HP 3 year Call to Repair DL380 Gen9 Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 Proactive 	U5HX1E U5HX2E U7AE8E U7AE9E U7AF0E U7AF4E
 HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service HP 3 year 24x7 DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service HP 3 year Call to Repair DL380 Gen9 Proactive Care Service 	U5HX1E U5HX2E U7AE8E U7AE9E U7AF0E U7AF4E
	R7000 Uninterruptible Power System (UPS) HP R7000 4U 50A High Voltage NA/JP Uninterruptible Power System HP R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System R5000 Uninterruptible Power System (UPS) HP R5000 3U L630 High Voltage NA/JP Uninterruptible Power System HP R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System NOTE: Please see the HP Line Interactive Single Phase UPS QuickSpecs for informatic additional options and product specifications. Expansion modules for RP36000/3 UPS HP RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System HP UPS Options HP R/T2200 G4 Extended Runtime Module HP R/T3000 G4 Extended Runtime Module HP 2U Rack/Tower UPS Shipping Kit NOTE: To learn more, please visit the HP Uninterruptible Power Systems (UPS) web p HP Enterprise Mainstream Flash Media Kits for Memory Cards HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB usb Enterprise Mainstream Flash Media Kit HP 0ual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HP Install ProLiant DL38x(p) Service HP sy 2424x7 with Defective Media Retention DL380 Gen9 w/IC Proactive Care HP 3 year 24x7 with Defective Media Retention DL380 Gen9 w/IC

Memory

guidelines

Memory Subsystem Each Intel®Xeon®E5-2600v3 family processor socket contains four memory channels per installed Architecture 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.



DIMM population order								
		1st slot of channel ABCD	2nd slot of channel E F G H	3rd slot of channel I J K L				
Number of DIMMs to install	4 8 12							

General Memory Population Rules and Guidelines:



Memory

- . White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- . A minimum of one DIMM is required per server.
- . Install DIMMs only if the corresponding processor is installed.
- . If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- . To maximize performance, it is recommended to balance the total memory capacity between all installed processors and to load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- . Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel. Heaviest load
- (DIMM with most ranks) within a channel goes furthest from the processor.
- . Do not mix RDIMMs or LRDIMMs.
- . LRDIMMs are supported up to 3 DIMMs per channel.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- . The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors.
- . 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

				_		
	Registered DIMMs (RDIMMs)			5)	Load Redu	iced (LRDIMMs)
Sin	gle Rank			ual Rank	ζ.	Quad Rank
4GB	80	в	16GB	32GB	16GB	32GB
		r		2	2133	· · · · · ·
				Std Vo	ltage 1.2V	
\sum						
		24				24
96	19	92	384		384	768
				2	2133	
2133						
	1600					
	4GB	Single Rank 4GB 80	Single Rank 4GB 8GB 24	Single Rank D 4GB 8GB 16GB 24	Single Rank Dual Rank 4GB 8GB 16GB 32GB 2 2 2 Std Vo 24 24 96 192 384 2	Single Rank Dual Rank 4GB 8GB 16GB 32GB 16GB 2133 2133 Std Voltage 1.2V 24



Memory

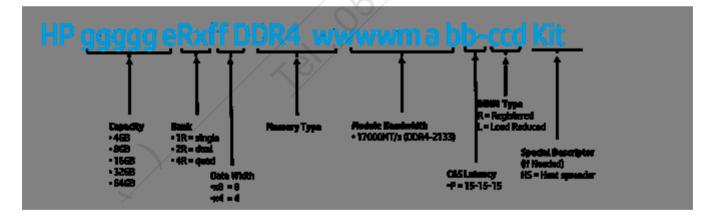
Memory Speed by	Processor Models	Supported Memory Speeds
Processor Model	E5-2603v3, E5-2609v3,	1600MHz
	E5-2620v3, E5-2623v3, E5-2630v3, E5-2630Lv3,	1866MHz
	E5-2640v3,	
	E5-2637v3, E5-2643v3, E5-2650v3, E5-2650Lv3,	2133MHz
	E5-2660v3, E5-2667v3, E5-2670v3, E5-2680v3, E5-	
	2683v3, E5-2690v3, E5-2695v3,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

Standard and Maximum Memory Capacity (Pre-	Pre-Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
configured Models)	E5-2609v3,	8GB (1x8GB)	744GB (23x32GB, 1x8GB)	768GB (24x32GB)
	E5-2620v3,	16GB (1x16GB)	752GB (23x32GB, 1x16GB)	768GB (24x32GB)
	E5-2650v3, E5-2690v3,	32GB (2x16GB)	736GB (22x32GB, 2x16GB)	768GB (24x32GB)

DDR4 memory options part number decoder

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

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



Storage

4LFF hot-plug drive model	1-4	4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
12 LFF + 3 rear LFF hot-plug drive model	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
		ointo
12 LFF + 2 rear SFF hot-plug drive model	1-12	12 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays
B1 B4 B7 B10 \$ B2 B5 B3 B10 \$ B3 B5 B3 B10 \$	25-26	2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays
	891	
8 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
16 SFF (+2 SFF) hot-plug drive model with Universal Media Bay	9-24	16 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays
	1-2	2 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays



Storage

24 SFF + rear 2 SFF hot-plug drive model

	1-24 25-26	24 x SFF SATA/SAS/SDD Hot Plugga bays 2 x SFF SATA/SAS/SSD Hot Pluggat Drive Bays
		0011110.001
M	89)-2 89)-2	500
- 01 · 02		

24 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays

2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays



Technical Specifications

Suctor Unit	Dimensions		17 E4 x 26 7E in (0.72 x 44 EE x 67.04 cm)
System Unit	Dimensions		17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm) 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm)
		NOTE: Dimensions	
	Weight	Minimum:	32.6 lb (14.759 kg)
	(approximate)	(Minimum - 8SFF	
	, , ,	chassis with 1xSFF	:
		HDD and 7 HDD	
		blanks, 1x	
		processor, 1x	
		power supply (plus	
		blank), 1x Flexible Smart Array, 1x	
		Riser installed)	
		Maximum:	51.5 lb (23.6 kg)
		(Maximum - 12 LFF	
		hard drives (No rea	
		drives), 2x	
		processors, 2x	
		power supplies, 1x	
		Flexible Smart	
		Array, 2x Risers installed)	
		instance)	
	Input	Range Line 10	0 to 120 VAC
	Requirements	•	0 to 240 VAC
	(per power		
	supply)		S N
	BTU Rating		00W Power Supply: 3207 BTU/hr (at 100 VAC), 3071
			hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only 00W Power Supply: 1979 BTU/hr (at 100 VAC), 1911
			hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only
		510,	
	Power Supply	Rated Steady-State	e For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240
	Output	Power	VAC)
	(per power sup	oly)	For 800W Power Supply: 800W (at 100 VAC), 800W (at 240
		/ <u> </u>	VAC), 800W (at 240 VAC) input for China only
			For 500W Power Supply: 500W (at 100 VAC), 500W (at 240
		Maximum Dook	VAC), 500W (at 240 VAC) input for China only For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W
		Maximum Peak Power	(at 240 VAC) input for China only
		1 OWCI	For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at
			200 to 240 1VAC), 800W (at 240 VAC) input for China only
	X		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	Standard Operating	g10° to 35° C (50° to 95° F) at sea level with an altitude derating of
	Temperature	Support	1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level
			to a maximum of 3050 m (10,000 ft), no direct sustained sunlight.
			Maximum rate of change is 20° C/hr (36° F/hr). The upper limit and rate of change may be limited by the type and number of
			options installed. System performance during standard operating
			support may be reduced if operating with a fan fault or above
			30°C (86°F).
		Extended Ambient	For approved hardware configurations, the supported system
			inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to
			$40^\circ C~(95^\circ$ to $104^\circ F)$ at sea level with an altitude derating of $1.0^\circ C$
			per every 175 m (1.8° F per every 574 ft) above 900 m (2953 ft) to
			a maximum of 3050 m (10,000 ft). The approved hardware
			configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae
			กแนว.//www.np.com/servels/ASIIIae



Technical Specifications

		For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating	Minimum to be the higher (more moisture) of -12° C (10.4° F) dew point or 8% relative humidity. Maximum to be the lower (less
(non-condensing)	Non-operating	moisture) of 24°C (75.2°F) dew point or 90% relative humidity. 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	bystander position operating in a 23°C	ared A-Weighted sound power levels (LWAd) and declared average A-Weighted sound pressure levels (LpAm) when the product is ambient environment. Noise emissions were measured in O 7779 (ECMA 74) and declared in accordance with ISO 9296
	Idle	
	L WAd	4.0 B Entry LFF
		4.1 B Entry
		4.2 B Base
		5.7 B Base LFF
		4.3 B Perf
	L pAm	23 dBA Entry LFF
		24 dBA Entry
		24 dBA Base
		39 dBA Base LFF 25 dBA Perf
	Operating	25 UDAT en
	L WAd	4.3 B Entry LFF
X		4.6 B Entry
		4.8 B Base
		5.9 B Base LFF
		5.9 B Base LFF 5.6 B Perf
	L pAm	5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF
	L pAm	5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF 29 dBA Entry
	L pAm	 5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF 29 dBA Entry 30 dBA Base
	L pAm	5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF 29 dBA Entry 30 dBA Base 31 dBA Base LFF
		 5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF 29 dBA Entry 30 dBA Base 31 dBA Base LFF 39 dBA Perf
	NOTE: The Listed s	 5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF 29 dBA Entry 30 dBA Base 31 dBA Base LFF 39 dBA Perf ound levels apply to standard shipping configurations (Entry LFF,
	NOTE: The Listed s Entry, Base, Base I	 5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF 29 dBA Entry 30 dBA Base 31 dBA Base LFF 39 dBA Perf ound levels apply to standard shipping configurations (Entry LFF, LFF and Performance models) additional options may result in
	NOTE: The Listed s Entry, Base, Base I increased sound le	 5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF 29 dBA Entry 30 dBA Base 31 dBA Base LFF 39 dBA Perf ound levels apply to standard shipping configurations (Entry LFF,
Emissions	NOTE: The Listed s Entry, Base, Base I increased sound le	5.9 B Base LFF 5.6 B Perf 25 dBA Entry LFF 29 dBA Entry 30 dBA Base 31 dBA Base LFF 39 dBA Perf ound levels apply to standard shipping configurations (Entry LFF, LFF and Performance models) additional options may result in vels. The Base LFF model leverages our High Efficiency Fans,



Technical Specifications

		Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1	
		NOTE: Product conformance to cited product specifications is based on samp testing, evaluation, or assessment. This product or family of products is eligit bear the appropriate compliance logos and statements. NOTE: The Listed sound levels apply to standard shipping configurations. Ad options may result in increased sound levels.		
HP Dynamic Smar		Four		
Array B140i Controller	links			
Jontroller		4Gb/s		
	Storage protocol	SATA		
	support	6Ch/a	-01	
	SAS/SATA peak data tranfer rate	6Gb/s	67	
		10 links		
	SAS/SATA links	10 111185		
		2x4 connectors; 2x1	connectors	
	connectivity			
	Expander support	No		
		Up to 10 Internal Dri	ves	
	(max)		$0 \times \infty$	
		0, 1, 10, 5 SATA		
		HP SSA, SMH, SIM		
	management			
	Warranty	Server warranty		
	HP Secure Encryption license	Not Supported	100 N	
		Not Supported		
	HP Smart Storage Administrator	Supported	52/	
HP Ethernet 1Gb 4	- Network Interfac	e 10Base-T/100Base	e-TX/1000Base-TX	
port 331i Adapter	Compatibility	IEEE 802.3 10Base	e-T	
	· · · · · · · · · · · · · · · · /	IEEE 802.3ab 1000		
		IEEE 802.3u 100Ba		
	Data Transfer Method	PCI Express, two la		
	Controller	BCM5719		
	Network Transfe			
Rate		Duplex) 10Base-T (Full-	10 Mb/s per port, 40 Mb/s combined	
		Duplex) 100Base-TX (Half-	20 Mb/s per port, 80 Mb/s combined	
		Duplex) 100Base-TX (Full-	100 Mb/s per port, 400 Mb/s combined	
		Duplex) 1000Base-TX (Hali	200 Mb/s per port, 800 Mb/s combined f	
		and Full-Duplex) 1000Base-TX (Full	1000Mb/s per port, 4000 Mb/s combined	
	Connector	Duplex) Four RJ-45	2000Mb/s per port, 8000 Mb/s combined	
	Cable Support	10 Base-T	Categories 3 4 or 5 LITP: up to 328 ft (100 m)	

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)

Technical Specifications

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.
	I A A A A A A A A A A A A A A A A A A A
	WWW 2000
	.05
	Management and





Summary of Changes

Date	Version History	Action	Description of Change
06/01/2015	From Version 8 to 9	Added	New larger capacity HDDs (up to 8TB LFF), Max capacity 120TB were added.
			New higher capacity memory (64GB), Max capacity 1.5TB was added.
			New Networking options were added.
			Optional Software added to HP Storage Controllers.
		Changed	Updated max HDD and memory capacity due to new options added. HP SmartCache Software, HP Disk Backup System, HP Uninterruptible Power Systems (UPS) were updated.
03/30/2015	From Version 7 to 8	Added	New Hard Drives offering.
			Optical Software added to HP Storage Controllers.
			Added new HP Care Pack Services.
		A.	Added new HP PCIe Workload Accelerator Options.
		Changed	What' s New, Standard Features, Unique Options, Power Supplies, HP Storage Controllers, HP Disk Storage Systems, and Technical Specifications were revised.
		Removed	Removed obsolete HP Care Pack Services.
02/17/2015	From Version 6 to 7	Added	Added Smart Buy Models to the NA version only.
02/09/2015	From Version 5 to 6	Added	What' s new section was added. Added new HDD offering, new computational Graphics options, and new G4 UPS models.
	10	Changed	HP Drives, HP Computation and Graphics Accelerators, HP Tape Backup, HP Disk Backup, HP Rack Mount, Consoles, KVM Switches, and Keyboards, and HP Uninterruptible Power Systems (UPS) sections were revised.
12/01/2014	From Version 4 to 5	Changed	Changes made throughout the entire QuickSpecs.
10/13/2014	From Version 3 to 4	Changed	Corrected inconsistencies between Product Bulletin and Concentra versions.
10/13/2014	From Version 2 to 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section.
			HP PCIe Workload Accelerator Options, HP USB and SD options, and HP Care Pack Services were added to the Additional Options section.
		Changed	Standard Features, Optional Features, Pre- Configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.
9/19/2014	From Version 1 to 2	Changed	Changes made throughout the entire QuickSpecs.



Summary of Changes

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



DA - 15034 Worldwide QuickSpecs —Version 9 —6-1-2015