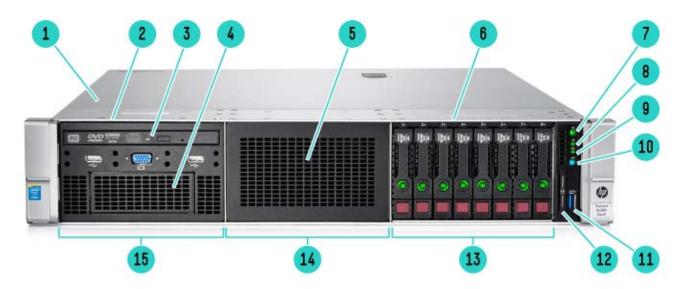
Overview

HPE ProLiant DL380 Generation9 (Gen9)

The HPE ProLiant DL380 Gen9 Server delivers the best performance and expandability in the HPE 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.



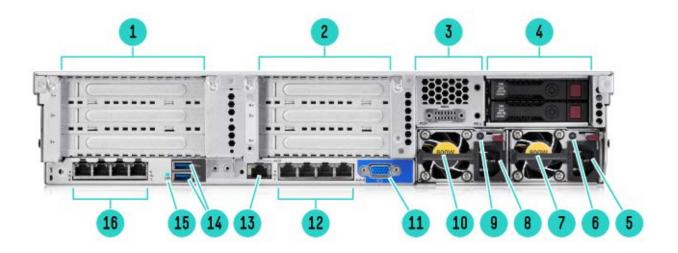
Front View - 8SFF Chassis with Optional Universal Media Bay shown

- 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 or 6NVMe 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
- 13. Bay 3
- 14. Bay 2
- 15. Bay 1



Overview



Rear view

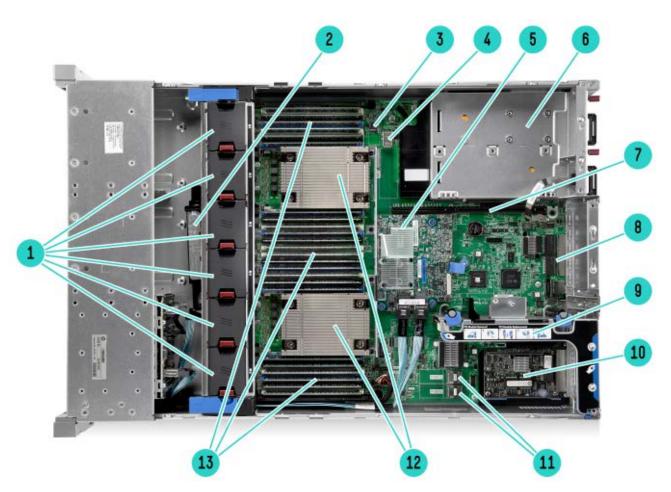
- 1. PCI Slots (Slots 1-3 top to bottom, riser shipped standard)
- 2. PCI Slots (Slots 4-6top to bottom, requires second riser card, and second processor)
- 3. Optional serial port
- 4. Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end)
- 5. Power supply Power connection
- 6. Power supply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

- 9. Power supply Power LED
- 10. HPE Flexible Slot Power Supply bay 1 (800w shown)

NOTE: Optional Micro UPS option.

- 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)

Overview



Internal View

- 1. Fan cage shown with 6 standard Hot-plug fans (High Performance fans optional)
- 2. Optional HPE Smart Storage Battery
- 3. MicroSD card slot
- **NOTE:** Optional Dual MicroSD.
- 4. Internal USB 3.0 connector
- 5. Optional HPE Flexible Smart Array or Smart HBA (H240ar shown)
- 6. (Under) Hot Plug redundant HPE Flexible Slot Power supplies

NOTE: Optional Micro UPS option.

7. Connection for second (optional) riser (Required second CPU)

What's New

- New max capacity SFF Solid State Drives
- New Graphics option, NVIDIA M60

- 8. Embedded 4x1Gbe NIC
- 9. Primary PCIe riser, standard (Optional double wide GPU riser)
- 10. Optional Flexible LOM slot
- 11. X4 SATA ports (1 and 2)
- 12. 2 Processors, heatsink showing, with HPE Smart Socket Guide
- 13. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)

HPE ProLiant DL380 Generation9 (Gen9)

QuickSpecs

Standard Features

Processor	Model	CPU	Cores	L3 Cache	Power	QPI	DDR4 Hz
Jp to two of the		frequency					
llowing depending n model	E5-2699v3	2.3GHz	18	45MB	145W	9.6GT/s	2133
THIODEI	E5-2698v3	2.3GHz	16	40MB	135W	9.6GT/s	2133
	E5-2697v3	2.6GHz	14	35MB	145W	9.6GT/s	2133
	E5-2695v3	2.3GHz	14	35MB	120W	9.6GT/s	2133
	E5-2690v3	2.6GHz	12	30MB	135W	9.6GT/s	2133
	E5-2687Wv3	3.1GHz	10	25MB	160W	9.6GT/s	2133
	E5-2683v3	2.0GHz	14	35MB	120W	9.6GT/s	2133
	E5-2680v3	2.5GHz	12	30MB	120W	9.6GT/s	2133
	E5-2670v3	2.3GHz	12	30MB	120W	9.6GT/s	2133
	E5-2667v3	3.2GHz	8	20MB	135W	9.6GT/s	2133
	E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
	E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
	E5-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
	E5-2643v3	3.4GHz	6	20MB	135W	9.6GT/s	2133
	E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
	E5-2637v3	3.5GHz	4	15MB	135W	9.6GT/s	2133
	E5-2630v3	2.4Ghz	8	20MB	85W	8.0GT/s	1866
	E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
	E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
	E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
	E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
	E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
hipset	NOTE: All process supported with th cards, the Graphic Intel® C610 Series (Intel® E5-2600v3 F NOTE: For more i	is Heatsink. For s Enablement k Chipset Processor Family nformation reg	r processo it option arding Int	ors with a stand is also required el chipsets, ple	dard Heatsinl d (719082-B2'	< that require d	
Dn System Aanagement Chipset	URL: http://www. HPE iLO (Firmware NOTE: 1GB USB us the iLO QuickSpe	e HPE iLO4 2.3) ser space config	2GB NAN	D	essible via iL	O. Read and lea	arn more in
-	Type: HPE SmartMemory DDR4 Registered (d Reduced	(LRDIMM)			

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

depending on	DIMM Slots Available	24	(12 DIMM slots per processor, 4 channels per processor, 3 DIMMs per channel)
model	Maximum Capacity (LRDIMM)	1.5TB	(24 x 64GB LRDIMM @2133MHz)
	Maximum Capacity (RDIMM)	768GB	(24 x 32GB RDIMM @2133MHz)
Memory Protection	Advanced ECC		nced ECC uses single device data correction to detect and correct and all multibit error that occurs within a single DRAM chip.
	Online spare		bry online spare mode detects a rank that is degrading and switches tion to the spare rank.

Expansion Slots

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

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

** Indicates the number of physical electrical lanes running to the connector.

NOTE: All slots support PCIe cards to 150W or more depending on card, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

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

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

** Indicates the number of physical electrical lanes running to the connector.
NOTE: When populating the second optional riser slot, the second processor must be installed.
NOTE: All slots support PCIe cards to 150W or more depending on card but an additional Power
Cord Option is required (PN 669777-B21). See Option Section below for offering.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).

Slot 1 PCIe Riser (Optional 2-slot)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
719076-B21	2	PCIe 3.0	x16	x16	0x05		Full-height, full- length slot	Proc 1
	3	PCIe 3.0	x8	x8	0x08		Full-height, half- length slot	Proc 1
	assignmen ** Indicate NOTE: Thi NOTE: All Cord Optic NOTE: Doo Performan	at number. s the number s will replace slots support on is required uble wide PCI	of physic the stand PCIe car (PN 6692 e cards a For Proce	cal electrical l dard primary ds to 150W of 777-B21). See re only suppo	anes runnir riser and su r more depe Option Sec orted in rise	ng to the co upports dou ending on c tion below ers with the	yes may alter the act nnector. uble wide cards. ard, but an addition	al Power ing the High
Storage Controller Dne of the following depending on nodel	NOTE: The an addition mode setti NOTE: The SATA only	e embedded E nal controller ings part, 758	8140i con will be no 959-B22. Its to AH quired.	eeded, and fo CI off the chi	erate in UE or CTO orde pset. Smart	FI only moo rs please al	de. For legacy suppo so select the Legacy s to be enables on t	ý
	Base Mode	HP	E Flexible	ic Smart Array e Smart Array e Smart Array	P440ar/2G	FIO Controll		
	Performan	ce Models HP HP	-	ic Smart Array e Smart Array				
nternal Storage Devices	Optical Driv	aO		ard in Perform D-ROM, DVD		S		
Dne of the following depending on model	Hard Drive Hard Drive	Bays 8 S					y or 6NME drive opti	ons
		NO NO	TE: The	12 LFF chassi	ives will cor	nsume spac	e for the secondary ear which allows for	
		and	l replace:	s Bay 2.	e option can	only be lev	veraged in the SFF c	hassis
		NO cha NO fiel	TE: The Issis or th TE: The d upgrad	ne 24SFF fron 8SFF can be u les. For optim	nt end, and o upgraded w nal upgrade	can only be rith a drive Bay2 shoul	not available with th populated in Bay1. cage to 16 or 24 SFF d be populated seco upgrade to 24 SFF.	with
		****			Populated			Pa

model

Standard Features

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 HPE Flexible Smart Array and Smart SAS HBA Controllers can be added.

	l	CAPACITY	CONFIGURATION					
Storage	Hot Plug SFF SAS	52.0TB	24+2 x 2TB (with optional rear SFF drive cage)					
	Hot Plug SFF SATA	52.0TB	24+2 x 2TB (with optional SFF drive cage)					
	Hot Plug LFF SAS	120.0TB	12+3 x 8TB (with optional rear LFF drive cage)					
	Hot Plug LFF SATA	120.0TB	12+3 x 8TB (with optional rear LFF drive cage)					
	Hot Plug SFF SAS SSD	99.84TB	24+2 x 3.84TB (with optional rear SFF drive cage					
	Hot Plug LFF SATA SSD	57.6B	12+3 x 3.84TB (with optional rear LFF drive cage					
	Hot Plug SFF NVMe SSD	12TB NVMe + 36TB SFF	6x2TB NVMe plus 36TB with 18 SFF (Bay 1, bay 3 and optional rear drive support)					
Power Supply		num Hot Plug Power Suppl	/					
	NOTE: Available in 94%	•						
		num Hot Plug Power Suppl	Ý					
	NOTE: Available in 94%	-						
		-48VDC and 227VAC/380\						
	NOTE: Available in 94%	inum Plus Hot Plug Power	Supply					
		•						
	-	HPE Flexible Slot Battery Backup Unit Kits NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration.						
	power supplies are certif	ied for high-efficiency ope size" a power supply for sp	ProLiant Gen9 Performance Servers. Flex Slot cration and offer multiple power output options, ecific server configurations. This flexibility help					
	-	ower overall energy costs,	and avoid "trapped" power capacity in the data					
	center. All pre-configured server jumper cord is also includ	rs ship with a standard 6-f	oot IEC C-13/C-14 jumper cord (A0K02A). This power supply option kit. If a different power					
	center. All pre-configured server jumper cord is also includ cord is required, please c To review the power req	rs ship with a standard 6-f ded with each standard AC heck the ProLiant Power	oot IEC C-13/C-14 jumper cord (A0K02A). This C power supply option kit. If a different power Cables web page. d system, please use the HPE Power Advisor					
	center. All pre-configured server jumper cord is also includ cord is required, please of To review the power req Tool located at <u>http://w</u> Power specifications and	rs ship with a standard 6-f ded with each standard AG heck the <u>ProLiant Power</u> uirements for your selecte ww.hp.com/go/hppowera	C power supply option kit. If a different power <u>Cables</u> web page. d system, please use the HPE Power Advisor <u>advisor</u> . HPE Server power supplies can be found					
System Fans	center. All pre-configured server jumper cord is also includ cord is required, please of To review the power req Tool located at <u>http://w</u> Power specifications and at <u>http://www.hp.com/s</u>	rs ship with a standard 6-f ded with each standard AC heck the ProLiant Power uirements for your selecte ww.hp.com/go/hppower technical content for all H	oot IEC C-13/C-14 jumper cord (A0K02A). This C power supply option kit. If a different power Cables web page. d system, please use the HPE Power Advisor advisor . HPE Server power supplies can be found					
System Fans One of the following depending on	center. All pre-configured server jumper cord is also includ cord is required, please of To review the power req Tool located at <u>http://w</u> Power specifications and at <u>http://www.hp.com/s</u>	rs ship with a standard 6-f ded with each standard AC heck the ProLiant Power uirements for your selecte ww.hp.com/go/hppower technical content for all H go/proliant/powersupply	oot IEC C-13/C-14 jumper cord (A0K02A). This C power supply option kit. If a different power Cables web page. d system, please use the HPE Power Advisor advisor . IPE Server power supplies can be found					

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 (719067-B21) will ship with 6 High efficiency fans.

	Serial	Optional
	Video	2 (1 front, optional via Universal Media Bay, 724865-B21), 1 back not active simultaneously
	FlexibleLOM Network Ports	4 x 1Gb ports shipping standard with optional FlexibleLOM
	HPE iLO Remote Management Network Port	1 Gb Dedicated
	Micro SD Slot	1 Micro SD
	NOTE: The Micro SD slot is not a an SD card into the SD slot while	a hot-pluggable device. Customers should not attempt to plug e the server is powered.
	USB 3.0	Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay
	SID (Systems Insight Display) NOTE: Not shipping as standard	Optional d. Available as a CTO option or as a field upgrade (768900-B21).
Operating Systems and Virtualization Software Support for ProLiant	<u>Microsoft Windows Server</u> <u>Canonical Ubuntu</u> <u>Red Hat Enterprise Linux (RHE</u> <u>SUSE Linux Enterprise Server (</u> Oracle Solaris	
Servers	<u>VMware</u> <u>Citrix XenServer</u> NOTE: For more information on Servers for OS and Virtualization	Hewlett Packard Enterprise's Certified and Supported ProLiant n Software and latest listing of software drivers available for your Matrix at: <u>http://www.hp.com/go/ossupport</u> and our driver com/support/DL380Gen9.

NOTE: The Universal Media bay provides front VGA and 2xUSB 2.0, plus ability to add 2SFF and Optical.

NOTE: Universal Media bay is only available with 8 or 8+8SFF chassis & can be populated in Bay1 only.

HPE Legacy Mode (FIO only, 758959-B22)

NOTE: UEFI is the default mode for CTO and BTO SKUs. Can change default to legacy via CTO.

Industry Standard	ACPI 2.0b Compliant
Compliance	PCIe 3.0 Compliant
	PXE Support
	WOL Support
	Microsoft® Logo certifications
	USB 3.0 Support
	USB 2.0 Support
	NOTE: This support is on the optional Universal Media Bay.
	Energy Star
	ASHRAE A3/A4
	NOTE: The DL380 Gen9 is now one of the first HPE ProLiant Gen9 Servers with Extended
	Ambient Support up to 45 C for data center infrastructures designed for better energy
	efficiency such as but not limited to fresh air cooling.
	For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: http://www.hp.com/servers/ASHRAE
	UEFI (Unified Extensible Firmware Interface Forum)
	NOTE: UEFI is the default for the DL380 Gen9. Legacy model can be selected in the field or as a CTO option (758959-B22).
Graphics	Integrated Matrox G200eH2 video standard with 16MB of Video RAM
	• 1280 x 1024 (32 bpp)
	• 1920 x 1200 (16 bpp)
	HPE iLO 4 On System Management Memory
	• 16 MB Flash
	• 256 MB DDR3 with ECC (112 MB after ECC and video)
HPE Server	HPE Server UEFI /Legacy ROM
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. HPE ProLiant Gen9
	platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot Mode.

NOTE: The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <u>http://www.hp.com/go/proliantuefi/docs</u>

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

- Secure Boot
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives

- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using HPE 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 <u>http://www.hp.com/go/proliant/uefi</u>. NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI. NOTE: HPE Legacy FIO Mode Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory.

Form Factor	2U Rack form facto	
	8 SFF & 24SFF Driv	
depending on		in (8.73 x 44.55 x 67.94 cm)
model	4 LFF & 12LFF Driv	•
	3.44 x 17.54 x 28.75	in (8.73 x 44.55 x 73.02 cm)
	NOTE: Dimensions	s without bezel.
Embedded	HPE Integrated	Monitor your servers for ongoing management, service alerting, reporting and
Management	Lights-Out (HPE iLO)	remote management with HPE 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 <u>http://www.hp.com/go/ProLiant/uefi</u>
	RESTful API	A single programmatic web interface that allows you to manage and monitor your
		server infrastructure using basic HTTP operations (GET, PUT, POST, DELETE and
		PATCH). RESTful API for iLO 4 conforms to the Redfish 1.0 DMTF standard (iLO
		firmware version v2.30 or higher required for Redfish conformance). For more
		details visit: http://www.hp.com/go/restfulapi
	Intelligent	Provision servers by discovering and deploying 1 to few servers with Intelligent
	Provisioning	Provisioning. Learn more at http://www.hp.com/go/intelligentprovisioning .
	Embedded Remot	e Hewlett Packard Enterprise's embedded remote support, used with Insight Online
	Support	direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to
		transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett
		Packard Enterprise Authorized Partner for automated phone home support. Learn
		more at http://www.hp.com/go/insightonline/info
Server utilities	Smart Update	Optimize firmware and driver updates with Smart Update solutions
		including Smart Update Manager (SUM) and Service Pack for
		ProLiant (SPP). Learn more
		at http://www.hp.com/go/smartupdate
	HPE Systems Insig	ght Manager
	(HPE SIM)	

Security

Warranty

Standard Features

	HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for non-HPE servers. HPE SIM also integrates with SUM to provide quick and seamless
	firmware updates. Learn more at <u>http://www.hp.com/go/sim</u> .
Scripting Tool Kit and Windows PowerShell	Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at http://www.hp.com/go/ProLiantSTK
	or http://www.hp.com/go/powershell
RESTful Interface Tool	Scripting tool to provision servers using iLO 4 RESTful API to discover and deploy servers at scale. Learn more at <u>http://www.hp.com/go/resttool</u>
HPE iLO Mobile Application	Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please
	visit: http://www.hp.com/go/ilo/mobileapp
HPE Insight Online	HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty, Care Pack or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at <u>http://www.hp.com/go/insightonline/info</u> .
Power-on password Serial interface control Administrator's password UEFI	
iLO 4 (Integrated Lights-Out 4) Integrated Lights-Out can be d iLO Advanced supports directo TPM 1.2	-
network of Hewlett Packard En support and repair is available f setup is available for 90 days fr through HPE Care Pack service	obal limited warranty and supported by HPE Services and a worldwide terprise Authorized Channel Partners resellers. Hardware diagnostic for three years from date of purchase. Support for software and initial om date of purchase. Enhancements to warranty services are available is or customized service agreements. Hard drives have either a one year the specific hard drive QuickSpecs for details.

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

and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.

Optional Features

Embedded Management	iLO Advanced	HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at http://www.hp.com/go/iloadvanced.
Server Management	HPE Insight Control	HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hp.com/go/insightcontrol .
	HPE OneView	Powerful converged management of servers, storage, and network for IT service automation and infrastructure simplicity, see http://www.hp.com/go/oneview
	HPE Insight Cluster Management Utility (CMU)	HPE 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 .
Rack and Power Infrastructure	solutions for ex infrastructure, are the foundat designed to hel capabilities to r industry leader power, cooling,	Power Infrastructure products and services create highly efficient and intelligent disting or new IT data centers. HPE Rack and Power infrastructure solutions – rack power protection and management, performance optimized data centers (PODs) – tion you are looking for to help secure your long-term IT success. These products are p you react to changes in the industry. They deliver efficient, easy-to-use nanage, monitor, deploy and provision infrastructure from entry to enterprise. As an , Hewlett Packard Enterprise is uniquely positioned to address the key concerns of cable management and system access. HPE Rack and Power Infrastructure.
High Performance Clusters	optimized for Hi system options i Enterprise Serve	tforms are specifically engineered, factory-integrated large-scale ProLiant clusters on Performance Computing, with a choice of servers, networks and software. Operating include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux er, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies /www.hp.com/go/clusters.
	as part of the H interconnects a cluster. Flexible	erformance Computing (HPC) interconnect technologies are available for this server IPE Cluster Platform portfolio. These high-speed InfiniBand and Gigabit are fully supported by Hewlett Packard Enterprise when integrated within an HPE e, validated solutions can be defined with the help of configuration ww.hp.com/techservers/clusters/ucp/index.html
HPC Interconnects	under the HPE supported by H Solutions can b	rformance Computing (HPC) interconnect technologies are available for this server Cluster Platform product portfolio. These high-speed interconnects are fully lewlett Packard Enterprise when they are part of these configure to order clusters. e defined with a lot of flexibility with the help of configuration tools. Please visit the ro configure HPEC Clusters with InfiniBand

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 HPE 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, HPE data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.

• Data Archive and Migration Software

Hewlett Packard Enterprise'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)

Hewlett Packard Enterprise'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

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

Storage Device Management Software

Maximize your investment in HPE storage and networking with software that enables hardwarespecific configuration, performance tuning and connectivity management.

HPE StoreVirtual VSA

With HPE 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. HPE ProLiant Gen9 servers include a 3-year limited license for HPE StoreVirtual VSA software with 1TB of capacity at no extra cost. Simply select to install HPE 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 SimpleSCE is a guided self-service tool to help sales and non-technical people provide customers with initial
configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in
your existing ordering processes. If you require "custom" rack configuration or configuration for products
not available in SCE, please contact Hewlett Packard Enterprise's Customer Business Center or an
Authorized Partner for assistance. https://h22174.www2.hp.com/SimplifiedConfig/Index.

Service and Support

Service and Support	HPE Technology Services for Industry Standard Servers
	HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.
	Protect your business beyond warranty with HPE Care Pack Services HPE 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 selected support.
Optimized Care	Supports maintaining servers at optimum performance availability
	HPE Proactive Care with 24x7 coverage, three year Care Pack Service
	HPE Proactive Care helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HPE. This Care Pack Service combines three years' proactive reporting and advice with our 24x7 coverage and enhanced escalation management, four hour hardware response time and two hour call back for software questions on leading industry standard software running on your HPE ProLiant server. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf
Standard Care Package	Supports maintaining high level of server availability
	HPE Proactive Care with 6 hour call-to-repair commitment, three year Care Pack Service
	HPE Proactive Care while of our call-for epair comment, finder year Care Fack Service HPE Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice when your products are connected to HPE. This Service combines three years' proactive reporting and advice with our highest level reactive coverage - Hewlett Packard Enterprise's 24x7, six hour hardware call-to-repair. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. Service includes collaborative software support for Independent Software Vendors software (Red Hat, VMWare, Microsoft, etc.) running on your HPE ProLiant/Apollo server. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf
Related Services	HPE Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice when your products are connected to HPE. This Service combines three years' proactive reporting and advice with our highest level reactive coverage - Hewlett Packard Enterprise's 24x7, six hour hardware call-to-repair. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. Service includes collaborative software support for Independent Software Vendors software (Red Hat, VMWare, Microsoft, etc.) running on your HPE ProLiant/Apollo server.

Factory Express for Servers and storage –

Service and Support

	 HPE Factory Express offers configuration, customization, integration and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed. Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. Hewlett Packard Enterprise products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAxxxx3PAR suite, XP, rackable tape libraries and configurable network switches. For more information on Factory Express services for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.
	Additional HPE Care Pack services can be found at: <u>http://www.hp.com/go/cpc</u>
Connect your devices to HPE	• Unlock all of the benefits of your technology investment by connecting your products to HPE. Achieve up to 77% reduction in down time, near 100% diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support.
HPE Support Center	Personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more http://www.hp.com/go/hpsc
	Hewlett Packard Enterprise's Support Center Mobile App** allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Care Pack or Hewlett Packard Enterprise contractual support agreement.
	** HPE Support Center Mobile App is subject to local availability
Parts and Materials	Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.
	Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.
	The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

Service and Support

For more information To learn more on HPE ProLiant servers, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner or visit: <u>http://www.hp.com/services/proliant</u>

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. Hewlett Packard Enterprise 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 Hewlett Packard Enterprise 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: HPE SFF Hard Drive Blank Kit or P/N 666986-B21: HPE 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: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

	Entry	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 P840/4GB 12LFF 2x800W PS Base Server	HP ProLiant DL380 Gen9 E5-2620v3 1P 16GB-R P440ar 8SFF 500W PS Base Server	
Processor	Intel® Xeor	<u>ו</u> ו® E5-2609v3	Intel® Xeon®	[®] E5-2620v3	
Number of Processors		(One		
Memory	8GB (1x8GB Registered DIMMs, 2133 MHz)16GB (1x16GB Registered DIMMs, 2133 INOTE: With the E5-2609v3 this memory DIMMNOTE: with the E5-2620v3 this memorywill only operate at 1600MHz.will only operate at 1866MHz		0v3 this memory DIMM		
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter				
Storage Controller	NOTE: Default is AHCI	Smart Array B140i I off chipset, Smart Array Ied on SATA model.	HPE Flexible Smart Array P840/4G Controller	HPE Flexible Smart Array P440ar/2GB	
Hard Drive	None ship 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)	

Pre-configured Models

Optical Drive	Mob	tional via HPE ile USB DVDRW e (701498-B21)	Optional D (726536-B2 RW (72653 the Univer Bay (7248	1) or DVD- 7-B21) via sal Media	Optional via HF Mobile USB DVD Drive (701498-B	RW	Optional DVD-ROM (726536-B21) or DVD- RW (726537-B21) via the Universal Media Bay (724865-B21)
PCI-Express Slots		3 PCIe slots (+	+3 PCI slots av	railable with เ	upgrade option, seco	nd pro	cessor required)
Power Supply	(1) H	PE 500W Flex Slot Platinum Power Supply			(2) HPE 800W Flex Slot Platinum Power Supply		(1) HPE 500W Flex Slot Platinum Power Supply
Fans		4 hot plug fans, redundant			6 hot plug high performance fans, redundant		4 hot plug fans, redundant
Management	iLO	O Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional) Control (optional), HPE OneView (optional)					nced (optional), Insight
Form Factor		Rack (2U), HPE	E Easy Install F	Rails	Rack (2U), HPE	E Easy	Install Rails with CMA
Warranty	Serv	er Warranty inclu	des 3-Year Pa		abor, 3-Year Onsite s ponse	suppor	t with next business day
		Performanc	e Models		High Perforn	nance	Models
[SKU Number]		752689-	-B21	80)3860-B21		803861-B21
Model Name		HP ProLiant DL3 2650v3 2P 32G 8SFF 2x10Gb 2: Serve	B-R P440ar x800W Perf	2690v3 2P 32GB P440ar		HP ProLiant DL380 Gen9 E5- 2690v3 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W OneView Server	
Processor		Intel® Xeon® E5-2650v3 Intel® Xeon®		® E5-26	590v3		
Number of Processors	5	Тwo					
Memory		32GB (2x16GB Registered DIMMs, 2133 MHz)					
Network Controller		HPE Embedded 4x1Gb, plus 2x10Gb-T Flexible LOM					
Storage Controller		HPE Flexible Smart Array P440ar/2GB					
Hard Drive				None	e ship standard		
Internal Storage				8 S	FF HDD Bays		
Optical Drive Bay		Optional Universal Media Bay (724865-B21) Optional via Universal Medi Bay					onal via Universal Media Bay
Optical Drive		Optional DVD-ROM (726536-B21) or DVD-RW (726537-B21) via the Universal Media Bay (724865-B21)					
PCI-Express Slots			6 PCIe slo	ts (includes s	second riser slot upg	rade oj	ption)
Power Supply		(2) HPE 800W Flex Slot Platinum Power Supply				bly	
Fans		6 hot plug fans, redundant 6 hot plug high perform			nance fans, redundant		
Management		(standard), iLO Advand (standard), HPE OneV			Management (standard), itelligent Provisioning andard), iLO Advanced andard), HPE OneView Advanced (Standard)		
Energy Star		Meets Energy Star requirements					
Form Factor		Rack (2U), HPE Easy Install Rails with CMA					

Pre-configured Models

Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business
	day response
NOTE: UEFI is the standard d	efault for all Predefined models.

Country Code Key	JULI BEI	Worldwide J is to be ordered in all countries other than Japan or PRC.
	xx1 = 291	Japan
	xx1 = AA1	PRC

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

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

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

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

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

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

[Chassis]	HP ProLiant DL380	HP ProLiant DL380	HP ProLiant DL380	HP ProLiant DL380	HP ProLiant DL380	
	Gen9 8SFF	Gen9 NVMe 6 Solid	Gen9 24SFF	Gen9 4LFF	Gen9 12LFF	
	Configure-to-order	State Drive Express	Configure-to-order	Configure-to-order	Configure-to-order	
	Server	Bay Configure-to-	Server	Server	Server	
	Server	order Server	Server	Server	Server	
SKU Number	719064-B21	810393-B21	767032-B21	767033-B21	719061-B21	
Processor		2 (optional) x HPE Smart Socket Guide				
DIMM Slots	24 DIMM slots for RDIMM, LRDIMM DDR4 Memory					
Storage Controller	HPE Dynamic	Dynamic Smart Array B140i, plus optional HPE Flexible Smart Array or Smart HBA controller				
PCle	3 PCIe s	slots (+3 PCI slots avail	able with upgrade opti	on, second processor re	equired)	
Drive Cage	8SFF Hot Plug (+8SFF and Universal Media Bay Optional)	8SFF + 6NMVe Hot Plug (+8SFF or Universal Media Bay Optional)	24SFF Hot Plug	4LFF Hot Plug	12LFF Hot Plug	
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter, plus optional HPE Flexible LOM or stand up	HPE Embedded 1Gb Ethernet 4- port 331i Adapter		Ethernet 4-port 331i A lexible LOM or stand u		
	card					
Fans	4 hot plug fans, redundant	6 hot plug high p redur		4 hot plug fans, redundant	6 hot plug high performance fans, redundant	
Management	iLO Management (Provisioning (standard) nal), HPE OneView (op		nal), Insight Control	
USB	1 front, 2 internal, 2	1 front, 1 internal, 2	1 front, 2 internal, 2	No front U	SB support	
	rear	rear	rear			
Ears			HPE Quick Release Ear	S		

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

HPE Processors	 Select one or two processors from Core options-Processor section below, If one processor is desired, select one xxxxx-L21 If two processors are desired, select one xxxxx-L21 and one xxxxx-B21. Up to 2 processors supported. Mixing different processor models is not supported. DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed. For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) = version number. 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. HPE memory from previous generation servers are not qualified or warranted with this HPE ProLiant Server. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9. If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available. Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient 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.
HPE Power Supplies	 Select one or more power supplies from Core Options-Power Supplies section below: Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: 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	e Additional Factory Integratable Options

HPE Unique	Select one or more Unique options from Core options section below.
Options	
	• This section may contain FIO options, please see the Unique options section below.
	 FIO indicates that this option is only available as a factory installable option.

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

• To take advantage of the additional PCI slot upgrade, the second processor must be installed.

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

people to use for any installation.

HPE Cooling Options	Select one or more Fan Kits from Core options section below.
	 This section may contain FIO options, please see HPE Cooling Options section below. FIO indicates that this option is only available as a factory installable option.
HPE Rail Kits	Select one type of rail kit from Additional options section below.
	 Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server. To assist in the installation of the server into the rack, an optional installation tool is available by contacting your local services representative (p/n 695539-001). See HPE Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.
	CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all

Rack Server installations. Please refer to your installation instructions for proper tools and number of

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

representative to		
HPE Unique Options	HP DL380 Gen9 NVMe 6 Solid State Drive Express Bay Enablement Kit NOTE: This option provides support for up to 6NVMe drives, and can only be populated in BAY2 in SFF chassis only, can be used with Bay1 and Bay 3 populated.	774741-B21
	NOTE: The HPE DL380 Gen9 High Performance Fan Kit is required for NVMe support (719079-B21)	
	NOTE: The PCIe card in this enablement kit can only be populated in slot2 (primary) or slot 5 (secondary).	
	NOTE: For true x16 support with this option a secondary riser (719073-B21) is needed (second processor required).	
	NOTE: Kit includes Mylar film for Universal Media Bay (724865-B21) support to ensure optimal airflow.	
	HP DL380 Gen9 Universal Media Bay Kit NOTE: The HPE DL380 Gen9 Universal Media bay provides front VGA and 2xUSB 2.0; plus support for 2xSFF front drives (724864-B21) and ODD support (No included); and can only be located in Bay1 in either a 8SFF or 8+8SFF front end.	724865-B21
	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,	719082-B21
	limitations apply	
	HP DL380 Gen9 High Performance Fan Kit NOTE: This kit is required for specific Ambient temperature environments,	719079-B21
	more details here: <u>http://www.hp.com/servers/Ashrae</u> . NOTE: This kit is also required to support Passive GPUs. NOTE: This kit provides max cooling for your Server	
	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 a 24SFF (CTO chassis or field upgraded) or 12LFF (719061-B21) front end.	724864-B21
	NOTE: 2SFF Rear drives are not supported with 160W Processors	
	HP DL380 Gen9 3LFF Rear SAS/SATA Kit NOTE: This is only supported in the 12LFF chassis (719061-B21). NOTE: 3LFF rear drives will consume the 2nd riser expansion slot. NOTE: 3LFF Rear drives are not supported with 160W Processors	768856-B21
	HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL.	719076-B21
	NOTE: This replaces the standard Primary riser in slot1. HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit	719073-B21

	Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL HP DL380 Gen9 8SFF Bay1 Cage/Backplane Kit NOTE: To add an additional 8SFF drive cage in Bay1. NOTE: To get to 16SFF total please populate bay 2 with 768857-B21 (from an 8SFF starting point). NOTE: This ships with 6 High Efficiency Fans.	719067-B21
	NOTE: Selecting this option does not allow you to select the Universal Media Bay. HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit NOTE: To add an additional 8SFF drive cage in Bay 2. This is the optimal solution to upgrade to 16SFF total and allows the flexibility to add the Universal Media Bay (724865-B21) for 2 additional SFF or Optical.	768857-B21
	HP 12Gb SAS Expander Card with Cables for DL380 Gen9 NOTE: SAS expander to enable 24SFF field upgrade.	727250-B21
	HP DL380 Gen9 Systems Insight Display Kit NOTE: The Systems Insight Display no longer ships as standard but is available as a Factory Integrated or field upgrade option.	768900-B21
	HP Legacy FIO Mode Setting NOTE: UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.	758959-B22
	HP DL380 Gen9 Rear Serial Port and Enablement Kit	768896-B21
HPE Processors	Entry Processors - E5-2600v3 series Processors	
	HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	719052-B21
		719052-B21 719052-L21
	Kit HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO	
	Kit HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor	719052-L21
	Kit HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO	719052-L21 719053-B21
	Kit HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit	719052-L21 719053-B21
	Kit HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FI0 Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FI0 Processor Kit Base Processors - E5-2600v3 series Processors HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor	719052-L21 719053-B21 719053-L21
	Kit HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FI0 Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FI0 Processor Kit Base Processors - E5-2600v3 series Processors HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FI0	719052-L21 719053-B21 719053-L21 719049-B21
	Kit HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FI0 Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FI0 Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FI0 Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.4GHz/8-core/20MB/85W) Processor	719052-L21 719053-B21 719053-L21 719049-B21 719049-L21
	Kit HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit Base Processors - E5-2600v3 series Processors HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	719052-L21 719053-B21 719053-L21 719049-B21 719049-L21 719050-B21

HP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit	719058-B21
HP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit	719058-L21
HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	719060-B21
HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit	719060-L21
HP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	779556-B21
HP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit	779556-L21
Performance Processors - E5-2600v3 series Processors	
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit	719044-B21
HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit	719044-L21
HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor Kit	719046-B21
HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) FIO Processor Kit	719046-L21
HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	719048-B21
HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit	719048-L21
HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor Kit	719054-B21
HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit	719054-L21
HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor Kit	719055-B21
HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit	719055-L21
HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor Kit	719056-B21
HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit	719056-L21
HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit	719057-B21
HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor Kit	719057-L21
HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	719059-B21
HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	719059-L21

QuickSpecs

HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit	762760-B21
HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit	762760-L21
HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	762764-B21
HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	762764-L21
HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor Kit	762766-B21
HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit	762766-L21
HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit	762768-B21
HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit	762768-L21
HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit	781913-B21
HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit	781913-L21
HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit	781915-B21
HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit	781915-L21

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).

HPE Memory Registered DIMMs (RDIMMs) for E5-2600v3 Series

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

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

QuickSpecs

NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. Laad Reduced DIMMs (LRDIMMs) for E5-2600V3 Series NOTE: The following memory is supported by the E5-2600V3 series Processors. HP 64G8 (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15 IS Load Reduced 726724-82 Memory Kit HP 35GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15 IS Load Reduced Memory Kit 726720-82 HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 IS Load Reduced Memory Kit 726720-82 HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 IS Load Reduced Memory Kit 726720-82 HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 IS Load Reduced Memory Kit 726720-82 HP E0Ftical Drives HP 95mm SATA DVD-ROM JackBlack Gen9 Optical Drive 726536-82 NOTE: The Universal Media Bay (724865-821) is required for this option. HP 95mm SATA DVD-RW JackBlack G9 Optical Drive 726537-82 NOTE: The Universal Media Bay (724865-821) is required for this option. HP 05mm SATA DVD-RW JackBlack G9 Optical Drive 701498-82 NOTE: This is only supported on USB 3.0 ports 701498-82 701498-82 701498-82 NOTE: This de SAS 10K rpm SFF (25-inch) SC Enterprise 3yr Warranty Hard 791034-827 791034-827 HP EDrives SAS Hot Plug SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 781518-827			
Load Reduced DMMs (LRDIMMs) for E5-2600v3 SeriesNOTE: The following memory is supported by the E5-2600v3 series Processors.HP 64GB (tv84GB) Quad Rank x4 DDR4-2133 CAS-15-15 Load ReducedHP 53CB (tv35GB) Quad Rank x4 DDR4-2133 CAS-15-15 Load ReducedHP 53CB (tv35GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory KitHP 16GB (tv16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced MemoryHP 16GB (tv16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced MemoryKitNOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHzHPE Optical DrivesHP 95mm SATA DVD-ROM JackBlack Gen9 Optical DriveNOTE: The Universal Media Bay (72485-B21) is required for this option.HP 95mm SATA DVD-RW JackBlack Gen9 Optical DriveNOTE: The Universal Media Bay (72485-B21) is required for this option.HP Mobile USB Non Leaded System DVD RW DriveNOTE: This is only supported on USB 3.0 portsHPE DrivesSAS Hot Plug SFF (2.5-inch) SC Enterprise S12 Bayr Warranty HardDriveHP 12TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty HardDriveHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty HardHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty HardHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty HardHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty HardHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty HardHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty HardHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty		HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B2 ²
NOTE: The following memory is supported by the E5-2600v3 series Processors. HP 64G8 (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced 726724-82 Memory Kit 149 2506 (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced 726720-82 Memory Kit 149 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory 726720-82 Memory Kit 149 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory 726720-82 MOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. 726536-82 NOTE: The Universal Media Bay (724865-821) is required for this option. 726537-82 NOTE: The Universal Media Bay (724865-821) is required for this option. 149 P3mm SATA DVD-RW JackBlack Gen9 Optical Drive 726537-82 NOTE: The Universal Media Bay (724865-821) is required for this option. 149 P3mm SATA DVD-RW JackBlack Gen9 Optical Drive 701498-82 NOTE: The Universal Media Bay (724865-821) is required for this option. 149 P3mm SATA DVD-RW JackBlack Gen9 Optical Drive 701498-82 NOTE: The Universal Media Bay (724865-821) is required for this option. 149 P3mm SATA DVD-RW JackBlack Gen9 Optical Drive 701498-82 NOTE: The Universal Media Bay (724865-821) Drives 149 Mobile USB Non Leaded System DVD RW Drive 701498-82 MPTE: Drive SAS Hot Plug SFF (2.5-inch) SC Enterprise Jyr Warranty Hard<		• •	3MHz.
HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced 726724-82 Memory Kit HP 32G6 (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced 726722-82 Memory Kit HP 165B (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory 726720-82 Kit NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. 726720-82 NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. 726536-82 NOTE: The Universal Media Bay (724865-B20) is required for this option. HP 25mm SATA DVD-RVD JackBlack G9 Optical Drive 726537-82 NOTE: The Universal Media Bay (724865-B20) is required for this option. HP 95mm SATA DVD-RVD JackBlack G9 Optical Drive 701498-82 NOTE: The Universal Media Bay (724865-B20) is required for this option. HP 40518 USS Non Leaded System DVD RW Drive 701498-82 NOTE: The Universal Media Bay (724865-B20) is required for this option. HP 40518 USS Non Leaded System DVD RW Drive 791034-B21 HP Drives SAS Hot Plug SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 791034-B21 Drive HP 13TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785069-B22 HP 000GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785069-B22 HP 000GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard			
Memory Kit HP 32GB (tx22GB) Quad Rank x4 DDR4-2133 CAS-15-15 Load Reduced 726722-82 Memory Kit HP 16GB (tx16GB) Dual Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory 726720-82 Kit NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. 726536-82 HP 20ptical Drives HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive 726537-82 NOTE: The Universal Media Bay (724865-B21) is required for this option. HP 9.5mm SATA DVD-ROV JackBlack Ge9 Optical Drive 726537-82 NOTE: The Universal Media Bay (724865-B21) is required for this option. HP 9.5mm SATA DVD-ROV JackBlack Ge9 Optical Drive 726537-82 NOTE: The Universal Media Bay (724865-B21) is required for this option. HP 9.5mm SATA DVD-ROV JackBlack G9 Optical Drive 701498-82 NOTE: This is only supported on USB 3.0 ports NOTE: This is only supported on USB 3.0 ports 791034-821 HP 13TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 781518-821 HP 12TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 78506-9.822 Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 78807-822 HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 781516-827 HP 900GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 781516-827			
Memory Kit HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory 726720-82 Kit NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. HPE Optical Drives HP 95mm SATA DVD-ROM JackBlack Gen9 Optical Drive 726536-82 NOTE: The Universal Media Bay (724865-B20 is required for this option. 726537-82 NOTE: The Universal Media Bay (724865-B20 is required for this option. 701498-82 NOTE: The Universal Media Bay (724865-B20 is required for this option. 701498-82 NOTE: The Universal Media Bay (724865-B20 is required for this option. 701498-82 NOTE: The Universal Media Bay (724865-B20 is required for this option. 701498-82 MP Simm SATA DVD-RW JackBlack (90 Optical Drive 701498-82 NOTE: This is only supported on USB 3.0 ports 701498-82 HP 18TB 12G SAS 10K rpm SFF (25-inch) SC Enterprise 3yr Warranty Hard 791034-821 Drive HP 12TB 12G SAS 10K rpm SFF (25-inch) SC Enterprise 3yr Warranty Hard 781518-821 HP 2006B 12G SAS 10K rpm SFF (25-inch) SC Enterprise 3yr Warranty Hard 78506-822 Drive HP 900GB 12G SAS 10K rpm SFF (25-inch) SC Enterprise 3yr Warranty Hard 78837-822 HP 900GB 12G SAS 10K rpm SFF (25-inch) SC Enterprise 3yr Warranty Hard 78837-822 Drive H			726724-B2 [°]
Kit NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. HPE Optical Drives HP 95mm SATA DVD-ROM JackBlack Gen9 Optical Drive 726536-B2 NOTE: The Universal Media Bay (724865-B20) is required for this option. HP 95mm SATA DVD-RW JackBlack G9 Optical Drive 726537-B2 NOTE: The Universal Media Bay (724865-B20) is required for this option. HP 95mm SATA DVD-RW JackBlack G9 Optical Drive 701498-B2 NOTE: This is only supported on USB 3.0 ports 701498-B2 701498-B2 HP 12TB 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 781518-B21 HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785069-B21 Drive HP 9.00GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785069-B21 HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 78827-B22 Drive HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 782518-B21 HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 78287-B22 Drive HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 782887-B21 HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard <td></td> <td></td> <td>726722-B2</td>			726722-B2
NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz. HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive NOTE: The Universal Media Bay (724865-B20) is required for this option. HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive NOTE: The Universal Media Bay (724865-B20) is required for this option. 726537-B2 HP Mobile USB Non Leaded System DVD RW Drive NOTE: This is only supported on USB 3.0 ports 701498-B2 HP Tatts 12G SAS 10K rpm SFF (2.5-inch) Enterprise (ENT) Drives HP 12TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 791034-B22 HP 12TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive 781518-B22 HP 12TB 6 GSAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 78069-B22 Drive 78856-B22 HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785069-B22 Drive 78887-B22 HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785069-B22 Drive 78900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785069-B22 Drive 78900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785069-B22 HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 785067-B22 Drive 78900GB 12G SAS 10K			726720-B2 [°]
NOTE: The Universal Media Bay (724865-B21) is required for this option.HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive726537-B2NOTE: The Universal Media Bay (724865-B21) is required for this option.701498-B2HP Mobile USB Non Leaded System DVD RW Drive701498-B2NOTE: This is only supported on USB 3.0 ports701498-B2HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) DrivesHP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard791034-B21Drive781518-B27HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive781518-B27HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive781518-B27HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard788069-B27DriveHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard748387-B27DriveHP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard748387-B27DriveHP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive759212-B27HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive759212-B27HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652589-B27HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive759210-B27HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652583-B27HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652589-B27HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Ha			3MHz.
HP 95mm SATA DVD-RW JackBlack G9 Optical Drive726537-82NOTE: The Universal Media Bay (724865-B21) is required for this option.701498-82HP Mobile USB Non Leaded System DVD RW Drive701498-82NOTE: This is only supported on USB 3.0 ports701498-82HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) DrivesHP 18TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard791034-821DriveHP 12TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive781518-821HP 12TB 12G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty718162-821Hard DriveHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard785069-821DriveHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard748387-821DriveHP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard748387-821DriveHP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard759212-821HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard759212-821HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard759210-821HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652583-821HP 450GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652583-822HP 450GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive6525762-7821HP 450GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652578-7821HP 450GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty H	HPE Optical Driv	es 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 Mobile USB Non Leaded System DVD RW Drive NOTE: This is only supported on USB 3.0 ports701498-B2HPE DrivesSAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 18TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive HP 12TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive781518-B21 781518-B22 781518-B22 HP 12TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty HP 12TB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive785069-B21 785069-B22 DriveHP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard 		NOTE: The Universal Media Bay (724865-B21) is required for this option.	
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HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive759208-B21HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard785067-B21DriveHP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652611-B21HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652641-B21HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652564-B21HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652605-B21			652572-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard785067-B21DriveHP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652611-B21HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652564-B21HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652605-B21			759208-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652611-B21HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652564-B21HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652605-B21		HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard	785067-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652564-B21HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive652605-B21			652611-R21
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 Hard Drive	765424-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 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 Drive	793671-B21
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 Drive	793669-B21
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 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 1yr Warranty Hard Drive	655708-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
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 Drive	765255-B21
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 Drive	793667-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC 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 Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.2TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty FIO Solid State Drive	822567-B21
HPE 1.6TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty FIO Solid State Drive	822563-B21
HPE 800GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty FIO Solid State Drive	822559-B21
HPE 400GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty FIO Solid State Drive	822555-B21
12G SAS Read Intensive Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty FIO Solid State Drive	816576-B21
HPE 1.92TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty FIO Solid State Drive	816572-B21
HPE 960GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty FIO Solid State Drive	816568-B21
HPE 480GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty FIO Solid State Drive	816562-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty	779176-B21
H2 Solid State Drive	
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779172-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779168-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779164-B21
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid	762263-B21
State Drive	7/00/1 001
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
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 3yr Wty Solid State Drive	691868-B21

HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691866-B21
HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream	691864-B21
3yr Wty Solid State Drive	
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 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 Solid State Drive	739898-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21
HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739888-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717969-B21
6G SATA Hot Plug SFF Value Endurance (2.5-inch) Enterprise Value G1 Solid	
State Drives	
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756657-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756636-B21
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 Drives	
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	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

od SATA Hot Flug SFF (2.5-incl) SC Read intensive Solid State Drives	
HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816933-B21
HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816929-B21
HP 1.92TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816923-B21
HP 1.92TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816919-B21
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HP 960GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816913-B21
HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816909-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HP 480GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789145-B21
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HP 480GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816903-B21
HP 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816899-B21
HP 240GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816893-B21
HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816889-B21
HP 240GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789135-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HP 120GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816883-B21
HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816879-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804575-B21
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HP 1.92TB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	817015-B21
HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	817011-B21
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-B21
HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816999-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21

HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816989-B21
HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816985-B21
HP 240GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816979-B21
HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816975-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816965-B21
HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816969-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691860-B21
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-B21
6G SATA Hot Plug LFF 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	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764945-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764943-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764941-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764939-B21
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 Wty Solid State Drive	757342-B21
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Conveter Enterprise Value 3yr Wty Solid State Drive	739900-B21

HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718183-B21
HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive	739890-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718177-B21
6G SATA Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	718171-B21
HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734362-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789147-B21
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 240GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789137-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
6G SATA Hot Plug LFF (3.5-inch) SC Write Intensive Solid State Drives	
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives	
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804634-B21
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	832417-B21
HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
HPE NVMe PCIe Read Intensive SFF (2.5-inch) Solid State Drives	
HP 2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764908-B21
HP 1.2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764906-B21
HP 400GB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764904-B21
HPE NVMe PCIe Mixed Use SFF (2.5-inch) Solid State Drives	
HP 2TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765044-B21
HP 1.6TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765038-B21
HP 800GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765036-B21
HP 400GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765034-B21
HPE NVMe PCIe Write Intensive SFF (2.5-inch) Solid State Drives	

HP 2TB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764894-B21
HP 1.6TB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764892-B21
HP 800GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736939-B21
HP 400GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736936-B21
NOTE: The NVMe CTO chassis (810393-B21) or the NVMe Express Bay Enableme	nt kit (774741-
B21) are required to support these drives	
NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio using	the Operating
System inbox drivers, full detail on the Solid State Drive QuickSpecs:	
http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04154378	
M.2 SSD	
HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	777894-B21
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.	
NOTE: M.2 supports Software RAID only	
NOTE: No HPE Flexible Smart Array supported	
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 NVMe 6 Solid State Drive Express Bay Enablement Kit	774741-B21
NOTE: This option provides support for up to 6NVMe drives, and can only be	
populated in BAY2 in SFF chassis only, can be used with Bay1 and Bay 3	
NOTE: The HPE DL380 Gen9 High Performance Fan Kit is required for NVMe support (719079-B21)	
NOTE: The PCIe card in this enablement kit can only be populated in slot2	
(primary) or slot 5 (secondary)	
NOTE: For true x16 support with this option a secondary riser (719073-B21) is	
needed (second processor required)	
NOTE: Kit includes Mylar film for Universal Media Bay (724865-B21) support	
to ensure optimal airflow	
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	
matrix:	· · · · /
http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA5-4154EN	W&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.

HPE Networking 1 Gigabit Ethernet adapters

HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
HP Ethernet 1Gb 4-port 366T Adapter	811546-B21
10 Gigabit Ethernet adapters	
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. **NOTE:** Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiberoptic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information: <u>http://www.hp.com/go/ProLiantNICs</u>.

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 fiberoptic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information: <u>http://www.hp.com/go/ProLiantNICs</u>.

HPE InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter NOTE: The RHEL6.5 driver is not part of SPP, but may be downloaded here: <u>http://downloads.linux.hp.com/SDR/downloads/MLNX_OFED/</u> .	702211-B21
	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
		Dege 77

	HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit	719076-B21
Options	NOTE: This is for slot 1 and supports double wide GPGPUs.	
	NOTE: For Graphics cards please also order the DL380 Gen9 Graphics	
	Enablement kit, 719082-B21	
	Slot1: 1xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
	NOTE: Double wide PCIe cards are only supported in risers with the	
	Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).	
	HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit	719073-B21
	NOTE: This is for slot 2 and supports double wide GPGPUs.	
	NOTE: For Graphics cards please also order the DL380 Gen9 Graphics Enablement kit, 719082-B21	
	Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL.	
	NOTE: Double wide PCIe cards are only supported in risers with the	
	Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21).	
HPE Power	HPE Flex Slot Platinum Hot-plug Power supplies	
Supplies	HP 500W Flex Slot Platinum Hot Plug Power Supply Kit	720478-B21
	NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	
	HP 800W Flex Slot Titanium Hot Plug Power Supply Kit	720482-B21
	NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	
	HP 800W Flex Slot Platinum Hot Plug Power Supply Kit	720479-B21
	NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	
	HP 800W Flex Slot Universal Hot Plug Power Supply Kit	720484-B21
	NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.	
	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 HPE Power Discovery Services (blue connector).	720620-B21
	HP 750W Flex Slot Hot Plug Battery Backup Module	738024-B21
	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.	

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NOTE: All power supplies must be of the same input voltage, output rating, and efficiency rating. If nonmatching 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 HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <u>http://www.hp.com/go/hppoweradvisor</u>.

NOTE: Support for HPE Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HPE Server power supplies can be found

at http://www.hp.com/go/proliant/powersupply.

NOTE: Maximum of 2 Flex Slot PS per platform.

and Graphics NOTE: This GPU enablement kit includes 2 Heatsinks and 8 cables to enable Image: State S	HPE Computation	HP DL380 Gen9 Graphics Enablement Kit	719082-B21
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.NOTE: This kit support up to 2 Double wide Graphics cards.HP NVIDIA GRID K1 Ouad GPU PCle Graphics AcceleratorJOG94ANOTE: This kit support up to 2 double wide Graphics cards.HP NVIDIA GRID K1 Ouad GPU PCle Graphics AcceleratorJOG94ANOTE: This card only runs at PCleGen2 speeds.NOTE: The secondary GPU riser (719076-B21) is required to support this in slot1.NOTE: The re are limitations on the chassis and processor supported when adding Graphics accelerators.NOTE: The are limitations on the chassis and processor support this in slot2 (2nd processor required).NOTE: The re are limitations on the chassis and processor supported when adding Graphics accelerators.NOTE: The 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).NVIDIA GRID K2 Reverse Air Flow Dual GPU PCle Graphics AcceleratorNOTE: This card only runs at PCleGen2 speeds.NOTE: This card only runs at PCleGen2 speeds. <th>and Graphics</th> <th>NOTE: This GPU enablement kit includes 2 Heatsinks and 8 cables to enable</th> <th></th>	and Graphics	NOTE: This GPU enablement kit includes 2 Heatsinks and 8 cables to enable	
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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).NVIDIA GRID K2 Reverse Air Flow Dual GPU PCle Graphics Accelerator753958-B21NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.753958-B21NOTE: This card only runs at PCleGen2 speeds.NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.		NOTE: This card only runs at PCIeGen2 speeds.	
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slot2 (2nd processor required).		NOTE: The secondary GPU riser (719073-B21) is required to support this in	
NOTE: This card will require the addition of the High Performance Fan Kit (719079-B21).		NOTE: This card will require the addition of the High Performance Fan Kit	

NOTE: Max cooling setting required to support in RSBU. NOTE: 12LFF support is restricted to 25C Server Ambient only.	
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	JOG95A
NOTE: For doublewide GPU support you are required to have at least	
1x1400W Power Supply (720620-B21), per card.	
NOTE: This card only runs at PCIeGen2 speeds.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).	
NOTE: PCIe accelerators are not supported in conjunction with this card.	
NOTE: This card will require the addition of the High Performance Fan Kit	
(719079-B21).	
NOTE: Max cooling setting required to support in RSBU.	
NOTE: No support in combination with the 24SFF or 12LFF chassis.	
HP NVIDIA Quadro K2200 Graphics Accelerator	JOG89A
NOTE: This is supported in all chassis.	
NOTE: This card only runs at PCIeGen2 speeds.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in	
slot2 (2nd processor required). NOTE: For doublewide GPU support you are required to have at least	
1x1400W Power Supply (720620-B21), per card.	
HP NVIDIA Quadro K4200 Graphics Accelerator	JOG90A
NOTE: This is supported in all chassis.	
NOTE: This card only runs at PCIeGen2 speeds.	
NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1.	
NOTE: The secondary GPU riser (719073-B21) is required to support this in	
slot2 (2nd processor required).	
NOTE: For doublewide GPU support you are required to have at least	
1x1400W Power Supply (720620-B21), per card.	100014
HP NVIDIA Quadro K5200 GPU Graphics Accelerator	JOG91A
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 slott.	
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 Power Supply (720620-B21), per card. HPE NVIDIA Tesla M60 Reverse Air Flow Dual GPU PCIe FIO Graphics Accelerator	M3X67A
 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: This card only runs at PCleGen2 speeds. NOTE: This card is limited to Processors running with under 140W power consumption. 	
HP NVIDIA Quadro M6000 Graphics Accelerator 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: This card only runs at PCleGen2 speeds.	JOG92A
Intel® Xeon® Phi 5110P Coprocessor Kit NOTE: This card only runs at PCleGen2 speeds. 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. NOTE: 12LFF support is restricted to 30C Server Ambient only.	C1P87A
Intel® Xeon® Phi 7120P (16GB/300W) Coprocessor Kit NOTE: This card only runs at PCleGen2 speeds. 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: This card will require the addition of the High Performance Fan Kit (719079-B21). NOTE: This is supported in an 8SFF chassis only. NOTE: Max cooling setting required to support in RSBU.	E2M34A
HP AMD FirePro W7100 Accelerator Kit 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.	JOH10A
HP AMD FirePro S9150 Accelerator Kit NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.	JOH11A

	 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: 12LFF support is restricted to 30C Server Ambient only. 	
	HP 150W PCI-E Power Cable Kit NOTE: This cable is required for the K1, K4200, K5200, M5000 and W7100 cards.	669777-B21
	NOTE: Each DL380 Gen9 server will accommodate up to three single-width or two width PCIe cards for Computational Graphics support. Note that 11.25" is the max to also allow for cabling. This applies to primary slots 1 & 2 or secondary slots 4 & NOTE: The NVIDIA Tesla, GRID and Quadro modules are supported only on 64-bit and Windows operating systems as well as on Virtual Machine client operating sys supported bare metal operating systems are RHEL6, SLES 11 and Windows Server NOTE: There are limitations on fan types, setting, and chassis support by card. NOTE: Mixing of GPUs is not supported. NOTE: NVIDIA limits configurations to having 1TB memory or less installed.	length for a card 5. t versions of Linux stems. The
HPE Cooling Options	 HP DL380 Gen9 High Performance Fan Kit 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. 	719079-B21

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

HPE Insight	HPE Insight Control		
Software	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 HPE Software Technical Support and Update Service.		
	NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates .		
	NOTE: For additional license options please see the 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	HPE iLO Advanced		1
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	
HPE Converged	HPE OneView Advanced (with HPE 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	
	HPE OneView Advanced (without HPE iLO Advanced)		
	HP OneView w/o iLO including 3yr 24x7 Support 1 Server LTU	P8B24A	
	HP OneView w/o iLO including 3yr 24x7 Support Flex Quantity E-LTU	P8B26AAE	
	HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU	P8B31A	
	HP OneView Media Kit Phys No Lic	E5Y37A	

Additional Options

	HP Operations Analytics for HP OneView LTU	K8G29A
	HP Operations Analytics for HP OneView E-LTU	K8G29AAE
	NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use	
	HPE Insight Control without additional charge.	
	NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive).	
	NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/oneview .	
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	
High Performa	nce HPE Cluster Management Utility	
Clusters	HP Insight Cluster Management Utility 1yr 24x7 Flexible License	QL803B
	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	BD476A
	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.	
		BD477A al.
HPE PCle	key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs	
	key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: <u>http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm</u>	
Workload Accelerator	key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCIe Workload Accelerators	<u>nl</u> .
Workload Accelerator	key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCIe Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	nl. 763840-B21
Workload Accelerator	key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCIe Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	11. 763840-B21 763838-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCIe Workload Accelerators 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 	11. 763840-B21 763838-B21 763836-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCIe Workload Accelerators 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 HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator 	11. 763840-B21 763838-B21 763836-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator Light Endurance (LE) PCle Workload Accelerators 	nl. 763840-B21 763838-B21 763836-B21 763834-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator 	nl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator 	hl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21 775670-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 2.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator 	hl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21 775670-B21 775668-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 2.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator 	hl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21 775670-B21 775668-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCIe Workload Accelerators 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 HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator HP 5.2TB FH/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 HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator 	hl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21 775670-B21 775668-B21 775666-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 2.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 5.4TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator 	hl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21 775668-B21 775668-B21 775666-B21 831739-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 2.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 6.4TB Read Intensive-2 FH/HL PCle Workload Accelerator HPE 3.2TB Read Intensive-2 HH/HL PCle Workload Accelerator 	hl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21 775670-B21 775668-B21 775666-B21 831739-B21 831737-B21
Workload Accelerator	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 2.6TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 2.6TB Read Intensive-2 FH/HL PCle Workload Accelerator HPE 3.2TB Read Intensive-2 HH/HL PCle Workload Accelerator HP 2.0TB NVMe Mixed Use HH/HL PCle Workload Accelerator 	hl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21 775668-B21 775668-B21 775666-B21 831739-B21 831737-B21 803204-B21
HPE PCIe Workload Accelerator Options	 key. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.htm Value Endurance (VE) PCle Workload Accelerators HP 6.4TB FH/HL Value Endurance (VE) PCle Workload Accelerator HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.5TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 1.3TB HH/HL Value Endurance (VE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 5.2TB FH/HL Light Endurance (LE) PCle Workload Accelerator HP 5.2TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.3TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 1.0TB HH/HL Light Endurance (LE) PCle Workload Accelerator HP 5.2TB Read Intensive-2 FH/HL PCle Workload Accelerator HPE 3.2TB Read Intensive-2 HH/HL PCle Workload Accelerator HP 2.0TB NVMe Mixed Use HH/HL PCle Workload Accelerator HP 1.6TB Read Intensive-2 HH/HL PCle Workload Accelerator 	nl. 763840-B21 763838-B21 763836-B21 763834-B21 775672-B21 775668-B21 775668-B21 831739-B21 831737-B21 803204-B21 831735-B21

	HP 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator HP 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803195-B21 803200-B21
HPE Security	HP 2U Security Bezel Kit HP Trusted Platform Module Option	666988-B21 488069-B21
HPE Storage	SAS Controllers	
Controllers	HPE Flexible Smart Array Controllers	
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller	726736-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a	
	PCIe slot.	
	NOTE: Includes the HPE Smart Storage Battery.	
	HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller	749974-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a	
	PCIe slot.	
	NOTE: Includes the HPE Smart Storage Battery.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HPE Smart Array Controllers	
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives.	
	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	726903-B21
	HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
	HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller	761872-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a	/010/2 021
	PCIe slot.	
	NOTE: Includes the HPE Smart Storage Battery.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller	761874-B21
	NOTE: Includes the HPE Smart Storage Battery.	
	NOTE: When ordering controllers, please reference the HPE Cable Options	
	below for the required cable.	
	NOTE: FIO indicates factory integrated option via CTO.	
	HPE Smart Host Bus Adapters	
	HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
	HP H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
	HP H240ar 12Gb 2-ports Int Smart Host Bus Adapter	726757-B21
	NOTE: Provides support for up to 8 internal SAS/SATA drives without using a	,20,0, B21
	PCle 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.	

LIP DI 700 Caro 121 EE Daar 20EE ar 71 EE D0/ 0///0 CAC Cable Kit	
HP DL380 Gen9 12LFF Rear 2SFF or 3LFF P840/440 SAS Cable Kit	783007-B21
NOTE: 12LFF port 3 to 2SFF or 3LFF to P440/840 PCIe.	
HP DL380 Gen9 2SFF Front SAS x4 Cable Kit	783008-B21
NOTE: For front mount 2SFF to H240/P440ar, H240 or embedded B140i	
SATA.	
HP DL380 Gen9 8SFF SAS Cable Kit	783009-B21
NOTE: 8/16/24 SFF to P840/440 bay 3.	
HP DL380 Gen9 2SFF x8 Front Cable Kit	785989-B21
NOTE: For front/rear mount 2SFF to P440/840 PCIe).	
HP DL380 Gen9 12LFF SAS Cable Kit	785991-B21
NOTE: For 12LFF to P440/840 PCIe cables- ports 1/2/3.	
HP DL380 Gen9 8SFF H240 Cable Kit	786092-B21
NOTE: 8/16/24SFF to 240/440ar, H240 PCIe or embedded B140i SATA.	
HP DL380 Gen9 12LFF Smart HBA H240 SAS Cable Kit	786215-B21
NOTE: For 12LFF ports 1&2 to H240/P440ar, H240 or embedded B140i SA	ATA.
NOTE: For details on cabling options, additional information available her	e: Cabling Matrix .
Optional Software	
HP SmartCache No Media 24x7 Technical Support 1 Svr License	D7S26A
HP SmartCache No Media 24x7 Technical Support Flexible License	D7S27A
HP SmartCache No Media 24x7 Technical Support Electronic License	D7S27AAE
NOTE: HPE SmartCache is supported when one of the supported Smart A	rray
Controllers is installed in the server.	
NOTE: HPE SmartCache comes standard (no licensing is required) if the H	IPE
Smart Array P840 Controller is installed in the server.	
• ·	
Smart Array P840 Controller is installed in the server.	727258-B21
Smart Array P840 Controller is installed in the server. Optional Upgrades	
Smart Array P840 Controller is installed in the server. Optional Upgrades HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers	
Smart Array P840 Controller is installed in the server. Optional Upgrades HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers NOTE: Provides backup power for multiple HPE Smart Array controllers of	or

HPE Tape Backup NOTE: For the complete range of tape drives, autoloaders, libraries and media

see: http://www.hp.com/go/tape. For hardware and software compatibility of HPE tape backup products see: http://www.hp.com/go/tape.

•	ape	DLIA	es	

HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver LTO-7 Ultrium 15000 Internal Tape Drive	BB873A
HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader	COH19A
HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A
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 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 HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive HP StoreEver 1U SAS Rack-mount Kit	EH920B EH848B AE459B
	HP Mini SAS High Density to 4-lane Mini SAS External Fanout 2 Meter Cable HP Mini SAS High Density to 4-lane Mini SAS External Fanout 4 Meter Cable	K2R09A K2R10A
	HPE Tape Storage Systems	
	HPE 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/14	<u>604_div.html</u>
	(Worldwide).	
	HP StoreEver MSL6480 Scalable Base Module	QU625A
	HP MSL2024 0-Drive Tape Library	AK379A
	HP MSL4048 0-Drive Tape Library	AK381A
HPE Disk Backup	HPE RDX Removable Disk Backup System	
	HP RDX+ 1TB External Backup System	B7B69B
	HP RDX+ 500GB External Backup System	B7B66B
	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: <u>http://www.hp.com</u> and software compatibility of HPE disk backup products see: <u>http://www.hp.com</u>	-
HPE Storage Options	NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows Server 2003 and Linux, please see: <u>http://h18006.www1.hp.com/storage/saninfrastructure/hba.html</u> . Emulex Fibre Channel HBAs	2000, Windows
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
	HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A
	HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A
	QLogic Fibre Channel HBAs	
	HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
	HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A

Additional Options

	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 D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	MOT59A
	HP D6000 w/70 6TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 420TB Bundle	MOT57A
	HP D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A
IPE Data Center	HPE 11000 G2 Series Racks	
acks	HPE 11648 1075mm Pallet Universal Rack	H6J87A
	HPE 11648 1075mm Shock Universal Rack	H6J88A
	HPE 11642 1075mm Pallet Universal Rack	H6J65A
	HPE 11642 1075mm Shock Universal Rack	H6J66A
	HPE 11642 1200mm Pallet Universal Rack	H6J67A
	HPE 11642 1200mm Shock Universal Rack	H6J68A
	HPE 11636 1075mm Pallet Universal Rack	H6J77A
	HPE 11636 1075mm Shock Universal Rack	H6J78A
	HPE 11622 G2 1075mm Pallet Universal Rack	H6J83A
	HPE 11622 G2 1075mm Shock Universal Rack	H6J84A
	HPE 11614 1075mm Shock Universal Rack	H6J82A
	NOTE: Please see the HPE 11000 G2 Series Racks QuickSpecs for information	
	on additional racks options and rack specifications.	
	HPE Intelligent Series Rack	
	HPE 647 1075mm Pallet Intelligent Series Rack	BW911A
	HPE 647 1075mm Shock Intelligent Series Rack	BW912A
	HPE 647 1200mm Pallet Intelligent Series Rack	BW913A
	HPE 647 1200mm Shock Intelligent Series Rack	BW914A
	HPE 642 1075mm Pallet Intelligent Series Rack	BW903A
	HPE 642 1075mm Shock Intelligent Series Rack	BW904A
	HPE 642 1200mm Pallet Intelligent Series Rack	BW907A
	HPE 642 1200mm Shock Intelligent Series Rack	BW908A
	HPE 636 1075mm Pallet Intelligent Series Rack	BW895A
	HPE 636 1075mm Shock Intelligent Series Rack	BW896A
	HPE 842 1075mm Pallet Intelligent Series Rack	BW917A
	HPE 842 1075mm Shock Intelligent Series Rack	BW918A
	NOTE: Please see the HPE Intelligent Series Racks QuickSpecs for information	
	on additional racks options and rack specifications.	
	on additional racks options and rack specifications. HPE Value Series Rack	

NOTE: Please see the <u>**HPE Value Series Rack QuickSpecs**</u> for information on additional racks options and rack specifications.

HPE Power	HPE 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 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
	HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit	252663-D75
	HP 7.3kVA 32A High Voltage INTL Core Modular Power Distribution Unit	252663-B33
	HP 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	AF512A
	HP 11kVA 16A Three Phase INTL Modular Power Distribution Unit	AF513A
	HP 14.4kVA 40A Three Phase NA/JP Modular Power Distribution Unit	AF519A
	HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit	AF511A
	HP 22kVA 32A Three Phase INTL Core Modular Power Distribution Unit	AF518A
	NOTE: To learn more about HPE Basic Power Distribution Units (bPDU), please	
	visit the HPE website at http://www.hp.com/go/pdu .	
	HPE Monitored Power Distribution Units (mPDU)	
	HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43A
	HP 3.6kVA 200-240 Volt Detachable C20 Input (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
		Page 4

HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU	D9N51A
HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP	D9N52A
Monitored PDU	
HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP	D9N53A
Monitored PDU	2710071
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored	D9N55A
PDU	
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	Dinoint
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	D9N61A
PDU	
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored	D9N62A
PDU	
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored	D9N54A
·	D71134A
PDU	
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP	D9N59A
Monitored PDU	
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Watertight Input (12xC13/12xC19)	G9Z07A
NA/JP Monitored PDU	
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	
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored	D9N60A
PDU	
HP 22kVA 400 Volt IEC309 32A 3-Phase Watertight Input (12xC13/12xC19) INTL	G9Z08A
Monitored PDU	
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the <u>HPE Monitored Power Distribution Units QuickSpecs</u> for	EZDOOR
-	
information on additional options and product specifications.	
HPE Intelligent Power Distribution Units (iPDU)	
HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution	AF520A
Unit	
HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution	AF521A
Unit	/ (1 32 1/ (
HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution	AF522A
Unit	
HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution	AF523A
Unit	
HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Power Distribution	AF900A
Unit	
HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distribution	AF901A
Unit	/ 11 / 01/ 1
HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution	AF525A
Unit	

HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF526A
HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution	AF527A
Unit	
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 HPE Intelligent Power Distribution Units QuickSpecs for	
information on additional options and product specifications.	
HPE 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 <u>HPE Managed Power Distribution Units QuickSpecs</u> for	
information on additional options and product specifications.	_

NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page.

HPE Rack Mount	HPE Location Discovery Services	
Consoles, KVM	HP 36U Location Discovery Kit	BW945A
Switches, and	HP 42U Location Discovery Kit	BW946A
Keyboards	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 HPE Location Discovery Services QuickSpecs for information on additional options and product specifications.	
	HPE Rack Mount Consoles	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	HP LCD8500 1U DE Rackmount Console Kit	AF632A

HP LCD8500 1U FR Rackmount Console Kit	AF633A
HP LCD8500 1U JP Rackmount Console Kit	AF642A
HP LCD8500 1U RU Rackmount Console Kit	AF643A
HP LCD8500 1U INTL Rackmount Console Kit	AF644A
HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
HPE KVM Switches	
HP 0x1x8 G3 KVM Console Switch	AF651A
HP 0x2x16 G3 KVM Console Switch	AF652A
HP TAA 0x2x16 G3 KVM Console Switch	AF653A
HP USB Remote Access Key for G3 KVM Console Switches	AF650A
HP KVM Console USB Interface Adapter	AF628A
HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
HP 1x4 USB/PS2 KVM Console Switch	AF611A
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
NOTE: To learn more, please visit the <u>HPE KVM Switches web page</u> .	
HPE USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3

Rail Kits

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

NOTE: Rail kits are optional for DL380 Gen9 and are no longer included standard with the server.

Customers have the option to purchase their server without a rail kit. **NOTE:** Ball bearing and Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.

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

CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

HP 2U Small Form Factor Easy Install Rail Kit	733660-B21
NOTE: Does not include CMA (733664-B21).	
HP 2U Large Form Factor Easy Install Rail Kit	733662-B21
NOTE: Does not include CMA (733664-B21).	
HP 2U Cable Management Arm for Easy Install Rail Kit	733664-B21
HP 2U Small Form Factor Ball Bearing Rail Kit	720863-B21
NOTE: Does not include CMA (720865-B21).	
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	720865-B21
HPE Other Options	
HP Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP Advanced Power Manager Kit	741192-B21

HPE Uninterruptible HPE DirectFlow Three Phase UPS

Power Systems	Power Unit (1U UPS)	
(UPS)	HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
	HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
	HP RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF437A
	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	AF491A
	HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF492A
	HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9Y76A
	HP DirectFlow UPS Management Card	AF493A
	Power Unit (2U UPS)	
	HP R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
	Input/Output Module Options for 2U UPS	

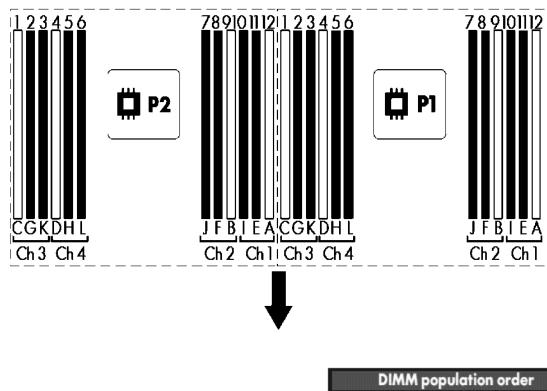
HP 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309	AF483A
Input/Output Module	
HP 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated	AF485A
Input/Output Module	
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF486A
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	AF487A
Module	
HP 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	D9Q02A
Module	
HP 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309	AF484A
Input/Output Module	
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 HPE DirectFlow Three Phase Uninterruptible Power System	QuickSpecs for
information on additional options and product specifications.	
HPE Tower UPS	
HPE T750 G4 UPS Models	
HP T750 G4 NA/JP Uninterruptible Power System	J2P85A
HP T750 G4 INTL Uninterruptible Power System	J2P88A
HPE T1000 G4 UPS Models	
HP T1000 G4 NA/JP Uninterruptible Power System	J2P86A
HP T1000 G4 INTL Uninterruptible Power System	J2P89A
HPE T1500 G4 UPS Models	
HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A
HP T1500 G4 INTL Uninterruptible Power System	J2P90A
HPE T750 G2 UPS Models	
HP T750 G2 750VA INTL Tower Uninterruptible Power System	AF447A
HPE Rack-mountable UPS	
HPE R/T2200 G4 UPS Models	
HP R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
HPE R/T3000 G4 UPS Models	
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
R1500 G4 Models	
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
R7000 Uninterruptible Power System (UPS)	
HP R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
HP R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A

Additional Options

	 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 <u>HPE Line Interactive Single Phase UPS QuickSpecs</u> for information options and product specifications. HPE UPS Options HP R/T2200 G4 Extended Runtime Module HP R/T3000 G4 Extended Runtime Module HP 2U Rack/Tower UPS Shipping Kit 	AF460A AF461A formation on additiona J2R09A J2R10A L4Q11A
	NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS</u>	<u>5) web page</u>
HPE USB and SD Options	HPE Enterprise Mainstream Flash Media Kits for Memory Cards HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21
•	HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
HPE Care Pack	Installation & Start-up Services	
Services	HP Install ProLiant DL38x(p) Service	U4554E
	HP Startup ProLiant DL38x(p) Service	U4555E
	Proactive Care	
	HP 3 year 24x7 DL380 Gen9 w/IC Proactive Care Service	U5HW1E
	HP 3 year 24x7 with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service	U5HW2E
	HP 3 year 24x7 w/ Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service	U5HW3E
	HP 3 year Call to Repair DL380 Gen9 w/IC Proactive Care Service	U5HX0E
	HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 w/IC Proactive Care Service	U5HX1E
	HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 w/IC Proactive Care Service	U5HX2E
	HP 3 year 24x7 DL380 Gen9 Proactive Care Service	U7AE8E
	HP 3 year 24x7 with Defective Media Retention DL380 Gen9 Proactive Care Service	U7AE9E
	HP 3 year 24x7 with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service	U7AF0E
	HP 3 year Call to Repair DL380 Gen9 Proactive Care Service	U7AF4E
	HP 3 year Call to Repair with Defective Media Retention DL380 Gen9 Proactive Care Service	U7AF5E
	HP 3 year CTR with Comprehensive Defective Material Retention DL380 Gen9 Proactive Care Service	U7AF6E

Memory

Memory Population guidelines



DIMM population order							
		1st slot of channel A B C D	2nd slot of channel EFGH	3rd slot of channel I J K L			
Number of DIMMs to install	4 8 12						

General Memory Population Rules and Guidelines:

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

Memory

- . The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors.
- . HPE memory from previous generation servers is not compatible with the DL380 Gen9 Server. Certain HPE SmartMemory features such as memory authentication and enhanced performance may not be supported.
- . To realize the performance memory capabilities listed in this document, HPE SmartMemory is required. For additional information, please see the HPE SmartMemory QuickSpecs
- at: 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 HPE ProLiant Gen9 Intel® Xeon® E5-2600v3 Series Processor Family

Memory Bandwid	th and Cap	acity							
[DIMM Type]		Registered DIMMs (RDIMMs)					Load Reduced (LRDIMMs		
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Quad Rank	
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB	64GB	
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133	2133	
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	
SLOTS THAT CAN	N BE POPUI	ATED							
24 slot servers	24	24	24	24	24	24	24	24	
ΜΑΧΙΜυΜ CAPA	CITY (GB)								
	96	192	192	384	768	384	768	1536	
POPULATED DIM	M SPEED (I	MT/s)	l	l	l	l	l		
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133	
2 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133	
3 DIMM Per Channel	1600	1600	1600	1600	1600	1866	1866	1866	

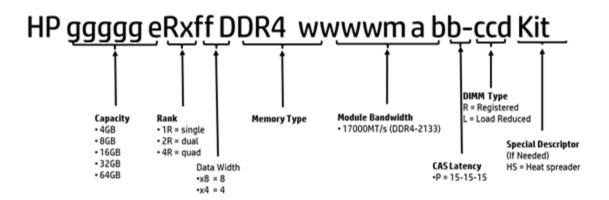
	Processor Models	Supported Memory Speeds
Processor Model	E5-2609v3, E5-2603v3	1600MHz
	E5-2640v3, E5-2630v3, E5-2620v3, E5-2630Lv3, E5-2623v3	1866MHz
	E5-2637v3, E5-2690v3, E5-2670v3, E5-2650v3, E5- 2697v3, E5-2683v3, E5-2667v3, E5-2643v3, E5- 2650Lv3, E5-2695v3, E5-2660v3, E5-2680v3, E5- 2687Wv3, E5-2698v3,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

Maximum Memory Capacity (Pre-	Pre-Configured Models	Standard Memory	-	Standard Memory Replaced with Optional Memory
	E5-2609v3	8GB (1x8GB)	1480GB (23x64GB, 1x8GB)	1536GB (24x64GB)
Models)	E5-2620v3	16GB (1x16GB)	1488GB (23x64GB, 1x16GB)	1536GB (24x64GB)
	E5-2650v3, E5-2690v3	32GB (2x16GB)	1440GB (22x64GB, 2x16GB)	1536GB (24x64GB)

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

QuickSpecs

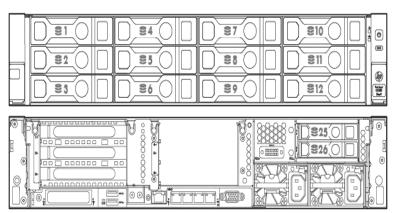
4LFF hot-plug drive model

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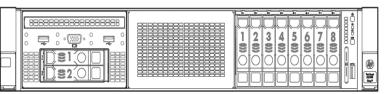
12 LFF + 3 rear LFF hot-plug drive model

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12 LFF + 2 rear SFF hot-plug drive model



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



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

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

1-4

1-12

1-12

1-8

1-2

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

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

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

QuickSpecs

Storage

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24 SFF + rear 2 SFF hot-plug drive model

12345678 39999900000000000000000000000000000000	b b	

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

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

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

1-2

System Unit	Dimensions	SFF Drives: 3.44 x 1	7.54 x 26.75 in (8.73 x 44.55 x 67.94 cm)
-			7.54 x 28.75 in (8.73 x 44.55 x 73.02 cm)
		NOTE: Dimensions	without Bezel.
	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 rear drives), 2x processors, 2x power supplies, 1x Flexible Smart Array, 2x Risers installed)	
	Input	Range Line	100 to 120 VAC
	Requirements (per power supply)	Voltage	200 to 240 VAC
	BTU Rating	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only
	Power Supply Output (per power supply)	Rated Steady- State Power	For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC) For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only For 500W Power Supply: 500W (at 100 VAC), 500W (at 240
			VAC), 500W (at 240 VAC) input for China only
		Maximum Peak Power	For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only
		Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level

System Inlet		to a maximum of 3050 m (10,000 ft), no direct sustained
, Temperature	Extended Ambient	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). 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°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae
		For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating	Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
(non-condensing)	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
Acoustic Noise	average bystander product is operatin	ared A-Weighted sound power levels (LWAd) and declared position A-Weighted sound pressure levels (LpAm) when the g in a 23°C ambient environment. Noise emissions were dance with ISO 7779 (ECMA 74) and declared in accordance with D9).
	L WAd	4.0 B Entry LFF 4.1 B Entry
		4.2 B Base

	5.7 B Base LFF
	4.3 B Perf
LpAm	23 dBA Entry LFF
	24 dBA Entry
	24 dBA Base
	39 dBA Base LFF
	25 dBA Perf
Operating	
L WAd	4.3 B Entry LFF
	4.6 B Entry
	4.8 B Base
	5.9 B Base LFF
	5.6 B Perf
L pAm	25 dBA Entry LFF
	29 dBA Entry
	30 dBA Base
	31 dBA Base LFF
	39 dBA Perf
NOTE: The Li	sted sound levels apply to standard shippi
(Entry LFF, E	ntry, Base, Base LFF and Performance mod

NOTE: The Listed sound levels apply to standard shipping configurations (Entry LFF, Entry, Base, Base LFF and Performance models) additional options may result in increased sound levels. The Base LFF model leverages our High Efficiency Fans, other models are shipping with standard fan options.

Emissions	FCC Rating	Class A	
Classification	Normative	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003;	
(EMC)	Standards	CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN	
		60950-1; IEC 60950-1	

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements. **NOTE:** The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

HPE Dynamic Smart Array	Number of PCI links	Four
B140i Controller	PCI link rate	4 Gb/s
	Storage protocol	SATA
	support	
	SAS/SATA peak	6 Gb/s
	data tranfer rate	
	Number of	10 links
	SAS/SATA links	
	SAS/SATA	2x4 connectors; 2x1 connectors
	connectivity	
	Expander	No
	support	

Technical Specifications

	Drives supported (max)	d Up to 10 Internal Dr	ives			
	RAID support	0, 1, 10, 5 SATA				
	Software	HPE SSA, SMH, SIM				
	management					
	Warranty	Server warranty				
	HPE Secure	Not Supported				
	Encryption					
	license					
	HPE SmartCache Not Supported License					
	HPE Smart	Supported				
	Storage					
	Administrator					
HPE Ethernet 1Gb	Network	10Base-T/100Base-TX/1000Base-TX				
4-port 331i	Interface					
Adapter	Compatibility	Y IEEE 802.3 10Base-T				
		IEEE 802.3ab 1000)Base-T			
		IEEE 802.3u 100Base-TX				
	Ports	5				
	Data Transfer Method	PCI Express, two lanes (x2)				
	Controller	BCM5719				
	Network	10Base-T (Half-				
	Transfer Rate	Duplex) 10Base-T (Full-	10 Mb/s per port, 40 Mb/s combined			
		Duplex)	20 Mb/s per port, 80 Mb/s combined			
		100Base-TX (Half-				
		Duplex)	100 Mb/s per port, 400 Mb/s combined			
		100Base-TX (Full-				
		Duplex)	200 Mb/s per port, 800 Mb/s combined			
		1000Base-TX (Hal				
		and Full-Duplex)	1000Mb/s per port, 4000 Mb/s combined			
		1000Base-TX				
	- -	(Full-Duplex)	2000Mb/s per port, 8000 Mb/s combined			
	Connector	Four RJ-45				
	Cable Support	10 Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)			
		10/100/1000 Base	-TX Category 5 or higher UTP; up to 328 ft (100 m)			

Environment-	End-of-life	Hewlett-Packard offers end-of-life Hewlett Packard Enterprise product return, trade-
friendly Products	Management and	d in, and recycling programs in many geographic areas. For trade-in information, please
and Approach	Recycling	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 Hewlett Packard

Enterprise sales office. Products returned to Hewlett Packard Enterprise 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 Enterprise web site at: **http://www.hp.com/go/green**. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
17-Dec-2015	From Version 12 to 13	Changed	Smart Buy models section was revised in the NA version only.
01-Dec-2015	From Version 11 to 12	Added	New HDD offering was added to HPE Drives.
			New options added to Graphics Options, HPE PCIe Workload Accelerator Options, and HPE Tape Backup.
		Changed	On System Management Chipset, Maximum Internal Storage, Embedded Management, and Server utilities were revised.
			Product images were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Sep-2015	From Version 10 to 11	Added	Added new 6Gb SATA Solid State Drives. Added new HPE OneView management software.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 9 to 10	Added	Added new Solid State Drives offering. Added new graphic options.
		Changed	What's New changed to: New support for NVMe PCIe SSDs New Graphic card options Service and Support section was updated. Maximum Internal Storage and Core Options were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
6-Jan-2015	From Version 8 to 9	Added	New larger capacity HDDs (up to 8TB LFF), Max capacity 120TB were added. New higher capacity memory (64GB), Max capacity 1.5TB was added. New Networking options were added. Optional Software added to HPE Storage Controllers.
		Changed	Updated max HDD and memory capacity due to new options added. HPE SmartCache Software, HPE Disk Backup System, HPE Uninterruptible Power Systems (UPS) were updated.
30-Mar-2015	From Version 7 to 8	Added	New Hard Drives offering. Optical Software added to HPE Storage Controllers. Added new HPE Care Pack Services. Added new HPE PCIe Workload Accelerator Options.
		Changed	What's New, Standard Features, Unique Options, Power Supplies, HPE Storage Controllers, HPE Disk

Summary of Changes

			Storage Systems, and Technical Specifications were revised.
		Removed	Removed obsolete HPE Care Pack Services.
17-Feb-2015	From Version 6 to 7	Added	Added Smart Buy Models to the NA version only.
2-Sep-2015	From Version 5 to 6	Added	What's new section was added. Added new HDD offering, new computational Graphics options, and new G4 UPS models.
		Changed	HPE Drives, HPE Computation and Graphics Accelerators, HPE Tape Backup, HPE Disk Backup, HPE Rack Mount, Consoles, KVM Switches, and Keyboards, and HPE Uninterruptible Power Systems (UPS) sections were revised.
12-Jan-2014	From Version 4 to 5	Changed	Changes made throughout the entire QuickSpecs.
13-Oct-2014	From Version 3 to 4	Changed	Corrected inconsistencies between Product Bulletin and Concentra versions.
13-Oct-2014	From Version 2 to 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section. HPE PCIe Workload Accelerator Options, HPE USB and SD options, and HPE Care Pack Services were added to the Additional Options section.
		Changed	Standard Features, Optional Features, Pre- Configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.
19-Sep-2014	From Version 1 to 2	Changed	Changes were made throughout the QuickSpecs





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

Summary of Changes

c04346247 - 15034 - Worldwide - V13 - 17-December-2015