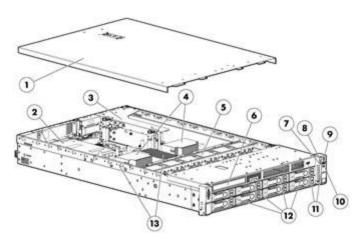
Overview

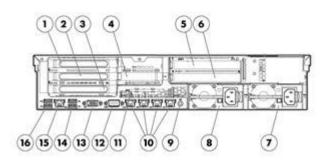
HP ProLiant DL380e Generation 8 (Gen8)

The HP ProLiant DL380e Gen8 sets the next generation standards of 2U 2-socket rack servers for the industry. With enhanced configuration flexibility, unmatched performance, and leading energy efficient design the DL380e Gen8 offers the perfect solution for the dynamic compute and storage requirements of today's demanding datacenters.



Front View:

- 1. Quick removal access panel
- 2. Redundant Hot Plug Power Supplies(upgradeable option)
- 3. Removable Riser Cage assembly
- 4. Up to 2 Intel E5-2400 Series Processors
- 5. Removable Hot Plug Fans modules, (optional, full N+1 redundancy)
- 6. Optical Disk Drive Bay
- 7. Health LED
- 8. Network activity LED
- 9. Power On /Standby button and system power LED button
- 10. Unit ID LED
- 11. USB connectors
- 12. Hard Drive bays
- 13. 12 DIMM slots: DDR3 Registered(RDIMM), Load Reduced (LRDIMM) or Unbuffered(UDIMM) memory



Rear View:

- 1. Slot1 PCIe3 x8 (4, 1)
- 2. Slot2 PCIe3 x16 (8, 4, 1)
- Only for riser board without SAS support: Slot3 PCIe3 x8 (8, 4, 1)
- 4. Slot4 PCIe2 x8 (4, 1)
- 5. Slot5 PCIe3 x16 (16, 8, 4, 1) (optional)
- 6. Slot6 PCIe3 x16 (8, 4, 1) (optional)
- 7. Power Supply bay1 (Primary Power Supply)
- 8. Power Supply bay 2 (Shown populated: optional)
- 9. Unit ID LED/Button
- 10. HP Ethernet 1Gb 4-port 366i Adapter (4 x 1GbE)
- 11. Service tool
- 12. Serial connector
- 13. Video connector
- 14. USB connectors (2)
- 15. iLO connector
- 16. USB connectors (2)



Standard Features

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

Processor

One of the following depending on Model

Entry Processors - E5-2400v2 series Processors

NOTE: All support up to 1333MHz DDR3 memory speeds.

Intel® Xeon® E5-2407v2(2.4GHz/4-core/10MB/6.4GT/s QPI/80W, DDR3-1333) Intel® Xeon® E5-2403v2(1.8GHz/4-core/10MB/6.4GTs QPI/80W, DDR3-1333)

Base Processors - E5-2400v2 series Processors

NOTE: All support up to 1600MHz DDR3 memory speeds.

Intel® Xeon® E5-2430v2(2.5GHz/6-core/15MB/7.2GT/s QPI/80W, DDR3-1600,HT, Turbo2-3/3/4/4/5/5) Turbo

Intel® Xeon® E5-2430Lv2(2.4GHz/6-core/15MB/7.2GT/s QPI/60W, DDR3-1600,HT, Turbo2-3/3/4/4/5/5) Turbo

Intel® Xeon® E5-2420v2(2.2GHz/6-core/15MB/7.2GT/s QPI/80W, DDR3-1600,HT, Turbo2-3/3/4/4/5/5) Turbo

Intel® Xeon® E5-2440v2(1.9GHz/8-core/20MB/7.2GT/s QPI/95W, DDR3-1600,HT, Turbo2-3/3/4/4/5/5) Turbo

Performance Processors - E5-2400v2 series Processors

NOTE: All support up to 1600MHz DDR3 memory speeds.

Intel® Xeon® E5-2450v2(2.5GHz/8-core/20MB/8.0GT/s QPI/95W, DDR3-1600,HT, Turbo2-5/5/6/6/7/7/8/8) Turbo +

Intel® Xeon® E5-2470v2(2.4GHz/10-core/25MB/8.0GT/s QPI/95W, DDR3-1600,HT, Turbo2-5/5/6/6/7/7/8/8) Turbo+

Intel® Xeon® E5-2450Lv2(1.7GHz/10-core/25MB/8.0GT/s QPI/60W, DDR3-1600, HT, Turbo2-5/5/6/6/7/7/8/8) Turbo+

Entry Processors - E5-2400 series Processors

NOTE: All support up to 1066MHz DDR3 memory speeds.

Intel® Xeon® E5-2407(2.2GHz/4 -core/10MB/6.4GT-s QPI/80W, DDR3-1066) Intel® Xeon® E5-2403(1.8GHz/4 -core/10MB/6.4GT-s QPI/80W, DDR3-1066)

Base Processors - E5-2400 series Processors

NOTE: All support up to 1333MHz DDR3 memory speeds.

Intel® Xeon® E5-2440(2.4GHz/6 -core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5) Turbo

Intel® Xeon® E5-2430(2.2GHz/6 -core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT,Turbo2- 3/3/4/4/5/5) Turbo

Intel® Xeon® E5-2430L(2.0GHz/6 -core/15MB/7.2GT-s QPI/60W, DDR3-1333,HT, Turbo2- 3/3/4/4/5/5) Turbo

Intel® Xeon® E5-2420(1.9GHz/6 -core/15MB/7.2GT/s QPI/95W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5) Turbo

Performance Processors - E5-2400 series Processors

NOTE: All support up to 1600MHz DDR3 memory speeds.

Intel® Xeon® E5-2470(2.3GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1600,HT, Turbo2-5/5/6/6/7/7/8/8) Turbo+

Intel® Xeon® E5-2450(2.1GHz/8 -core/20MB/8.0GT-s QPI/95W, DDR3-1600,HT, Turbo2-5/5/6/6/7/7/8/8) Turbo+

Intel® Xeon® E5-2450L(1.8GHz/8 -core/20MB/8.0GT-s QPI/70W, DDR3-1600,HT, Turbo2-2/2/3/3/4/4/5/5) Turbo+



Standard Features

	NOTE: Turbo2 indicates Technology, with 8, 7, 6, NOTE: DDR3 speed is the depend on the quantity a NOTE: Up to 2 processor NOTE: For the Intel® C60 the Product Line (E3, E5,	the processor model supports Intel® Hyper-Threading Technology. the maximum potential frequency increment when using Intel® Turbo Boost , 5, 4, 3, 2 and 1 cores active. e maximum memory speed of the processor. Actual memory speed may and type of DIMMs installed. rs supported. Mixing different processor models is not supported. 00 Chipset E5-2400 Series, the letter preceding the model number indicates , E7); 2400x v#, 2 = number of CPUs in a Node, 4 is socket/segment asor SKU, x = L for low power SKUs and v# (not yet designated) = version		
Cache Memory One of the following depending on Model	25MB (1x25MB) Level 3 NOTE: for ten-core proce 20MB (1x20MB) Level 3 NOTE: For Eight-core proce 15MB (1x15MB) Level 3 NOTE: For Six-core proce 10MB (1x10MB) Level 3 NOTE: For Quad-core proce NOTE: All processor mod	essors. ocessors. essors.		
Chipset One of the following depending on Model	Intel® C600 Series Chipset Intel® E5-2400 Processor Family Intel® E5-2400v2 Processor Family NOTE: For more information regarding Intel chipsets, please see the following URL: http://www.intel.com/products/server/chipsets/.			
Upgradeability One of the following depending on Model	Upgradeable to two processors (20 cores) NOTE: Processor upgrade available from Intel® Xeon® Processors E5-2400 to E5-2400 v2. Please contact HP Technology Sales (http://www.hp.com/support), your local HP Re-seller, or reference the following Customer Advisory: ProLiant Servers-Instructions for Upgrading an HP ProLiant Gen8 Server from an Intel Xeon Processor E5-2400 to an Intel Xeon Processor E5-2400v2, regarding critical details before upgrading. An explanation of requirements and limitations are provided.			
On System Management Chipset One of the following depending on Model	HP iLO (Firmware: HP iLO 4) NOTE: For more information, visit: http://www.hp.com/go/ilo			
Memory Protection One of the following depending on Model	Advanced ECC Online Spare Lock-step mode			
Memory One of the following depending on Model	Type Maximum Capacity (LRDIMM) Maximum Capacity (RDIMM) Maximum Capacity (UDIMM)	HP SmartMemory DDR3 Load Reduced (LRDIMM), Registered (RDIMM) or Unbuffered (UDIMM) 384GB (12 x 32GB LRDIMM @1333MHz) 192GB (12 x 16GB RDIMM @1600MHz or 1333MHz) 96GB (12 x 8GB UDIMM @1333MHz)		



Standard Features

NOTE: HP memory from previous generation servers are not fully compatible with the HP ProLiant
DL380e Gen8 Server.
NOTE: To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_na/14225_na.html NOTE: If only one processor is installed, only half the DIMM slots are available
NOTE: IT ONLY ONE processor is installed, only natr the DIMM slots are available NOTE: UDIMM max DIMM population is 12
NOTE: Depending on the memory configuration and processor model, the memory speed may run at
1600MHz, 1333MHz, or 1066MHz. Please see Memory Population Table or the Online Memory
Configuration Tool at: www.hp.com/go/ddr3memory-configurator.
The HD Brol jont DI 280e Cong corver offers the sustemer a guad-port NIC standard with the option to

Network Controller	The HP ProLiant DL380e Gen8 server offers the customer a quad-port NIC standard with the option to
One of the following	upgrade with a variety of networking options.
depending on Model	HP Ethernet 1Gb 4-port 366i Adapter

Expansion Slots

Primary Riser (Standard)	Expansion Slots #	Technology	Bus Width**	Connector Width	Form Factor	Notes
	1	PCIe 3.0	X4	X8	Full Length, Full Height Slot	
	2	PCle 3.0	X8	X16	Half Length, Full Height Slot	
	3	PCle 3.0	X8	X8	Half Length, Full Height Slot	
	4	PCle 2.0	X4	X8	Low Profile	

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

Primary Riser (Riser with SAS)	Expansion Slots #	Technology	Bus Width**	Connector Width	Form Factor	Notes
	1	PCIe 3.0	X4	X8	Full Length, Full Height Slot	
	2	PCle 3.0	X8	X16	Half Length, Full Height Slot	
	3	PCIe 3.0	NA	NA	NA	Not available for Riser with SAS
	4	PCIe 2.0	X4	X8	Low Profile	

** Indicates the number of physical electrical lanes running to the connector. **NOTE:** This riser kit comes with B320i Smart Array controller which provides support for up to 8 SAS or SATA drives and requires a SAS license key to support SAS drives.

Secondary Riser (Optional)	Expansion Slots #	Technology	Bus Width**	Connector Width	Form Factor	Notes
	5	PCle 3.0	X16	X16	Full length, full height slot	
	6	PCle 3.0	X8	X16	Half length, full height slot	

** Indicates the number of physical electrical lanes running to the connector. **NOTE:** When populating slots on secondary riser (p/n 661628-B21), a second processor must be installed.

NOTE: Slot 5 supports up to 225w PCIe cards. An additional Graphic Card Power Adapter Kit is required (663282-B21). See Option Section below for offering.

NOTE: Adding the rear drive cage negates the space required for secondary optional riser slots 5 & 6.



Standard Features

HP Server ROM	HP ROM (Read Only Memory) is now digitally signed using HP's Corporate Signing Service. This signature is verified before the flash process starts, reducing accidental programming and preventing malicious efforts to corrupt system ROM.					
	HP ROM provides for essential initialization and validation of hardware components before control is passed to the customer-installed operating system. The ROM also provides the capability of booting from various fixed media (HDD, CD-ROM) and removable media (USB), to continue operation to the operating system.					
	HP ROM performs very early configuration of the video controller, to allow monitoring of initialization progress via an attached monitor. If configuration or hardware errors are discovered during this early phase of hardware initialization, suitable messages are now displayed on the connected monitor. Additionally, these configuration or hardware errors are logged to the Integrated Management Log (IML) to assist in diagnosis.					
	HP's ProLiant ROM is used	to configure the following:				
	 Processor and chipset status registers System memory, memory map, and memory initialization System hardware configuration (Integrated PCI devices and optional PCIe cards). Customer-specific BIOS configuration (using the HP ROM-Based Setup Utility (RBSU). 					
	NOTE: For further information, please refer to HP's RBSU (ROM based setup utility) user guide: www.hp.com/support/rbsu.					
Storage Controller One of the following depending on Model	Entry Model - SATA	HP Dynamic Smart Array B120i Controller NOTE: Provides support for up to 6 SATA drives and data transmission speeds up to 3Gb/s				
	Entry Model - SAS	HP Dynamic Smart Array B320i/512MB FBWC Controller NOTE: Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6Gb/s and includes SAS license key.				
	Base Models - LFF	HP Dynamic Smart Array B320i/512MB FBWC Controller NOTE: Provides support for up to 8 SATA drives, data transmission speeds up to 6Gb/s and requires purchase of SAS license key for SAS mode.				
	Base Model - SFF	HP Dynamic Smart Array B320i/512MB FBWC Controller NOTE: Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6Gb/s and includes SAS license key.				
	High Performance Models	HP Smart Array P420/1GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0)				
	Storage Models - LFF	HP Smart Array P420/1GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0)				
	Storage Models - SFF	HP Smart Array P420/2GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0)				
Internal Storage Devices	Diskette Drive	None				
One of the following depending on Model	Optical Drive	Optional				
depending on house		DVD-ROM, DVD-RW NOTE: This option available with all 8SFF or 8LFF drive bay models.				
	Hard Drives	None ship standard				
	Drive Bays	8 SFF drive bays total with Optical Bay				
		Optional: +8SFF drive bay (total of 16SFF drive bays) NOTE: The Optical Drive bay is not available with +8SFF drive bay optional upgrade.				
		8 LFF drive bays total with Optical Bay				



Standard Features

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Server Power Cords One of the following	High voltage power cord NOTE: HP ProLiant DL se		ll part numbers. tandard with a 12-foot NEMA 5-15P to C13 power cord
Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 2.0 Compliant		
	USB 2.0 Ports		2 front, 4 back, 1 internal (secure) SSFF drive cage models have 1front, 4 back and 1
	SD slot	attempt to plug an	is not a hot-pluggable device. Customers should not SD card into the SD slot while the server is powered.
	HP iLO Remote Management Network Port	1 Gb Dedicated	
	LOM Network Ports	4x1GbE ports	
	Video	2 (1 front, 1 back)	not active simultaneously
Interfaces	Serial	1	
	Hot Plug LFF SATA SSD	11.2TB	14 x 800GB (with 12LFF drive cage + Rear 2LFF drive cage)
	Hot Plug SFF SATA SSD	21.6TB	27 x 800GB (with 25SFF drive cage + Rear 2SFF drive cage)
	Hot Plug SFF SAS SSD	21.6TB	27 x 800GB (with 25SFF drive cage + Rear 2SFF drive cage)
	Hot Plug LFF SATA	56.0TB	14 x 4TB (with 12LFF drive cage + Rear 2LFF drive cage)
	Hot Plug LFF SAS	56.0TB	14 x 4TB (with 12LFF drive cage + Rear 2LFF drive cage)
One of the following depending on Model	Hot Plug SFF SATA	27.0TB	27 x 1TB (with 25SFF drive cage + Rear 2SFF drive cage)
Maximum Internal Storage	Hot Plug SFF SAS	32.4TB	27 x 1.2TB (with 25SFF drive cage + Rear 2SFF drive cage)
		Optional: +2 Rear I 25 SFF drive bays t Optional: +2 Rear I NOTE: Drive cage of existing 8SFF drive NOTE: Adding the r optional riser slots NOTE: All Pre-conf blanks installed. SI they can order mon Blank Kit or P/N 66 numbers for single	ear drive cage negates the space required for secondary

Standard Features	
depending on Model	that connects to 110V US wall outlets in a home or office. ProLiant DL servers are primarily connected to power distribution units (PDUs) in data center racks and now ship standard with a PDU 6-foot C-14 to C13 power cord (A0K02A). If a user wishes to power a ProLiant DL server using a 110V receptacle (NEMA-15), the 6-foot NEMA 5-15 to C13 power cord must be ordered separately (AF556A). See Power Cords section for Power Cord options.
Power Specifications	To review typical system power ratings use the HP Power Advisor which is available via the online tool located at URL: www.hp.com/go/proliant-energy-efficient or www.hp.com/go/hppoweradvisor.
	NOTE: Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_na/14209_na.html
Common Slot Power Supply	NOTE: Mixing of power supplies in the same server is not supported. All power supplies inside a server must be exactly the same model. Mixing Gold, Platinum, and Platinum Plus certified power supplies is not supported.
	HP's Common Slot (CS) power supplies allow for commonality of power supplies across a wide range of ProLiant and Integrity servers, as well as HP Storage solutions, and are designed to provide the highest power supply efficiency without degrading system performance. HP CS power supplies are tested by the Electric Power Research Institute (EPRI) and certified through the ECOS 80 Plus power supply program. HP CS power supply options provide efficiency ratings of up to 96% (Titanium) and are available in three power output options - 460W, 750W, and 1200W - allowing the customer to "right- size" a power supply for their specific server configuration. All HP Common Slot power sources are UL, CE Mark Compliant, hot-plug and support redundant configurations.
	NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same output and efficiency rating. If non-matched power supplies are inserted you will get errors and operation will fail.
	HP CS Platinum Plus and Titanium power supplies are required when enabling HP's Intelligent Power Discovery (IPD) solution. IPD is the first technology to create an automated, energy-aware network between IT systems and facilities. This allows your company to reclaim millions of dollars in wasted power capacity and downtime costs across data centers. For more information on HP's IPD solution, go to www.hp.com/go/ipd. It is highly recommended that you use the HP Power Advisor in defining the "Right-Size" power supply for your needs. HP Power Advisor can be accessed at: www.hp.com/go/hppoweradvisor.
	NOTE: The 80 PLUS program is a unique forum that unites electric utilities, the computer industry, and consumers in an effort to bring energy efficient technology solutions to the marketplace. 80 Plus independently tests power supply efficiency and publicly posts the results on www.80Plus.org.
	Redundant Power: Optional (1+ 1) power supplies can be purchased through power supply option kits (see Power Supplies for part numbers).
	NOTE: Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_na/14209_na.html
System Fans One of the following depending on Model	 (4) Hot-Plug Non-redundant Fans ship standard in 1P Models 1P: 4 fans - non-redundancy 1P: 5 fans - redundancy

(6) Hot-plug Redundant Fans ship standard in 2P Models





Standard Features

	 2P: 5 fans - nor 2P: 6 fans - red 	•			
	NOTE: Customers may separately purchase redundant fans with the 667855-B21 option kit. Additional fan to support redundancy are also included in -B21 processor option kits when upgrading from one processor to two processors.				
Required Cabling	For required cabling information, refer to the HP Web site at: www.hp.com/servers/dl380e-gen8 .				
Operating Systems and Virtualization Software Support for ProLiant Servers	Microsoft Windows Serv Red Hat Enterprise Linux SUSE Linux Enterprise S Oracle Solaris VMware	< (RHEL)			
	NOTE: For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page http://www.hp.com/support/DL380eGen8				
Graphics	Integrated Matrox G200 video standard				
	 1280 x 1024 (3 1920 x 1200 (1 	••			
Form Factor One of the following depending on Model	2U Rack form factor Entry models ship with f All other models ship wi	ïxed rails. th sliding rails and cable management system.			
	8 SFF Drive Bay Version: 3.44 (8.75 cm) Height x 17.54" (44.55 cm) Width x 27.5" (69.85 cm) Length				
	8 LFF Drive Bay Version: 3.44 (8.75cm) Height x 17.54" (44.55 cm) Width x 29.5" (74.94cm) Length				
	12 LFF Drive Bay Version: 3.44 (8.75cm) Height x 17.54" (44.55 cm) Width x 29.5" (74.94cm) Length				
	25 SFF Drive Bay Version 3.44 (8.75 cm) Height x	n: 17.54" (44.55 cm) Width x 27.5" (69.85 cm) Length			
On System Management	HP iLO Management Engine	HP iLO Management Engine is a comprehensive set of embedded management features supporting the complete lifecycle of the server, from initial deployment, through ongoing management, to service alerting and remote support. HP iLO Management Engine comes standard on all HP ProLiant Gen8 servers. The HP iLO Management Engine portfolio includes:			
		 HP iLO: The HP iLO (Integrated Lights-Out) management processor is the core foundation for the HP iLO Management Engine HP Agentless Management: Provides built in server health monitoring and alerting capability without OS agents, that starts working the moment a power cord and an Ethernet cable are connected. HP Active Health System: Always on, continuous monitoring for increased stability and shorter downtimes; 100% configuration 			



Standard Features

history; Health and service alerts and easy export and upload to Service and Support.

- HP Intelligent Provisioning: Lets customers provision and configure a single server without any separate media. No more SmartStart CDs or Smart Update Firmware DVD are needed.
 - To start Intelligent Provisioning:
 - Press the F10 key during the ProLiant Gen8 server boot process (also known as power on self-test or POST).
 - Please go to the Intelligent Provisioning website at www.hp.com/go/intelligentprovisioning for additional information and to view usage videos.
 - Use the Service Pack for ProLiant (SPP) at www.hp.com/go/spp to get firmware and software updates.
- **HP iLO Mobile App:** Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: www.hp.com/go/ilo/mobileapp

NOTE: For more information, visit: http://www.hp.com/go/ilo or HP iLO Management Engine technologies whitepaper

Security	Power-on password Serial interface control Administrator's password
Warranty	This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details. NOTE: Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html



Optional Features



Optional Features

(hp)

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HPC Interconnects	under the HP Cluster Plat by HP when they are part flexibility with the help of	Computing (HPC) interconnect technologies are available for this server form product portfolio. These high-speed interconnects are fully supported of these configure to order clusters. Solutions can be defined with a lot of f configuration tools. Please visit the following URL to configure HPC Clusters ects: http://www.hp.com/techservers/clusters/ucp/index.html PCI-Express Generation 2 adapters
HP Insight Online	HP support information p devices remotely monitor	v addition to the HP Support Center for one stop, secure access to product and bersonalized to your IT environment. Insight Online can automatically display red by HP Insight Remote Support. With Insight Online's easy navigation you IT support contracts and device status from anywhere and at anytime. online
	NOTE: For more informat http://www.hp.com/go/s	ion available Storage Software including QuickSpecs, please see: torage/software
	 software will cost Data Archive and HP's storage soft improve applicat accessed or less Storage Resource HP's storage reso command and cost and virtual envire Data Replication HP offers array-I testing, applicati Storage Device I Maximize your in hardware-specif HP StoreVirtual With HP StoreVir heterogeneous at 	n Software based and host-based replication software for use in disaster recovery, ion development and reporting. Management Software Ivestment in HP storage and networking with software that enables ic configuration, performance tuning and connectivity management.
	Storage software that ge Data Protection 	ts the job done: and Recovery Software
Storage Software	challenge, or deliver on si than HP storage software	e a specific data protection, archiving, or storage command and control trategic consolidation, compliance, or continuity initiatives, look no further e. Our storage software helps you reduce costs, simplify storage ral assets and respond faster to business opportunities.
	HP Insight Cluster Management Utility	integrated within an HP cluster. Flexible, validated solutions can be defined with the help of configuration tools. http://www.hp.com/techservers/clusters/ucp/index.html HP Insight Cluster Management Utility (CMU) is an HP-licensed and HP- supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective. http://www.hp.com/go/cmu

Optional Features

Factory Express Portfolio for Servers and Storage	HP Factory Express offers configuration, customization, integration and deployment services for HP 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. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSAxxxx, EVA7xxx, EVA, 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 .		
HP Proactive Insight experience	Prevent problems with innovative, automated monitoring tools and proactive services. The HP Proactive Insight experience consists of using Insight Online, Insight Remote Support, and Proactive Care Support Service as one integrated solution. The Proactive Insight experience provides you with expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems quickly. For more information, visit: www.hp.com/go/proactiveinsightexperience		
HP Simple Configurator	SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact HP's Customer Business Center or an Authorized Partner for assistance. http://www.hp.com/products/configurator		

Service and Support

Service and Support	HP Technology Services for Industry Standard Servers HP Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HP to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.		
	Protect your business beyond warranty with HP Care Pack Services HP Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.		
Optimized Care	Optimized Care: Supports maintaining servers at optimum performance availability		
	HP Proactive Care with 24x7 coverage, three year Care Pack Service HP Proactive Care helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. 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 HP ProLiant server. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf		
Standard Care	Standard Care: Service recommendation that maintains high level of server availability		
	Foundation Care 24x7, three-year Care Pack Service HP Foundation Care 24x7 connects you to HP 24 hours a day, seven days a week for assistance on resolving issues. Hardware onsite response within four hours if needed; collaborative software included in this Care Pack service provides troubleshooting assistance on industry leading software running on your HP server. Simplify your support experience and make HP your first call for hardware or software questions. http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en		
Related services	HP ProLiant Server Hardware Installation Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf		
	Factory Express for Servers and storage HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed. 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.		
	Data Privacy Services Protect your data through better media management. HP Data privacy services help manage and protect sensitive data to reduce the risk of unauthorized access to private information and help meet compliance requirements. Our retention services allow you to keep drives and other devices upon failure, our removal services provide convenient data sanitization and our recovery services allow you to safely retire IT assets and capture any remaining value from the hardware. www.hp.com/services/dataprivacy		
	Additional HP Care Pack services can be found at: http://www.hp.com/go/cpc		



Service and Support

Get connected to HP to improve your support experience	Prevent problems with innovative, automated monitoring tools and proactive services. Combining Proactive Care Services with our remote support technology such as Insight Online provides you with expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems quickly. For more information, visit: www.hp.com/go/proactiveinsightexperience
HP Support Center	Personalized online support portal with access to information, tools and experts to support HP business products. Submit support cases online, chat with HP experts, access support resources or collaborate with peers. Learn more http://www.hp.com/go/hpsc
	HP'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. HP Insight Remote Support and HP Support Center are available at no additional cost with a HP warranty, HP Care Pack or HP contractual support agreement.
	*HP' Support Center Mobile App is subject to local availability
Warranty / Service Coverage	For ProLiant servers and storage systems, the services cover HP-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.
	The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HP as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.
For more information	To learn more on HP ProLiant servers and HP BladeSystem servers, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant



Pre-configured Models

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

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

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

NOTE: If you desire a custom configuration please see "Configuration Information – Factory Integrated Models" section of this QuickSpecs.

NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either P/N 666987-B21: HP SFF Gen8 Hard Drive Blank Kit or P/N 666986-B21: HP LFF Gen8 Hard Drive Blank Kit.

NOTE: When the SAS-enabled riser board with the Smart Array B320i controller is installed in the server, the embedded Smart Array B120i controller is automatically disabled. In the absence of another storage controller or an expander backplane, front drives operate in AHCI or Legacy mode. In these two modes, the drives are not part of a hardware RAID or a member of a logical drive. The Locate, Drive status, and Do not remove LEDs in the drive carrier are disabled.

Entry Models - SATA

HP ProLiant DL380e Gen8 E5-2403v2 4GB-R B120i Hot Plug SATA 4 LFF	Processor	(1) Intel® Xeon® E5-2403v2 (1.8GHz/4-core/10MB/80W, DDR3-1333) Processor
	Cache Memory	10MB (1 x 10MB) L3 cache
460W PS Server 747766-001	Memory	4GB (1x4GB) DDR3 Registered DIMMs PC3-10600R (1333MHz)
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B120i Controller NOTE: Provides support for up to 6 SATA drives and data transmission speeds up to 3Gb/s Greater than 4 drives requires an additional cable (see p/n 675856-B21)
	Hard Drive	None ship standard; includes 7 LFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.
	Internal Storage	8 LFF HDD Bays NOTE: This model comes with 8LFF Chassis.
	Power Supply	(1) HP 460W CS Gold Hot Plug Power Supply (92% Efficient)
	Fans	4 Hot-Plug Non-redundant Fans NOTE: Customers can upgrade to a redundant fan configuration with the purchase of an option kit (see p/n 667855-B21)
	Form Factor Warranty	 Rack (2U) NOTE: Includes Rack Mounting Gen8 non-telescoping Friction Rail Kit which does not allow for in rack serviceability. The HP 1U Gen8 Cable Management Arm is not available when using Friction Rails. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation. Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.
HP ProLiant DL380e Gen8 E5-2403 1P 4GB-R Hot		(1) Intel® Xeon® E5-2403 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3- 1066) Processor
Plug 4 LFF 460W PS Entry	Cache Memory	10MB (1 x 10MB) L3 cache
Server	Memory	4GB (1 x 4GB) Registered DIMMs PC3-10600R (1333MHz)



Pre-configured Models

648255-001		NOTE: Memory runs at 1066MHz speed due to processor.
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B120i Controller NOTE: Provides support for up to 6 SATA drives and data transmission speeds up to 3Gb/s Greater than 4 drives requires an additional cable (see p/n 675856-B21)
	Hard Drive	None ship standard; includes 7 LFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.
	Internal Storage	8 LFF HDD Bays NOTE: This model comes with 8LFF Chassis.
	Power Supply	(1) HP 460W CS Gold Hot Plug Power Supply (92% Efficient)
	Fans	4 Hot-Plug Non-redundant Fans NOTE: Customers can upgrade to a redundant fan configuration with the purchase of an option kit (see p/n 667855-B21)
	Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 non-telescoping Friction Rail Kit which does not allow for in rack serviceability. The HP 1U Gen8 Cable Management Arm is not available when using Friction Rails. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539- 001).
		Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
	Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

Entry Models - SAS

HP ProLiant DL380e Gen8 E5-2403 1P 4GB-R Hot Plug 8 SFF 460W PS Entry Server 648256-001		(1) Intel® Xeon® E5-2403 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3- 1066) Processor
	Cache Memory	10MB (1 x 10MB) L3 cache
	Memory	4GB (1 x 4GB) Registered DIMMs PC3L-10600R (1333MHz) NOTE: Memory runs at 1066MHz speed due to processor.
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B320i Controller NOTE: Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6Gb/s and includes SAS license key.
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.
	Internal Storage	8 SFF HDD Bays
	Power Supply	(1) HP 460W CS Gold Hot Plug Power Supply (92% Efficient)
	Fans	4 Hot-Plug Non-redundant Fans NOTE: Customers can upgrade to a redundant fan configuration with the purchase of an option kit (see p/n 667855-B21)
	Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 non-telescoping Friction Rail Kit which does not allow for in rack serviceability. The HP 1U Gen8 Cable Management Arm is not available when using Friction Rails. 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-



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Pre-configured Models		
		001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
	Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.
Base Models - LFF		
HP ProLiant DL380e Gen8 E5-2407v2 8GB-R B320i	Processor	(1) Intel® Xeon® E5-2407v2 (2.4GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3-1333) Processor
Hot Plug SAS 8 LFF 460W	Cache Memory	10MB (1 x 10MB) L3 cache
PS Server 747767-001	Memory	8GB (1 x 8GB DDR3-1600MHZ RDIMMs) NOTE: Memory runs at 1333MHz speed due to processor.
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B320i/512 MB FBWC Controller NOTE: Provides support for up to 8 SATA drives, data transmission speeds up to 6Gb/s and requires purchase of SAS license key for SAS mode.
	Hard Drive	None ship standard; includes 7 LFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.
	Internal Storage	8 LFF HDD Bays
	Power Supply	(1) HP 460W CS Gold Hot Plug Power Supply (92% Efficient)
	Fans	4 Hot-Plug Non-redundant Fans NOTE: Customers can upgrade to a redundant fan configuration with the purchase of an option kit (see p/n 667855-B21)
	Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping LFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

Warranty Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

HP ProLiant DL380e Gen8 E5-2407 1P 8GB-R Hot Plug 8 LFF 460W PS Base	Processor	Intel® Xeon® E5-2407 (2.2GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3- 1066) Processor
	Cache Memory	10MB (1 x 10MB) L3 cache
Server 668665-001	Memory	8GB (2 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B320i/512MB FBWC Controller NOTE: Provides support for up to 8 SATA drives, data transmission speeds up to 6Gb/s and requires purchase of SAS license key for SAS mode.
	Hard Drive	None ship standard; includes 7 LFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.
	Internal Storage	8 LFF HDD Bays
	Power Supply	(1) HP 460W CS Gold Hot Plug Power Supply (92% Efficient)
	Fans	4 Hot-Plug Non-redundant Fans NOTE: Customers can upgrade to a redundant fan configuration with the purchase of an option kit (see p/n 667855-B21)



Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping LFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.
Base Models - SFF	

HP ProLiant DL380e Gen8 E5-2407v2 8GB-R B320i Hot Plug SAS 8 SFF 460W PS Server 747768-001	Processor	(1) Intel® Xeon® E5-2407v2 (2.4GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3-1333) Processor
	Cache Memory	10MB (1 x 10MB) L3 cache
	Memory	8GB (1 x 8GB DDR3-1600MHZ RDIMMs) NOTE: Memory runs at 1333MHz speed due to processor.
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B320i/512MB FBWC Controller NOTE: Provides support for up to 8 SATA drives, data transmission speeds up to 6Gb/s and requires purchase of SAS license key for SAS mode.
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.
	Internal Storage	8 SFF HDD Bays
	Power Supply	(1) HP 460W CS Gold Hot Plug Power Supply (92% Efficient)
	Fans	4 Hot-Plug Non-redundant Fans NOTE: Customers can upgrade to a redundant fan configuration with the purchase of an option kit (see p/n 667855-B21)
	Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping LFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
	Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.
HP ProLiant DL380e Gen8 E5-2407 1P 8GB-R Hot	Processor	(1)) Intel® Xeon® E5-2407 (2.2GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3- 1066) Processor
Plug 8 SFF 460W PS Base	Cache Memory	10MB (1 x 10MB) L3 cache
Server 668666-001	Memory	8GB (2 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B320i/512MB FBWC Controller NOTE: Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6Gb/s and includes SAS license key.
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.
	Internal Storage	8 SFF HDD Bays



Pre-configured Models

Power Supply Fans	(1) HP 460W CS Gold Hot Plug Power Supply (92% Efficient) 4 Hot-Plug Non-redundant Fans NOTE: Customers can upgrade to a redundant fan configuration with the purchase of an option kit (see p/n 667855-B21)
Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

High Performance Models

HP ProLiant DL380e Gen8 E5-2450v2 24GB-R Hot	Processor	(2) Intel® Xeon® E5-2450v2 (2.5GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1600) Processor	
Plug SAS/SATA 8 SFF	Cache Memory	20MB (1x20MB) Level 3	
750W RPS Server 747771-001	Memory	24GB (3 x 8GB) Registered DIMMs PC3L-12800R (1600MHz)	
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter	
	Storage Controller	HP Smart Array P420/1GB FBWC Controller (RAID 0/1/1+0/5/5+0+6/6+0) NOTE: This controller would be installed on the standard riser card or the optional secondary riser card.	
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.	
	Internal Storage	8 SFF HDD Bays	
	Power Supply	(2) HP 750W CS Gold Plus Hot Plug Power Supplies (92% Efficient)	
	Fans	6 Hot-plug Redundant Fans	
	Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping 8SFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.	
	Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.	
HP ProLiant DL380e Gen8 E5-2450 2P 24GB-R P420	Processor	(2) Intel® Xeon® E5-2450 (2.1GHz/8-core/20MB/8GT-s QPI/95W, DDR3- 1600, 5/5/6/6/7/7/8/8) Processors	
Hot Plug 8 SFF 750W PS	Cache Memory	20MB (1x20MB) Level 3	
Perf Svr 668669-001	Memory	24GB (6 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)	
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter	
	Storage Controller	HP Smart Array P420/1GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0) NOTE: This controller would be installed on the standard riser card or the optional secondary riser card.	
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks NOTE: This model comes with 7 HDD blanks if no HDD is ordered.	



Internal Storage	8 SFF HDD Bays
Power Supply	(1) HP 750W CS Gold Plus Hot Plug Power Supplies (92% Efficient)
Fans	6 Hot-plug Redundant Fans
Energy Star	Meets Energy Star requirements
Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping 8SFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

Storage Models - LFF

HP ProLiant DL380e Gen8 E5-2420v2 12GB-R Hot	Processor	(1) Intel® Xeon® E5-2420v2 (2.2GHz/6-core/15MB/7.2GT-s QPI/80W, DDR3-1600) Processor		
Plug SAS/SATA 12 LFF	Cache Memory	15MB (1 x 15MB) L3 cache		
750W PS Server 747769-001	Memory	12GB (3 x 4GB) Registered DIMMs PC3L-12800R (1600MHz)		
747705-001	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter		
	Storage Controller	HP Smart Array P420/1GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0) NOTE: This controller would be installed on the standard riser card or the optional secondary riser card.		
	Hard Drive	None ship standard; includes 11 LFF hard drive blanks NOTE: This model comes with 11 HDD blanks if no HDD is ordered.		
	Internal Storage	12 LFF HDD Bays		
	Power Supply	(1) HP 750W CS Gold Hot Plug Power Supply (92% Efficient)		
	Fans	4 Hot-Plug Non-redundant Fans		
	Form Factor Warranty	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping LFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation. Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.		
HP ProLiant DL380e Gen8 E5-2420 1P 12GB-R P420	Processor	(1) Intel® Xeon® E5-2420 (1.9GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3- 1333, 3/3/4/4/5/5) Processor		
Hot Plug 12 LFF 750W PS	Cache Memory	15MB (1x15MB) Level 3		
Server 668667-001	Memory	12GB (3 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)		
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter		
	Storage Controller	HP Smart Array P420/1GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0) NOTE: This controller would be installed on the standard riser card or the optional secondary riser card.		
	Hard Drive	None ship standard; includes 11 LFF hard drive blanks		



	NOTE: This model comes with 11 HDD blanks if no HDD is ordered.
Internal Storage	12 LFF HDD Bays
Power Supply	(1) HP 750W CS Gold Hot Plug Power Supply (92% Efficient)
Fans	4 Hot-Plug Non-redundant Fans
Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping LFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

Storage Models - SFF

HP ProLiant DL380e Gen8 E5-2420v2 12GB-R Hot	Processor	(1) Intel® Xeon® E5-2420v2 (2.2GHz/6-core/15MB/7.2GT-s QPI/80W, DDR3-1600) Processor	
Plug SAS/SATA 25 SFF	Cache Memory	15MB (1 x 15MB) L3 cache	
750W PS Server 747770-001	Memory	12GB (3 x 4GB) Registered DIMMs PC3L-12800R (1600MHz)	
14/1/0-001	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter	
	Storage Controller	HP Smart Array P420/2GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0) NOTE: This controller would be installed on the standard riser card or the optional secondary riser card.	
	Hard Drive	None ship standard; includes 24 SFF hard drive blanks NOTE: This model comes with 24 HDD blanks if no HDD is ordered.	
	Internal Storage	25 SFF HDD Bays	
	Power Supply	(1) HP 750W CS Gold Hot Plug Power Supply (92% Efficient)	
	Fans	4 Hot-Plug Non-redundant Fans	
	Form Factor Warranty	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation. Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.	
HP ProLiant DL380e Gen8 E5-2420 1P 12GB-R P420	Processor	(1) Intel® Xeon® E5-2420 (1.9GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3- 1333, HT, Turbo2- 3/3/4/4/5/5) Turbo Processor	
Hot Plug 25 SFF 750W PS	Cache Memory	15MB (1 x 15MB) L3 cache	
Server 668668-001	Memory	12GB (3 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)	
	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter	
	Storage Controller	HP Smart Array P420/2GB FBWC Controller (RAID 0/1/1+0/5/5+0/6/6+0) NOTE: This controller would be installed on the standard riser card or the optional secondary riser card.	
	Hard Drive	None ship standard; includes 24 SFF hard drive blanks	



Internal Storage Power Supply Fans	NOTE: This model comes with 24 HDD blanks if no HDD is ordered. 25 SFF HDD Bays (1) HP 750W CS Gold Hot Plug Power Supply (92% Efficient) 4 Hot-Plug Non-redundant Fans
Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit which does allow for in rack serviceability. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.



Smart Buys

HP ProLiant DL380e Gen8 E5-2403 1P	Processor(s)	(1) Intel® Xeon® E5-2403 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3- 1066, HT)			
2GB-U Hot Plug 8 LFF	Cache Memory	10MB (1x10MB) Level 3			
460W PS Server/S-Buy	Memory	2GB (1x2GB) Unbuffered DIMMs PC3L-10600E			
716676-S01	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter			
	Storage Controller	HP Dynamic Smart Array B120i Controller			
	Hard Drive	None ship standard			
	Internal Storage	8 LFF HDD Bays			
	Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)			
	PCI-Express Slots	4 standard (1-FL/FH, 2HL/FH, 1-LP)			
	Power Supply	HP 460W CS Gold Hot Plug Power Supply			
	Fans	4 Hot-Plug Non-Redundant Fans			
	Management	HP iLO Management Engine (standard)			
	Form Factor	Rack (2U)			
		NOTE: Rail kit not included; please select part number 663480-B21: HP 2U LFF Ball Bearing Rail Kit			
	Warranty	Server Warranty includes 3-Year Parts, 1-Year Labour, 1-Year Onsite support with next business day response.			
HP ProLiant DL380e Gen8 E5-2403 1P	Processor(s)	(1) Intel® Xeon® E5-2403 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3- 1066, HT)			
8GB-R Hot Plug 8 SFF	Cache Memory	10MB (1x10MB) Level 3			
2x460W PS Server/S-Buy	Memory	8GB (1 x 8GB) Registered DIMMs PC3-10600R (1333MHz)			
Server/S-Buy 686202-S01	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter			
	Storage Controller	HP Dynamic Smart Array B320i/ZM Controller NOTE: Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6Gb/s and includes SAS license key.			
	Hard Drive	None ship standard NOTE: This model comes with 7 HDD blanks if no HDD is ordered.			
	Internal Storage	8 SFF HDD Bays			
	Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)			
	PCI-Express Slots	4 standard (1-FL/FH, 2HL/FH, 1-LP)			
	Power Supply	(2) HP 460W CS Plat PL Hot Plug Power Supply (92% Efficient)			
	Fans	6 Hot-Plug Redundant Fans			
	Management	HP iLO Management Engine (standard)			
	Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit which does allow for in rack serviceability. Due to the size and weight of the server two people are required to install the server into the rack. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative. Caution: HP recommends that a minimum of two people is required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.			
	Warranty	Server Warranty includes 3-Year Parts, 1-Year Labour, 1-Year Onsite support with next business day response.			



Smart Buys

HP ProLiant DL380e Gen8 E5-2420 1P	Processor(s)	Intel® Xeon® E5-2420 (1.9GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3- 1333, HT, Turbo2- 3/3/4/4/5/5)Turbo
16GB-R Hot Plug	Cache Memory	15MB (1x15MB) Level 3
8 SFF 2x460W PS Server/S-Buy	Memory	16GB (2 x 8GB) Registered DIMMs PC3-10600R (1333MHz)
686203-S01	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B320i/512MB FBWC Controller NOTE: Provides support for up to 8 SAS/SATA drives, data transmission speeds up to 6Gb/s and includes SAS license key.
	Hard Drive	None ship standard NOTE: This model comes with 7 HDD blanks if no HDD is ordered.
	Internal Storage	8 SFF HDD Bays
	Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	4 standard (1-FL/FH, 2HL/FH, 1-LP)
	Power Supply	(2) HP 460W CS Plat PL Hot Plug Power Supply
	Fans	6 Hot-Plug Redundant Fans
	Management	HP iLO Management Engine (standard)
	Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit which does allow for in rack serviceability. Due to the size and weight of the server two people are required to install the server into the rack. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative. Caution: HP recommends that a minimum of two people is required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.
	Warranty	Server Warranty includes 3-Year Parts, 1-Year Labour, 1-Year Onsite support with next business day response.
HP ProLiant DL380e Gen8 E5-2440 2P	Processor(s)	(2) Intel® Xeon® E5-2440 (2.4GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3- 1333, HT, Turbo2- 3/3/4/4/5/5)Turbo
32GB-R Hot Plug 25	Cache Memory	15MB (1x15MB) Level 3
SFF 2x750W PS Server/S-Buy	Memory	32GB (4 x 8GB) Registered DIMMs PC3-10600R (1333MHz)
686204-S01	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Smart Array P420i/2GB FBWC Controller (RAID 0/1/1+0/5/5+0)
	Hard Drive	None ship standard NOTE: This model comes with 24 HDD blanks if no HDD is ordered.
	Internal Storage	25 SFF HDD Bays
	Optical Drive Bay	None
	PCI-Express Slots	4 standard (1-FL/FH, 2HL/FH, 1-LP)
	Power Supply	(2) HP 750W CS Plat Hot Plug Power Supply
	Fans	6 Hot-Plug Redundant Fans
	Management	HP iLO Management Engine (standard)
	Form Factor	Rack (2U) NOTE: Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit which does allow for in rack serviceability. Due to the size and weight of the server two people are required to install the server into the rack. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative. Caution: HP recommends that a minimum of two people is required for all Rack



Smart Buys

		Server installations. Please refer to your installation instructions for
	Warranty	proper tools and number of people to use for any installation. Server Warranty includes 3-Year Parts, 1-Year Labour, 1-Year Onsite
		support with next business day response.
HP ProLiant DL380e Gen8 E5-2403v2	Processor	(1) Intel® Xeon® E5-2403v2 (1.8GHz/4-core/10MB/80W, DDR3-1066) Processor
4GB-U B120i Hot Plug	Cache Memory	10MB (1 x 10MB) L3 cache
SATA 8 LFF 460W PS	Memory	4GB (1x4GB) DDR3 UDIMM
Server/S-Buy 748204-S01	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
	Storage Controller	HP Dynamic Smart Array B120i Controller
	Hard Drive	None ship standard; includes 7 LFF hard drive blanks
	Internal Storage	8 LFF HDD Bays
	Power Supply	(1) HP 460W CS Gold Hot Plug Power Supply (92% Efficient)
	Fans	4 Hot-Plug Non-redundant Fans
	Form Factor	Rack (2U); Includes 2U Friction Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response entitled to the server.
HP ProLiant DL380e Gen8 E5-2403v2	Processor	(1) Intel® Xeon® E5-2403v2 (1.8GHz/4-core/10MB/80W, DDR3-1066) Processor
8GB-R B320i Hot Plug	Cache Memory	10MB (1 x 10MB) L3 cache
B SFF 460W RPS	Memory	8GB (1x8GB) DDR3 RDIMM
Server/S-Buy 748205-S01	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
140205-501	Storage Controller	HP Dynamic Smart Array B320i/ZM Controller
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks
	Internal Storage	8 SFF HDD Bays
	Power Supply	(2) HP 460W CS Gold Hot Plug Redundant Power Supplies (92% Efficient)
	Fans	4 Hot-Plug Non-redundant Fans
	Form Factor	Rack (2U); Includes 2U BB Rail Kit with Cable Management Arm
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response entitled to the server.
HP ProLiant DL380e Gen8 E5-2440v2 2P	Processor	(2) Intel® Xeon® E5-2440v2(1.9GHz/8-core/20MB/7.2GT/s QPI/95W, DDR3 1600,HT, Turbo2- 3/3/4/4/5/5) Turbo
32GB-R P420/2GB	Cache Memory	20MB (1 x 20MB) L3 cache
Hot Plug 25 SFF 750W	Memory	32GB (4x8GB) DDR3 RDIMM
RPS Server/S-Buy	Network Controller	HP Ethernet 1Gb 4-port 366i Adapter
748207-S01	Storage Controller	HP Smart Array P420/2GB FBWC Controller
	Hard Drive	None ship standard; includes 24 SFF hard drive blanks
	Internal Storage	25 SFF HDD Bays
	Power Supply	(2) HP 750W CS Platinum Plus Hot Plug Redundant Power Supplies (92% Efficient)
	Fans	6 Hot-Plug Redundant Fans
	Form Factor	Rack (2U); Includes 2U BB Rail Kit with Cable Management Arm
	Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.



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

NOTE: Factory Integrated Models must start with a CTO Server.

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

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

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

NOTE: Rail kits and cable management solutions are optional in CTO. See "Step 3: Choose Additional Factory Integratable Options" for details on ordering.

NOTE: The DL380e ships standard with the Dynamic Smart Array B120i controller which provides support for up to 6 SATA drives (greater than 4 drives requires additional cable, p/n 675856-B21) and data transmission speeds up to 3Gb/s. Customers requiring SAS support or greater than 6 drives should select either a Smart Array family controller or the HP Dynamic Smart Array B320i controller (p/n 661402-B21, implemented via riser).

NOTE: When the SAS-enabled riser board with the Smart Array B320i controller is installed in the server, the embedded Smart Array B120i controller is automatically disabled. In the absence of another storage controller or an expander backplane, front drives operate in ACHI or Legacy mode. In these two modes, the drives are not part of a hardware RAID or a member of a logical drive. The Locate, Drive status, and Do not remove LEDs in the drive carrier are disabled.

NOTE: Number of HDD blanks in a given chassis is same as number of drive cage bays.

NOTE: Power Supply not included - choose from Options section.

HP Models

HP ProLiant DL380e Gen8 12 LFF Configure-to-order Server

669257-B21

NOTE: This CTO server includes an "expander-based" storage backplane. A single Smart Array P420 controller is capable of controlling all 12 LFF drives and optional rear drives.

Factory Integrated Model ships with:

2 x HP Smart Socket Guides for fast processor installation. 12 DIMM slots for RDIMM, LRDIMM and UDIMM Memory installation HP Ethernet 1Gb 4-port 366i Adapter HP Dynamic Smart Array B120i Controller with Zero Memory (ZM) I/O slots - 4 Slots come standard:

- Slot 1 FL/FH x4 PCIe 3.0 (x8 connector)
- Slot 2 HL/FH x8 PCIe 3.0 (x16 connector)
- Slot 3 HL/FH x8 PCIe 3.0 (x8 connector)
- Slot 4 Low Profile x4 PCIe 2.0 (x8 connector)
- Additional Slots may be added via selections from the PCI Information and Options subsection

System Fans - 4 (1 additional fan included with purchase of second processor) Drive Cage - 12-LFF USB - 4 Rear, 1 Front, 1 Internal, 1 SD slot HP iLO Management Engine (standard)

NOTE: New options are available for Rack Rail Kits; these options are no longer standard on-board with this Model Part Number. Please see HP Rack Options below for optional required options.

HP ProLiant DL380e Gen8 25 SFF Configure-to-order Server **NOTE:** This CTO server includes an "expander-based" storage backplane. A single Smart Array P420 is capable of controlling all 25 SFF drives and optional rear drives.

Factory Integrated Model ships with:

2 x HP Smart Socket Guides for fast processor installation. 12 DIMM slots for RDIMM, LRDIMM and UDIMM Memory installation HP Ethernet 1Gb 4-port 366i Adapter



669256-B21

HP Dynamic Smart Array B120i Controller with Zero Memory (ZM) I/O slots - 4 Slots come standard:

- Slot 1 FL/FH x4 PCIe 3.0 (x8 connector)
- Slot 2 HL/FH x8 PCIe 3.0 (x16 connector)
- Slot 3 HL/FH x8 PCIe 3.0 (x8 connector)
- Slot 4 Low Profile x4 PCIe 2.0 (x8 connector)
- Additional Slots may be added via selections from the PCI Information and Options subsection

System Fans - 4 (1 additional fans included with purchase of second processor) Drive Cage - 25-SFF

USB - 4 Rear, 1 Front, 1 Internal, 1 SD slot

HP iLO Management Engine (standard)

NOTE: New options are available for Rack Rail Kits; these options are no longer standard on-board with this Model Part Number. Please see HP Rack Options below for optional required options.

HP ProLiant DL380e Gen8 8 LFF Configure-to-order Server **NOTE:** This CTO server supports 4, 6, and 8LFF drive configurations based on the selection of controller. The HP Dynamic Smart Array B120i is capable of controlling up to 6 SATA drives. Greater than 4 SATA drives require the use of an option cable, p/n 675856-B21). Greater than 6 SATA drives require an HP Dynamic Smart Array B320i or P420 or greater controller.

Factory Integrated Model ships with:

2 x HP Smart Socket Guides for fast processor installation. 12 DIMM slots for RDIMM, LRDIMM and UDIMM Memory installation HP Ethernet 1Gb 4-port 366i Adapter HP Dynamic Smart Array B120i Controller with Zero Memory (ZM) I/O slots - 4 Slots come standard:

- Slot 1 FL/FH x4 PCIe 3.0 (x8 connector)
- Slot 2 HL/FH x8 PCIe 3.0 (x16 connector)
- Slot 3 HL/FH x8 PCIe 3.0 (x8 connector)
- Slot 4 Low Profile x4 PCIe 2.0 (x8 connector)
- Additional Slots may be added via selections from the PCI Information and Options subsection

System Fans - 4 (one additional fan included with purchase of second processor) Drive Cage - 8-LFF (Optical media drive optional) USB - 4 Rear, 2 Front, 1 Internal, 1 SD slot HP iLO Management Engine (standard) **NOTE:** New options are available for Rack Rail Kits; these options are no longer standard on-board with this Model Part Number. Please see HP Rack Options below for optional required options. HP ProLiant DL380e Gen8 8 SFF Configure-to-order Server

NOTE: This CTO server supports up to 8SFF drives and is expandable up to 16 SFF drives via the optional 8SFF upgrade kit (p/n 668295-B21).

Factory Integrated Model ships with:

2 x HP Smart Socket Guides for fast processor installation. 12 DIMM slots for RDIMM, LRDIMM and UDIMM Memory installation HP Ethernet 1Gb 4-port 366i Adapter HP Dynamic Smart Array B120i Controller with Zero Memory (ZM) I/O slots - 4 Slots ship standard: 669253-B21

669255-B21

- Slot 1 FL/FH x4 PCIe 3.0 (x8 connector)
- Slot 2 HL/FH x8 PCIe 3.0 (x16 connector)
- Slot 3 HL/FH x8 PCIe 3.0 (x8 connector)
- Slot 4 Low Profile x4 PCIe 2.0 (x8 connector)
- Additional Slots may be added via selections from the PCI Information and Options subsection

System Fans - 4 (one additional fan included with purchase of second processor) Drive Cage - 8-SFF (Optical media drive optional) USB - 4 Rear, 2 Front, 1 Internal, 1 SD slot HP iLO Management Engine (standard) **NOTE:** New options are available for Rack Rail Kits; these options are no longer standard on-board with this Model Part Number. Please see HP Rack Options below for optional required options.

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

HP Processors	NOTE: If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21 Entry Processors - E5-2400v2 series Processors NOTE: All support up to 1333MHz memory speeds.	
	HP DL380e Gen8 Intel® Xeon® E5-2407v2 (2.4GHz/4-core/10MB/80W) FIO Processor Kit	708497-L21
	HP DL380e Gen8 Intel® Xeon® E5-2403v2 (1.8GHz/4-core/10MB/80W) FIO Processor Kit	708495-L21
	Base Processors - E5-2400v2 series Processors NOTE: All support up to 1600MHz memory speeds.	
	HP DL380e Gen8 Intel® Xeon® E5-2430Lv2 (2.4GHz/6-core/15MB/60W) FIO Processor Kit	746521-L21
	HP DL380e Gen8 Intel® Xeon® E5-2430v2 (2.5GHz/6-core/15MB/80W) FIO Processor Kit	724569-L21
	HP DL380e Gen8 Intel® Xeon® E5-2420v2 (2.2GHz/6-core/15MB/80W) FIO Processor Kit	724567-L21
	HP DL380e Gen8 Intel® Xeon® E5-2440v2 (1.9GHz/8-core/20MB/95W) FIO Processor Kit	724571-L21
	Performance Processors - E5-2400v2 series Processors NOTE: All support up to 1600MHz memory speeds.	
	HP DL380e Gen8 Intel® Xeon® E5-2450v2 (2.5GHz/8-core/20MB/95W) FIO Processor Kit	724573-L21
	HP DL380e Gen8 Intel® Xeon® E5-2470v2 (2.4GHz/10-core/25MB/95W) FIO Processor Kit	724575-L21
	HP DL380e Gen8 Intel® Xeon® E5-2450Lv2 (1.7GHz/10-core/25MB/60W) FIO Processor Kit	746523-L21
	Entry Processors - E5-2400 series Processors NOTE: All support up to 1066MHz memory speeds.	
	HP DL380e Gen8 Intel® Xeon® E5-2407 (2.2GHz/4-core/10MB/80W) FIO Processor Kit	661132-L21
	HP DL380e Gen8 Intel® Xeon® E5-2403 (1.8GHz/4-core/10MB/80W) FIO Processor Kit	661134-L21
	Base Processors - E5-2400 series Processors	



	NOTE: All support up to1333MHz DDR3 memory speeds.	
	HP DL380e Gen8 Intel® Xeon® E5-2440 (2.4GHz/6-core/15MB/95W) FIO Processor Kit	661124-L21
	HP DL380e Gen8 Intel® Xeon® E5-2430 (2.2GHz/6-core/15MB/95W) FIO Processor Kit	661126-L21
	HP DL380e Gen8 Intel® Xeon® E5-2430L (2.0GHz/6-core/15MB/60W) FIO Processor Kit	661138-L21
	HP DL380e Gen8 Intel® Xeon® E5-2420 (1.9GHz/6-core/15MB/95W) FIO Processor Kit	661128-L21
	Performance Processors - E5-2400 series Processors NOTE: All support up to 1600MHz DDR3 memory speeds	
	HP DL380e Gen8 Intel® Xeon® E5-2470 (2.3GHz/8-core/20MB/95W) FIO Processor Kit	661118-L21
	HP DL380e Gen8 Intel® Xeon® E5-2450 (2.1GHz/8-core/20MB/95W) FIO Processor Kit	661120-L21
	HP DL380e Gen8 Intel® Xeon® E5-2450L (1.8GHz/8-core/20MB/70W) FIO Processor Kit	661136-L21
HP Memory	NOTE: To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at:	
	http://h18000.www1.hp.com/products/quickspecs/14225_na/14225_na.html NOTE: HP memory from previous generation servers are not fully compatible with Smart Memory features in Gen8 Servers.	
	Registered DIMMs (RDIMMs)	
	NOTE: The following memory is supported by the E5-2400v2 series Processors	
	HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713981-B21
	HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	731765-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713983-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713985-B21
	NOTE: The following memory is supported by the E5-2400 series Processors	
	HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647893-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
	HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
	Unbuffered with ECC DIMMs (UDIMMs)	



	NOTE: The following memory is supported by the E5-2400v2 series Processors	
	HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713975-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713977-B21
	HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713979-B21
	NOTE: The following memory is supported by the E5-2400 series Processors	
	HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669320-B21
	HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647905-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669322-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647907-B21
	HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669324-B21
	HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647909-B21
	Load Reduced DIMMs (LRDIMMs)	
	NOTE: The following memory is supported by E5-2400v2 or E5-2400 series Processors	
	HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
	NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. NOTE: PC3L is a low voltage memory.	
	NOTE: Depending on the memory configuration and processor model, 1600MHz and 1333MHz memory may operate at a lower speed. Please see the see the "Memory" section later in this document and the Online Memory Configuration Tool for details at www.hp.com/go/ddr3memory-configurator.	
HP Power Supplies	NOTE: Mixing of power supplies in the same server is not supported. All power supplies inside a server must be exactly the same model. Mixing Gold, Platinum, and Platinum Plus certified power supplies is not supported. NOTE: Prior to making a power supply selection it is highly recommended that the HP	
	Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.	
	HP Common Slot Titanium Power Supply Kits	
	NOTE: The following Power Supplies offer up to 96% Efficiency support for Intelligent Power Discovery.	
	HP 750W Common Slot Titanium Hot Plug Power Supply Kit	697581-B21
	HP Common Slot Platinum Plus Power Supply Kits NOTE: The following Power Supplies offer up to 94% Efficiency support for Intelligent Power Discovery.	
	HP 460W Common Slot Platinum Plus Hot Plug Power Supply Kit	656362-B21
	HP 750W Common Slot Platinum Plus Hot Plug Power Supply Kit	656363-B21
	HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit	656364-B21
	HP Common Slot Gold Power Supplies	



HP Converged	HP OneView with iLO Advanced - Server hardware required on same purchase order	
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License	C6N36ABE
HP Insight Software	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A
	HP 2U FIO Friction Rail Kit NOTE: Kit contains non-telescoping friction rails which do not allow for in-rack serviceability. The HP Gen8 Cable Management Arm is not available when using Friction Rails.	663476-B21
	NOTE: The HP 2U Gen8 Cable Management Arm is not available when using Friction Rails. To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative (p/n 695539-001). Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.	
Step 3: Choose A HP Rack Kits	dditional Factory Integratable Options NOTE: Gen8 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 Gen8 server.	
	NOTE: Cannot be selected if 661402-B21 is selected.	
	NOTE: Includes HP Dynamic Smart Array B320i controller NOTE: SAS license key (PN BC393A) is selected by default when this riser kit is selected. If SAS support is not needed, SAS license key (PN BC393A) can be deselected. SAS license key is mandatory for SAS support. Supports up to 8 drives. HP DL380e Gen8 CPU1 Riser Kit	661404-B21
Options	NOTE: If selected with HP DL380e Gen8 8LFF CTO Chassis, HP DL380eGen8 8LFF Mini SAS FIO Kit is required. This option can only be selected for HP DL380e Gen8 8LFF CTO Chassis, HP DL380e Gen8 8SFF CTO Chassis, or HP DL380e Gen8 12LFF 1:1 CTO Chassis.	
HP I/O Expansion	HP DL380e Gen8 CPU1 with SAS Support FIO Riser Kit	661402-B21
	NOTE: HP ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For a full list of optional HP power cords please go to www.hp.com/products/powercords	
	NOTE: Option Kits for AC power supplies include the power supply and one PDU IEC cable.	
	NOTE: The HP 750W Common Slot -48VDC power supply does not ship with a power cable. It has been designed with a terminal block connection allowing for custom design of power cords by the user.	
	HP 750W Common Slot -48VDC Hot Plug Power Supply Kit	636673-B21
	HP Common Slot -48VDC Power Supplies NOTE: The following Power Supplies offer 92% Efficiency.	
	HP 750W Common Slot Gold Hot Plug Power Supply Kit	512327-B21
	NOTE: The following Power Supplies offer 92% Efficiency. HP 460W Common Slot Gold Hot Plug Power Supply Kit	503296-B21
	NATE: The following Dower Supplies offer 92% Efficiency	



Step 4: Choose Additional Options for Factory Integration

NOTE: For additional options, please refer to the "Core Options and Additional Options" section below.



Core Options

NOTE: Upgrades a non-redundant server with additional hot-plug fans.HP DL380e Gen8 8 Small Form Factor (SFF) Hard Drive Cage Kit668295-82NOTE: With upgrade of 8SFF Cage, there is no Optical Drive support and an additional storage controller is required for 1:1 CTO Server.661404-82HP DL380e Gen8 CPU1 Riser Kit661628-82HP DL380e Gen8 x16 PCI-E Riser Kit661628-82HP Graphic Card Power Adapter Kit663282-82NOTE: The adapter kit is used to provide power to high-wattage cards (example: graphics cards) that require up to 225W of power.663282-82NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled by the second processor. p/n 661628-b21 is required.66128-b21	NOTE: Some options may	not be integrated at the factory. Contact your local sales representative for additional info	ormation.		
HP DL380e Gen8 8 Small Form Factor (SFF) Hard Drive Cage Kit668295-82NOTE: With upgrade of 8SFF Cage, there is no Optical Drive support and an additional storage controller is required for 1:1 CTO Server.661404-82HP DL380e Gen8 CPU1 Riser Kit661404-82HP DL380e Gen8 x16 PCI-E Riser Kit661628-82HP Graphic Card Power Adapter Kit663282-82NOTE: The adapter kit is used to provide power to high-wattage cards (example: graphics cards) that require up to 225W of power.663282-82NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled by the second processor. p/n 661628-b21 is required.66128-b21	HP Unique Options	HP DL380e Gen8 Hot Plug Fan Kit	667855-B21		
NOTE: With upgrade of 8SFF Cage, there is no Optical Drive support and an additional storage controller is required for 1:1 CTO Server.HP DL380e Gen8 CPU1 Riser Kit661404-B2HP DL380e Gen8 x16 PCI-E Riser Kit661628-B2HP Graphic Card Power Adapter Kit663282-B2NOTE: The adapter kit is used to provide power to high-wattage cards (example: graphics cards) that require up to 225W of power.663282-B2NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled by the second processor. p/n 661628-b21 is required.66128-b21		NOTE: Upgrades a non-redundant server with additional hot-plug fans.			
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HP DL380e Gen8 CPU1 Riser Kit661404-B2HP DL380e Gen8 x16 PCI-E Riser Kit661628-B2HP Graphic Card Power Adapter Kit663282-B2NOTE: The adapter kit is used to provide power to high-wattage cards (example: graphics cards) that require up to 225W of power.663282-B2NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled by the second processor. p/n 661628-b21 is required.661404-B2					
HP DL380e Gen8 x16 PCI-E Riser Kit661628-B2HP Graphic Card Power Adapter Kit663282-B2NOTE: The adapter kit is used to provide power to high-wattage cards663282-B2(example: graphics cards) that require up to 225W of power.663282-B2NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled661628-B2by the second processor. p/n 661628-b21 is required.661628-B2		5			
HP Graphic Card Power Adapter Kit663282-B2NOTE: The adapter kit is used to provide power to high-wattage cards663282-B2(example: graphics cards) that require up to 225W of power.663282-B2NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled663282-B2by the second processor. p/n 661628-b21 is required.663282-B2					
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(example: graphics cards) that require up to 225W of power. NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled by the second processor. p/n 661628-b21 is required.			663282-B21		
NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled by the second processor. p/n 661628-b21 is required.					
NOTE: Because of a single x16 FL/FH slot, we support only one of the below graphic cards at a time.		OTE: Because of a single x16 FL/FH slot, we support only one of the below graphic ards at a time.			
HP Processors Entry Processors - E5-2400v2 series Processors NOTE: All support up to 1333MHz memory speeds.	HP Processors	•			
HP DL380e Gen8 Intel [®] Xeon [®] E5-2407v2 (2.4GHz/4-core/10MB/80W) Processor Kit 708497-B2		HP DL380e Gen8 Intel® Xeon® E5-2407v2 (2.4GHz/4-core/10MB/80W) Processor Kit	708497-B21		
HP DL380e Gen8 Intel [®] Xeon [®] E5-2403v2 (1.8GHz/4-core/10MB/80W) Processor Kit 708495-B2		HP DL380e Gen8 Intel® Xeon® E5-2403v2 (1.8GHz/4-core/10MB/80W) Processor Kit	708495-B21		
Base Processors - E5-2400v2 series Processors NOTE: All support up to 1600MHz memory speeds.					
HP DL380e Gen8 Intel® Xeon® E5-2430Lv2 (2.4GHz/6-core/15MB/60W) Processor 746521-B2 ⁻ Kit			746521-B21		
HP DL380e Gen8 Intel [®] Xeon [®] E5-2430v2 (2.5GHz/6-core/15MB/80W) Processor Kit 724569-B2		HP DL380e Gen8 Intel® Xeon® E5-2430v2 (2.5GHz/6-core/15MB/80W) Processor Kit	724569-B21		
HP DL380e Gen8 Intel [®] Xeon [®] E5-2420v2 (2.2GHz/6-core/15MB/80W) Processor Kit 724567-B2		HP DL380e Gen8 Intel® Xeon® E5-2420v2 (2.2GHz/6-core/15MB/80W) Processor Kit	724567-B21		
HP DL380e Gen8 Intel [®] Xeon [®] E5-2440v2 (1.9GHz/8-core/20MB/95W) Processor Kit 724571-B2		HP DL380e Gen8 Intel® Xeon® E5-2440v2 (1.9GHz/8-core/20MB/95W) Processor Kit	724571-B21		
Performance Processors - E5-2400v2 series Processors NOTE: All support up to 1600MHz memory speeds.					
HP DL380e Gen8 Intel [®] Xeon [®] E5-2450v2 (2.5GHz/8-core/20MB/95W) Processor Kit 724573-B2		HP DL380e Gen8 Intel® Xeon® E5-2450v2 (2.5GHz/8-core/20MB/95W) Processor Kit	724573-B21		
HP DL380e Gen8 Intel® Xeon® E5-2470v2 (2.4GHz/10-core/25MB/95W) Processor 724575-B2 Kit			724575-B21		
HP DL380e Gen8 Intel® Xeon® E5-2450Lv2 (1.7GHz/10-core/25MB/60W) Processor 746523-B2 Kit			746523-B21		
Entry Processors - E5-2400 series Processors NOTE: All support up to 1066MHz memory speeds.		•			
HP DL380e Gen8 Intel [®] Xeon [®] E5-2407 (2.2GHz/4-core/10MB/80W) Processor Kit 661132-B2		HP DL380e Gen8 Intel® Xeon® E5-2407 (2.2GHz/4-core/10MB/80W) Processor Kit	661132-B21		
HP DL380e Gen8 Intel [®] Xeon [®] E5-2403 (1.8GHz/4-core/10MB/80W) Processor Kit 661134-B2		HP DL380e Gen8 Intel® Xeon® E5-2403 (1.8GHz/4-core/10MB/80W) Processor Kit	661134-B21		
Base Processors - E5-2400 series Processors		Base Processors - E5-2400 series Processors			
NOTE: All support up to1333MHz DDR3 memory speeds.		NOTE: All support up to1333MHz DDR3 memory speeds.			
HP DL380e Gen8 Intel® Xeon® E5-2440 (2.4GHz/6-core/15MB/95W) Processor Kit 661124-B2		HP DL380e Gen8 Intel® Xeon® E5-2440 (2.4GHz/6-core/15MB/95W) Processor Kit	661124-B21		
HP DL380e Gen8 Intel [®] Xeon [®] E5-2430 (2.2GHz/6-core/15MB/95W) Processor Kit 661126-B2		HP DL380e Gen8 Intel® Xeon® E5-2430 (2.2GHz/6-core/15MB/95W) Processor Kit	661126-B21		
HP DL380e Gen8 Intel [®] Xeon [®] E5-2430L (2.0GHz/6-core/15MB/60W) Processor Kit 661138-B2		HP DL380e Gen8 Intel® Xeon® E5-2430L (2.0GHz/6-core/15MB/60W) Processor Kit	661138-B21		
HP DL380e Gen8 Intel [®] Xeon [®] E5-2420 (1.9GHz/6-core/15MB/95W) Processor Kit 661128-B2		HP DL380e Gen8 Intel® Xeon® E5-2420 (1.9GHz/6-core/15MB/95W) Processor Kit	661128-B21		
Performance Processors - E5-2400 series Processors NOTE: All support up to 1600MHz DDR3 memory speeds.					
			661118-B21		



Core Options		
	HP DL380e Gen8 Intel® Xeon® E5-2450 (2.1GHz/8-core/20MB/95W) Processor Kit HP DL380e Gen8 Intel® Xeon® E5-2450L (1.8GHz/8-core/20MB/70W) Processor Kit NOTE: Up to 2 processors supported. 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: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed. NOTE: For the Intel® C600 Chipset E5-2400 and E5-2400 v2 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2400x v#, 2 = number of CPUs in a Node, 4 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# = version number.	661120-B21 661136-B21
HP Memory	NOTE: To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at:	
	http://h18000.www1.hp.com/products/quickspecs/14225_na/14225_na.html NOTE: HP memory from previous generation servers are not fully compatible with Smart Memory features in Gen8 Servers.	
	Registered DIMMs (RDIMMs)	
	NOTE: The following memory is supported by the E5-2400v2 series Processors	
	HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713981-B21
	HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	731765-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713983-B21
	HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit/S-Buy	647893-S21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713985-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-12800 (DDR3-1600) Reg CAS-11 Memory Kit/S- Buy	647895-S21
	NOTE: The following memory is supported by the E5-2400 series Processors	
	HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647893-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit/S-Buy	647897-S21
	HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
	HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit S-Buy	647899-S21
	HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low	647901-B21

Core Options

	HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21 759208-B21
HP Hard Drives	12G SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
	HP 12.7mm Slim SATA DVD-RW JackBlack Optical Drive	652235-B21
HP Optical Drives	HP 12.7mm Slim SATA DVD-ROM JackBlack Optical Drive	652232-B21
	configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. NOTE: PC3L is a low voltage memory.	
	HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory	647903-B21
	NOTE: The following memory is supported by E5-2400v2 or E5-2400 series Processors	
	Load Reduced DIMMs (LRDIMMs)	
	Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647909-B21
	HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory	669324-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit S-Buy	647907-S21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit/S-Buy	647907-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669322-B21
	HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit/S-Buy	647905-S21
	HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647905-B21
	HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669320-B21
	NOTE: The following memory is supported by the E5-2400 series Processors	
	Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713979-B21
	Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low	713977-B21
	HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low	713975-B21
	NOTE: The following memory is supported by the E5-2400v2 series Processors	
	HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit S-Buy Unbuffered with ECC DIMMs (UDIMMs)	672631-S21
	HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit/S-Buy	647901-S21
	Voltage Memory Kit	



HP ProLiant DL380e Generation 8 (Gen8)

QuickSpecs

Core Options

6G SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives

6G SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives	
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652589-S21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652583-S21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652564-S21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652611-S21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652605-S21
6G SAS Hot Plug SmartDrive LFF (3.5-inch) Enterprise Drives	
HP 600GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652620-B21
HP 450GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652615-B21
6G SAS Hot Plug SmartDrive SFF (2.5-inch) Midline Drives	
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
12G SAS Hot Plug SmartDrive LFF (3.5-inch) Converter Enterprise 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
6G SAS Hot Plug SmartDrive LFF (3.5-inch) Enterprise Drives	
HP 600GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652620-B21
HP 450GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652615-B21
6G SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-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
12G SAS Hot Plug VE SFF (2.5-inch) SC EV SSD	
	762263-B21
-	/02205 821
HP 1.6TB 12G SAS VE 2.5in SC EV SSD	
HP 1.6TB 12G SAS VE 2.5in SC EV SSD HP 800GB 12G SAS VE 2.5in SC EV SSD 12G SAS Hot Plug VE SFF (2.5-inch) SCC EV SSD	
HP 1.6TB 12G SAS VE 2.5in SC EV SSD HP 800GB 12G SAS VE 2.5in SC EV SSD	762261-B21
HP 1.6TB 12G SAS VE 2.5in SC EV SSD HP 800GB 12G SAS VE 2.5in SC EV SSD 12G SAS Hot Plug VE SFF (2.5-inch) SCC EV SSD	762261-B21 762272-B21 762270-B21



information:	
http://h18000.www1.hp.com/products/quickspecs/12244_na/12244_na.html	
6G SATA Hot Plug with SmartDrive SFF (2.5-inch) Midline (MDL) Drives	
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
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive/S-Buy	655708-S21
6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline (MDL) Drives	_
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-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 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive/S-Buy	657750-S21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Wty Hard Drive/S-Buy	658071-S21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/13021_na/13021_na.html	
12G SAS Hot Plug Value Endurance SFF (2.5-inch) Enterprise Value Solid State	
Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
12G SAS Hot Plug Value Endurance 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
12G SAS High Endurance Hot Plug SFF (2.5-inch) Enterprise Performance Solid	
State Drives	
HP 800GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive NOTE: This drive supports Gen8 servers only.	741159-B21
HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty	741155-B21
Solid State Drive	
NOTE: This drive supports Gen8 servers only.	
HP 200GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty	741151-B21
Solid State Drive	
NOTE: This drive supports Gen8 servers only.	
12G SAS Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr	741146-B21
Wty Solid State Drive	741140-021
NOTE: This drive supports Gen8 servers only.	
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr	741142-B21
Wty Solid State Drive	
NOTE: This drive supports Gen8 servers only.	
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr	741138-B21





Wty Solid State Drive NOTE: This drive supports Gen8 servers only.	
6G SAS Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690827-B21
GG SATA Value Endurance 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 Value Endurance 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 Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717973-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-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 Value Endurance Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	739900-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718183-B21
HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	739890-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718177-B21
6G SATA ME 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 3yr Wty Solid State Drive	691864-B21



	3 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr I State Drive	691862-B21
6G SATA	ME Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
	3 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr I State Drive	691860-B21
	3 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr I State Drive	691856-B21
	3 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr I State Drive	691854-B21
	3 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr I State Drive	691852-B21
6G SAS M	E Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
	3 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr I State Drive	690827-B21
informati		
http://h1	8000.www1.hp.com/products/quickspecs/14038_na/14038_na.html	
maximun	ove mentioned drives are 12G, but due to backplane speed limitation n data transmission speed is 6G/s.	
12G SAS	Hot Plug LFF (2.5-inches) Enterprise Solid State Drives	
	3 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr I State Drive	741138-B21
	3 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr I State Drive	741142-B21
	3 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr I State Drive	741146-B21
HP 200GI Solid Sta	B 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty te Drive	741151-B21
HP 400GI Solid Sta	B 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty te Drive	741155-B21
HP 800GI Solid Sta	B 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty te Drive	741159-B21
	l Factory Integrated Models will be populated with sufficient hard drive ased on the number of initial hard drives ordered with the server	
Hard Driv		
blanks ba	l Factory Integrated Models will be populated with sufficient hard drive ased on the number of initial hard drives ordered with the server.	
HP Large	Form Factor Hard Drive Blank Kit	666986-B21
	Form Factor Hard Drive Blank Kit	666987-B21
	n8 2 LFF Rear Kit pports 2 hot plug drives in the back of server and the kit includes multiple	663278-B21
cable opt	ions which allow connections between rear, front backplanes and also rear backplane, motherboard.	
HP 2U Ge	n8 2 SFF Rear Kit	663280-B21
cable opt	pports 2 hot plug drives in the back of server and the kit includes multiple ions which allow connections between rear, front backplanes and also	
	rear backplane, motherboard. De Gene & Small Form Factor (SEE) Hard Drive Cage Kit	66000F D-1
NOTE: Pr	De Gen8 8 Small Form Factor (SFF) Hard Drive Cage Kit ovides support for an additional 8 SFF drives. Requires a separate r. HP recommends the Smart Array P420 controller with 1Gb of FBWC.	668295-B21



Core Options		
	 NOTE: The HP ProLiant DL380e Gen8 Smart Storage solutions are equipped with entirely re-designed Small Form Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HP Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove". NOTE: 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. NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details. 	
HP Networking	Gigabit Ethernet adapters	
-	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
	HP NC365T 4-port Ethernet Server Adapter	593722-B21
	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
	10 Gigabit Ethernet Adapters	
	HP NC523SFP 10Gb 2-port Server Adapter	593717-B21
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and	
	cables for fiber-optic environments must be purchased separately.	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs	
HP InfiniBand	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA	583211-B21
	HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA	592520-B21
	HP Infiniband FDR/Ethernet 10Gb/40Gb 2-port 544QSFP Adapter	649281-B21
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_na/13078_na.html	
HP I/O Expansion Option	 S HP DL380e Gen8 CPU1 Riser Kit NOTE: This kit provides three slots that run off of first processor. 	661404-B21
	HP DL380e Gen8 x16 PCI-E Riser Kit NOTE: This kit provides two additional slots that run off of second processor.	661628-B21
HP Power Supplies	NOTE: Mixing of power supplies in the same server is not supported. All power supplies inside a server must be exactly the same model. Mixing Gold, Platinum, and Platinum Plus certified power supplies is not supported. NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.	
	HP Common Slot Titanium Power Supply Kits	



	HP 750W Common Slot Titanium Hot Plug Power Supply Kit NOTE: The above Power Supplies offer 96% Efficiency with support for Intelligent Power Discovery.*	697581-B21
	HP Common Slot Platinum Plus Power Supply Kits	_
	HP 460W Common Slot Platinum Plus Hot Plug Power Supply Kit	656362-B21
	HP 750W Common Slot Platinum Plus Hot Plug Power Supply Kit	656363-B21
	HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit	656364-B21
	NOTE: The following Power Supplies offer 94% Efficiency with support for Intelligent Power Discovery.	
	HP Common Slot Gold Power Supplies	
	HP 460W Common Slot Gold Hot Plug Power Supply Kit	503296-B21
	HP 750W Common Slot Gold Hot Plug Power Supply Kit	512327-B21
	HP Common Slot -48VDC Power Supplies	
	HP 750W Common Slot -48VDC Hot Plug Power Supply Kit NOTE: The HP 750W Common Slot -48VDC power supply does not ship with a power cable. It has been designed with a terminal block connection allowing for custom design of power cords by the user.	636673-B21
	 NOTE: Option Kits contain optional power supply, an IEC power cable and PDU IEC cables. NOTE: HP ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For a full list of optional HP power cords please go to www.hp.com/products/powercords NOTE: Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_na/14209_na.html 	
HP Graphic Options	HP Graphic Card Power Adapter Kit NOTE: The adapter kit is used to provide power to high-wattage cards (example: graphics cards) that require up to 225W of power. NOTE: High wattage cards are supported on the x16 FL/FH slot which is controlled by the second processor. p/n 661628-b21 is required. NOTE: Because of a single x16 FL/FH slot, we support only one of the below graphic cards at a time.	663282-B21
	NVIDIA Quadro K4000 PCI-E Graphics Adapter	730870-B21
	NOTE: Only the following OS types are supported: 64-bit Only: Red Hat Enterprise Linux 5.x, Red Hat Enterprise Linux 6.x, SUSE Linux Enterprise Server 11 SPx. 64-bit Only: Windows Server 2008 R2 SPx.	
HP Cooling Options	HP DL380e Gen8 Hot Plug Fan Kit NOTE: This kit contains a single fan and is used to upgrade non-redundant configurations to redundant configurations.	667855-B21



Additional Options

HP Insight Software HP Insight Control

	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server	C6N27A
	License	
	HP Insight Control Environment No Media 1 Server incl 1 year 24x7 Supp License/S- Buy	C6N27S
	HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28ABE
	HP Insight w/Microsoft System Center Essentials 2010 ROK w/1yr Physical 1 Server SW	C6N28ASE
	HP Insight Control Server Provisioning Media Kit	BD883A
	HP Insight Management Media Kit	C6N31A
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. NOTE: Customer will receive a license entitlement certificate. The license	
	entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.	
	NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.	
	NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_na/12631_na.html	
	HP Integrated Lights-Out (iLO) Advanced for ProLiant	
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
	HP 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 Essentials	
	HP Integrated Lights-Out Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE
	HP Integrated Lights-Out Essentials including 1yr 24x7 Technical Support and Updates E-LTU	E6U62ABE
	HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates Single Svr License	BD774A
	HP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and Updates Single Svr License	BD775A
	NOTE: For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_na/14276_na.html	
	NOTE: For more information, visit: http://www.hp.com/go/ilo.	
HP Converged	HP OneView	
Infrastructure Management Software	HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34A
manayement Juitwale	HP OneView Media Kit Phys No Lic	E5Y37A
	HP OneView w/o iLO Adv incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y38A
	HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y35AAE
	HP OneView w/o iLO Adv inc 3yr 24x7 Supp Flex Qty E-LTU	E5Y39AAE
High Performance	HP Insight Cluster Management Utility 1yr 24x7 Flexible License	QL803B



Additional Options

Clusters	HP Insight Cluster Management Utility 3yr 24x7 Flexible License	BD476A
	NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license	
	entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive	
	a support agreement.	
	HP Insight Cluster Management Utility Media	BD477A
	NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_na/12612_na.html	
HP I/O Accelerator	Second Generation Accelerators	
Options	HP 365GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673642-B21
	HP 785GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673644-B21
	HP 1205GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673646-B21
	HP 2410GB Multi Level Cell G2 PCIe ioDrive2 Duo for ProLiant Servers	673648-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information: http://h18000.www1.hp.com/products/quickspecs/13587_na/13587_na.html	
HP Security	HP 2U Security Bezel Kit	666988-B21
in Security	HP Trusted Platform Module Option	488069-B21
	NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can	400005 021
	securely store artifacts used to authenticate the server platform. These artifacts	
	can include passwords, certificates and encryption keys. Windows® BitLocker™	
	Drive Encryption (BitLocker) is a data protection feature available in Windows	
	Server [®] 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect	
	user data and to ensure that a server running Windows Server 2008 has not been	
	tampered with while the system was offline. For more information about TPM,	
	including a white paper, go to: www.hp.com/go/TPM.	
	NOTE: ProLiant OS pre-installed units will come with the partition required for TPM	
	deployment. NOTE: The TPM key is unique to every TPM deployed server and must be retained.	
	Misplacing or losing the key could result in data loss.	
HP Storage Controllers	SAS Controllers	
	Smart Array P222 Controller	
	HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller	631667-B21
	Smart Array P420 Controller	
	HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller	631670-B21
	HP Smart Array P420/2GB FBWC 6Gb 2-ports Int SAS Controller	631671-B21
	Smart Array P421 Controller	
	HP Smart Array P421/1GB FBWC 6Gb 2-ports Ext SAS Controller	631673-B21
	HP Smart Array P421/2GB FBWC 6Gb 2-ports Ext SAS Controller	631674-B21
	HP Smart Array P430 Controller	
	HP Smart Array P430/2GB FBWC 12Gb 1-port Int SAS Controller	698529-B21
	HP Smart Array P430/4GB FBWC 12Gb 1-port Int SAS Controller	698530-B21
	HP Smart Array P431 Controller	



Additional Options

HP Smart Array P431/2GB FBWC 12Gb 2-ports Ext SAS Controller	698531-B21
HP Smart Array P431/4GB FBWC 12Gb 2-ports Ext SAS Controller	698532-B21
Smart Array P822 Controller	
HP Smart Array P822/2GB FBWC 6Gb 2-ports-Int/4-ports Ext SAS Controller	615418-B21
HP Smart Array P830 Controller	
HP Smart Array P830/4GB FBWC 12Gb 2-ports Int SAS Controller	698533-B21
Optional Upgrades	
HP 2GB P-series Smart Array Flash Backed Write Cache	631681-B21
HP 512MB B-series 36 inch Dynamic Smart Array Flash Backed Write Cache for ML/DL NOTE: This kit includes a cable and cache module that is used in conjunction with the B320i controller.	631922-B21
HP SAS License Key No Media 1 Single Server License for B320	BC393A
HP DL380e Gen8 Smart Array Cable Kit	672250-B21
HP Gen8 2-port SATA Cable Kit	675856-B21
HP DL380e Gen8 Internal SAS 540mm Cable Kit	725601-B21
HP DL380e Gen8 Internal SAS 690mm Cable Kit	737671-B21
HP DL380e Gen8 Internal SAS 780mm Cable Kit	737673-B21
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
HP Secure Encryption No Media Flexible License per Drive	D8S84A
NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14227_na/14227_na.html (Smart Array P222 Controller) http://h18000.www1.hp.com/products/quickspecs/14228_na/14228_na.html (Smart Array P420 Controller) http://h18000.www1.hp.com/products/quickspecs/14229_na/14229_na.html (Smart Array P421 Controller) http://h18000.www1.hp.com/products/quickspecs/14341_na/14341_na.html (Smart Array P822 Controller) http://h18000.www1.hp.com/products/quickspecs/14343_na/14343_na.html (Smart Array P822 Controller)	
Host Bus Adapter	
HP H220 Host Bus Adapter	650933-B21
HP H221 PCIe 3.0 SAS Host Bus Adapter	729552-B21
HP H222 Host Bus Adapter	650926-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/quickspecs/14336_na/14336_na.html (HBA 220)	
http://h18004.www1.hp.com/products/quickspecs/14222_na/14222_na.html (HBA 221) http://h18004.www1.hp.com/products/quickspecs/14337_na/14337_na.html (HBA 222)	
SCSI HBA	
HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter	412911-B21
NOTE: Please see the following QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12566_na/12566_na.html	



Additional Options

(SC11Xe HBA)

HP Cable Options	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HP Power Cords	HP C13 - Nema 6-15P US 250V 15A JP 3.6m Power Cord	A0N33A
	HP C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A
	NOTE: HP ProLiant servers ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs).	
HP Tape Backup	NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of HP tape backup products see: http://www.hp.com/storage/SPOCK and www.hp.com/go/ebs. NOTE: For Internal drives to be connected to DL servers please make sure that you order rack mount kit as well.	
	HP StoreEver 1U USB Rack-mount Kit	A8007B
	HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A
	HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
	HP StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HP Disk Backup	HP RDX Removable Disk Backup System	
	HP RDX320 USB3.0 External Disk Backup System	B7B63A
	HP RDX500 USB3.0 Internal Disk Backup System	B7B64A
	HP RDX500 USB3.0 External Disk Backup System	B7B66A
	HP RDX1000 USB3.0 Internal Disk Backup System	B7B67A
	HP RDX1000 USB3.0 External Disk Backup System	B7B69A
	NOTE: Please see the QuickSpecs for additional part numbers, Technical Specifications, and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13036_na/13036_na.html	
	NOTE: For the complete range of RDX drives and media see:	
	http://www.hp.com/go/rdx. For hardware and software compatibility of HP disk backup products see: http://www.hp.com/storage/SPOCK.	
HP Storage Options	Storage Fibre Channel HBA NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows Server 2003 and Linux, please see: http://h18006.www1.hp.com/storage/saninfrastructure/hba.html Brocade Fibre Channel HBAs	
	HP 81B 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AP769B
	HP 82B 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AP770B
	Emulex Fibre Channel HBAs	
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
	HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A
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Additional Options

HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter QW971A HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter QW972A Converged Network Adapter BK835A HP CN1100E Dual Port Converged Network Adapter BK835A HP CN1000Q Dual Port Converged Network Adapter BK835A HP Uninterruptible HP Rack-mountable UPS HP Uninterruptible HP Rack-mountable UPS HP N 1500 G3 Uninterruptible Power Supply (UPS) AF465A NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14059_na/14059_na.html AF465A HP R/T3000 G2 UL520 High Voltage NA/JP Uninterruptible Power System AF466A HP R/T3000 G2 UL520 High Voltage NA/JP Uninterruptible Power System AF466A HP R/T3000 G2 UL520 High Voltage NA/JP Uninterruptible Power System AF466A NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14058_na/14058_na.html R5000 Uninterruptible Power System (UPS) HP R5KVA 3U L530 High Voltage NA/JP Uninterruptible Power System AF460A NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14109_na/14109_na.html R7000 Uninterruptible Power System (UPS) HP R5KVA 4U 50A High Voltage NA/JP Uninterruptible Power System		HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A
HP 810 86b 1-port PCIe Fibre Channel Host Bus Adapter AK344A HP 820 86b 2-port PCIE Fibre Channel Host Bus Adapter AJ764A HP StoreFabric SN10000 166B 1-port PCIE Fibre Channel Host Bus Adapter QW972A Converged Network Adapter BK835A HP CN1100E Dual Port Converged Network Adapter BK835A HP CN1100E Dual Port Converged Network Adapter BK835A HP CN1000E Dual Port Converged Network Adapter BK835A HP StoreFabric CN1100R Dual Port Converged Network Adapter QW990A HP Uninterruptible Port Porteged Network Adapter QW990A HP R1,5kVA G3 10 NA Uninterruptible Power System AF469A NOTE: Please see the QuicKSpecs for additional information: http://f18000.www1.hp.com/products/quickspecs/14059_na/14059_na.html AF467A HP R7X00 G2 2U L520 Ligb Voltage NA/JP Uninterruptible Power System AF467A NOTE: Please see the QuicKSpecs for additional information: http://f18000.www1.hp.com/products/quickspecs/14059_na/14058_na.html AF467A NOTE: Please see the QuicKSpecs for additional information: http://f18000.www1.hp.com/products/quickspecs/14059_na/14058_na.html AF467A NOTE: Please see the QuickSpecs for additional information: http://f18000.www1.hp.com/products/quickspecs/14058_na/14058_na.html AF467A NOTE: Please see the QuickSpecs for additional information: http://f18000.www1.hp.com/pr		•	
HP 82Q 86b 2-port PCIe Fibre Channel Host Bus Adapter AJ764A HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter QW971A HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter QW972A Converged Network Adapter BK835A HP CN1100E Dual Port Converged Network Adapter BK835A HP CN1000Q Dual Port Converged Network Adapter BK656A HP StoreFabric CN1100R Dual Port Converged Network Adapter QW970A HP StoreFabric CN1100R Dual Port Converged Network Adapter QW990A HP Uninterruptible HP Rack-mountable UPS HP Power Systems HP R15KVA G3 1U NA Uninterruptible Power Supply (UPS) HP R1.5KVA G3 1U NA Uninterruptible Power System AF469A NDTE: Please see the QuickSpecs for additional information: http://118000.wwwi.l.p.com/productS/quickspecs/14059_na/14059_na.html HP R713000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System AF466A HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System AF466A NDTE: Please see the QuickSpecs for additional information: http://118000.wwwi.hp.com/productS/quickspecs/14058_na.html R5000 Uninterruptible Power System (UPS) HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A NDTE: Please see the QuickSpecs for additional information: http://118000.wwwi.hp.com/productS/quickspecs/14109_na.html R7000 Uninterruptible Power System (UPS) HP R5KVA 3U L630 Hi			AK344A
HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter QW972A Converged Network Adapter BK835A HP CN1100E Dual Port Converged Network Adapter BK835A HP CN1000Q Dual Port Converged Network Adapter QW990A HP Uninterruptible Power Systems HP Rack-mountable UPS HP R1.5kVA G3 1U NA Uninterruptible Power Supply (UPS) AF469A HP R1.5kVA G3 1U NA Uninterruptible Power System AF469A NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14059_na.html AF469A HP R/T3000 G2 U L530 Low Voltage NA/JP Uninterruptible Power System AF466A HP R/T3000 G2 U L520 High Voltage NA/JP Uninterruptible Power System AF466A HP R/T3000 G2 U L530 Low Voltage NA/JP Uninterruptible Power System AF467A NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14058_na/14058_na.html R5000 Uninterruptible Power System (UPS) HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System AF460A NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14109_na/14109_na.html R7000 Uninterruptible Power System (UPS) HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power Cord Matrix (IIIII. That units. Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/prod		AJ764A	
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NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14058_na/14058_na.html R5000 Uninterruptible Power System (UPS) HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14109_na.html R7000 Uninterruptible Power System (UPS) HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System AF462A NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14110_na/14110_na.html AF462A NOTE: Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords. HP Basic Power Distribution Units HP Basic Power Distribution Unit: 1U/OU Version HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU H5M54A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU H5M55A HP 3.6kVA 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 H5M55A HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU H5M55A HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU H5M55A HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU H5M55A HP 3.6kVA 200-240 Volt Detachable C20 Input (1		HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
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HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power SystemAF460ANOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14109_na/14109_na.htmlAF462AR7000 Uninterruptible Power System (UPS)HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power SystemAF462ANOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14110_na/14110_na.htmlAF462ANOTE: Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.HPHP Basic Power Distribution Unit: 1U/OU Version HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDUH5M54A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDUH5M55A HP 3.6kVA 200-240 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDUH5M55A HP 3.6kVA 200-240 Volt L6-30 Input (18xNEMA 5-20R) NA/JP Basic PDUH5M55A H5M55AHP 3.6kVA 200-240 Volt L6-30 Input (12xNEMA 5-20R) NA/JP Basic PDUH5M55A H5M55A H9 3.6kVA 200-240 Volt L6-30 Input (18xNEMA 5-20R) NA/JP Basic PDUH5M55A H5M55A			
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HP 1.9kVA 120 Volt E3-20 input (12XREMA 3-20k) NA/JF Basic PD0H3M34AHP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDUH5M56AHP Basic Power Distribution Unit: Half Height VersionH9 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDUH5M55AHP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDUH5M57AHP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDUH5M58A		HP Basic Power Distribution Unit: 1U/OU Version	
HP Basic Power Distribution Unit: Half Height VersionHP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDUH5M55AHP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDUH5M57AHP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDUH5M58A	Distribution Units	HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5M54A
HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDUH5M55AHP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDUH5M57AHP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDUH5M58A		HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56A
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 Basic Power Distribution Unit: Half Height Version	
HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU H5M58A		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 7 3kV/A 230 Volt IFC309 324 Innut (20vC13) INTL Racic DDLL UEMERA		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 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M61A
HP Basic Power Distribution Unit: Mid Height Version		HP Basic Power Distribution Unit: Mid Height Version	
HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU H5M59A		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 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70A



Additional Options

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 H5M64A **Basic PDU** 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 Basic Power Distribution Unit: Full Height Version** 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 Basic Power Distribution Unit: 480/277 Volt Version HP 13.2kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU H3X07A HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU H3X08A HP 277 Volt options for H3X07A and H3X08A HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer H3X09A NOTE: Additional HP Power Distribution Units are available. For a complete list of all HP PDUs and additional information please visit www.hp.com/go/rackandpower. **NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14557_na/14557_na.html **HP Remote Monitored** HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU D9N43A **Power Distribution Units** HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N44A (mPDU) HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU D9N45A HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU D9N46A HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU D9N47A HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU D9N49A 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 Monitored D9N52A PDU HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP D9N53A Monitored PDU HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored D9N54A PDU HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU D9N58A HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored D9N59A PDU HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU D9N61A HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU D9N62A HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU D9N63A **HP Environmental Sensor for Remote Monitored PDUs** HP Environmental Sensor for Remote Monitored PDUs E2D53A **NOTE:** Please see the QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/14669_na/14669_na.html



Additional Options

HP Intelligent Power	iPDU Core Units			
Distribution Units (iPDU)	HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF520A		
	HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF522A		
	iPDU Extension Bars			
	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 QuickSpecs for Technical Specifications and additional			
	information:			
	http://h18000.www1.hp.com/products/quickspecs/13650_na/13650_na.html			
HP Managed Power	Half Height Models			
Distribution Units	HP 3.6kVA 200-240 Volt Detachable C20 Input (7xC13/1xC19) WW Managed PDU	H8B49A		
(maPDU)	Full Height Models			
	HP 2.8kVA 120 Volt L5-30 Input (24x NEMA 5-20) NA/JP Managed PDU	H8B48A		
	HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Managed PDU	H8B50A		
	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 Managed PDU	H8B53A		
	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 PDU	H8B56A		
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:			
	http://www8.hp.com/h20195/v2/GetHtml.aspx?docname=c04376673			
HP Rack Series	HP Intelligent Series Rack			
	HP 636 1075mm Pallet Intelligent Series Rack	BW895A		
	HP 636 1075mm Shock Intelligent Series Rack	BW896A		
	HP 642 1075mm Pallet Intelligent Series Rack	BW090A BW903A		
	HP 642 1075mm Shock Intelligent Series Rack	BW903A BW904A		
	HP 647 1075mm Pallet Intelligent Series Rack	BW904A BW911A		
	HP 647 1075mm Shock Intelligent Series Rack	BW912A		
	NOTE: Please see the QuickSpecs for Technical Specifications such as height, width,	DWJIZA		
	depth, weight, and color:			
	http://h18000.www1.hp.com/products/quickspecs/14223_na/14223_na.html			
	NOTE: For additional information regarding Rack Cabinets, please see the following			
	URL: http://www.hp.com/go/rackandpower.			
HP Rack Options	HP Location Discovery Services			
	HP 36U Location Discovery Kit	BW945A		
	HP 42U Location Discovery Kit	BW946A		
	HP 47U Location Discovery Kit	BW947A		
	NOTE: Please see the QuickSpecs for Technical Specifications and additional			
	information: http://h18000.www1.hp.com/products/quickspecs/14429_na/14429_na.html			
	HP USB Keyboard and Mouse			
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21		
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	051541-021		
	information:			



Additional Options

http://h18000.www1.hp.com/products/quickspecs/13972_na/13972_na.html	
HP TFT7600 G2 KVM Console Rackmount Keyboard Monitor	
HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor	AZ870A
HP TFT7600 G2 KVM Console Rackmount Keyboard US TAA Monitor	AZ885A
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13731_na/13731_na.html	
HP Server Console Switches	
HP Server Console 0x2x8 Port Analog Switch	AF616A
HP Server Console 0x2x16 Port Analog Switch	AF617A
HP TAA 0x2x16xKVM Server Console G2 Switch	AF626A
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/11834_na/11834_na.html	
HP Server Console Switch G2 with Virtual Media & CAC	
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 CAT5 1-pack USB Interface Adapter	336047-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/13475_na/13475_na.html	
HP IP Console Switch G2 with Virtual Media & CAC	
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: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13474_na/13474_na.html	
Rail Kits	
HP 2U Large Form Factor Ball Bearing Gen8 Rail Kit with CMA	663480-B21
HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA	663478-B21
HP Rack Cable Management Velcro Clips	379820-B21
NOTE: Gen8 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 Gen8 server.	
NOTE: Rail kits are optional for DL380p Gen8 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit.	
NOTE: Ball bearing rail kits contain telescoping rails which allow for in-rack	
serviceability.	
NOTE: The HP 2U Gen8 Cable Management Arm is not available when using Friction	
Rails. NOTE: To assist in the installation of the server into the rack an optional installation	
tool is available by contacting your local services representative (p/n 695539-001).	
Caution: HP recommends that a minimum of two people are required for all Rack	
Server installations. Please refer to your installation instructions for proper tools	
and number of people to use for any installation.	

HP USB and SD Options HP Flash Media Kits for USB Drives



Additional Options		
	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HP Enterprise Mainstream Flash Media Kits for Memory Cards	
	HP 8GB SD Enterprise Mainstream Flash Media Kit	726113-B21
	HP 32GB SD Enterprise Mainstream Flash Media Kit	700136-B21
HP Care Pack Services	Proactive Care	
	HP 3 year 4 hour 24x7 ProLiant DL380e Proactive Care Service	U6E33E
	HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL380e Proactive Care Service	U6E34E
	HP 3 year 4 hour 24x7 ProLiant DL380e with Insight Control Proactive Care Service	U6G61E
	HP 3 year 4 hour 24x7 w/Defective Media Retention DL380e with Insight Control Proactive Care Service	U6G62E
	NOTE: Collaborative Support plus Proactive services delivered by the onshore, local language Advanced Solution Center (ASC), end-to-end case ownership from a Technical Solution Specialists and Technical Account Manager who remotely delivers firmware/software revision management, proactive scans and incident trend reports. Recommended for customers running a virtualized infrastructure and/or customers who desire an enhanced call support experience	
	NOTE: Hardware break/fix plus 24x7 software diagnosis support with collaborative call management for a broad spectrum of 3rd Party software products including O/S and hypervisors. Recommended for customers procuring 3rd party SW O/S and hypervisors from the software vendors directly and deploying them on HP ProLiant servers.	
	Installation Services	
	HP Installation ProLiant DL180/DL380e Service	U6E81E
	HP Startup ProLiant DL180/DL380e Service	U6E83E
	NOTE: For more information, customer/resellers can contact: http://www.hp.com/services/carepack	
	NOTE: Reduce the time required to get your system up and running and help	

minimize disruptions to your business.

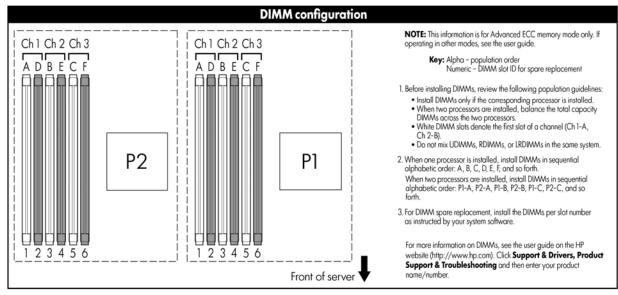


Memory

For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator

Memory Subsystem Architecture

Each Intel[®] Xeon[®] E5-2400v2 and E5-2400 family processor socket contains three memory channels per installed processor with two DIMMs per channel for a total of six (6) DIMMs or a grand total of twelve (12) DIMMs for the server. Up to 32GB capacity DIMMs are supported for 384GB of memory (12 DIMM slots x 32GB per DIMM).



Memory population guidelines

General Memory Population Rules and Guidelines:

- White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- 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.
- 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
- RDIMMs operating at either 1.35V or 1.5V may be mixed in any order, but the system will power them at the higher voltage.
- Do not mix RDIMMs, LRDIMMs, and UDIMMs.
- DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the memory type and number of installed processors.
- HP memory from previous generation servers is not qualified on the DL380e Gen8 Server. Certain HP SmartMemory features such as memory authentication and enhanced performance may not be supported.
- To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at:
- http://h18000.www1.hp.com/products/quickspecs/14225_na/14225_na.html
- For memory population rules and additional memory guidelines, please see the DL380e Gen8 user guide at http://www.hp.com/support.
- There are three(3) Memory channels per processor; six(6) channels for 2 processors server.



Memory

• There are two(2) DIMM slots for each memory channel; twelve(12) total slots for 2 processors server.

Intel Gen8 Supported Memory Bandwidth for HP ProLiant Gen8 Intel® Xeon®E5-2400v2 Series Processor Family

Memory Bandwidth	and Capacity							
DIMM Туре		-	ered DIMMS DIMMs)		Unbuffered with ECC DIMMs (UDIMMs)			
DIMM Rank	Single Rank	Dual Rank	Single Rank	Dual Rank	Single Rank	Dual Rank	Dual Rank	
DIMM Capacity	4GB	8GB	8GB	16GB	2GB	4GB	8GB	
DIMM Native Speed (MT/s)	1600	1600	1600	1600	1600	1600	1600	
Voltage	LV	LV	Std	LV	LV	LV	LV	
SLOTS THAT CAN BE	12	12	12	12	12	12	12	
MAXIMUM CAPACITY	(CP)*							
	48	96	96	192	24	48	96	
1 DIMM Per Channel	1600	1600	1600	1600	1600	1600	1600	
2 DIMM Per Channel	1600	1600	1600	1600	1600	1600	1600	
3 DIMM Per Channel	800	800	800	800	n/a	n/a	n/a	

Intel Gen8 Supported Memory Bandwidth for HP ProLiant Gen8 Intel® Xeon®E5-2400 Series Processor Family

Memory E	Bandwidt	th and Cap	pacity											
DIMM Type	Registered DIMMS (RDIMMs)							Load Reduced (LRDIMMs)	Unbuffered with ECC DIMMs (UDIMMs)					MMs)
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Single Rank	Dual Rank	Dual Rank	Quad Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank
DIMM Capacity	4GB	4GB	8GB	8GB	8GB	16GB	16GB	32GB	2GB	2GB	4GB	4GB	8GB	8GB
DIMM Native Speed (MT/s)	1333	1600	1333	1600	1600	1333	1600	1333	1333	1600	1333	1600	1600	1333
Voltage	LV	Std	LV	Std	Std	LV	Std	LV	LV	Std	LV	Std	Std	LV
SLOTS TH 12 slot servers	AT CAN E 12	BE POPUL 12	ATED 12	12	12	12	12	12	12	12	12	12	12	12
MAXIMUM	1 CAPACI	TY (GB)*												
	48	48	96	96	96	192	192	384	24	24	48	48	96	96
1 DIMM Per Channel	1333	1600	1333	1600	1600	1333	1600	1333****	1333	1600	1333	1600	1600	1333
2 DIMM Per	1333	1600	1333	1600	1600	1333	1600	1333****	1333***	1600	1333***	1600	1600	1333***



Memory

Channel														
3 DIMM	1066**	1333***#	1066**	1333**#	1333**#	1066**	1333**#	1066	n/a	n/a	n/a	n/a	n/a	n/a
Per														
Channel														

Maximum capacity will vary based on individual server platform qualification schedule

** For HP SmartMemory, RDIMM support 3DPC@ DDR3-1066 at 1.35V. Third party memory may only support up to 3DPC@DDR3-1066 at 1.5V.

****LRDIMM enables 2 DIMMs per channel. HP SmartMemory supports up to 2DPC@1333 at 1.35V. Third party memory may only support up to 2DPC@1066 at 1.5V.

*** For UDIMMs, HP SmartMemory supports 2DPC@1333 at 1.35V. Third party memory may only support up to 2DPC@1066 at 1.5V.

RBSU setting required

DIMM slot and configuration diagrams Basic memory slot & population diagram

• Population order; looking from the front of your server CPU#1 is on right side and CPU#2 is on the left. See the population order by alphabetic and numeric progression below

	CPU # 1	IS PROCESSO	R ON RIGHT	- LOOKING FRO	M FRONT OF	SERVER	
		CPU 1			CPU 2		
	Slot #	populati	on order	Slot #	populat	ion order	
Chnl 1	1	Α	1	1	А	1	CPU 1
	2	D	4	2	D	4	
		CPU 1			CPU 2		
	Slot #	populati	on order	Slot #	populat	ion order	
Chnl 2	3	В	2	3	В	2	CPU 2
	4	E	5	4	E	5	
		CPU 1			CPU 2		
	Slot #	populati	on order	Slot #	populat	ion order	
Chnl 3	5	С	3	5	C	3	CPU 3
	6	F	6	6	F	6	

Memory Speed by Processor Model

Processor Models	Supported Memory Speeds
E5-2470, E5-2450,	1600/1333/1066MHz
E5-2440, E5-2430, E5-2420, E5-2450L,	1333/1066MHz
E5-2407, E5-2403, E5-2430L,	1066MHz
E5-2430v2, E5-2430Lv2, E5-2420v2, E5-2440v2, E5-2450v2, E5-2470v2, E5-2450Lv2,	1600/1333/1066MHz
E5-2407v2, E5-2403v2,	1333/1066MHz

Standard and Maximum Memory Capacity (Pre-configured Models)

Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
E5-2403v2, E5-2403, E5-2403,	4GB (1x4GB)	180GB (11x16GB, 1x4GB)	384GB (12x32GB)
E5-2407v2, E5-2407v2,	8GB (1x8GB)	184GB (11x16GB, 1x8GB)	384GB (12x32GB)
E5-2407, E5-2407,	8GB (2x4GB)	168GB (10x16GB, 2x4GB)	384GB (12x32GB)



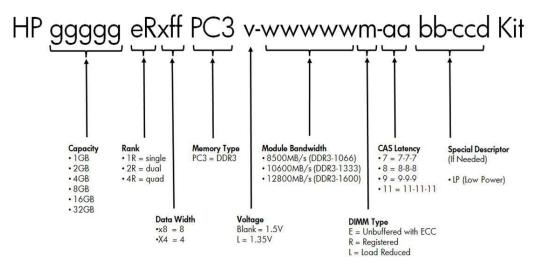
Memory

E5-2450,	24GB (6x4GB)	120GB (6x16GB, 6x4GB)	384GB (12x32GB)
E5-2420v2, E5-2420, E5- 2420v2, E5-2420,	12GB (3x4GB)	156GB (9x16GB, 3x4GB)	384GB (12x32GB)

DDR3 memory options part number decoder

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

- 1GB = 1024MB
- 2GB = 2048MB
- 4GB = 4096MB
- 8GB = 8192MB
- 16GB = 16384MB
- 32GB = 32768MB



HP Memory

NOTE: To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_na/14225_na.html	
NOTE: HP memory from previous generation servers are not fully compatible with the DL360e Gen8 Server.	
Registered DIMMs (RDIMMs)	
HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713981-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713983-B21
HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	731765-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713985-B21
NOTE: The above memory is supported by the E5-2400 v2 series Processors.	
HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647893-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21



HP ProLiant DL380e Generation 8 (Gen8)

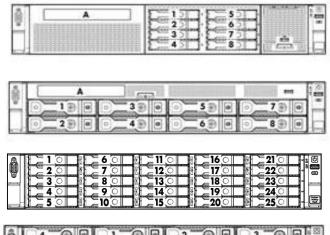
QuickSpecs

Memory

HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
NOTE: The above memory is supported by the E5-2400 series Processors.	
Unbuffered with ECC DIMMs (UDIMM)	
HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713975-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713977-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713979-B21
NOTE: The above memory is supported by the E5-2400 v2 series Processors.	
HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669320-B21
HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647905-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669322-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647907-B21
HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669324-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647909-B21
NOTE: The above memory is supported by the E5-2400 series Processors.	
Load Reduced DIMMs (LRDIMMs)	
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
NOTE: The above memory is supported by the E5-2400 v2 and E5-2400 series Processors.	
NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. NOTE: PC3L is a low voltage memory.	



Storage



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Maximum Storage Capacity - (with D2700)

Internal (25 SFF Drive Cage)	32.4TB (27 x 1.2TB SAS/SATA SFF with 25SFF drive cage + Rear 2SFF drive cage)
Internal (12 LFF Drive Cage)	56TB (14 x 4TB SAS/SATA LFF with 12LFF drive cage + Rear 2LFF drive cage)
External	240TB (200 x 1.2TB SAS SFF)
Total (25 SFF Drive)	272.4TB
Total (12 LFF Drive)	296TB

- A Optical Media Bay optional
- 1-8 8 x SFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays
- A Optical Media Bay optional
- 1-8 8 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays
- 1-25 25 x SFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays
- 1-4 12 x LFF (1:1) SATA/SAS/SDD Hot Pluggable Hard drive bays with point to point backplane



Technical Specifications

System Unit	Dimensions (with bezel)	SFF Drives: 3.44 x 17.54 x 27.5 in (8.75 x 44.55 x 69.85 cm) LFF Drives: 3.44 x 17.54 x 29.5 in (8.75 x 44.55 x 74.94 cm)		
	Weight	Maximum	71.20 lb (32.30 kg)	
	(approximate)	Minimum	30.80 lb (14.00 kg)	
	Input Requirements	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC	
		Rated Input Current	For 1200 W Power Supply: 10 A (at 100 VAC), 4.9 A (at 200 VAC) For 750 W Power Supply: 8.9 A (at 100 VAC), 4.3 A (at 200 VAC) For 460 W Power Supply: 5.5 A (at 100 VAC), 2.6 A (at 200 VAC)	
		Rated Input Frequency	50 to 60 Hz	
		Rated Input Power	For 1200 W Power Supply: 930 W (at 100 VAC), 1348 W (at 200 VAC) For 750 W Power Supply: 857 W (at 100 VAC), 824 W (at 200 VAC) For 460 W Power Supply: 526 W (at 100 VAC), 505 W (at 200 VAC)	
	BTU Rating	Maximum	For 1200 W Power Supply: 3530 BTU/hr (at 100 VAC), 4600 BTU/hr (at 200 VAC) For 750 W Power Supply: 2925 BTU/hr (at 100 VAC), 2812 BTU/hr (at 200 VAC) For 460 W Power Supply: 1794 BTU/hr (at 100 VAC), 1725 BTU/hr (at 200 VAC)	
	Power Supply Output (per power supply)	Rated Steady-State Power	For 1200 W Power Supply: 800 W (at 100 VAC), 900 W (at 120 VAC), 1200 W (at 200 to 240 VAC) For 750 W Power Supply: 750 W (at 100 to 120 VAC), 750 W (at 200 to 240 VAC) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)	
		Maximum Peak Power	For 1200 W Power Supply: 800 W (at 100 VAC), 900 W (at 120 VAC), 1200 W (at 200 to 240 VAC) For 750 W Power Supply: 750 W (at 100 to 120 VAC), 750 W (at 200 to 240 VAC) For 460 W Power Supply:	



Technical Specifications

				400 11/1 400 1 400 110	N
				460 W (at 100 to 120 VAC 460 W (at 200 to 240 VAC	
System Inlet Temperature		Operating		derating of 1.0°C per ever 1000 ft) above sea level t (10,000 ft), no direct sust of change is 10°C/hr (18°I limited by the type and no	ained sunlight. Maximum rate F/hr). The upper limit may be umber of options installed. / be reduced if operating with a
		Non-operat	ing	-30° to 60°C (-22° to 140° 20°C/hr (36°F/hr).	'F). Maximum rate of change is
	elative Humidity 10n-condensing)	Operating		10 to 90% relative humidity (Rh), 28°C (82.4°F) maximu wet bulb temperature, non-condensing.	
		Non-operat	ing	5 to 95% relative humidit maximum wet bulb temp	
Altitude		Operating	3048 m (10,000 ft). This value may be limited and number of options installed. Maximum all altitude change rate is 457 m/min (1500 ft/mi		stalled. Maximum allowable
		Non-operat	ing	9144 m (30,000 ft). Maxir rate is 457 m/min (1500 f	num allowable altitude change ˈt/min).
A	bystande operating		oosition A-Weight	ed sound pressure levels (Lp environment. Noise emission	
		Idle		1P Non- Redundant SKU	2P Redundant SKU
			LWAd	5.8 B	5.4 B
			LpAm	41 dBA	38 dBA
		Operating		1P SKU	2P SKU
			LWAd	5.9 B	5.7 B
			LpAm	42 dBA	41 dBA
			Listed sound leve y result in increas	ls apply to standard shipping ed sound levels.	g configurations. Additional
	missions	FCC Rating		Class A	
C	Classification (EMC)	Normative Standards		CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES- 003; CNS14336-1; CNS13438; GB4943; GB9254; 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. 			
HP Dynamic Smart A	rray Dimensions		Embedded		
B120i Controller	Disk Drive and Enclosure Interface - Transfer rate		Up to 6Gb/s SATA (Serial ATA)		
	SAS Connecto	ors	6 internal SATA	connectors	
	Server Interf	ace	x4 PCIe 2.0		



Technical Specifications

		6Gb/s SATA links Zero Memory RAID has no cache memory Up to 8 logical volumes (6 physical drives) 64-bit, supporting greater than 4GB server memory space Yes RAID 0 (Striping), RAID 1 (Mirroring) RAID 1+0 (Striping & Mirroring)
HP Dynamic Smart Array	Dimensions	Embedded
B320i Controller	Disk Drive and Enclosure Interface - Transfer rate	Up to 6Gb/s SATA (Serial ATA)
	SAS Connectors	2 internal x4 connectors
	Server Interface	x4 PCIe 2.0
	SAS Speed	6Gb/s SAS links
	Cache Memory	Zero Memory RAID has no cache memory optional 40-bit 512MB ECC protected Flash Backed Write Cache (FBWC)
	Logical Drives Supported	Zero Memory, Up to 2 logical volumes (6 physical drives)
	Host Memory Addressing	
	RAID Support	RAID 0 (Striping), RAID 1 (Mirroring)
		RAID 1+0 (Striping & Mirroring)
		RAID 5 with optional 512MB FBWC
		NOTE: 512 MB cache is required to enable RAID 5 support. NOTE: NO SAS supported.
HP Smart Array P420	Dimensions	Low Profile PCIe Form Factor
Controller	Disk Drive and Enclosure	6Gb/s SAS (Serial Attached SCSI)
	Interface - transfer rate	3Gb/s SATA (Serial ATA)
	SAS Connectors	2 internal 4X connectors
	Cache Memory Speed	DDR2-800MHz with 40 or 72-bit wide bus
	Server Interface	x4 PCIe 2.0 provides 2GB/s maximum bandwidth
	SAS Speed	8 6Gb/s SAS links provide 4.8GB/s maximum bandwidth
	Cache Memory	Zero Memory RAID has no cache memory 40-bit 256MB ECC protected cache (battery upgrade available) 72-bit 512MB BBWC or 72-bit 512MB and 1G FBWC Zero Memory, Up to 2 logical volumes (8 physical drives)
	Logical Drives Supported	Up to 64 logical drives with cache
		64-bit, supporting greater than 4GB server memory space
	RAID Support	RAID 6, 60 (Advanced Data Guarding)
		RAID 5, 50 (Distributed Data Guarding)
		NOTE: Either a minimum of 256MB cache and battery kit or a minimum of 512MB BBWC/FBWC is required to enable RAID 5, 50, 6, 60. NOTE: HP Smart Array Advanced Pack (SAAP 2.0) is no longer required to enable 6 & 60 (Advanced Data Guarding). However, controller must be in firmware version 4.68 (or later).
		RAID 1+0 (Striping & Mirroring)
HP Ethernet 16h 4-port	Natwork Interface	10Base_T/100Base_TX/1000Base_TX

HP Ethernet 1Gb 4-port Network Interface 10Base-T/100Base-TX/1000Base-TX



	Composibility	EEE 802.3 10Base-T	
366i Adapter	Compatibility		
		IEEE 802.3ab 1000Base-T	
		IEEE 802.3u 100Base-TX	
		IEEE 1588, IEEE 802.1AS	
		IEEE 802.3az - Energy Effic	cient Ethernet (EEE)
	Data Transfer Method	PCI Express v 2.0, 5.0 GT/s	, two lanes (x2)
	Controller	Intel 1350 Powerville	
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s per port, 40 Mb/s combined
		10Base-T (Full-Duplex)	20 Mb/s per port , 80 Mb/s combined
		100Base-TX (Half-Duplex)	100 Mb/s per port, 400 Mb/s combine
		100Base-TX (Full-Duplex)	200 Mb/s per port, 800 Mb/s combined
		1000Base-TX (Half and	1000Mb/s per port, 4000 Mb/s combined
		Full-Duplex)	
	Connector	Two RJ-45	
	Cable Support	10Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)
		10/100/1000Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)
Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.	
		treatment information for facilities. This information the Hewlett Packard web s instructions may be used b	02/95/EC) requires manufacturers to provide each product type for use by treatment (product disassembly instructions) is posted on site at: http://www.hp.com/go/green. These by recyclers and other WEEE treatment facilities ers who integrate and re-sell HP equipment.

Technical Specifications



Summary of Changes

Date	Version History	Action	Description of Change:	
01-Dec-2014	From Version 37 to 38	Added	HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive and HP 1.6TB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive were added to HP Hard Drives.	
		Removed	Proactive Care Services (U6E39E, U6E40E, U6G63E, and U6G64E), Collaborative Support, and Proactive Care Personalized Support Option were removed from HP Care Pack Services.	
01-Nov-2014	From Version 36 to 37	Changed	Service and Support section was revised.	
29-Sep-2014	From Version 35 to 36	Added	New Solid State Drives were added. HP Managed Power Distribution Units (maPDU) was added to Additional Options.	
		Changed	Service and Support section was revised. HP Hard Drives was revised in Core Options section.	
		Removed	HP Power Distribution Units was removed from Additional Options.	
09-Sep-2014	From Version 34 to 35	Added	12G SAS Hot Plug VE SFF (2.5-inch) SC EV SSD and 12G SAS Hot Plug VE SFF (2.5-inch) SCC EV SSD hard drives were added to Core Options section.	
		Changed	Memory section was revised.	
18-Aug-2014	From Version 33 to 34	Added	New Hard Drives were added. HP Remote mPDUs half height version were added.	
		Changed	Pre-configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.	
16-Jun-2014	From Version 32 to 33	Changed	Memory, Hard Drives, Networking, Insight Software, Storage Controllers, Disk Backup, Storage Options, Power Distribution Units, and USB and SD Options were revised.	

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

