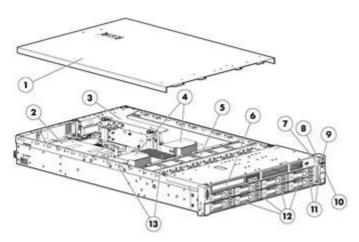
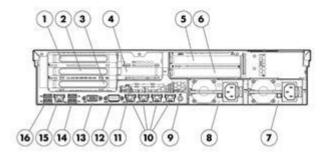
Overview

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)
- 3. 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
 Entry Processors - E5-2400v2 series Processors

 One of the following
 NOTE: All support up to 1333MHz DDR3 memory speeds

One of the following depending on Model

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+



Standard Features

	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+
	NOTE: HT indicates that the processor model supports Intel [®] Hyper-Threading Technology. NOTE: Turbo2 indicates the maximum potential frequency increment when using Intel [®] Turbo Boost Technology, with 8, 7, 6, 5, 4, 3, 2 and 1 cores active.
	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: Up to 2 processors supported. Mixing different processor models is not supported.
	NOTE: For the Intel [®] C600 Chipset E5-2400 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# (not yet designated) = version number.
Cache Memory One of the following	25MB (1x25MB) Level 3 cache NOTE: for ten-core processors.
depending on Model	20MB (1x20MB) Level 3 NOTE: For Eight-core processors.
	15MB (1x15MB) Level 3 NOTE: For Six-core processors.
	10MB (1x10MB) Level 3 NOTE: For Quad-core processors.
	NOTE: All processor models above list the L3 Cache associated with that particular processor.
Chipset	Intel® C600 Series Chipset
One of the following depending on Model	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	Upgradeable to two processors (20 cores)
One of the following depending on Model	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	HP iLO (Firmware: HP iLO 4)
One of the following depending on Model	NOTE: For more information, visit: http://www.hp.com/go/ilo



Standard Features

Memory Protection One of the following depending on Model	Advanced ECC Online Spare Lock-step mode				
Memory	Туре	HP SmartMemory			
One of the following		DDR3 Load Reduced (LRDIMM), Registered (RDIMM) or Unbuffered (UDIMM)			
depending on Model	Maximum Capacity (LRDIMM)	384GB (12 x 32GB LRDIMM @1333MHz)			
	Maximum Capacity (RDIMM)	192GB (12 x 16GB RDIMM @1600MHz or 1333MHz)			
	Maximum Capacity (UDIMM)	96GB (12 x 8GB UDIMM @1333MHz)			
	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_div/14225_div.html				
	NOTE: If only one processor is installed, only half 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: v	vww.hp.com/go/ddr3memory-configurator.			

Network Controller

One of the following depending on Model

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

Expansion Slots

Primary Riser (Standard)	Expansion Slots #	Technology	Bus Width**	Connector Width	Form Factor	Notes
	1	PCle 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	PCIe 2.0	X4	X8	Low Profile	
	** Indicates the nu	mber of physical e	electrical lanes ru	unning to the con	nector.	
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	



Standard Features						
	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 nu NOTE: This riser ki SATA drives and re	t comes with B32	Oi Smart Array co	ontroller which pr	nector. rovides support for	up to 8 SAS or
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	PCIe 3.0	X8	X16	Half length, full height slot	
HP Server ROM		flash process sta			rate Signing Service ming and preventin	
	(663282-B21). See	e Option Section b	elow for offering	g.	ard Power Adapter I ndary optional rise	
	passed to the cust	omer-installed of	perating system.	. The ROM also pr	re components befo ovides the capabilit ontinue operation to	y of booting from
	system.					· ··· · · · · · · · · · · · · · · · ·
	progress via an att phase of hardware	tached monitor. If e initialization, sui e configuration or	configuration of table messages	r hardware errors are now displaye	allow monitoring of are discovered dur d on the connected e Integrated Manag	ing this early monitor.
	HP's ProLiant ROM	l is used to config	ure the following	g:		
	System merSystem har		ap, and memory on (Integrated P	CI devices and op	tional PCIe cards). d Setup Utility (RBS	U).
	NOTE: For further					



Standard Features		
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	Optical Drive	Optional
depending on Model		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
		12 LFF drive bays total without Optical Bay Optional: +2 Rear Drive Bays (LFF or SFF)
		25 SFF drive bays total without Optical Bay Optional: +2 Rear Drive Bays (LFF or SFF) NOTE: Drive cage changes are not supported except for adding +8SFF to an existing 8SFF drive cage. NOTE: Adding the rear drive cage negates the space required for secondary
		optional riser slots 5 & 6. 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. These part numbers for single HDD blanks below are also provided should the customer require replacement HDD blanks for their server.



Standard Features						
Maximum Internal Storage	Hot Plug SFF SAS	32.4TB	27 x 1.2TB (with 25SFF drive cage + Rear 2SFF 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)			
	Hot Plug LFF SAS	56.0TB	14 x 4TB (with 12LFF drive cage + Rear 2LFF drive cage)			
	Hot Plug LFF SATA	56.0TB	14 x 4TB (with 12LFF drive cage + Rear 2LFF drive cage)			
	Hot Plug SFF SAS SSD	21.6TB	27 x 800GB (with 25SFF drive cage + Rear 2SFF drive cage)			
	Hot Plug SFF SATA SSD	21.6TB	27 x 800GB (with 25SFF drive cage + Rear 2SFF drive cage)			
	Hot Plug LFF SATA SSD	11.2TB	14 x 800GB (with 12LFF drive cage + Rear 2LFF drive cage)			
Interfaces	Serial	1				
	Video	2 (1 front, 1 back) not active simultaneously				
	LOM Network Ports	4x1GbE ports				
	HP iLO Remote 1 Gb Dedicated Management Network Port					
	SD slot1 Internal SecureNOTE: The SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.					
	USB 2.0 Ports		2 front, 4 back, 1 internal (secure) SFF drive cage models have 1front, 4 back and 1 internal			
Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certificat USB 2.0 Compliant	ions				
Server Power Cords One of the following depending on Model	connects to 110V US wall distribution units (PDUs) i cord (A0K02A). If a user w	vers no longer ship sta outlets in a home or of n data center racks and ishes to power a ProLia wer cord must be orde	part numbers. ndard with a 12-foot NEMA 5-15P to C13 power cord that ifice. ProLiant DL servers are primarily connected to power d now ship standard with a PDU 6-foot C-14 to C13 power ant DL server using a 110V receptacle (NEMA-15), the 6- ered separately (AF556A). See Power Cords section for			



Standard Features	
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/proliant-energy-efficient or www.hp.com/go/proliant-energy-efficient or 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_div/14209_div.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. HF 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, hotplug 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 powe 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_div/14209_div.html



Standard Features

(4) Hot-Plug Non-redundant Fans ship standard in 1P Models System Fans One of the following 1P: 4 fans - non-redundancy depending on Model 1P: 5 fans - redundancy (6) Hot-plug Redundant Fans ship standard in 2P Models 2P: 5 fans - non-redundancy 2P: 6 fans - redundancy 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 Microsoft Windows Server Virtualization Software** Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) **Support for ProLiant Oracle Solaris** Servers **VMware** 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 (32 bpp) • 1920 x 1200 (16 bpp) **Form Factor** 2U Rack form factor Entry models ship with fixed rails. One of the following depending on Model All other models ship with 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 17.54" (44.55 cm) Width x 27.5" (69.85 cm) Length



Standard Features

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 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.
 - O 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



Standard Features

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

HP Insight Management	HP Insight Control	 HP Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. HP Insight Control also supports Location and Power Discovery Services to automate many configuration, asset tracking, and power management tasks to speed implementation and prevent downtime. For more information, see http://www.hp.com/go/insightcontrol. HP Insight Control includes one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, see: http://www.hp.com/services/insight.
	HP iLO Essentials	 HP iLO Essentials license ideal for small and medium business customers. The specially created HP iLO Essentials (a subset of iLO Advanced functionality) saves SMB customers time and money, by ease of remote server set up through the interactive virtual media, lowering operational costs with remote access via the Integrated Remote Console, and faster time to resolution with email-based proactive notifications. With this newly designed HP iLO Essentials license SMB customers now have the option of a server management package solely design and priced just right for their IT environments. HP iLO Essentials is available on all HP ProLiant Gen8 e-series making this an ideal solution for small business owners. For more information, see: http://www.hp.com/go/iLO/essentials
	HP iLO Advanced	HP Integrated Lights-Out Advanced License a product option, providing smart remote server management without compromise. iLO Advanced unlocks the full set of remote administration functionality for all HP ProLiant servers by activating the full Virtual Keyboard Video and Mouse remote console, multi- user collaboration, console record and replay, GUI-based and scripted virtual media and virtual folders, and enhanced security and power management functionality. For more information, see: http://www.hp.com/go/iloadvance
	HP Matrix Operating Environment	The HP Matrix Operating Environment (Matrix OE) for ProLiant and Integrity servers is an integrated command center that helps you instantly adjust to dynamic business demands. This advanced infrastructure management software lets you reduce the cost of common data center tasks by up to 40 percent while keeping pace with your changing business.
		The HP Matrix OE includes the automated provisioning, optimization, and recovery management capabilities for HP CloudSystem Matrix, the ideal platform for private cloud and Infrastructure as a Service (IaaS).
		NOTE: For more information, visit: http://www.hp.com/go/matrixoe
High Performance Clusters	HP Cluster Platforms	HP Cluster Platforms are specifically engineered, factory-integrated large- scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters



Optional Features

HP HPC Interconnects	High Performance Computing (HPC) interconnect technologies are available for this server as part of the HP Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by HP when 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	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

Storage Software

Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than HP storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities.

Storage software that gets the job done:

• Data Protection and Recovery Software

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

Data Archive and Migration Software

HP's storage software enables you to comply with data retention and retrieval requirements, improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.

• Storage Resource Management Software (SRM)

HP's storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments.

• Data Replication Software

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

 Storage Device Management Software Maximize your investment in HP storage and networking with software that enables hardware-

specific configuration, performance tuning and connectivity management.

• HP StoreVirtual VSA

With HP StoreVirtual VSA you can use the power of virtualization to turn a set of heterogeneous and disconnected physical disk drives in your servers and storage devices into a single pool of logical storage capacity.

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



Optional Features	
HP Insight Online	HP Insight Online is a new addition to the HP Support Center for one stop, secure access to product and HP support information personalized to your IT environment. Insight Online can automatically display devices remotely monitored by HP Insight Remote Support. With Insight Online's easy navigation you can efficiently track your IT support contracts and device status from anywhere and at anytime. www.hp.com/go/insightonline
HPC Interconnects	NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HP Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPC Clusters with InfiniBand Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html
	InfiniBand PCI-Express Generation 2 adapters
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 and BladeSystem

Capitalizing on HP ProLiant server and HP BladeSystem capabilities requires a service partner who understands your increasingly complex business technology environment. That's why it makes sense to team up with the people who know HP infrastructure hardware and software best - the experienced professionals at HP Services.

What HP ProLiant and BladeSystem Services can do for you

HP ProLiant and BladeSystem Services can help you design, deploy, test, integrate, support, and manage IT and infrastructure solutions. This way, HP proposes services solutions that include more than just uplift of base warranty. Foundation Care services deliver scalable support-packages for HP industry-standard servers and software. You can choose the type and level of service that is most suitable for their business needs. New to this portfolio is HP Collaborative Support. If you are running business critical environments, HP offers Proactive Care or Critical Advantage. These services help deliver high levels of application availability through proactive service management and advanced technical response You can get the support you need by choosing from one of a number of service packaged solutions we have designed to address wider set of customer support needs.

HP Technology Services meets business challenges with services offered in three support recommendations - **Optimized Care, Standard Care, and Basic Care** - available for each product group. Such support solutions enable customers to optimize technology operations, minimize risk and drive better business outcomes with easy-to-buy, easy-to-use scalable support recommendations for servers, storage, networking and software designed to meet your specific needs.

All three service recommendations include support services from the broader portfolio of Foundation Care and Proactive Care services.

Optimized Care Optimized Care: Supports maintaining servers at optimum performance availability

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

HP Installation and Startup for Insight Control Software / HP SIM

Provides for the deployment and basic configuration of HP Insight Control or HP SIM (Systems Insight Manager) on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf

3-Year HP 24x7 4 hour Response, Proactive Care

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your call and end to end until resolved, delivering a single point of contact for you. Helping you to resolve your hardware and software issues and minimizing downtime in your business critical environment.

Additional Services: Factory Express, Education Services, Proactive Select - 30 Credit Package



Service and Support

Standard Care	Standard Care: Service recommendation that maintains high level of server availability				
	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				
	HP Installation and Startup for Insight Control Software / HP SIM				
	Provides for the deployment and basic configuration of HP Insight Control or HP SIM (Systems Insight Manager) on HP ProLiant ML and DL series servers or HP BladeSystem servers				
	http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf				
	3-Year HP 24x7 4 hour Response, Collaborative Support				
	Offers customers a single point of contact for server problem diagnosis, hardware problem resolution, and basic software problemdiagnosis, fault isolation, and resolution if available to HP. If the problem is with HP HW, the representative will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged. In case, the issue is with HP or supported third-party software product and cannot be resolved by applying known fixes, HP will contact the third-party vendor and create a problem incident on your behalf.				
	Additional Services: Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware) Installation & Start Up and Software Support; Microsoft or Linux or VMware education courses; +60 Proactive Select Credits				
Basic Care	Basic Care: delivers minimum recommended support service level				
	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				
	3-Year HP 24x7 4 hour Response, Hardware Support Onsite Service				
	Provides you with rapid remote support and if required an HP authorized technical engineer will be on site				
	24X7 begin hardware maintenance service within 4 hours of the service request being logged http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE.pdf				
	Additional Services: Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware) Installation & Start Up and				
	Software Support; +30 Proactive Select Credits, Factory Express.				
Insight Remote Support	Provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. Learn more http://www.hp.com/go/insightremotesupport				



Service and Support	
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.

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

Entry Models - SATA

HP ProLiant DL380e Gen8 E5-2403v2 4GB-R B120i	Processor	(1) Intel® Xeon® E5-2403v2 (1.8GHz/4-core/10MB/80W, DDR3-1333) Processor
Hot Plug SATA 4 LFF 460W	Cache Memory	10MB (1 x 10MB) L3 cache
PS Server	Memory	4GB (1x4GB) DDR3 Registered DIMMs PC3-10600R (1333MHz)
747766-xx1	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.



Pre-configured Models

HP ProLiant DL380e Gen8 E5-2403 1P 4GB-R Hot	Processor	(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 648255-xx1	Memory	4GB (1 x 4GB) Registered DIMMs PC3-10600R (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 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.



Pre-configured Models

Entry Models - SAS

HP ProLiant DL380e Gen8 E5-2403 1P 4GB-R Hot	Processor	(1) Intel® Xeon® E5-2403 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3- 1066) Processor
Plug 8 SFF 460W PS Entry	Cache Memory	10MB (1 x 10MB) L3 cache
Server 648256-xx1	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 695539-001). 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 Hot Plug SAS 8 LFF 460W PS Server 747767-xx1	Processor Cache Memory Memory	 (1) Intel[®] Xeon[®] E5-2407v2 (2.4GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3-1333) Processor 10MB (1 x 10MB) L3 cache 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)



Pre-configured Models		
	Fans Form Factor	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)
		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	Intel® Xeon® E5-2407 (2.2GHz/4-core/10MB/6.4GT-s QPI/80W, DDR3-1066) Processor
Plug 8 LFF 460W PS Base	Cache Memory	10MB (1 x 10MB) L3 cache
Server 668665-xx1	Memory	8GB (2 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)
000003-771	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.



Pre-configured Models

Base Models - SFF

Duse Plouets - 511		
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 SFF 460W	Cache Memory	10MB (1 x 10MB) L3 cache
PS Server 747768-xx1	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
erver 68666-xx1	Memory	8GB (2 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)
00000-XX1	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
	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)



Pre-configured Models

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	Memory	24GB (3 x 8GB) Registered DIMMs PC3L-12800R (1600MHz)
747771-xx1	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 460W 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.



Pre-configured Models

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	Memory	24GB (6 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)
668669-xx1	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 460W 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-xx1	Memory	12GB (3 x 4GB) 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 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



Pre-configured Models		
		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 E5-2420 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	Memory	12GB (3 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)
668667-xx1	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.



Pre-configured Models

Storage Models - SFF

Storage Plouets - S		
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	Memory	12GB (3 x 4GB) Registered DIMMs PC3L-12800R (1600MHz)
747770-xx1	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	 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.
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	Memory	12GB (3 x 4GB) Registered DIMMs PC3L-10600R (1333MHz)
668668-xx1	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	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).



Pre-configured Models 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 Warranty with next business day response. **Country Code Key** xx = 00 U.S. xx = 20 Brazil xx = 29 Japan APD xx = 37 xx = 42 Europe xx = AA PRC



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

669256-B21 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 HP Dynamic Smart Array B120i Controller with Zero Memory (ZM) I/O slots - 4 Slots come standard:

- Slot 1 FL/FH x4 PCle 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

669255-B21 **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/n675856-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 669253-B21 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: 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	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 NOTE: The following Power Supplies offer 92% Efficiency.	
	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 NOTE: The following Power Supplies offer 92% Efficiency.	
	HP 750W Common Slot -48VDC Hot Plug Power Supply Kit	636673-B21
	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.	
	NOTE: Option Kits for AC power supplies include the power supply and one PDU IEC cable.	
	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	
HP I/O Expansion Options	HP DL380e Gen8 CPU1 with SAS Support FIO Riser Kit	661402-B21
	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. 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 NOTE: Cannot be selected if 661402-B21 is selected.	661404-B21

Step 3: Choose Additional Factory Integratable Options

HP Rack Kits

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: 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.

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

Configuration Information - Factory Integrated Models

HP Insight Software HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle S FIO License FIO License	Single Server C6N36A
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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: Some options may not be integrated at the factory. Contact your local sales representative for additional information.			
HP Unique Options	HP DL380e Gen8 Hot Plug Fan Kit NOTE: Upgrades a non-redundant server with additional hot-plug fans.	667855-B21	
	HP DL380e Gen8 8 Small Form Factor (SFF) Hard Drive Cage Kit668295-INOTE: With upgrade of 8SFF Cage, there is no Optical Drive support and an additionalstorage controller is required for 1:1 CTO Server.		
	HP DL380e Gen8 CPU1 Riser Kit	661404-B21	
	HP DL380e Gen8 x16 PCI-E Riser Kit	661628-B21	
	HP Graphic Card Power Adapter Kit	663282-B21	
	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.		
HP Processors	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) Processor Kit	708497-B21	
	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 Kit	746521-B21	
	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-B21	
	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-B21	
	HP DL380e Gen8 Intel® Xeon® E5-2470v2 (2.4GHz/10-core/25MB/95W) Processor Kit	724575-B21	
	HP DL380e Gen8 Intel® Xeon® E5-2450Lv2 (2.4Git2/10-core/25MB/60W) Processor Kit	746523-B21	
	Entry Processors - E5-2400 series Processors	7-0525-021	
	NOTE: All support up to 1066MHz memory speeds.		
	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-B21	
	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) Processor Kit	661124-B21	
	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-B21	
	HP DL380e Gen8 Intel® Xeon® E5-2420 (1.9GHz/6-core/15MB/95W) Processor Kit	661128-B21	



Core Options		
	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) Processor Kit	661118-B21
	HP DL380e Gen8 Intel® Xeon® E5-2450 (2.1GHz/8-core/20MB/95W) Processor Kit	661120-B21
	HP DL380e Gen8 Intel® Xeon® E5-2450L (1.8GHz/8-core/20MB/70W) Processor Kit	661136-B21
	 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. 	
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_div/14225_div.html (Worldwide) 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.	
HP Optical Drives	HP 12.7mm Slim SATA DVD-ROM JackBlack Optical Drive	652232-B21
	HP 12.7mm Slim SATA DVD-RW JackBlack Optical Drive	652235-B21
HP Hard Drives	SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives	
	HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	697574-B21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
	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 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
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
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
SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives	
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
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information: http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html	
(Worldwide)	
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
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 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html (Worldwide)	
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Driv	es
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State	
Drive	
HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State	734360-B21
Drive	
6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Driv	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State	e 718171-B21
Drive	724262 024
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 Boot 3yr Wty Solid State Drive	739898-B21
HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 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 Boot 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 Boot 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
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
6G SATA ME Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691860-B21
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-B21
6G SAS ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690829-B21
HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690827-B21



HP ProLiant DL380e Generation 8 (Gen8)

QuickSpecs

HP 200GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690825-B21
6G SAS SLC Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives	
HP 400GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive	653082-B21
HP 200GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive	653078-B21
3G SATA MLC Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 400GB 3G SATA MLC SFF (2.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653120-B21
HP 200GB 3G SATA MLC SFF (2.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653118-B21
3G SATA MLC Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
HP 400GB 3G SATA MLC LFF (3.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653126-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/14038_div/14038_div.html (Worldwide)	
Hard Drive Kits	
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.	
HP LFF Gen8 Hard Drive Blank Kit	666986-B21
HP SFF Gen8 Hard Drive Blank Kit	666987-B21
HP 2U Gen8 2 LFF Rear Kit NOTE: Supports 2 hot plug drives in the back of server and the kit includes multiple cable options which allow connections between rear, front backplanes and also between rear backplane, motherboard.	663278-B21
HP 2U Gen8 2 SFF Rear Kit NOTE: Supports 2 hot plug drives in the back of server and the kit includes multiple cable options which allow connections between rear, front backplanes and also	663280-B21
between rear backplane, motherboard.	-
HP DL380e Gen8 8 Small Form Factor (SFF) Hard Drive Cage Kit NOTE: Provides support for an additional 8 SFF drives. Requires a separate controller. HP recommends the Smart Array P420 controller with 1Gb of FBWC.	668295-B21
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
	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_div/13078_div.html	
HP I/O Expansion Options	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	697581-B21
	NOTE: The above Power Supplies offer 96% Efficiency with support for Intelligent Power Discovery.*	
	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_div/14209_div.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. 		
	NVIDIA Quadro 6000 6GB PCI-E Adapter	655935-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.		
	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

License HP Insight Control Server Provisioning Media Kit BD883A HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License HP Insight Control Server Deployment including 1yr 24x7 Support and Update Service. NOTE: Customer will receive a 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: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates BD774A Single Svr License HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates BD775A Single Svr License HP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and Updates BD775A Single Svr License HP OneView HP OneView HP OneView HP OneView HP OneView Media Kit Phys No Lic ESY34A HP OneView Media Kit Phys No Lic ESY34A HP OneView Media Kit Phys No Lic Estrates	HP Insight Software	HP Insight Control	
HP Insight Management Media KitC6N31AHP Insight Control Server Deployment including 1yr 24x7 Support Electronic LicenseT9082AAEHP Insight Control Server Deployment including 1yr 24x7 Support Single Server License452151-B21NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple452151-B21Licenses with a single activation key.NOTE: Customer will receive a license entitlement certificate. The license entitlementNOTE: Licenses with a single activation key.NOTE: Customer will receive a license entitlement certificate. The license entitlementNOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.htmlHP Integrated Lights-Out (LIO) Advanced for ProLiantHP ILO Advanced 1 Server License with 3yr 24x7 Tech Support and UpdatesBD505AHP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and UpdatesBD774ASingle Svr LicenseHP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and UpdatesBD775ASingle Svr LicenseHP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and UpdatesBD775ASingle Svr LicenseHP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and UpdatesBD775ASingle Svr LicenseHP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and UpdatesBD775ASingle Svr License<			C6N27A
HP Insight Control Server Deployment including 1 yr 24x7 Support Electronic LicenseT9082AAEHP Insight Control Server Deployment including 1 yr 24x7 Support Single Server License452151-B21NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.452151-B21NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service. NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates. NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html HP ILO Advanced I Server License with 3yr 24x7 Tech Support and Updates BD505A HP ILO Essentials HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates Single Svr License HP Integrated Lights-Out Essentials including 1 yr 24x7 Tech Support and Updates Single Svr License HP Integrated Lights-Out Essentials including 1 yr 24x7 Tech Support and Updates Single Svr License HP Integrated Lights-Out Essentials including 1 yr 24x7 Tech Support and Updates Single Svr LicenseB0775ANOTE: For more information, visit: http://www.hp.com/go/ilo.B0775AHP Converged Infrastructure Management SoftwareHP OneView Media Kit Phys No LicE5Y34A E5Y34A		HP Insight Control Server Provisioning Media Kit	BD883A
HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License452151-B21NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.452151-B21NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service. NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates. NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html452151-B21HP ILO Advanced including 1yr 24x7 Technical Support and UpdatesBD505AHP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and UpdatesBD505AHP iLO EssentialsHP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and UpdatesBD774ASingle Svr LicenseHP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and UpdatesBD775ASingle Svr LicenseNOTE: For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_div/14276_div.htmlBD775ANOTE: For more information, visit: http://www.hp.com/go/ilo.HP OneViewE5Y34AHP Converged InfrastructureHP OneView Media Kit Phys No LicE5Y34A		HP Insight Management Media Kit	C6N31A
NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service. NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates. NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html HP Integrated Lights-Out (ILO) Advanced for ProLiant HP ILO Advanced including 1yr 24x7 Technical Support and Updates BD505A HP ILO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates BD774A Single Svr License HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates BD775A Single Svr License NOTE: For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_div/14276_div.htmlHP Converged Infrastructure Management SoftwareHP OneView HP OneView Media Kit Phys No LicE5Y34A E5Y34A HP OneView Media Kit Phys No Lic		HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License	T9082AAE
NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.htmlHP Integrated Lights-Out (iLO) Advanced for ProLiantHP ILO Advanced including 1yr 24x7 Technical Support and Updates Single Server LicenseHP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and UpdatesHP iLO EssentialsHP ILO EssentialsHP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and UpdatesBD774ASingle Svr LicenseHP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and UpdatesBD775ASingle Svr LicenseHD Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and UpdatesBD775ASingle Svr LicenseNOTE: For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_div/14276_div.htmlNOTE: For more information, visit: http://www.hp.com/go/ilo.HP Converged Management SoftwareHP OneView HP OneView Media Kit Phys No LicESY37A		 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 	452151-B21
http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html HP Integrated Lights-Out (iLO) Advanced for ProLiant HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License 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 Tech Support and Updates BD774A Single Svr License HP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and Updates BD775A Single Svr License HP Integrated Lights-Out Essentials including 1yr 24x7 Tech Support and Updates BD775A Single Svr License NOTE: For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_div.html NOTE: For more information, visit: http://www.hp.com/go/ilo. HP OneView HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic E5Y34A HP OneView Media Kit Phys No Lic E5Y37A			
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Management Software HP OneView Media Kit Phys No Lic E5Y37A	Infrastructure		E5Y34A
	Management Software		E5Y37A
		-	E5Y38A



HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU

HP OneView w/o iLO Adv inc 3yr 24x7 Supp Flex Qty E-LTU

E5Y35AAE

E5Y39AAE

Additional Options		
High Performance Clusters	HP Insight Cluster Management Utility 1yr 24x7 Flexible License HP Insight Cluster Management Utility 3yr 24x7 Flexible License NOTE: These part numbers can be used to purchase one certificate for multiple licenses	QL803B BD476A
	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_div/12612_div.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_div/13587_div.html (Worldwide)	
HP Security	HP 2U Security Bezel Kit	666988-B21
	HP Trusted Platform Module Option	488069-B21
	NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can 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



HP ProLiant DL380e Generation 8 (Gen8)

QuickSpecs

Additional Options

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 6Gb 1-port Int SAS Controller	698529-B21
HP Smart Array P431 Controller	
HP Smart Array P431/2GB FBWC 6Gb 2-ports Ext SAS Controller	698531-B21
Smart Array P822 Controller	
HP Smart Array P822/2GB FBWC 2-ports Int/4-ports Ext SAS Controller	615418-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	B320iBC393A
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
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/14227_div/14227_div.html (Smart Array P222 Controller)	
http://h18000.www1.hp.com/products/quickspecs/14228_div/14228_div.html (Smart Array P420 Controller)	
http://h18000.www1.hp.com/products/quickspecs/14229_div/14229_div.html (Smart Array P421 Controller)	
http://h18000.www1.hp.com/products/quickspecs/14341_div/14341_div.html (Smart Array P822 Controller)	
http://h18000.www1.hp.com/products/quickspecs/14343_div/14343_div.html (Dynamic Smart Array Controllers)	
Host Bus Adapter	
HP H220 Host Bus Adapter	650933-B21
HP H221 Host Bus Adapter	650931-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_div/14336_div.html (HBA 220)	



Additional Options	i i i i i i i i i i i i i i i i i i i	
	http://h18004.www1.hp.com/products/quickspecs/14222_div/14222_div.html	
	(HBA 221) http://h18004.www1.hp.com/products/quickspecs/14337_div/14337_div.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_div/12566_div.html (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 - SEV 1011 CH 250V 10Amp 1.83m Power Cord	AF565A
	HP C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord	AF566A
	HP C13 - CEE-VII EU 250V 10Amp 1.83m Power Cord	AF568A
	HP C13 - BS-1363A UK/HK/SG 250V 10Amp 1.83m Power Cord	AF570A
	HP C13 - CEI-23-50 IT/CL 250V 10Amp 1.83m Power Cord	AF571A
	HP C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567A
	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 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
	HP StoreOnce Backup systems	
	HP StoreOnce 2620 iSCSI Backup	BB852A
	NOTE: Please see the QuickSpecs for additional part numbers, Technical Specifications, and additional information: http://h18000.www1.hp.com/products/quickspecs/13036_div/13036_div.html (Worldwide)	
	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 SN1000E 16Gb 1-port PCIe Fibre Channel Host Bus Adapter	QR558A
	HP SN1000E 16Gb 2-port PCIe Fibre Channel Host Bus Adapter	QR559A
	HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A
	HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A
	QLogic Fibre Channel HBAs	
	HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
	HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
	Converged Network Adapter	
	HP CN1100E Dual Port Converged Network Adapter	BK835A
	HP CN1000Q Dual Port Converged Network Adapter	BS668A
	HP StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A



HP Uninterruptible Power	HP Rack-mountable UPS	
Systems	HP R1500 G3 Uninterruptible Power Supply (UPS)	
	HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A
	HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
	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_div/14059_div.html (Worldwide)	
	HP R/T3000 G2 Uninterruptible Power System (UPS)	
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System	AF468A
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A
	NOTE: Please see the QuickSpecs for additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14058_div/14058_div.html (Worldwide)	
	R5000 Uninterruptible Power System (UPS)	
	HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
	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_div/14109_div.html (Worldwide)	
	R7000 Uninterruptible Power System (UPS)	
	HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
	HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
	NOTE: Please see the QuickSpecs for additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14110_div/14110_div.html (Worldwide)	
	NOTE: For additional information on sizing your HP UPS, please reference: http://www.upssizer.com	
	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	HP 1.9kVA 120 Volt 12 Outlet NA/JP Basic Power Distribution Unit	H5M54A
Distribution Units	HP 2.8kVA 120 Volt 18 Outlet NA/JP Basic Power Distribution Unit	H5M55A
	HP 3.6kVA 200-240 Volt 12 Outlet WW Basic Power Distribution Unit	H5M56A
	HP 3.6kVA 200-240 Volt 20 Outlet WW Basic Power Distribution Unit	H5M57A
	HP 4.9kVA 208 Volt 20 Outlet NA/JP Basic Power Distribution Unit	H5M58A
	HP 4.9kVA 208 Volt 30 Outlet NA/JP Basic Power Distribution Unit	H5M59A
	HP 8.3kVA 208 Volt 36 Outlet NA/JP Basic Power Distribution Unit	H5M60A
	HP 8.6kVA 208 Volt Three Phase 18 Outlet NA/JP Basic Power Distribution Unit	H5M61A
	HP 8.6kVA 208 Volt Three Phase 30 Outlet NA/JP Basic Power Distribution Unit	H5M62A
	HP 5.7kVA 208 Volt Three Phase 27 Outlet NA/JP Dual Voltage Basic Power Distribution Unit	H5M63A
	HP 8.6kVA 208 Volt Three Phase 30 Outlet NA/JP Dual Voltage Basic Power Distribution Unit	H5M64A
	HP 11kVA 400 Volt Three Phase 42 Outlet NA Basic Power Distribution Unit	H5M67A
	HP 7.3kVA 230 Volt 20 Outlet INTL Basic Power Distribution Unit	H5M68A
	HP 7.3kVA 230 Volt 30 Outlet INTL Basic Power Distribution Unit	H5M70A
	HP 11kVA 230 Volt 36 Outlet INTL Basic Power Distribution Unit	H5M71A
	HP 11kVA 400 Volt Three Phase 30 Outlet INTL Basic Power Distribution Unit	H5M72A
	HP 11kVA 400 Volt Three Phase 42 Outlet INTL Basic Power Distribution Unit	H5M73A
	HP Hardwired 200-240 Volt 36 Outlet WW Basic Power Distribution Unit	H5M75A
	HP 13.2kVA 480 Volt Three Phase 15 Outlet NA Basic Power Distribution Unit	H3X07A
	HP 19.9kVA 480 Volt Three Phase 30 Outlet NA Basic Power Distribution Unit	H3X08A
	HP 277 Volt options for H3X07A and H3X08A	
	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.	
	HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	НЗХО9А
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14557_div/14557_div.html (Worldwide)	



HP Remote Monitoring	HP 2.8kVA 120 Volt 12 Outlet NA/JP Monitored Power Distribution Unit	D9N43A
Power Distribution Units	HP 4.9kVA 208 Volt 12 Outlet NA/JP Monitored Power Distribution Unit	D9N44A
	HP 3.6kVA 200-240 Volt 16 Outlet WW Monitored Power Distribution Unit	D9N45A
	HP 3.6kVA 200-240 Volt 12 Outlet WW Monitored Power Distribution Unit	D9N46A
	HP 4.9kVA 208 Volt 24 Outlet NA/JP Monitored Power Distribution Unit	D9N47A
	HP 7.3kVA 230 Volt 24 Outlet INTL Monitored Power Distribution Unit	D9N48A
	HP 8.3kVA 208 Volt 33 Outlet NA Monitored Power Distribution Unit	D9N49A
	HP 7.3kVA 230 Volt 36 Outlet INTL Monitored Power Distribution Unit	D9N50A
	HP 8.6kVA 208 Volt Three Phase 21 Outlet NA/JP Monitored Power Distribution Unit	D9N51A
	HP 5.7kVA 208 Volt Three Phase 21 Outlet NA/JP Dual Voltage Monitored Power Distribution Unit	D9N52A
	HP 8.6kVA 208 Volt Three Phase 24 Outlet NA/JP Dual Voltage Monitored Power Distribution Unit	D9N53A
	HP 17.3kVA 208 Volt Three Phase 27 Outlet NA/JP Monitored Power Distribution Unit	D9N54A
	HP 11kVA 400 Volt Three Phase 21 Outlet INTL Monitored Power Distribution Unit	D9N55A
	HP 22kVA 400 Volt Three Phase 33 Outlet INTL Monitored Power Distribution Unit	D9N56A
	HP 11kVA 400 Volt Three Phase 33 Outlet INTL Monitored Power Distribution Unit	D9N57A
	HP 14.4kVA 208 Volt Three Phase 24 Outlet NA Monitored Power Distribution Unit	D9N58A
	HP 17.3kVA 208 Volt Three Phase 24 Outlet NA/JP Monitored Power Distribution Unit	D9N59A
	HP 22kVA 400 Volt Three Phase 24 Outlet INTL Monitored Power Distribution Unit	D9N60A
	HP 16.6kVA 400 Volt Three Phase 33 Outlet NA Monitored Power Distribution Unit	D9N61A
	HP 16.6kVA 400 Volt Three Phase 24 Outlet NA Monitored Power Distribution Unit	D9N62A
	HP 19.9kVA 480 Volt Three Phase 30 Outlet NA Monitored Power Distribution Unit	D9N63A
	HP Environmental Sensor for Remote Monitored PDUs	
	Environmental Sensor for Remote Monitored PDUs	E2D53A
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14669_div/14669_div.html (Worldwide)	



HP Intelligent Power Distribution Units (iPDU)	 iPDU Core Units HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit iPDU Extension Bars HP 5xC13 Intelligent PDU Extension Bar G2 Kit HP 5xC13 Outlets Power and UID LEDS Pair Standard Extension Bar NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13650_div/13650_div.html (Worldwide) 	AF520A AF522A AF525A AF526A AF547A AF528A
	(workewice)	
HP Power Distribution	Monitored PDUs	
Units	HP Monitored Power Distribution Unit: Full Rack Version	
	HP 8.6kVA 24A Single Input Three Phase NA/JP Monitored Power Distribution Unit	AF504A
	HP 8.3kVA 40A Single Input Single Phase NA/JP Monitored Power Distribution Unit	AF506A
	HP 11kVA 16A Single Input Three Phase INTL Monitored Power Distribution Unit	AF508A
	HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit	AF510A
	HP Monitored Power Distribution Unit: Half Rack Version	
	HP 4.9kVA 24A Single Input Single Phase NA/JP Monitored Power Distribution Unit	AF914A
	HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit	AF915A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/12118_div/12118_div.html	
	 NOTE: For additional information on HP Power Distribution Units including accessories please go to: www.hp.com/go/pdu. 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 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	BW903A
	HP 642 1075mm Shock Intelligent Series Rack	BW904A
	HP 647 1075mm Pallet Intelligent Series Rack	BW911A
	HP 647 1075mm Shock Intelligent Series Rack	BW912A
	NOTE: Please see the QuickSpecs for Technical Specifications such as height, width, depth, weight, and color: http://h18000.www1.hp.com/products/quickspecs/14223_div/14223_div.html	
	(Worldwide)	
	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_div/14429_div.html (Worldwide)	
	HP USB Keyboard and Mouse	
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
	HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
	HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
	HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
	HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
	HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
	HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
	HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
	HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
	HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
	HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
	HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
	HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
	HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
	HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
	HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
	HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
	HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
	HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3



HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13972_div/13972_div.html (Worldwide)	
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 UK Monitor	AZ871A
HP TFT7600 G2 KVM Console Rackmount Keyboard DE Monitor	AZ872A
HP TFT7600 G2 KVM Console Rackmount Keyboard FR Monitor	AZ873A
HP TFT7600 G2 KVM Console Rackmount Keyboard IT Monitor	AZ874A
HP TFT7600 G2 KVM Console Rackmount Keyboard ES Monitor	AZ875A
HP TFT7600 G2 KVM Console Rackmount Keyboard DK Monitor	AZ876A
HP TFT7600 G2 KVM Console Rackmount Keyboard NO Monitor	AZ877A
HP TFT7600 G2 KVM Console Rackmount Keyboard SE/FI Monitor	AZ878A
HP TFT7600 G2 KVM Console Rackmount Keyboard CH Monitor	AZ879A
HP TFT7600 G2 KVM Console Rackmount Keyboard PT Monitor	AZ880A
HP TFT7600 G2 KVM Console Rackmount Keyboard BE Monitor	AZ881A
HP TFT7600 G2 KVM Console Rackmount Keyboard JP Monitor	AZ882A
HP TFT7600 G2 KVM Console Rackmount Keyboard RU Monitor	AZ883A
HP TFT7600 G2 KVM Console Rackmount Keyboard Intl Monitor	AZ884A
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_div/13731_div.html (Worldwide)	
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_div/11834_div.html (Worldwide)	
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_div/13475_div.html (Worldwide)	
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_div/13474_div.html (Worldwide)	
	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 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP 2GB USB Flash Media Drive Key Kit NOTE: HP qualified blank USB key for use with HP ProLiant servers that support the VMware virtualization environment and other HP value-add software. HP recommends this industry standard USB flash device for use with VMware ESXi. USB device must be installed in the internal slot of the ProLiant server for use with VMware ESXi. Refer to HP VMware Getting Started Guide for installation instructions. HP 8GB SD Enterprise Mainstream Flash Media Kit HP 32GB SD Enterprise Mainstream Flash Media Kit	737953-B21 608447-B21 726113-B21 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 6 hour Call to Repair 24x7 ProLiant DL380e Proactive Care Service	U6E39E
	HP 3 year 6 hour Call to Repair 24x7 w/Defective Media Retention ProLiant DL380e Proactive Care Svc	U6E40E
	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
	HP 3 year 6 hour Call to Repair 24x7 ProLiant DL380e with Insight Control Proactive Care Service	U6G63E
	HP 3 yr 6hrCalltoRepair 24x7 w/Defective Media Retention DL380e w/Insight Control Proactive Care SVC	U6G64E
	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	
	Collaborative Support	
	HP 3 year 4 hour 24x7 ProLiant DL380e Collaborative Support	U6E31E
	HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL380e Collaborative Support	U6E32E
	HP 3 year 6 hour Call to Repair 24x7 ProLiant DL380e Collaborative Support	U6E37E
	HP 3 year 6 hour Call to Repair 24x7 w/Defective Media Retention ProLiant DL380e Collaborative Sup	U6E38E
	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.	
	Proactive Care Personalized Support Option	
	HP 3 year ISS ProactiveCare Personalized Support	U6W98E
	NOTE: To add an onsite Account Support Manager (ASM) to Proactive Care. ASM is an assigned resource who delivers support planning and brings technical expertise and best practices advices for the customer's environment.	
	Installation Services	
	HP Install ProLiant DL380e Service	U6E81E
	HP Startup ProLiant 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.	

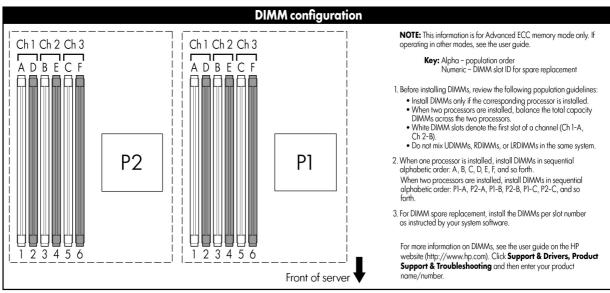


Memory

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_div/14225_div.html.
- For memory population rules and additional memory guidelines, please see the DL380e Gen8 user guide at http://www.hp.com/support.



Memory

- There are three(3) Memory channels per processor; six(6) channels for 2 processors server.
- 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 a	nd Capacity							
DIMM Туре		-	ed DIMMS MMs)	Load Reduced (LRDIMMs)	Unbuffered with ECC DIMMs (UDIMMs)			
DIMM Rank	Single Rank	Dual Rank	Single Rank	Dual Rank	Quad Rank (4R)	Single Rank	Dual Rank	Dual Rank
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	2GB	4GB	8GB
DIMM Native Speed (MT/s)	1600	1600	1600	1600	1333	1600	1600	1600
Voltage	LV	LV	Std	LV	Std	LV	LV	LV
SLOTS THAT CAN BE P	OPULATED							
12 slot servers	12	12	12	12	12	12	12	12
MAXIMUM CAPACITY ((GB)*							
	48	96	96	192	384	24	48	96
1 DIMM Per Channel	1600	1600	1600	1600	1333	1600	1600	1600
2 DIMM Per Channel	1600	1600	1600	1600	1333	1600	1600	1600
3 DIMM Per Channel	800	800	800	800	1333	n/a	n/a	n/a

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

Memory Bandw	vidth and	l Capacit	ÿ											
DIMM Туре	e Registered DIMMS (RDIMMS)						Load Reduced (LRDIMMs)	Unbuffered with ECC DIMMs (UDIMMs)						
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 THAT CA	N BE PO	PULATED)											
12 slot servers	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MAXIMUM CAP#	ACITY (GI	B)*												
	48	48	96	96	96	192	192	384	24	24	48	48	96	96

Memory

1 DIMM Per	1333	1600	1333	1600	1600	1333	1600	1333***	1333	1600	1333	1600	1600	1333
Channel														
2 DIMM Per	1333	1600	1333	1600	1600	1333	1600	1333***	1333***	1600	1333***	1600	1600	1333***
Channel														
3 DIMM Per	1066	1333***	1066**	1333**	1333**	1066**	1333**	1600	n/a	n/a	n/a	n/a	n/a	n/a
Channel														

*Maximum capacity will vary based on individual server platform qualification schedule

**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.

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 #'	I IS PROCESSO	R ON RIGHT -	LOOKING FROM	M FRONT OF S	ERVER	
		CPU 1			CPU 2		
	Slot #	populati	on order	Slot #	populati	ion order	
Chnl 1	1	Α	1	1	Α	1	CPU 1
	2	D	4	2	D	4	
		CPU 1			CPU 2		
	Slot #	populati	on order	Slot #	populati		
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 # population order			
Chnl 3	5	С	3	5	С	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)

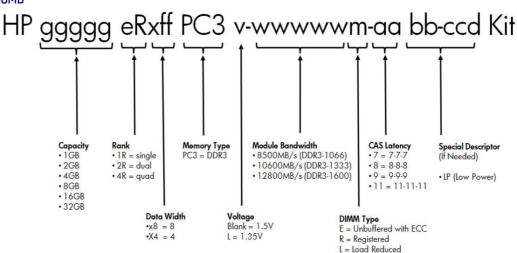
Memory

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)
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_div/14225_div.html (Worldwide)

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 713981-B21 Voltage Memory Kit



Memory

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 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)	



Memory

HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low 647903-B21 Voltage Memory Kit

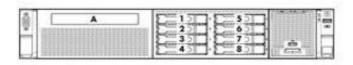
NOTE: The above memory is supported by the E5-2400 v2 and E5-2400 series Processors.

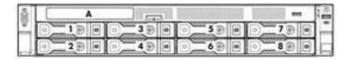
NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator.

NOTE: PC3L is a low voltage memory.



Storage





A	E	13	- A	E	6	0	8	11 (0	8	16	0		B	2	21 (Η	6
ų		2		C	7	0	8	12(0	8	217	0		8	2	20	Н	8
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		4	19	L	9	0	9	14,	0		19	0	_		2	4 (C	Н	-
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	2_0	۲	3_0	•	4.00	

- 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

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

Technical Specifications

System Unit	Dimensions (with bezel)		7.5 in (8.75 x 44.55 x 69.85 cm) 9.5 in (8.75 x 44.55 x 74.94 cm)
	Weight (approximate)	Maximum	71.20 lb (32.30 kg)
		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)



HP ProLiant DL380e Generation 8 (Gen8)

Technical Specifications

		For 750 W Power Supp 750 W (at 100 to 120 V 750 W (at 200 to 240 V For 460 W Power Supp 460 W (at 100 to 120 V 460 W (at 200 to 240 V	AC), AC) ly: AC),	
System Inlet Temperature	Operating	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8° per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).		
	Non-operating	-30° to 60°C (-22° to 14 change is 20°C/hr (36°I	40°F). Maximum rate of F/hr).	
Relative Humidity (non-condensing)	Operating	10 to 90% relative hun maximum wet bulb ter condensing.	nidity (Rh), 28°C (82.4°F) nperature, non-	
	Non-operating	5 to 95% relative humi maximum wet bulb ter condensing.	dity (Rh), 38.7°C (101.7°F nperature, non-	
Altitude	Operating	the type and number o	is value may be limited by f options installed. titude change rate is 457	
	Non-operating	9144 m (30,000 ft). Ma change rate is 457 m/n	ximum allowable altitude nin (1500 ft/min).	
Acoustic Noise	Listed are the declared A- average bystander positio the product is operating in measured in accordance w with ISO 9296 (ECMA 109).	n A-Weighted sound pres a 23°C ambient environr ith ISO 7779 (ECMA 74) a	ssure levels (LpAm) when nent. Noise emissions we	
	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	
	NOTE: The Listed sound le	vels apply to standard sh sult in increased sound le		
	nualitional options may re.			



Technical Specificatio	ons						
	(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				
		sample (type) testing, eva products is eligible to bear NOTE: The Listed sound le	ice to cited product specifications is based on luation, or assessment. This product or family of r the appropriate compliance logos and statements. evels apply to standard shipping configurations. sult in increased sound levels.				
HP Dynamic Smart Array	Dimensions	Embedded					
B120i Controller	Disk Drive and Enclosure Interface - Transfer rate						
	SAS Connectors	6 internal SATA connector	S				
	Server Interface	x4 PCIe 2.0					
	SAS Speed	6Gb/s SATA links					
	Cache Memory	Zero Memory RAID has no cache memory					
	Logical Drives Supported Up to 8 logical volumes (6 physical drives)						
	Host Memory Addressing	64-bit, supporting greater than 4GB server memory space					
	Hot Plug Support	Yes					
	RAID Support	RAID 0 (Striping), RAID 1 (N	1irroring)				
		RAID 1+0 (Striping & Mirro	ring)				
HP Dynamic Smart Array	Dimensions	Embedded					
B320i Controller	Disk Drive and Enclosure Interface - Transfer rate	Up to 6Gb/s SATA (Serial A	TA)				
	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 optional 40-bit 512MB ECC	cache memory Cprotected Flash Backed Write Cache (FBWC)				
	Logical Drives Supported	Zero Memory, Up to 2 logi	cal volumes (6 physical drives)				
	Host Memory Addressing	64-bit, supporting greater	than 4GB server memory space				
	RAID Support	RAID 0 (Striping), RAID 1 (N	1irroring)				
		RAID 1+0 (Striping & Mirro	ring)				
		RAID 5 with optional 512M	IB FBWC				
		NOTE: 512 MB cache is req NOTE: NO SAS supported.	juired to enable RAID 5 support.				



Technical Specifications

HP Smart Array P420	Dimensions	Low Profile PCIe Form Facto	or				
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 7	2-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				
	Host Memory Addressing	64-bit, supporting greater t	than 4GB server memory space				
	RAID Support	RAID 6, 60 (Advanced Data	Guarding)				
		RAID 5, 50 (Distributed Data Guarding)					
		512MB BBWC/FBWC is requ NOTE: HP Smart Array Adva					
HP Ethernet 1Gb 4-port	Network Interface	10Base-T/100Base-TX/10	00Base-TX				
HP Ethernet 1Gb 4-port 366i Adapter	Network Interface Compatibility	10Base-T/100Base-TX/100 EEE 802.3 10Base-T	DOBase-TX				
-			DOBase-TX				
-		EEE 802.3 10Base-T	00Base-TX				
-		EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T	00Base-TX				
-	Compatibility	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic	ient Ethernet (EEE)				
-	Compatibility Data Transfer Method	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s,	ient Ethernet (EEE)				
-	Compatibility Data Transfer Method Controller	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s, Intel 1350 Powerville	ient Ethernet (EEE) two lanes (x2)				
-	Compatibility Data Transfer Method	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s, Intel 1350 Powerville 10Base-T (Half-Duplex)	ient Ethernet (EEE) two lanes (x2) 10 Mb/s per port, 40 Mb/s combined				
-	Compatibility Data Transfer Method Controller	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s, Intel 1350 Powerville 10Base-T (Half-Duplex) 10Base-T (Full-Duplex)	ient Ethernet (EEE) two lanes (x2) 10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port , 80 Mb/s combined				
-	Compatibility Data Transfer Method Controller	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s, Intel 1350 Powerville 10Base-T (Half-Duplex) 10Base-T (Full-Duplex) 100Base-TX (Half-Duplex)	ient Ethernet (EEE) two lanes (x2) 10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port , 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combine				
-	Compatibility Data Transfer Method Controller	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s, Intel 1350 Powerville 10Base-T (Half-Duplex) 10Base-T (Full-Duplex) 100Base-TX (Half-Duplex)	ient Ethernet (EEE) two lanes (x2) 10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port , 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combine 200 Mb/s per port, 800 Mb/s combined				
-	Compatibility Data Transfer Method Controller	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s, Intel 1350 Powerville 10Base-T (Half-Duplex) 10Base-T (Full-Duplex) 100Base-TX (Half-Duplex)	ient Ethernet (EEE) two lanes (x2) 10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port , 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combine				
-	Compatibility Data Transfer Method Controller	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s, Intel 1350 Powerville 10Base-T (Half-Duplex) 10Base-T (Full-Duplex) 100Base-TX (Half-Duplex) 100Base-TX (Half-Duplex)	ient Ethernet (EEE) two lanes (x2) 10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port , 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combine 200 Mb/s per port, 800 Mb/s combined				
-	Compatibility Data Transfer Method Controller Network Transfer Rate	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS IEEE 802.3az - Energy Effic PCI Express v 2.0, 5.0 GT/s, Intel 1350 Powerville 10Base-T (Half-Duplex) 10Base-T (Half-Duplex) 100Base-TX (Half-Duplex) 100Base-TX (Half-Duplex) 1000Base-TX (Half and Full-Duplex)	ient Ethernet (EEE) two lanes (x2) 10 Mb/s per port, 40 Mb/s combined 20 Mb/s per port , 80 Mb/s combined 100 Mb/s per port, 400 Mb/s combine 200 Mb/s per port, 800 Mb/s combined				



Technical Specifications

Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
		The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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

