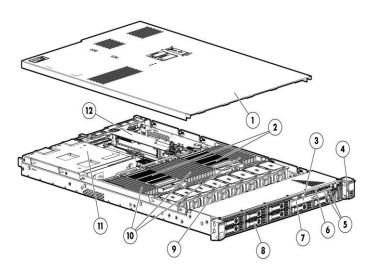
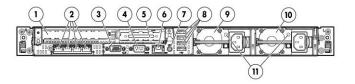
#### **Overview**

### HP ProLiant DL360p Generation 8 (Gen8)

Performance driven compute with storage density - ideal for enterprise applications. Industry leading performance, efficiency, capacity and reliability. Enterprise enhanced design for all workloads with versatility for future requirements. A space conscious 2-processor server with industry leading feature sets. Built to protect your investment and extend the life with reliability, accessibility and serviceability features designed in.





#### Front View:

- 1. Hood Cover
- 2. Up to two Intel® E5-2600v2 or E5-2600 Series processors
- 3. Optical Disk Drive Bay
- 4. Active Health and Network Status LEDs
- 5. 2 USB Connectors
- 6. Video connector (requires Front Video Adapter Kit)
- 7. Slide-out System Insight Display (SID)
- 8. Hard Drive Bays
- 9. Removable hot-plug fan modules for easy serviceability
- 10. 24 DIMM slots: DDR3 Registered (RDIMM), Load Reduced (LRDIMM) or Unbuffered (UDIMM) memory
- 11. Redundant Hot Plug Power Supplies (upgradeable option)
- 12. Removable Riser Cage assembly for 2 x PCIe 3.0 Slots

#### What's New

- New HDD offering
- New Networking options

#### **Rear View:**

- 1. PCIe 3.0 Full-height/half-length x16 expansion slot
- 2. FlexibleLOM ports (Shown: 4 ports 1Gb each /Optional: 2 ports 10Gb each)
- 3. Video connector
- 4. Serial connector
- 5. PCIe 3.0 Low Profile x8 expansion slot
- 6. iLO Management Engine NIC connector
- 7. Unit ID LED/button
- 8. 4 USB connectors
- 9. Power supply bay 2 (Shown populated: Optional Power Supply for Redundant Power)
- 10. Power supply bay 1 (Primary Power Supply)
- 11. Power Supplies Health/Activity Indicators



#### Standard Features

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

#### Processor

One of the following depending on model

E5-2600 v2 series Processors

#### Entry Processors

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

Intel® Xeon® E5-2609 v2 (2.5GHz/4-core/10MB/6.4GT-s QPI/80W)

Intel® Xeon® E5-2603 v2 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W)

**Base Processors** 

NOTE: All support up to1600MHz DDR3 memory speeds.

Intel® Xeon® E5-2640 v2 (2.0GHz/8-core/20MB/7.2GT-s QPI/95W, DDR3-1600, HT, Turbo2-3/3/3/3/3/3/4/5)

Intel® Xeon® E5-2630 v2 (2.6GHz/6-core/15MB/7.2GT-s QPI/80W, DDR3-1600, HT, Turbo2-3/3/3/4/5)

Intel® Xeon® E5-2620 v2 (2.1GHz/6-core/15MB/7.2GT-s QPI/80W, DDR3-1600, HT, Turbo2-3/3/3/4/5)

Intel® Xeon® E5-2650L v2 (1.7GHz/10-core/25MB/8.0GT-s QPI/70W, DDR3-1600, HT, Turbo2-2/2/2/2/2/2/2/2/3/4)

Intel® Xeon® E5-2630L v2 (2.4GHz/6-core/15MB/7.2GT-s QPI/60W, DDR3-1600, HT, Turbo2-2/2/2/3/4)

#### **Performance Processors**

NOTE: All support up to 1866MHz DDR3 memory speeds.

Intel® Xeon® E5-2697 v2 (2.7GHz/12-core/30MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-3/3/3/3/3/3/3/4/5/6/7/8)

Intel® Xeon® E5-2695 v2 (2.4GHz/12-core/30MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2-4/4/4/4/4/4/4/5/6/7/8)

Intel® Xeon® E5-2690 v2 (3.0GHz/10-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-3/3/3/3/3/3/3/4/5/6)

Intel® Xeon® E5-2680 v2 (2.8GHz/10-core/25MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2-3/3/3/3/4/5/6/7/8)

Intel® Xeon® E5-2670 v2 (2.5GHz/10-core/25MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2-4/4/4/4/4/5/6/7/8)

Intel® Xeon® E5-2667 v2 (3.3GHz/8-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-3/3/3/4/5/6/7)

Intel® Xeon® E5-2660 v2 (2.2GHz/10-core/25MB/8.0GT-s QPI/95W, DDR3-1866, HT, Turbo2-4/4/4/4/4/5/6/7/8)

Intel® Xeon® E5-2650 v2 (2.6GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1866, HT, Turbo2-4/4/4/5/6/7/8)

Intel® Xeon® E5-2643 v2 (3.5GHz/6-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-1/1/1/2/3)

Intel® Xeon® E5-2637 v2 (3.5GHz/4-core/15MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2- 1/1/2/3)

#### E5-2600 series Processors

#### **Entry Processors**

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

Intel® Xeon® E5-2609 (2.4GHz/4-core/10MB/6.4GT-s QPI/80W)

Intel® Xeon® E5-2603 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W)

#### **Base Processors**

NOTE: All support up to1333MHz DDR3 memory speeds.

#### **Standard Features**

	Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5)				
	Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5)				
	Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5)				
	Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/8.0GT-s QPI/60W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5)				
	<b>Performance Processors</b> <b>NOTE:</b> All support up to 1600MHz DDR3 memory speeds.				
	Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8.0GT-s QPI/135W, DDR3-1600, HT, Turbo2- 4/4/4/5/5/7/7/9)				
	Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/8.0GT-s QPI/130W, DDR3-1600, HT, Turbo2- 4/4/5/5/5/7/8/8)				
	Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/8.0GT-s QPI/115W, DDR3-1600, HT, Turbo2- 4/4/5/5/6/6/7/7)				
	Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/8.0GT-s QPI/130W, DDR3-1600, HT, Turbo2- 3/3/3/4/5/6)				
	Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/8.0GT-s QPI/115W, DDR3-1600, HT, Turbo2- 4/4/5/5/6/6/7/7)				
	Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1600, HT, Turbo2- 5/5/6/6/7/7/8/8)				
	Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1600, HT, Turbo2- 4/4/5/5/5/7/8/8)				
	Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/8.0GT-s QPI/70W, DDR3-1600, HT, Turbo2- 2/2/3/3/4/4/5/5)				
	Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/8.0GT-s QPI/130W, DDR3-1600, HT, Turbo2- 1/1/2/2)				
	Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/8.0GT-s QPI/80W, DDR3-1600, HT, Turbo2- 5/5)				
	<b>NOTE:</b> HT indicates that the processor model supports Intel® Hyper-Threading Technology. <b>NOTE:</b> Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost				
	Technology, with 8, 7, 6, 5, 4, 3, 2 or 1 core(s) active. <b>NOTE:</b> DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.				
	<b>NOTE:</b> Up to 2 processors supported. Mixing different processor models is not supported. <b>NOTE:</b> For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, and x = L for low power SKUs.				
<b>Cache Memory</b> One of the following	30MB (1x30MB) Level 3 NOTE: For Twelve-core processors.				
depending on model	25MB (1x25MB) Level 3				
acpending on model	NOTE: For Ten-core processors.				
	20MB (1x20MB) Level 3 NOTE: For Eight-core processors.				
	15MB (1x15MB) Level 3 NOTE: For Six-core processors.				
	10MB (1x10MB) Level 3 <b>NOTE:</b> For Quad-core processors.				
	5MB (1x5MB) Level 3 NOTE: For Dual-core processors.				
Chipset	Intel® C600 Series Chipset				
	Intel® E5-2600 Processor Family				



	Intel <sup>®</sup> E5-2600 v2 Processor Family <b>NOTE:</b> For more information regarding Intel <sup>®</sup> chipsets, please see the following URL: http://www.intel.com/products/server/chipsets/.			
Upgradeability	Upgradeable to two processors (24 Cores) <b>NOTE:</b> Processor upgrade available from Intel® Xeon® Processors E5-2600 to E5-2600 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 E5-2600 to an Intel Xeon Processor E5-2600 v2, regarding critical details before upgrading. An explanation of requirements and limitations are provided. Up to 24 DIMM slots available for higher memory capacity Up to 8 SFF Hard Drive Bays; Or 4 LFF or 10 SFF Drive Bay (optional through CTO below) FlexibleLOM slot for 1Gigabit or 10 Gigabit Ethernet or QDR/FDR InfiniBand networking options 2 PCIe 3.0 I/O slots for additional communications and storage expansion Redundant Power Supply Optical Drive Bay (8 SFF/4 LFF)			
On System Management Chipset	HP iLO (Firmware: HP iLO 4) <b>NOTE:</b> For more information, visit: http://www.hp.com/go/ilo.			
Memory Protection	Advanced ECC Online Spare Lock-step mode			
<b>Memory</b> One of the following depending on model	Туре	HP SmartMemory DDR3 Registered (RDIMM), Load Reduced (LRDIMM) or Unbuffered (UDIMM) memory		
	DIMM Slots Available	24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel)		
	Maximum Capacity (LRDIMM)	768GB (24 x 32GB@1066MHz)		
	Maximum Capacity (RDIMM)	384GB (24 x 16GB@1333MHz)		
	Maximum Capacity (UDIMM)	128GB (16 x 8GB@1333MHz)		
	Maximum Capacity (HDIMM)	384GB (24 x 16GB@1333MHz)		
	ProLiant Server. HP Sma enhanced functionality I SmartMemory QuickSpe http://h18000.www1.hp NOTE: LRDIMM, RDIMM, within a server. The maj NOTE: If only one proces processors 24 DIMM slot slots may be populated. NOTE: When using HDIM NOTE: Depending on the	D.com/products/quickspecs/14225_na/14225_na.html UDIMM and HDIMMs are all distinct memory technologies and cannot be mixed ority of ProLiant Gen8 servers support RDIMM, UDIMM and LRDIMM. ssor is installed, only 12 DIMM slots are available. When populating with two ts are available. For maximum speed on some memory options on 16 DIMM		



### **Standard Features**

Memory Configuration Tool at: http://www.hp.com/go/ddr3memory-configurator.

One of the following depending on model	HP ProLiant Gen8 servers offer a new networking technology - Flexible Network Technology. The HP ProLiant DL360p Gen8 server offers the customer the choice of 1 Gigabit and/or 10 Gigabit networking solutions. For additional details see the Networking Section of this document.					
	Entry Models	HP Ethe	ernet 1Gb 4-por	rt 331FLR Adapte	r	
	Base Models	HP Ethe	ernet 1Gb 4-por	t 331FLR Adapte	r	
	Performance Mod One of the followi depending on mo	ing HP Ethe del HP Ethe	ernet 1Gb 4-por ernet 10Gb 2-po	ort 530FLR-SFP+ t 331FLR Adapte ort 533FLR Adapt	r er	
	Energy Star Certif Models	ied HP Ethe	ernet 1Gb 4-por	t 331FLR Adapte	r	
Expansion Slots	Expansion Slots #	Technology	Bus Width*	Connector Width	Form Factor	Notes
	1	PCIe 3.0	x8	x8	Low profile slot	Activated when installed with processor 1
	2	PCIe 3.0	x16	x16	Full-height, half-length slot	Activated wher installed with processor 1
	*Indicates the num <b>NOTE:</b> Two PCIe 3.				nnector. t and (1) low-profil	e slot.
HP Server ROM	HP ROM (Read Only Memory) is now digitally signed using HP's Corporate Signing Service. This signature is verified before the flash process starts, reducing accidental programming and preventing malicious efforts to corrupt system ROM. HP ROM provides for essential initialization and validation of hardware components before control is passed to the customer-installed operating system. The ROM also provides the capability of booting from various fixed media (HDD, CD-ROM) and removable media (USB), to continue operation to the operating system.					
HP Server ROM	signature is verific malicious efforts HP ROM provides passed to the cust from various fixed	ed before the flas to corrupt system for essential initia tomer-installed o d media (HDD, CD-	h process start ROM. alization and va perating system	s, reducing accide Ilidation of hardw n. The ROM also	ental programming vare components be provides the capabi	and preventing efore control is ility of booting
HP Server ROM	signature is verific malicious efforts HP ROM provides passed to the cust from various fixed operating system HP ROM performs progress via an at phase of hardwar	ed before the flas to corrupt system for essential initia tomer-installed o d media (HDD, CD- very early config tached monitor. I e initialization, su e configuration ou	h process start ROM. alization and va perating syster ROM) and remo uration of the v f configuration itable message	s, reducing accide Ilidation of hardw n. The ROM also ovable media (US video controller, t or hardware erro	ental programming vare components be provides the capabi	and preventing efore control is ility of booting ration to the of initialization luring this early ed monitor.
HP Server RUM	signature is verific malicious efforts HP ROM provides passed to the cust from various fixed operating system HP ROM performs progress via an at phase of hardwar Additionally, thes	ed before the flas to corrupt system for essential initia tomer-installed o d media (HDD, CD- very early config tached monitor. I e initialization, su e configuration of liagnosis.	h process start ROM. alization and va perating syster ROM) and remo uration of the v f configuration itable message hardware erro	s, reducing accide lidation of hardw m. The ROM also ovable media (US video controller, t or hardware erro es are now display irs are logged to t	ental programming vare components be provides the capabi B), to continue ope o allow monitoring ors are discovered d yed on the connecto	and preventing efore control is ility of booting ration to the of initialization luring this early ed monitor.
HP Server ROM	signature is verific malicious efforts HP ROM provides passed to the cust from various fixed operating system HP ROM performs progress via an at phase of hardwar Additionally, thes (IML) to assist in d HP's ProLiant ROM Processo System r System h	ed before the flas to corrupt system for essential initia tomer-installed o d media (HDD, CD- very early config ttached monitor. I e initialization, su e configuration of liagnosis. A is used to config or and chipset stat nemory, memory nardware configur	h process start ROM. alization and va perating syster ROM) and remo uration of the v f configuration itable message hardware erro ure the followi cus registers map, and mem ration (Integrate	s, reducing accide lidation of hardw m. The ROM also ovable media (US video controller, t or hardware erro es are now display rs are logged to f ng: ng: ory initialization ed PCI devices an	ental programming vare components be provides the capabi B), to continue ope o allow monitoring ors are discovered d yed on the connecto	and preventing efore control is ility of booting ration to the of initialization luring this early ed monitor. agement Log ds).
HP Server RUM	signature is verific malicious efforts HP ROM provides passed to the cust from various fixed operating system HP ROM performs progress via an at phase of hardwar Additionally, thes (IML) to assist in d HP's ProLiant ROM Processo System r System h	ed before the flas to corrupt system for essential initia tomer-installed o d media (HDD, CD- very early config tached monitor. I e initialization, su e configuration of liagnosis. A is used to config or and chipset stat nemory, memory hardware configur r-specific BIOS co	h process start ROM. alization and va perating system ROM) and remo uration of the v f configuration itable message hardware erro ure the followi cus registers map, and mem ration (Integrate nfiguration (us	s, reducing accide lidation of hardw m. The ROM also povable media (US video controller, t or hardware erro es are now display rs are logged to t ng: ng: hory initialization ed PCI devices an ing the HP ROM-E	ental programming vare components be provides the capabi B), to continue ope o allow monitoring ors are discovered d yed on the connecto the Integrated Mana d optional PCIe card	and preventing efore control is ility of booting ration to the of initialization luring this early ed monitor. agement Log ds). (RBSU).
HP Server ROM Storage Controller One of the following	signature is verific malicious efforts HP ROM provides passed to the cust from various fixed operating system HP ROM performs progress via an at phase of hardwar Additionally, thes (IML) to assist in d HP's ProLiant ROM Processo System r System r Custome	ed before the flas to corrupt system for essential initia tomer-installed o d media (HDD, CD-	h process start ROM. alization and va perating system ROM) and remo uration of the v f configuration itable message hardware erro ure the followi sus registers map, and mem ration (Integrate nfiguration (us	s, reducing accide lidation of hardw m. The ROM also povable media (US video controller, t or hardware erro es are now display rs are logged to t ng: ng: hory initialization ed PCI devices an ing the HP ROM-E	ental programming vare components be provides the capabi B), to continue ope to allow monitoring ors are discovered d yed on the connecto the Integrated Mana d optional PCIe card Based Setup Utility ed setup utility) use	and preventing efore control is ility of booting ration to the of initialization luring this early ed monitor. agement Log ds). (RBSU).



depending on model	Performance Models Energy Star Models One of the following depending on model	HP Smart Array	P420i/2GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0) P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0) P420i/ZM (RAID 0/1/1+0)	
Internal Storage	Diskette Drive	None		
Devices	Optical Drive	Optional		
		DVD-ROM, DVD-RW <b>NOTE:</b> This option available with all 8SFF or 4LFF drive models.		
	Hard Drives	None ship standard		
	Hard Drive Bays	8 SFF drive bays total with Optical drive bay		
			bays with Optical drive bay	
		<ul> <li>Optional: 10 SFF bays without optical</li> <li>NOTE: HP ProLiant DL360p Series servers offer both SFF, and LFF versions in CTO. The Optical Drive bay is available with the 4 LFF and 8 SFF models only.</li> <li>NOTE: LFF versions are not an upgradeable option from SFF models, or vice versa.</li> <li>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.</li> </ul>		
Maximum Internal	Hot Plug SFF SAS	20.0TB	10 x 2TB	
Storage	Hot Plug SFF SATA	20.0TB	10 x 2TB	
	Hot Plug LFF SAS	32.0TB	4 x 8TB (with optional LFF drive cage)	
	Hot Plug LFF SATA	32.0TB	4 x 8TB (with optional LFF drive cage)	
	Hot Plug SFF SAS SSD	19.2TB	10 x 1.92TB	
	Hot Plug SFF SATA SSD	16.0TB	10 x 1.6TB	
	Hot Plug LFF SAS SSD	6.4TB	4 x 1.6TB (with optional LFF drive cage)	
Interfaces	Serial	1		
	Video	2 (1 front, 1 back) not active simultaneously <b>NOTE:</b> Front interface is a Mini-video connector and requires Front Video Adapter Kit (PN 655915-B21).		
	FlexibleLOM Network Ports	Some models come standard with 4 x 1GB ports while others come with 2 x 10GB ports (See HP Networking section below for more details and options).		
	HP iLO Remote Management Network Port	1Gb Dedicated		
	SD slot	1 Internal secure <b>NOTE:</b> 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	7 total: 4 rear, 2	front, 1 internal (secure)	
Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant			



	PXE Support WOL Support Microsoft® Logo certifications USB 2.0 Compliant				
Server Power Cords	All Pre-configured Models servers ship with a high voltage server to PDU power cord. <b>NOTE:</b> HP ProLiant DL servers no longer ship standard with a 12-foot NEMA 5-15P to C13 power cord that connects to 110V US wall outlets in a home or office. ProLiant DL servers are primarily connected to power distribution units (PDUs) in data center racks and now ship standard with a PDU 6-foot C-14 to C13 power cord (AOKO2A). If a user wishes to power a ProLiant DL server using a 110V receptacle (NEMA-15), the 6-foot NEMA 5-15 to C13 power cord must be ordered separately (AF556A). See Power Cords section for Power Cord options.				
Power Specifications	To review typical system power ratings use the HP Power Advisor which is available via the online tool located at URL: http://www.hp.com/go/proliant-energy-efficient or http://www.hp.com/go/hppoweradvisor.				
	<b>NOTE:</b> Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_na/14209_na.html				
Common Slot Power Supply	<b>NOTE:</b> Mixing of power supplies in the same server is not supported. All power supplies inside a server must be exactly the same model. Mixing Gold, Platinum, and Platinum Plus certified power supplies is not supported.				
	HP's Common Slot (CS) power supplies allow for commonality of power supplies across a wide range of ProLiant and Integrity servers, as well as HP Storage solutions, and are designed to provide the highest power supply efficiency without degrading system performance. HP CS power supplies are tested by the Electric Power Research Institute (EPRI) and certified through the ECOS 80 Plus power supply program. HP CS power supply options provide efficiency ratings of up to 94% (80 Plus Platinum) and are available in three power output options - 460W, 750W, and 1200W - allowing the customer to "right-size" a power supply for their specific server configuration. All HP Common Slot power sources are UL, CE Mark Compliant, hot-plug and support redundant configurations.				
	<b>NOTE:</b> 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 power supplies are required when enabling HP's Intelligent Power Discovery (IPD) solution. IPD is the first technology to create an automated, energy-aware network between IT systems and facilities. This allows your company to reclaim millions of dollars in wasted power capacity and downtime costs across data centers. For more information on HP's IPD solution, go to http://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: http://www.hp.com/go/hppoweradvisor.				
	<b>NOTE:</b> 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 80Plus.org.				
	Redundant Power: Optional (1+ 1 or n+n redundant) power supplies can be purchased through power supply option kits (see Power Supplies for part numbers).				



	<b>NOTE:</b> Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_na/14209_na.html			
System Fans	6 fan modules ship standard in 1 processor models			
One of the following	8 fan modules ship standard in 2 processor models The DL360p Gen8 will support up to 8 fans with fan redundancy built in. One fan rotor failure will place server in degraded mode but fully functional. Two fan rotor failures could provide warning and imminent server shutdown. <b>NOTE:</b> The processor option kit contains 2 additional fan modules, when upgrading from a 1 processor			
depending on model				
	to two processor models.			
Required Cabling	For required cabling information, refer to the Web site at: http://www.hp.com/servers/dl360p-gen8			
Operating Systems and Virtualization Software	Microsoft Windows Server Canonical Ubuntu			
Support for ProLiant	Red Hat Enterprise Linux (RHEL)			
Servers	SUSE Linux Enterprise Server (SLES)			
	Oracle Linux VMware			
	Citrix XenServer			
	<b>NOTE:</b> 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 including how to purchase from HP, please visit our OS Support Site at: http://www.hp.com/go/ossupport and our driver download page http://www.hp.com/support/DL360pGen8			
Graphics	Integrated Matrox G200 video standard			
	<ul> <li>1280 x 1024 (32 bpp)</li> <li>1920 x 1200 (16 bpp)</li> </ul>			
	HP iLO 4 On System Management Memory			
	<ul> <li>16 MB Flash</li> <li>256 MB DDR 3 with ECC (112 MB after ECC and video)</li> </ul>			
<b>Form Factor</b> One of the following	1U Rack form factor			
depending on model	8 SFF and 10 SFF Drive Bay Versions: 1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 27.5" (69.85cm) Length			
	4 LFF Drive Bay Version: 1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 29.5" (74.67cm) Length			
On System Management	HP iLO Management 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:			
	• <b>HP iLO:</b> The HP iLO (Integrated Lights-Out) management processor is the core foundation for the HP iLO Management Engine			



#### HP ProLiant DL360p Generation 8 (Gen8)

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

#### **Standard Features**

		<ul> <li>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.</li> <li>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.         <ul> <li>To start Intelligent Provisioning:</li> <li>Press the F10 key during the ProLiant Gen8 server boot process (also known as power on self-test or POST).</li> <li>Please go to the Intelligent Provisioning dot information and to view usage videos.</li> <li>Use the Service Pack for ProLiant (SPP) at http://www.hp.com/go/spp to get firmware and software updates.</li> </ul> </li> <li>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: http://www.hp.com/go/ilo or HP iLO Management Engine technologies whitepaper</li> </ul>
HP Insight management	HP Service Pack for ProLiant	HP Service Pack for ProLiant (SPP) and HP Smart Update Manager (HP SUM) provide a comprehensive approach to firmware and system software maintenance. Together they provide better operating stability and ensure maximum uptime. The SPP will be updated at a predictable cadence, typically coinciding with new HP server hardware launches. By enabling firmware to be updated online and integrating firmware and system software updates in one operation, HP SUM and the SPP offer faster updates of individual servers and dramatically faster updates of entire BladeSystem enclosures. Further improving system uptime and stability is the fact that HP provides 12 months of support for each Service Pack for ProLiant release.
		The user experience around HP SUM and the SPP has been improved in several ways, starting with the web download. A single web page provides access to a single download containing both the latest version of HP SUM and the latest SPP. Optional smaller subsets with only specific types of servers or specific operating systems are offered to save on download time. The HP SUM application provides a straightforward, intuitive user interface that guides the user through the steps of discovery, analyses and update, providing comprehensive information on available updates, criticality and interdependencies. This information is also available in reports. By providing the option of multiple local or shared repositories which can be easily updated from hp.com, HP SUM provides the tools to optimize stability and consistency throughout the company. While HP SUM and the SPP recommend the combinations of firmware and system



and the SPP recommend the combinations of firmware and system

	software that HP has found to be the best practice, the application gives customers the flexibility to set their own specific baseline.
	The Service Pack for ProLiant has been rigorously tested with specific attention for interaction between firmware, drivers and agents both within the server as well as in interaction with the BladeSystem enclosure components (Onboard Administrator and Virtual Connect). This testing ensures the highest quality as well as providing the input for HP SUM to deploy updates taking into account all interdependencies, when determining the correct updates and order of update deployment.
	<b>NOTE:</b> The Service Pack for ProLiant (which includes HP SUM) can be downloaded from http://www.hp.com/go/spp/download. More information can be found: http://www.hp.com/go/SmartUpdate, http://www.hp.com/go/spp and http://www.hp.com/go/hpsum
HP StoreVirtual VSA	HP StoreVirtual VSA allows you to create fully featured shared storage on a VMware vSphere or Microsoft Hyper-V virtualized server. This server model starting November 2013, includes a limited license for HP StoreVirtual VSA software with 1TB of capacity. To download the license key and StoreVirtual VSA software, visit http://www.hp.com/go/unlockVSA. <b>NOTE:</b> You will need your server serial number in order to complete the registration form.
	Fully functional, capacity-based licenses are available in 4TB, 10TB, and 50TB sizes. For more information and access to the 60-day free trial, visit: http://www.hp.com/go/tryVSA
Security	Power-on password Serial interface control Administrator's password
Warranty	This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details. <b>NOTE:</b> Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html



### **Optional Features**

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 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/iloadvanced
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 (laaS).
	<b>NOTE:</b> For more information, visit: http://www.hp.com/go/matrixoe
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.
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
	HP iLO Advanced HP Matrix Operating Environment HP Cluster Platforms HP HPC Interconnects

### **Optional Features**

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:

	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>Data Replication Software         HP offers array-based and host-based replication software for use in disaster recovery,         testing, application development and reporting.</li> <li>Storage Device Management Software         Maximize your investment in HP storage and networking with software that enables         hardware-specific configuration, performance tuning and connectivity management.</li> <li>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.</li> </ul>			
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 any time. http://www.hp.com/go/insightonline			
HP Proactive Insight experience	Prevent problems with innovative, automated monitoring tools and proactive services. The HP Proactive Insight experience consist 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: http://www.hp.com/go/proactiveinsightexperience			
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, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.			



#### **Optional Features**

For more information on Factory Express services for your specific server model please contact your<br/>sales representative or go to: http://www.hp.com/go/factory-express.HP Simple<br/>ConfiguratorSCE is a guided self-service tool to help sales and non-technical people provide customers with initial<br/>configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use<br/>in your existing ordering processes. If you require "custom" rack configuration or configuration for<br/>products not available in SCE, please contact HP's Customer Business Center or an Authorized Partner<br/>for assistance. http://www.hp.com/products/configurator



#### Service and Support

Service and Support	<b>HP Technology Services for Industry Standard Servers</b> HP Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HP to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.				
	<b>Protect your business beyond warranty with HP Care Pack Services</b> HP Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.				
Optimized Care	Supports maintaining servers at optimum performance availability				
	<b>HP Proactive Care with 6 hour call-to-repair commitment, three year Care Pack Service</b> HP Proactive Care helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. This Care Pack Service combines three years' proactive reporting and advice with our highest level reactive coverage and enhanced escalation management, HP's 24x7, six hour call-to-repair hardware commitment. HP is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. Service includes 24x7 collaborative software support for leading industry standard software running on your HP ProLiant server. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf				
Standard Care	Service recommendation that maintains high level of server availability				
	HP Proactive Care with 24x7 coverage, three year Care Pack Service HP Proactive Care helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. This Care Pack Service combines three years' proactive reporting and advice with our 24x7 coverage and enhanced escalation management, four hour hardware response time and two hour call back for software questions on leading industry standard software running on your HP ProLiant server. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf				
Related Services	HP ProLiant Server Hardware Installation Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf				
	<b>Factory Express for Servers and storage</b> HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed. For more information on Factory Express services for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.				
	<b>Data Privacy Services</b> Protect your data through better media management. HP Data privacy services help manage and protect sensitive data to reduce the risk of unauthorized access to private information and help meet compliance requirements. Our retention services allow you to keep drives and other devices upon failure, our removal services provide convenient data sanitization and our recovery services allow you to safely retire IT assets and capture any remaining value from the hardware. http://www.hp.com/services/dataprivacy				



#### Service and Support Additional HP Care Pack services can be found at: http://www.hp.com/go/cpc Get connected to HP to Prevent problems with innovative, automated monitoring tools and proactive services. Combining Proactive Care Services with our remote support technology such as Insight Online provides you with improve your support experience expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems guickly. For more information, visit: http://www.hp.com/go/proactiveinsightexperience **HP Support Center** Personalized online support portal with access to information, tools and experts to support HP business products. Submit support cases online, chat with HP experts, access support resources or collaborate with peers. Learn more <a href="http://www.hp.com/go/hpsc">http://www.hp.com/go/hpsc</a> 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's Support Center Mobile App is subject to local availability **Parts and Material** HP will provide HP-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements. Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services. The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction For more information To learn more on HP ProLiant servers, please contact your HP sales representative or HP Authorized ServiceOne 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.

#### **Entry Models**

E5-2600 v2 series Process	ors	
HP ProLiant DL360p Gen8 E5-2603v2 1P 4GB-R	Processor(s)	(1) Intel® Xeon® E5-2603 v2 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W) Processor
P420i/ZM 460W PS Entry	Cache Memory	10MB (1x10MB) L3
<b>Server</b> 733732-001	Memory	4GB (1 x 4GB DDR3-1600MHZ RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
	Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/ZM (RAID 0/1/1+0)
	Hard Drive	None ship standard; includes 6 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(1) HP 460W Common Slot Gold Hot Plug Power Supply (92% Efficient)
	Fans	6 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard) Optional: HP iLO Advanced or HP Insight Control
	Form Factor	Rack (1U) NOTE: Includes the Easy Install Rail kit which does allow for in-rack serviceability. The Easy Install Cable Management Arm is optional. 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, 3-Year Labor, 3-Year Onsite support with next business day response
E5-2600 series Processors	5	
HP ProLiant DL360p Gen8 E5-2603 1P 4GB-R P420i		(1) Intel® Xeon® E5-2603 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W) Processor
<b>SFF 460W PS Entry Server</b> 646900-001	Cache Memory	10MB (1x10MB) L3
	Memory	4GB (1 x 4GB DDR3-1333MHz RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
	Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/ZM (RAID 0/1/1+0)
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks



#### **Pre-configured Models**

Internal Storage	Standard: 8 SFF HDD Bays
Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
Power Supply	(1) HP 460W Common Slot Gold Hot Plug Power Supply (92% Efficient)
Fans	6 Hot Plug Redundant Fan Modules
Management	HP iLO Management Engine (standard) Optional: HP iLO Advanced or HP Insight Control
Form Factor	<ul> <li>Rack (1U)</li> <li>NOTE: Includes Rack Mounting Gen8 non-telescoping Friction Rail Kit which does not allow for in rack serviceability. The HP 1U Gen8 Cable</li> <li>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).</li> <li>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.</li> </ul>
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.

### **Base Models**

E5-2600 v2 series Processors		
HP ProLiant DL360p Gen8 E5-2630v2 1P 16GB-R		(1) Intel® Xeon® E5-2630 v2 (2.6GHz/6-core/15MB/7.2GT-s QPI/80W) Processor
P420i/1GB FBWC 460W PS	Cache Memory	15MB (1x15MB) L3
<b>Base Server</b> 733733-001	Memory	16GB (2 x 8GB DDR3-1600MHZ RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
	Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
	Hard Drive	None ship standard; includes 6 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(1) HP 460W Common Slot Platinum Plus Hot Plug Power Supply (94% Efficient)
	Fans	6 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard) Optional: HP iLO Advanced or HP Insight Control
	Form Factor	Rack (1U) NOTE: Includes the Easy Install Rail kit which does allow for in-rack serviceability. The Easy Install Cable Management Arm is optional. 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, 3-Year Labor, 3-Year Onsite support with next business day response

#### **E5-2600 series Processors**



### HP ProLiant DL360p Generation 8 (Gen8)

#### **Pre-configured Models**

HP ProLiant DL360p Gen8	Processor(s)	(1) Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-
E5-2640 1P 16GB-R P420i		1333, HT, Turbo2- 3/3/4/4/5/5) Processor
SFF 460W PS Base Server	depending on model	(1) Intel <sup>®</sup> Xeon <sup>®</sup> E5-2630 (2.3GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-
646902-001	<b>•</b> • •	1333, HT, Turbo2- 3/3/4/4/5/5) Processor
HP ProLiant DL360p Gen8	Cache Memory	15MB (1x15MB) L3
E5-2630 1P 16GB-R P420i		16GB (4 x 4GB DDR3-1333MHz RDIMMs)
SFF 460W PS Base Server 646901-001		<b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
040501-001	Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(1) HP 460W CS Platinum Plus Hot Plug Power Supply (94% Efficient)
	Fans	6 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard)
		Optional: HP iLO Advanced or HP Insight Control
	Form Factor	Rack (1U)
		<b>NOTE:</b> Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit
		which does allow for in rack serviceability. Due to the size and weight of the server two people are required to install the server into the rack. The
		HP 1U Gen8 Cable Management Arm is optional. 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).
		<b>Caution:</b> 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, 3-Year Labor, 3-Year Onsite
	Wallanty	support with next business day response

### **Performance Models**

E5-2600 v2 series Process	sors	
HP ProLiant DL360p Gen8 E5-2650v2 2P 32GB-R		(2) Intel® Xeon® E5-2650 v2 (2.6GHz/8-core/20MB/8.0GT-s QPI/95W) Processor
P420i/2GB FBWC 460W PS	Cache Memory	20MB (1x20MB) L3
<b>Perf Svr</b> 733739-001	Memory	32GB (2 x 16GB DDR3-1866MHZ RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
	Network Controller	HP Ethernet 10Gb 2-port 533FLR Adapter
	Storage Controller	HP Smart Array P420i/2GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
	Hard Drive	None ship standard; includes 6 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 750W Common Slot Platinum Plus Hot Plug Power Supply (94% Efficient)
	Fans	8 Hot Plug Redundant Fan Modules



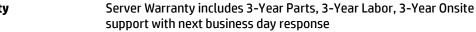
#### **Pre-configured Models**

Management	HP iLO Management Engine (standard) HP Insight Control Standard
Form Factor	Rack (1U) NOTE: Includes the Easy Install Rail kit which does allow for in-rack serviceability. The Easy Install Cable Management Arm is optional. 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, 3-Year Labor, 3-Year Onsite support with next business day response

#### E!

	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response
E5-2600 series Processors	-	
NOTE: These Models are Er	nergy Star Certified.	
Eight-Core Models HP ProLiant DL360p Gen8 E5-2690 2P 32GB-R P420i SFF 750W PS		(2) Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8GT-s QPI/135W, DDR3- 1600, HT, Turbo2- 4/4/4/5/5/7/7/9) Processors (2) Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/8GT-s QPI/95W, DDR3- 1600, HT, Turbo2- 4/4/5/5/5/7/8/8) Processors
Performance Server	Cache Memory	20MB (1x20MB) L3
646905-001 HP ProLiant DL360p Gen8	Memory	32GB (4 x 8GBDDR3-1600MHz RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs
E5-2650 2P 32GB-R P420i		per channel).
SFF 460W PS Performance Server 646904-001	<b>Network Controller</b> One of the following depending on model	HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter (on E5-2690 Model) <b>NOTE:</b> SFP Transceivers for the 530FLR-SFP+ are not included with the server and must be purchased separately. HP Ethernet 1Gb 4-port 331FLR Adapter (on E5-2650 Model)
	Storage Controller	HP Smart Array P420i/2GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	<b>Power Supply</b> One of the following depending on model	(2) HP 750W CS Platinum Plus Hot Plug Power Supplies (94% Efficient) (on E5-2690 Model) (2) HP 460W CS Platinum Plus Hot Plug Power Supplies (94% Efficient) (on E5-2650 Model)
	Fans	8 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard) HP Insight Control Standard
	Energy Star	Meets Energy Star requirements
	Form Factor	<ul> <li>Rack (1U)</li> <li>NOTE: Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit which does allow for in rack serviceability. Due to the size and weight of the server two people are required to install the server into the rack. The HP 1U Gen8 Cable Management Arm is optional. 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).</li> <li>Caution: HP recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation.</li> </ul>

Warranty



### **Pre-configured Models**

#### **Energy Star Models**

E5-2600 v2 series Process	sors	
HP ProLiant DL360p Gen8 E5-2640v2 2P 16GB-R		(2) Intel® Xeon® E5-2640 v2 (2.0GHz/8-core/20MB/7.2GT-s QPI/95W) Processor
P420i/1GB FBWC 460W PS	Cache Memory	20MB (1x20MB) L3
<b>ES Svr</b> 733738-001	Memory	16GB (2 x 8GB DDR3-1600MHZ RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
	Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
	Hard Drive	None ship standard; includes 6 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(1) HP 460W Common Slot Platinum Plus Hot Plug Power Supply (94% Efficient)
	Fans	8 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard) Optional: HP iLO Advanced or HP Insight Control
	Form Factor	Rack (1U) NOTE: Includes the Easy Install Rail kit which does allow for in-rack serviceability. The Easy Install Cable Management Arm is optional. 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, 3-Year Labor, 3-Year Onsite support with next business day response

#### E5-2600 series Processors NOTE: These Models are Energy Star Certified.

	NUTE: These models are Er	lergy Star Certified.	
E5-2630 2P 16GB-R SFF 460W PS Energy Server 677199-001 HP ProLiant DL360p	HP ProLiant DL360p Gen8 E5-2630 2P 16GB-R P420i SFF 460W PS Energy Star	3	<ul> <li>(2) Intel<sup>®</sup> Xeon<sup>®</sup> E5-2630 (2.3GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT, Turbo2-3/3/4/4/5/5) Processors</li> <li>(2) Intel<sup>®</sup> Xeon<sup>®</sup> E5-2603 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W) Processors</li> <li>NOTE: All added memory only runs at 1066MHz speed.</li> </ul>
	HP ProLiant DL360p Gen8	<b>Cache Memory</b> One of the following depending on model	15MB (1x15MB) Level 3 10MB (1x10MB) Level 3
	<b>E5-2603 2P 8GB-R P420i SFF 460W PS Energy Star Server</b> 677198-001	Memory	16GB (4 x 4GB DDR3-1333MHz LVRDIMMs) (on E5-2630 Model) 8GB (2 x 4GB DDR3-1333MHz LVRDIMMs) (on E5-2603 Model) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
		Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
		Storage Controller	HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0) (on E5-2630 Model)
			HP Smart Array P420i/ZM (RAID 0/1/1+0) (on E5-2603 Model)
		Hard Drive	None ship standard; includes 7 SFF hard drive blanks
		Internal Storage	Standard: 8 SFF HDD Bays
		Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)



#### **Pre-configured Models**

	PCI-Express Slots	2 standard(1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(1) HP 460W CS Platinum Plus Hot Plug Power Supply (94% Efficient)
	Fans	8 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard) Optional: HP Insight Control
	Energy Star	Meets Energy Star requirements
	Form Factor	Rack (1U) <b>NOTE:</b> Includes Rack Mounting Gen8 telescoping SFF Ball Bearing Rail Kit which does allow for in rack serviceability. Due to the size and weight of the server two people are required to install the server into the rack. The HP 1U Gen8 Cable Management Arm is optional. 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). <b>Caution:</b> 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, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2697v2 2P	Processor	(2) Intel® Xeon® E5-2697 v2 (2.7GHz/12-core/30MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2- 3/3/3/3/3/3/3/4/5/6/7/8)
32GB-R P420i/1GB FBWC	Cache Memory	30MB (1x30MB) Level 3
<b>750W RPS Server</b> 748592-001	Memory	32GB (2 x 16GB DDR3-1866MHZ RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
	Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 750W CS Platinum Plus Hot Plug Power Supply (94% Efficient)
	Fans	8 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard) Optional: HP Insight Control
	Form Factor	Rack (1U) <b>NOTE:</b> Includes the Easy Install Rail kit which does allow for in-rack serviceability. The Easy Install Cable Management Arm is optional. 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, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2690v2 2P	Processor	(2) Intel® Xeon® E5-2690 v2 (3.0GHz/10-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2- 3/3/3/3/3/3/3/4/5/6)
32GB-R P420i/1GB	Cache Memory	25MB (1x25MB) Level 3
<b>FBWC 750W RPS Server</b> 748591-001	Memory	32GB (2 x 16GB DDR3-1866MHZ RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).



#### **Pre-configured Models**

	Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 750W CS Platinum Plus Hot Plug Power Supply (94% Efficient)
	Fans	8 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard) Optional: HP Insight Control
	Form Factor	Rack (1U) <b>NOTE:</b> Includes the Easy Install Rail kit which does allow for in-rack serviceability. The Easy Install Cable Management Arm is optional. 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, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2670v2 2P	Processor	(2) Intel® Xeon® E5-2670 v2 (2.5GHz/10-core/25MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2- 4/4/4/4/4/4/5/6/7/8)
32GB-R P420i/1GB	Cache Memory	25MB (1x25MB) Level 3
FBWC 750W RPS Server 748590-001	Memory	32GB (2 x 16GB DDR3-1866MHZ RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs per channel).
	Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
	Hard Drive	None ship standard; includes 7 SFF hard drive blanks
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 750W CS Platinum Plus Hot Plug Power Supply (94% Efficient)
	Fans	8 Hot Plug Redundant Fan Modules
	Management	HP iLO Management Engine (standard) Optional: HP Insight Control
	Form Factor	Rack (1U) <b>NOTE:</b> Includes the Easy Install Rail kit which does allow for in-rack serviceability. The Easy Install Cable Management Arm is optional. 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, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2640v2 1P	Processor	Intel® Xeon® E5-2640 v2 (2.0GHz/8-core/20MB/7.2GT-s QPI/95W, DDR3- 1600, HT, Turbo2- 3/3/3/3/3/4/5)
16GB-R P420i/1GB	Cache Memory	20MB (1x20MB) Level 3
FBWC 460W PS Server 748589-001	Memory	16GB (1 x 16GB DDR3-1600MHZ RDIMMs) <b>NOTE:</b> 24 (12 DIMM slots per processor /4 channels per processor/3 DIMMs



### **Pre-configured Models**

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Network Controller	HP Ethernet 1Gb 4-port 331FLR Adapter
Storage Controller	HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
Hard Drive	None ship standard; includes 7 SFF hard drive blanks
Internal Storage	Standard: 8 SFF HDD Bays
Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
Power Supply	HP 460W CS Platinum Plus Hot Plug Power Supply (94% Efficient)
Fans	6 Hot Plug Redundant Fan Modules
Management	HP iLO Management Engine (standard) Optional: HP Insight Control
Form Factor	Rack (1U) NOTE: Includes the Easy Install Rail kit which does allow for in-rack serviceability. The Easy Install Cable Management Arm is optional. 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, 3-Year Labor, 3-Year Onsite support with next business day response.

HP ProLiant DL360p	Processor	Intel® Xeon® E5-2609 v2 (2.5GHz/4-core/10MB/6.4GT-s QPI/80W)
Gen8 E5-2609v2 SFF	Cache Memory	10MB (1x10MB) Level 3
<b>Svr/S-Buy</b> 737290-S01	Memory	8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory
	Network Controller	HP FlexLOM 1Gb 4-port 331FLR Ethernet Adapter
	Storage Controller	HP Smart Array P420i/ZM (RAID 0/1/1+0)
	Hard Drive	None ship standard
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	HP 460W CS Platinum Plus Hot Plug Power Supply
	Fans	6 Hot Plug Redundant Fans
	Management	iLO Management Engine Standard
	Form Factor	Rack (1U); Includes Easy Install Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite
		support with next business day response.
HP ProLiant DL360p Gen8 E5-2620v2 SFF	Processor	Intel® Xeon® E5-2620 v2 (2.1GHz/6-core/15MB/7.2GT-s QPI/80W, DDR3- 1600, HT, Turbo2- 3/3/3/3/4/5)
Svr/S-Buy	Cache Memory	15MB (1x15MB) Level 3
737291-S01	Memory	16GB (2 x 8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS- 11 Low Voltage Memory
	Network Controller	HP FlexLOM 1Gb 4-port 331FLR Ethernet Adapter
	Storage Controller	HP Smart Array P420i/512MB FBWC
	Hard Drive	None ship standard
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 460W CS Platinum Plus Hot Plug Redundant Power Supplies
	Fans	6 Hot Plug Redundant Fans
	Management	iLO Management Engine Standard
	Form Factor	Rack (1U); Includes Easy Install Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2630 v2 1P SFF	Processor	Intel® Xeon® E5-2630 v2 (2.6GHz/6-core/15MB/7.2GT-s QPI/80W, DDR3- 1600, HT, Turbo2- 3/3/3/3/4/5)
Svr/S-Buy	Cache Memory	15MB (1x15MB) Level 3
748300-S01	Memory	16GB (1x16GB) PC3L-12800R (DDR3-1600) Registered DIMMS
	Network Controller	One HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/with 512MB FBWC (RAID 0/1/1+0/5/5+0)
	Hard Drive	None ship standard
	Internal Storage	Standard: 8 SFF SAS/SATA HDD Bays
	Optical Drive Bay	Optional Slim Optical Bay (SATA DVD-RW /ROM Optical Drive)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0



	Power Supply Fans Management Form Factor Warranty	(2) HP 460W CS Platinum Plus Hot Plug Redundant Power Supplies 6 Hot Plug Redundant Fans iLO Management Engine Standard Rack (1U); Includes Easy Install Rail Kit Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2640v2 2P SFF	Processor	(2) Intel® Xeon® E5-2640 v2 (2.0GHz/8-core/20MB/7.2GT-s QPI/95W, DDR3-1600, HT, Turbo2- 3/3/3/3/3/4/5)
<b>Svr/S-Buy</b> 737292-S01	Cache Memory	20MB (1x20MB) Level 3
131292-301	Memory	16GB (2 x 8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS- 11 Low Voltage Memory
	Network Controller	HP FlexLOM 1Gb 4-port 331FLR Ethernet Adapter
	Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)
	Hard Drive	None ship standard
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 460W CS Platinum Plus Hot Plug Redundant Power Supplies
	Fans	8 Hot Plug Redundant Fans
	Management	iLO Management Engine Standard
	Form Factor	Rack (1U); Includes Easy Install Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2660v2 2P SFF	Processor	(2) Intel® Xeon® E5-2660 v2 (2.2GHz/10-core/25MB/8.0GT-s QPI/95W, DDR3-1866, HT, Turbo2- 4/4/4/4/4/4/5/6/7/8)
Svr/S-Buy	Cache Memory	25MB (1x25MB) Level 3
737293-S01	Memory	32GB (2 x 16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS- 13 Memory Kit
	Network Controller	HP Ethernet 10Gb 2-port 533FLR Adapter
	Storage Controller	HP Smart Array P420i/2GB with FBWC (RAID 0/1/1+0/5/5+0)
	Hard Drive	None ship standard
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 750W CS Platinum Plus Hot Plug Redundant Power Supplies
	Fans	8 Hot Plug Redundant Fans
	Management	iLO Management Engine Standard ; Also includes HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License
	Form Factor	Rack (1U); Includes Easy Install Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2670 v2 2P SFF	Processor(s)	(2) Intel® Xeon® E5-2670 v2 (2.5GHz/10-core/25MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2- 4/4/4/4/4/4/5/6/7/8)
Svr/S-Buy	Cache Memory	25MB (1x25MB) Level 3



748301-S01	Memory	32GB (2x16GB) PC3-14900R (DDR3-1866) Registered DIMMS
10201-301	Network Controller	One HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)
	Hard Drive	None ship standard
	Internal Storage	
	-	Standard: 8 SFF SAS/SATA HDD Bays
	Optical Drive Bay	Optional Slim Optical Bay (SATA DVD-RW /ROM Optical Drive)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 750W CS Platinum Plus Hot Plug Redundant Power Supplies
	Fans	8 Hot Plug Redundant Fans
	Management	iLO Management Engine Standard
	Form Factor	Rack (1U); Includes Easy Install Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2680v2 2P SFF	Processor	(2) Intel® Xeon® E5-2680 v2 (2.8GHz/10-core/25MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2- 3/3/3/3/3/4/5/6/7/8)
Svr/S-Buy	Cache Memory	25MB (1x25MB) Level 3
785091-S01	Memory	64GB (4 x 16GB) DDR3-1866MHz RDIMMs
	Network Controller	HP FlexLOM 1Gb 4-port 331FLR Ethernet Adapter
	Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)
	Hard Drive	Includes (2) HP 80GB 6G SATA VE SFF EB SSD (for boot)
	Internal Storage	Up to 8 SFF
	Optical Drive Bay	None included (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 460W CS Platinum Plus Hot Plug Redundant Power Supplies
	Fans	8 Hot Plug Redundant Fans
	Management	iLO Management Engine Standard
		Includes Insight Control License
	Form Factor	Rack (1U); Includes 1U SFF BB Gen8 Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2690 v2 2P SFF	Processor(s)	(2) Intel® Xeon® E5-2690 v2 (3.0GHz/10-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2- 3/3/3/3/3/3/3/4/5/6)
Svr/S-Buy	Cache Memory	25MB (1x25MB) Level 3
748302-S01	Memory	32GB (2x16GB) PC3-14900R (DDR3-1866) Registered DIMMS
	Network Controller	One HP Ethernet 1Gb 4-port 331FLR Adapter
	Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)
	Hard Drive	None ship standard
	Internal Storage	Standard: 8 SFF SAS/SATA HDD Bays
	Optical Drive Bay	Optional Slim Optical Bay (SATA DVD-RW /ROM Optical Drive)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 750W CS Platinum Plus Hot Plug Redundant Power Supplies
	Fans	8 Hot Plug Redundant Fans
	Fans Management	iLO Management Engine Standard



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	Power Supply Fans Management Form Factor Warranty	(2) HP 460W CS Platinum Plus Hot Plug Redundant Power Supplies 8 Hot Plug Redundant Fans iLO Management Engine Standard Rack (1U); Includes 1U SFF BB Gen8 Rail Kit Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2660 2P SFF	Processor	(2) Intel® Xeon® E5-2660 (2.20GHz/8-core/20MB/8GT-s QPI/95W, DDR3- 1600, HT, Turbo2- 5/5/6/6/7/7/8/8)
Svr/S-Buy	Cache Memory	20MB (1x20MB) Level 3
670635-S01	Memory	32GB (4 x 8GB DDR3-1333MHz Low Voltage RDIMMs)
	Network Controller	HP FlexLOM 1Gb 4-port 331FLR Ethernet Adapter
	Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)
	Hard Drive	None ship standard
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 460W CS Platinum Plus Hot Plug Redundant Power Supplies
	Fans	8 Hot Plug Redundant Fans
	Management	iLO Management Engine Standard Also includes HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License
	Form Factor	Rack (1U); Includes 1U SFF BB Gen8 Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2670 2P SFF	Processor	(2) Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/8GT-s QPI/115W, DDR3- 1600, HT, Turbo2- 4/4/5/5/6/6/7/7)
Svr/S-Buy	Cache Memory	20MB (1x20MB) Level 3
742816-S01	Memory	32GB (4 x 8GB DDR3-1600MHzRDIMMs)
	Network Controller	HP FlexLOM 1Gb 4-port 331FLR Ethernet Adapter
	Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)
	Hard Drive	None ship standard
	Internal Storage	Standard: 8 SFF HDD Bays
	Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
	PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
	Power Supply	(2) HP 460W CS Platinum Plus Hot Plug Redundant Power Supplies
	Fans	8 Hot Plug Redundant Fans
	Management	iLO Management Engine Standard
	Form Factor	Rack (1U); Includes 1U SFF BB Gen8 Rail Kit
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL360p Gen8 E5-2690 2P SFF	Processor	(2) Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8GT-s QPI/135W, DDR3- 1600, HT, Turbo2- 4/4/4/5/5/7/7/9)
Svr/S-Buy	Cache Memory	20MB (1x20MB) Level 3
742817-S01	Memory	32GB (4 x 8GB DDR3-1600MHzRDIMMs)



### HP ProLiant DL360p Generation 8 (Gen8)

## QuickSpecs

Network Controller	HP FlexLOM 1Gb 4-port 331FLR Ethernet Adapter
Storage Controller	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)
Hard Drive	None ship standard
Internal Storage	Standard: 8 SFF HDD Bays
Optical Drive Bay	1 (Optional: DVD-ROM, DVD-RW)
PCI-Express Slots	2 standard (1-FH/HL, 1-LP) PCIe 3.0
Power Supply	(2) HP 750W CS Platinum Plus Hot Plug Redundant Power Supplies
Fans	8 Hot Plug Redundant Fans
Management	iLO Management Engine Standard
Form Factor	Rack (1U); Includes 1U SFF BB Gen8 Rail Kit
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.



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

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

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

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

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

HP ProLiant DL360p Gen8 4 LFF Configure-to-order Server

**HP Models** 

#### **Factory Integrated Model ships with:**

655651-B21

654081-B21

2 x HP Smart Socket Guides for fast processor installation Drive Cage - 4-Large Form Factor 24 DIMM slots for RDIMM. LRDIMM.UDIMM and HDIMM SmartMemory installation (1) FlexibleLOM connection point: (see Step2: HP FlexibleLOM NIC section below for NIC choices to populate the embedded connector) Smart Array P420i Controller (Cache connection for 512MB, 1GB and 2GB FBWC options)

I/O slots - 2 Slots come standard:

- Slot 1 Low Profile x 8 PCIe 3.0 •
- Slot 2 Full-Height/Half-Length x 16 PCIe 3.0 •

System Fans - 6 (2 additional fans included with second processor) USB - 4 Rear, 2 Front, 1 Internal 1 Internal SD slot On System Server Management - (HP iLO Management Engine) (embedded) SID - System Insight Display(Active Health Indicator) Power Supply not included - choose from Power Options section NOTE: With new options available for Networking solutions and Rack Rail Kits these options are no longer standard on-board with this Model Part Number. Please see the Networking and HP Rack Options below for optional required options. HP ProLiant DL360p Gen8 8 SFF Configure-to-order Server

**Factory Integrated Model ships with:** 

2 x HP Smart Socket Guides for fast processor installation Drive Cage - 8-Small Form Factor 24 DIMM slots for RDIMM, LRDIMM, UDIMM and HDIMM SmartMemory installation (1) FlexibleLOM connection point: (see Step2: HP FlexibleLOM NIC section below for NIC choices to populate the embedded connector) Smart Array P420i Controller (Cache connection for 512MB, 1GB and 2GB FBWC options) I/O slots - 2 Slots come standard:

- Slot 1 Low Profile x 8 PCIe 3.0 •
- Slot 2 Full-Height/Half-Length x 16 PCIe 3.0

System Fans - 6 (2 additional fans included with second processor) USB - 4 Rear, 2 Front, 1 Internal 1 Internal SD slot On System Server Management Processor - HP iLO 4 (embedded) SID - System Insight Display(Active Health Indicator) Power Supply not included - choose from Power Options section



**NOTE:** With new options available for Networking solutions and Rack Rail Kits these options are no longer standard on-board with this Model Part Number. Please see the Networking and HP Rack Options below for optional required options. HP ProLiant DL360p Gen8 10 SFF Configure-to-order Server

666532-B21

#### Factory Integrated Model ships with:

2 x HP Smart Socket Guides for fast processor installation Drive Cage - 10-Small Form Factor **NOTE:** The 10 SFF drive cage requires cache with the P420i order to function properly. 24 DIMM slots for RDIMM, UDIMM and HDIMM SmartMemory installation

**NOTE:** LRDIMMs cannot be used in the 10 SFF drive configuration. (1) FlexibleLOM connection point: (see Step2: HP FlexibleLOM NIC section below for NIC choices to populate the embedded connector)

Smart Array P420i Controller (Cache connection for 512MB, 1GB and 2GB FBWC options)

**NOTE:** A cache module is required for the P420i when used with the 10 SFF drive cage.

I/O slots - 2 Slots come standard:

- Slot 1 Low Profile x 8 PCIe 3.0
- Slot 2 Full-Height/Half-Length x 16 PCIe 3.0

System Fans - 6 (2 additional fans included with second processor) USB - 4 Rear, 2 Front, 1 Internal 1 Internal SD slot On System Server Management Processor - HP iLO 4 (embedded) SID - System Insight Display(Active Health Indicator) Power Supply not included - choose from Power Options section **NOTE:** With new options available for Networking solutions and Rack Rail Kits these options are no longer standard on-board with this Model Part Number. Please see the Networking and 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	<b>NOTE:</b> If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21 <b>NOTE</b> : The first processor selected should be the xxxxxx-L21 part	
	FIO Entry Processors - E5-2600 v2 series Processors NOTE: All support up to 1333MHz memory speeds.	
	NOTE: Is a FIO (Factory integrated option) only	
	HP DL360p Gen8 Intel® Xeon® E5-2609v2 (2.5GHz/4-core/10MB/80W) FIO Processor Kit	712741-L21
	HP DL360p Gen8 Intel® Xeon® E5-2603v2 (1.8GHz/4-core/10MB/80W) FIO Processor Kit	712743-L21
	FIO Base Processors - E5-2600 v2 series Processors NOTE: All support up to1600MHz DDR3 memory speeds.	
	NOTE: Is a FIO (Factory integrated option) only	
	HP DL360p Gen8 Intel® Xeon® E5-2640v2 (2.0GHz/8-core/20MB/95W) FIO Processor Kit	712731-L21
	HP DL360p Gen8 Intel® Xeon® E5-2630v2 (2.6GHz/6-core/15MB/80W) FIO Processor Kit	712733-L21
	HP DL360p Gen8 Intel® Xeon® E5-2620v2 (2.1GHz/6-core/15MB/80W) FIO Processor	712735-L21



Kit		
HP DL360 Processo	0p Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) FI0 r Kit	712779-L21
HP DL360 Processo	0p Gen8 Intel® Xeon® E5-2630Lv2 (2.4GHz/6-core/15MB/60W) FI0 r Kit	712781-L21
	ormance Processors - E5-2600 v2 series Processors I support up to 1866MHz DDR3 memory speeds	
NOTE: Is	a FIO (Factory integrated option) only	
HP DL360 Processo	Dp Gen8 Intel® Xeon® E5-2697v2 (2.7GHz/12-core/30MB/130W) FIO r Kit	712745-L21
HP DL360 Processo	0p Gen8 Intel® Xeon® E5-2695v2 (2.4GHz/12-core/30MB/115W) FI0 r Kit	712771-L21
HP DL360 Processo	0p Gen8 Intel® Xeon® E5-2690v2 (3.0GHz/10-core/25MB/130W) FI0 r Kit	712504-L21
HP DL360 Processo	0p Gen8 Intel® Xeon® E5-2680v2 (2.8GHz/10-core/25MB/115W) FI0 r Kit	712506-L21
HP DL360 Processo	0p Gen8 Intel® Xeon® E5-2670v2 (2.5GHz/10-core/25MB/115W) FI0 r Kit	712508-L21
HP DL360 Processo	0p Gen8 Intel® Xeon® E5-2667v2 (3.3GHz/8-core/25MB/130W) FI0 r Kit	712773-L21
HP DL360 Processo	Dp Gen8 Intel® Xeon® E5-2660v2 (2.2GHz/10-core/25MB/95W) FIO r Kit	712724-L21
HP DL360 Processo	Dp Gen8 Intel® Xeon® E5-2643v2 (3.5GHz/6-core/25MB/130W) FIO r Kit	712775-L21
HP DL360 Kit	Dp Gen8 Intel® Xeon® E5-2650v2 (2.6GHz/8-core/20MB/95W) FIO Processor	712726-L21
HP DL360 Processo	Dp Gen8 Intel® Xeon® E5-2637v2 (3.5GHz/4-core/15MB/130W) FIO r Kit	712777-L21
	Processors - E5-2600 series Processors with screwdown heatsinks support up to1333MHz DDR3 memory speeds.	
NOTE: Is	a FIO (Factory integrated option) only	
HP DL360 Processo	Dp Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Screwdown FIO r Kit	745736-L21
FIO Perfo heatsink	ormance Processors - E5-2600 series Processors with screwdown s	
	support up to 1600MHz DDR3 memory speeds.	
NOTE: Is	a FIO (Factory integrated option) only	
HP DL360 Processo	0p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) Screwdown FIO r Kit	745742-L21
	<b>Processors - E5-2600 series Processors with caged heatsinks</b> support up to1333MHz DDR3 memory speeds.	
NOTE: Is	a FIO (Factory integrated option) only	
HP DL360 Kit	Dp Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) FIO Processor	654782-L21
	ormance Processors - E5-2600 series Processors with caged heatsinks I support up to 1600MHz DDR3 memory speeds.	
NOTE: Is	a FIO (Factory integrated option) only	
HP DL360 Kit	Dp Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor	654786-L21



#### **HP Memory**

**NOTE:** HP memory from previous generation servers are not gualified or warranted with this HP ProLiant Server. HP SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen8. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/guickspecs/14225 na/14225 na.html NOTE: LRDIMM, RDIMM, and UDIMM, and HDIMMs are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen8 servers support LRDIMM, RDIMM and UDIMMs. **Registered DIMMs (RDIMMs) NOTE:** The following memory is supported by the E5-2600 v2 series Processors. HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low 713981-B21 Voltage Memory Kit HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 708637-B21 Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low 713983-B21 Voltage Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low 731765-B21 Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory 708639-B21 Kit HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 731761-B21 Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low 713985-B21 Voltage Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 708641-B21 Memory Kit Registered DIMMs (RDIMMs) **NOTE:** The following memory is supported by the E5-2600 series Processors. HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low 647893-B21 Voltage Memory Kit HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 647895-B21 Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low 647897-B21 Voltage Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 647899-B21 Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory 690802-B21 Kit HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low 647901-B21 Voltage Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 672631-B21 Memory Kit Unbuffered with ECC DIMMs (UDIMMs) **NOTE:** The following memory is supported by the E5-2600 v2 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low 713975-B21 Voltage Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 708631-B21 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low 713977-B21 Voltage Memory Kit



HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708633-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713979-B21
HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708635-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 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)	
<b>NOTE:</b> The following memory is supported by the E5-2600 v2 series Processors. HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13	708643-B21
Memory Kit	700045-021
Load Reduced DIMMs (LRDIMMs)	
<b>NOTE:</b> The following memory is supported by the E5-2600 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: http://www.hp.com/go/ddr3memory-configurator.	
<b>NOTE:</b> Kits described as LP include Low Power DIMMs. For more information on	
ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy- efficient	
NOTE: PC3L is a low voltage memory	
FlexibleLOM Adapters NOTE: The HP ProLiant DL360p Gen8 server requires one FlexibleLOM to be installed	
in the FlexibleLOM slot. The choice is one of the from the "HP Networking" or "HP	
InfiniBand" sections. The FlexibleLOM Adapters in these two sections are Factory	
Integrated Options (FIO) only since this server requires a FlexibleLOM in the	
configuration. The FlexibleLOM Adapters listed in Step 4 are for upgrades or changes from the original FlexibleLOM and the part numbers are different.	
<b>NOTE:</b> FLR Indicates new HP FlexibleLOM Adapter for rack server series.	
HP Ethernet 1Gb 4-port 331FLR FIO Adapter	684208-B21
HP Ethernet 10Gb 2-port 530FLR-SFP+ FIO Adapter	684210-B21
HP FlexFabric 10Gb 2-port 554FLR-SFP+ FIO Adapter	684213-B21
HP Ethernet 1Gb 4-port 366FLR FIO Adapter	684217-B21
HP Ethernet 10Gb 2-port 560FLR-SFP+ FIO Adapter	684218-B21
HP FlexFabric 10Gb 2-port 526FLR-SFP+ FIO Adapter	684219-B21
HP Ethernet 10Gb 2-port 561FLR-T FIO Adapter	700700-B21



**HP** Networking

	HP FlexFabric 10Gb 2-port 534FLR-SFP+ FIO Adapter	700752-B21
	HP FlexFabric 10Gb 2-port 533FLR-T FIO Adapter	700760-B21
	HP Ethernet 10Gb 2-port 570FLR-SFP+ FIO Adapter	717492-B21
	HP Ethernet 10Gb 2-port 571FLR-SFP+ FIO Adapter	728993-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information: http://www.hp.com/go/ProLiantNICs.	
HP InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-B21
	HP Infiniband FDR/Ethernet 10Gb/40Gb 2-port 544FLR-QSFP Adapter	649282-B21
	HP Infiniband QDR/Ethernet 10Gb 2-port 544FLR-QSFP Adapter	649283-B21
	<b>NOTE:</b> 10Gb Ethernet requires the use of the QSFP to SFP+ adapter P/N 655874-B21. <b>NOTE:</b> Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_na/13078_na.html	
HP Power Supplies	<b>NOTE:</b> 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.	
	<b>NOTE:</b> 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: http://www.hp.com/go/hppoweradvisor.	
	HP Common Slot Titanium Power Supply Kits	
	<b>NOTE:</b> 96% efficiency with support for HP Power Discovery Services.	
	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 94% Efficiency with 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 Platinum Power Supplies NOTE: The following Power Supplies offer 94% Efficiency with no support for HP Power Discovery Services.	
	HP 460W Common Slot Platinum Hot Plug Power Supply Kit	739252-B21
	HP 750W Common Slot Platinum Hot Plug Power Supply Kit	739254-B21
	HP Common Slot Gold Power Supplies NOTE: The following Power Supplies offer up to 92% efficiency	
	HP 460W CS Gold Ht Plg 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 <b>NOTE:</b> 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
	HP Common Slot 277VAC Power Supplies NOTE: 94% efficiency.	
	HP 500W Common Slot 277VAC Hot Plug Power Supply Kit	717362-B21
	HP 750W Common Slot 277VAC Hot Plug Power Supply Kit	717364-B21
	NOTE: Option Kits for AC power supplies include the power supply and one PDU IEC	



	cable.	
	<b>NOTE:</b> 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 http://www.hp.com/products/powercords	
	<b>NOTE:</b> Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_na/14209_na.html	
Step 3: Choose Ad	ditional Factory Integratable Options	
HP Rack Kits	<ul> <li>NOTE: Gen8 rail kits have changed significantly from prior generation rail kits.</li> <li>Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen8 server.</li> <li>NOTE: Rail kits are optional for Gen8 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit.</li> <li>NOTE: See HP Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.</li> <li>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.</li> <li>HP 1U FIO Friction Rail Kit</li> <li>NOTE: Kit contains non-telescoping friction rails which do not allow for in rack serviceability. The HP 1U Gen8 Cable Management Arm is not available when using Friction Rails.</li> <li>Caution: HP recommends that a minimum of two people is required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.</li> </ul>	663200-B21
HP Insight Software	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License	C6N36A C6N36ABE
Converged Infrastructu Management Software	re HP OneView with iLO Advanced - Server hardware required on same purchase order HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic	E5Y43A

#### **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. To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Contact your local sales representative for additional information. **HP Unique Options** HP DL360 Gen8 Front Video Adapter Kit 655915-B21 **HP Processors** NOTE: Customers who have DL360p Gen8 servers with E5-2600 processors and want to upgrade to E5-2600v2 processors will need to contact their HP representative for a list of SKUs that are compatible with that system. **NOTE:** If two processors are desired, select the second from the xxxxxx-B21 below. Entry Processors - E5-2600 v2 series Processor kits **NOTE:** All support up to 1333MHz memory speeds. HP DL360p Gen8 Intel® Xeon® E5-2609v2 (2.5GHz/4-core/10MB/80W) Processor Kit 712741-B21 HP DL360p Gen8 Intel® Xeon® E5-2603v2 (1.8GHz/4-core/10MB/80W) Processor Kit 712743-B21 Base Processors - E5-2600 v2 series Processor kits **NOTE:** All support up to1600MHz DDR3 memory speeds. HP DL360p Gen8 Intel<sup>®</sup> Xeon<sup>®</sup> E5-2640v2 (2.0GHz/8-core/20MB/95W) Processor Kit 712731-B21 HP DL360p Gen8 Intel® Xeon® E5-2630v2 (2.6GHz/6-core/15MB/80W) Processor Kit 712733-B21 HP DL360p Gen8 Intel® Xeon® E5-2620v2 (2.1GHz/6-core/15MB/80W) Processor Kit 712735-B21 HP DL360p Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) Processor 712779-B21 Kit HP DL360p Gen8 Intel® Xeon® E5-2630Lv2 (2.4GHz/6-core/15MB/60W) Processor 712781-B21 Kit Performance Processors - E5-2600 v2 series Processor kits **NOTE:** All support up to 1866MHz DDR3 memory speeds. HP DL360p Gen8 Intel® Xeon® E5-2697v2 (2.7GHz/12-core/30MB/130W) Processor 712745-B21 Kit HP DL360p Gen8 Intel® Xeon® E5-2695v2 (2.4GHz/12-core/30MB/115W) Processor 712771-B21 Kit HP DL360p Gen8 Intel<sup>®</sup> Xeon<sup>®</sup> E5-2690v2 (3.0GHz/10-core/25MB/130W) Processor 712504-B21 Kit HP DL360p Gen8 Intel® Xeon® E5-2680v2 (2.8GHz/10-core/25MB/115W) Processor 712506-B21 Kit HP DL360p Gen8 Intel® Xeon® E5-2670v2 (2.5GHz/10-core/25MB/115W) Processor 712508-B21 Kit HP DL360p Gen8 Intel® Xeon® E5-2667v2 (3.3GHz/8-core/25MB/130W) Processor 712773-B21 Kit HP DL360p Gen8 Intel<sup>®</sup> Xeon<sup>®</sup> E5-2660v2 (2.2GHz/10-core/25MB/95W) Processor 712724-B21 Kit HP DL360p Gen8 Intel® Xeon® E5-2643v2 (3.5GHz/6-core/25MB/130W) Processor 712775-B21 Kit HP DL360p Gen8 Intel<sup>®</sup> Xeon<sup>®</sup> E5-2650v2 (2.6GHz/8-core/20MB/95W) Processor Kit 712726-B21 HP DL360p Gen8 Intel<sup>®</sup> Xeon<sup>®</sup> E5-2637v2 (3.5GHz/4-core/15MB/130W) Processor 712777-B21 Kit **HP Memory** NOTE: HP memory from previous generation servers are not qualified or warranted with this HP ProLiant Server. HP SmartMemory is required to realize the memory

with this HP ProLiant Server. HP SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen8. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225\_na/14225\_na.html NOTE: LRDIMM, RDIMM, and UDIMM, and HDIMMs are all distinct memory



	es and cannot be mixed within a server. The majority of ProLiant Gen8 port LRDIMM, RDIMM and UDIMMs.	
	DIMMs (RDIMMs)	
	following memory is supported by the E5-2600 v2 series Processors.	712001 021
Voltage Me	-	713981-B21
HP 4GB (1x4 Memory Kit	4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	708637-B21
HP 8GB (1x8 Voltage Me	BGB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low mory Kit	713983-B21
HP 8GB (1x8 Voltage Mei	BGB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low mory Kit	731765-B21
-	BGB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory	708639-B21
HP 8GB (1x8 Memory Kit	BGB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	731761-B21
-	x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low	713985-B21
2	x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	708641-B21
-	DIMMs (RDIMMs)	
	following memory is supported by the E5-2600 series Processors.	
HP 4GB (1x4 Voltage Me	4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low mory Kit	647893-B21
HP 4GB (1x4 Memory Kit	4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11	647895-B21
HP 8GB (1x8 Voltage Me	BGB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low mory Kit	647897-B21
HP 8GB (1x8 Memory Kit	BGB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11	647899-B21
HP 8GB (1x8 Kit	BGB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory	690802-B21
HP 16GB (1) Voltage Me	x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low mory Kit	647901-B21
HP 16GB (1) Memory Kit	x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11	672631-B21
	l with ECC DIMMs (UDIMMs)	
	following memory is supported by the E5-2600 v2 series Processors.	
Voltage Me	-	713975-B21
Memory Kit		708631-B21
HP 4GB (1x4 Voltage Me	4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low mory Kit	713977-B21
HP 4GB (1x4 Kit	4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory	708633-B21
HP 8GB (1x8 Voltage Me	BGB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low mory Kit	713979-B21
HP 8GB (1x8	BGB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory	708635-B21



	Kit <b>Unbuffered with ECC DIMMs (UDIMMs)</b> <b>NOTE:</b> The following memory is supported by the E5-2600 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 the E5-2600 v2 series Processors.	
	HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit	708643-B21
	Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors.	
	HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
	<ul> <li>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: http://www.hp.com/go/ddr3memory-configurator.</li> <li>NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy-efficient</li> <li>NOTE: PC3L is a low voltage memory</li> </ul>	
HP Memory	<b>NOTE:</b> HP memory from previous generation servers are not qualified or warranted with this HP ProLiant Server. HP SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen8. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_na/14225_na.html <b>NOTE:</b> LRDIMM, RDIMM and UDIMMs are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen8 servers support RDIMM, UDIMM and LRDIMM.	
	<b>Registered DIMMs (RDIMMs)</b> <b>NOTE:</b> The following memory is supported by the E5-2600 v2 series Processors.	
	HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713981-B21
	HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit/S-Buy	731981-S21
	HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708637-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit/S-Buy	708637-S21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713983-B21



#### HP ProLiant DL360p Generation 8 (Gen8)

## QuickSpecs

HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	731765-B21
HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 LP Memory Kit/S-Buy	731765-S21
HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708639-B21
HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	731761-B21
HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit/S-Buy	731761-S21
HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713985-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 LP Memory Kit/S-Buy	713985-S21
HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708641-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit/S-Buy	708641-S21
Registered DIMMs (RDIMMs)	
<b>NOTE:</b> The following memory is supported by the E5-2600 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 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit/S-Buy	647893-S21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800 (DDR3-1600) Reg CAS-11 Memory Kit/S- Buy	647895-S21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit/S-Buy	647897-S21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit S-Buy	647899-S21
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit/S-Buy	647901-S21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit S-Buy	672631-S21
Unbuffered with ECC DIMMs (UDIMMs)	
NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low	713975-B21



### HP ProLiant DL360p Generation 8 (Gen8)

## QuickSpecs

Voltage Memory Kit	
HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708631-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713977-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 LP Memory Kit/S-Buy	713977-S21
HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708633-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit/S-Buy	708633-521
HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713979-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 LP Memory Kit/S-Buy	713979-521
HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708635-B21
Unbuffered with ECC DIMMs (UDIMMs)	
<b>NOTE:</b> The following memory is supported by the E5-2600 series Processors.	CC0220 D21
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 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit/S-Buy	647907-S21
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)	
<b>NOTE:</b> The following memory is supported by the E5-2600 v2 series Processors.	700642 821
HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit	708643-B21
HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit/S-Buy	708643-S21
Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors.	
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
<b>NOTE:</b> 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: http://www.hp.com/go/ddr3memory-configurator.	
<b>NOTE:</b> Kits described as LP include Low Power DIMMs. For more information on	
ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy- efficient NOTE: PC3L is a low voltage memory	



HP Optical Drives	HP 9.5mm SATA DVD-ROM JackBlack Optical Drive HP 9.5mm SATA DVD-RW JackBlack Optical Drive	652238-B21 652241-B21
		032241-821
HP Hard Drives	<b>NOTE:</b> The HP ProLiant DL360p 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".	
	<b>NOTE:</b> 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.	
	<b>NOTE:</b> Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.	
	12G SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives	
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive	748387-B21
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
	HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
	HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
	12G SAS Hot Plug SmartDrive LFF (3.5-inch) Converter Enterprise Drives	
	HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
	HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
	HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
	12G SAS Hot Plug SFF (2.5-inch) SC 512e Drives	
	HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
	HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
	6G SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives	
	HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21
	HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port ENT 3yr Wty Hard Drive/S-Buy	718162-S21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652589-S21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652583-S21
	HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
	HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
	HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652564-S21
	HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
	HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652611-S21
	HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21



HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive/S- Buy	652605-S21
6G SAS Hot Plug SmartDrive 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
6G SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives	
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-B21
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652757-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/12244_na/12244_na.html	
6G SATA Hot Plug with SmartDrive SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive/S-Buy	655710-S21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive/S-Buy	655708-S21
6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline (MDL) Drives	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
HP 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 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive/S-Buy	658079-S21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive/S-Buy	657750-S21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Wty Hard Drive/S-Buy	658071-S21
6G SATA Hot Plug SFF (2.5-inch) SC 512e Drives	
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
6G SATA 2.5in WI-PLP SCC SSD	
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in LPC 3yr Wty Solid State Drive	831725-B21
6G SATA 2.5in MU-PLP SCC SSD	001720 021
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804634-B21
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	832417-B21
HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
6G SATA 2.5in RI-PLP SCC SSD	007010-021
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
יווי זייט איז איזא אפמע ווונפוואעפיע בדר איז איז אינע אען אטערא אפמע אוועפון איז איזא איז איז איז איז איז איז א	007000-D21



#### HP ProLiant DL360p Generation 8 (Gen8)

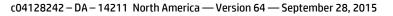
# QuickSpecs

HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
6G SATA 2.5in WI-PLP SC SSD	
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
6G SATA 2.5in MU-PLP SC SSD	
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
6G SATA 2.5in RI-PLP SC SSD	
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804575-B21
6G SATA Hot Plug LFF (3.5-inch) Midline (MDL) 512e Drives	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
6G SATA Hot Plug LFF (3.5-inch) SC 512e Performance Drives	
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13021_na/13021_na.html	
12G SAS Hot Plug Value Endurance SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid	762270-B21





State Drive	
12G SAS Hot Plug SFF (2.5-inch) Enterprise Drives	
HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21
HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785069-B21
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
12G SAS Hot Plug LFF (3.5-inch) Midline (MDL) 512e Drives	
HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793703-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
12G SAS Hot Plug LFF (3.5-inch) SC 512e Performance Drives	
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793671-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/12244_na/12244_na.html	
12G SAS Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise Mainstream H2 Solid State Drives	
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779176-B21
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779172-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779168-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779164-B21
12G SAS Hot Plug SFF (2.5-inch) SC Read/Write Intensive Solid State Drives	
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive	717965-B21
HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734360-B21
6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	718171-B21
HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734362-B21





6G SATA Hot Plug Value Endurance LFF (3.5-inch) Converter Enterprise Value M1 Solid State Drives	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764945-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764943-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764941-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty M1 Solid State Drive	764939-B21
6G SATA Hot Plug Value Endurance LFF (3.5-inch) Converter Enterprise Value G1	
Solid State Drives	
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756660-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756639-B21
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Converter ENT Value 3yr Wty G1 Solid State Drive	756624-B21
6G SATA Hot Plug Value Endurance SFF (2.5-inch) Enterprise Value G1 Solid State Drives	
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756657-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756636-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756621-B21
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State	
Drives	
HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	757339-B21
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717973-B21
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21
HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739888-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717969-B21
6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Value Solid State	
Drives	
HP 1.6TB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive	757342-B21
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Conveter Enterprise Value 3yr Wty Solid State Drive	739900-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid	718183-B21

State Drive	
HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr	739890-B21
Wty Solid State Drive	
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718177-B21
6G SATA Hot Plug Light Endurance SFF (2.5-inch) Enterprise Light G1 Solid State Drives	
HP 960GB 6G SATA Light Endurance SFF 2.5-in SC Enterprise Light 3yr Wty G1 Solid State Drive	756601-B21
6G SATA Hot Plug Light Endurance LFF (3.5-inch) Enterprise Light G1 Solid State	
	756604 834
HP 960GB 6G SATA Light Endurance LFF 3.5-in SC Converter ENT Light 3yr Wty G1 Solid State Drive	756604-B21
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value M1 Solid State	
<b>Drive</b> HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid	764929-B21
State Drive	704929-021
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764927-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764925-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764923-B21
6G SATA Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise Mainstream	
Solid State Drives	601060 D31
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 Mainstream Endurance 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	691860-B21
Wty Solid State Drive	
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	
HP 960GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789155-B21
HP 480GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789145-B21
HP 240GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789135-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	
HP 960GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789157-B21





Core Options		
	HP 480GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 240GB 6G SATA Read Intensive LFF 3.5-in SC Converter 3yr Wty Solid State Drive	789147-B21 789137-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14038_na/14038_na.html Hard Drive Kits	
	<b>NOTE:</b> 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 Small Form Factor Hard Drive Blank Kit	666987-B21
	HP Large Form Factor Hard Drive Blank Kit	666986-B21
	Hard Drive Cables	
	HP DL38x/DL360 Gen8 Embedded SATA Cable Kit <b>NOTE:</b> This cable is only required to connect a single SATA drive to the embedded Intel SATA controller. The P420i controller is not used in this configuration and should be disabled via RBSU to save power.	664009-B21
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 361T Adapter	652497-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	<ul> <li>10 Gigabit Ethernet Adapters</li> <li>NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.</li> <li>NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. See cables/options below.</li> </ul>	
	HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
	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 Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HP Ethernet 10Gb 2-port 570SFP+ Adapter	718904-B21
	HP Ethernet 10Gb 2-port 571SFP+ Adapter	728987-B21
	FlexibleLOM Adapters	
	<b>NOTE:</b> For the following FlexibleLOM Network Adapters, only 1 FlexibleLOM can be added to the server, which is selected in Step 2 of the "Configuration Information – Factory Integrated Models" section. These options are for upgrade or change from original configuration after the server is shipped.	
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B21
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter	647581-B21
	HP FlexFabric 10Gb 2-port 526FLR-SFP+ Adapter	629138-B21
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21

#### Core Options HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter 629142-B21 HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter 665243-B21 HP Ethernet 10Gb 2-port 561FLR-T Adapter 700699-B21 HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter 717491-B21 HP Ethernet 10Gb 2-port 571FLR-SFP+ Adapter 728992-B21 NOTE: SFP Transceivers for the 530FLR-SFP+ are not included with the server and must be purchased separately. **NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs. HP Secure Encryption No Media E-LTU per Drive **HP Secure Encryption** D8S85AAE HP Secure Encryption No Media Flexible License per Drive D8S84A **NOTE:** HP Secure Encryption is supported on the HP Smart Array P731m and the P230i as an option. HP Secure Encryption licensing is based on the number of physical drives requiring encryption. **NOTE:** For more information about HP Secure Encryption, go to http://www.hp.com/qo/hpsecureencryption. **HP InfiniBand** HP InfiniBand FDR 2-port 545QSFP Adapter 702211-B21 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:** For the following two InfiniBand Adapters, only 1 FlexibleLOM can be added to the server, which is selected in Step 2 for the "Configuration Information - Factory Integrated Models" section. These two options are for upgrade or change from original configuration. NOTE: FLR Indicates new HP FlexibleLOM Adapter series. HP Infiniband FDR/Ethernet 10Gb/40Gb 2-port 544FLR-QSFP Adapter 649282-B21 HP Infiniband QDR/Ethernet 10Gb 2-port 544FLR-QSFP Adapter 649283-B21 **NOTE:** 10Gb Ethernet requires the use of the QSFP to SFP+ adapter P/N 655874-B21. **NOTE:** Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/guickspecs/13078\_na/13078\_na.html **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: http://www.hp.com/go/hppoweradvisor **HP Common Slot Titanium Power Supply Kits NOTE:** 96% efficiency with support for HP Power Discovery Services. 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 94% Efficiency with 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



#### **Core Options**

c Ontions	HP DI 360 Gen8 Front Video Adanter Kit	655915-B21
	be found at: http://h18000.www1.hp.com/products/quickspecs/14209_na/14209_na.html	
	<b>NOTE:</b> Power Specification and Technical Content for supported power supplies can	
	<b>NOTE:</b> 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 http://www.hp.com/products/powercords	
	cable.	
	<b>NOTE:</b> Option Kits for AC power supplies include the power supply and one PDU IEC	717304-021
	HP 750W Common Slot 277VAC Hot Plug Power Supply Kit	717364-B21
	HP 500W Common Slot 277VAC Hot Plug Power Supply Kit	717362-B21
	HP Common Slot 277VAC Power Supplies NOTE: 94% efficiency.	
	design of power cords by the user.	
	<b>NOTE:</b> 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	
	HP 750W Common Slot -48VDC Hot Plug Power Supply Kit	636673-B21
	HP Common Slot -48VDC Power Supplies NOTE: The following Power Supplies offer 92% Efficiency.	
	HP 750W Common Slot Gold Hot Plug Power Supply Kit	512327-B21
	HP 460W CS Gold Ht Plg Power Supply Kit	503296-B21
	HP Common Slot Gold Power Supplies NOTE: The following Power Supplies offer up to 92% efficiency.	

HP Graphic Options HP DL360 Gen8 Front Video Adapter Kit

655915-B21



## Additional Options

HP Insight Software	HP Insight Control								
	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27 <i>A</i>							
	HP Insight Control Server Provisioning Media Kit	BD883A							
	HP Insight Management Media Kit	C6N31A							
	<ul> <li>NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.</li> <li>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.</li> <li>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.</li> </ul>								
	<b>NOTE:</b> For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_na/12631_na.html								
	HP Integrated Lights-Out (iLO) Advanced for ProLiant								
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21							
	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD5054							
	NOTE: For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_na/14276_na.html NOTE: For more information, visit: http://www.hp.com/go/ilo								
Converged	HP OneView								
Infrastructure	HP OneView with iLO Advanced								
Management Software	HP OneView Media Kit Phys No Lic	E5Y37 <i>A</i>							
	HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34/							
	HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y35AA							
	HP OneView without iLO Advanced								
	HP OneView w/o iLO including 3yr 24x7 Support 1 Server LTU	P8B24A							
	HP OneView w/o iLO including 3yr 24x7 Support Flex Quantity E-LTU	P8B26AAE							
	HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU	P8B31A							
	HP OneView w/o iLO Adv incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y384							
	HP OneView w/o iLO Adv inc 3yr 24x7 Supp Flex Qty E-LTU	E5Y39AA							
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:								
	http://h18000.www1.hp.com/products/quickspecs/14621_na/14621_na.html								
High Performance	HP Cluster Management Utility								
Clusters	HP Insight Cluster Management Utility 1yr 24x7 Flexible License	QL803E							
clusters	HP Insight Cluster Management Utility for ConvergedSystem 3yr 24x7 Flexible	G2E81A							
	License								



Additional Options		
	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
	<b>NOTE:</b> For additional license kits please see the QuickSpecs at http://h18004.www1.hp.com/products/quickspecs/12612_na/12612_na.html.	
HP I/O Accelerator	Second Generation Accelerators	
Options	HP 1205GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673646-B21
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional	
	information: http://h18000.www1.hp.com/products/quickspecs/13587_na/13587_na.html	
HP PCIe Workload	Mainstream Endurance (ME) PCIe Workload Accelerators	
Accelerator Options	HP 1.4TB HH/HL Mainstream Endurance (ME) PCIe Workload Accelerator	729307-B21
	HP 700GB HH/HL Mainstream Endurance (ME) PCIe Workload Accelerator	729305-B21
	High Endurance (HE) PCIe Workload Accelerators	
	HP 700GB HH/HL High Endurance (HE) PCIe Workload Accelerator	708090-B21
	HP 350GB HH/HL High Endurance (HE) PCIe Workload Accelerator	708088-B21
	Value Endurance (VE) PCIe Workload Accelerators	
	HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21
	HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763838-B21
	HP 1.6TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763836-B21
	HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763834-B21
	Light Endurance (LE) PCIe Workload Accelerators	
	HP 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21
	HP 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775670-B21
	HP 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775668-B21
	HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775666-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information: http://h18000.www1.hp.com/products/quickspecs/14528_na/14528_na.html	
HP Security	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: http://www.hp.com/go/TPM.	
	<b>NOTE:</b> ProLiant OS pre-installed units will come with the partition required for TPM	
	deployment.	
	<b>NOTE:</b> 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 1U Security Bezel Kit	664918-B21
	The TO Decunty Dezer Nil	00-1310-021



## **Additional Options**

(III)

HP Storage Controllers	SAS Controllers	
IF Storage controllers	Smart Array P222 Controller	
	HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller <b>NOTE:</b> A quantity of 1 HP Mini SAS Str to Left 33in Cable Assy (662899-B21) is required for proper connectivity.	631667-B21
	Smart Array P421 Controller	
	HP Smart Array P421/1GB FBWC 6Gb 2-ports Ext SAS Controller	631673-B21
	HP Smart Array P421/2GB FBWC 6Gb 2-ports Ext SAS Controller	631674-B21
	Smart Array P430 Controller	
	HP Smart Array P430/4GB FBWC 12Gb 1-port Int SAS Controller	698530-B21
	HP Smart Array P430/2GB FBWC 12Gb 1-port Int SAS Controller	698529-B21
	Smart Array P431 Controller	
	HP Smart Array P431/4GB FBWC 12Gb 2-ports Ext SAS Controller	698532-B21
	HP Smart Array P431/2GB FBWC 12Gb 2-ports Ext SAS Controller	698531-B21
	Smart Array P822 Controller	
	HP Smart Array P822/2GB FBWC 6Gb 2-ports-Int/4-ports Ext SAS Controller <b>NOTE:</b> A quantity of 2 HP Mini SAS Str to Left 33in Cable Assy (662899-B21) are required for proper connectivity.	615418-B21
	Optional Upgrades	
	HP 1GB P-series Smart Array Flash Backed Write Cache	631679-B21
	HP 2GB P-series Smart Array Flash Backed Write Cache	631681-B21
	HP 512MB P-series Smart Array Flash Backed Write Cache	661069-B21
	HP Mini SAS Straight to Left 33in Cable Assembly	662899-B21
	HP Internal SAS 68-pin SFF-8087 2x36-pin SFF-8087 Left Exit Cable	730603-B21
	HP Internal SAS 68-pin SFF-8087 1x36-pin SFF-8087 Left Exit Cable	730612-B21
	HP DL360p Gen8 SFF 2x36pin P430 36-inch Cable Kit	762721-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
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14227_na/14227_na.html	
	(Smart Array P222 Controller) http://h18000.www1.hp.com/products/quickspecs/14624_na/14624_na.html (Smart Array P430 Controller)	
	http://h18000.www1.hp.com/products/quickspecs/14625_na/14625_na.html (Smart Array P431 Controller)	
	http://h18000.www1.hp.com/products/quickspecs/14229_na/14229_na.html (Smart Array P421 Controller)	
	http://h18000.www1.hp.com/products/quickspecs/14341_na/14341_na.html (Smart Array P822 Controller)	
	Host Bus Adapter	
	HP H220 Host Bus Adapter	650933-B21
	HP H221 PCIe 3.0 SAS Host Bus Adapter	729552-B21
	HP H222 Host Bus Adapter	650926-B21
	<b>NOTE:</b> A quantity of 1 HP Mini SAS Str to Left 33in Cable Assy (662899-B21) is required for proper connectivity.	
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional	

#### **Additional Options**

	information: http://h18004.www1.hp.com/products/quickspecs/14336_na/14336_na.html (HBA 220) http://h18004.www1.hp.com/products/quickspecs/14222_na/14222_na.html (HBA 221) http://h18004.www1.hp.com/products/quickspecs/14337_na/14337_na.html (HBA 222)	
	SCSI HBA	
	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter	412911-B21
	<b>NOTE:</b> Please see the following QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12566_na/12566_na.html (SC11Xe HBA)	
HP Disk Enclosures	HP D3600 Enclosure	QW968A
	<b>NOTE:</b> See the D3000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04227611	
	HP D3700 Enclosure	QW967A
	<b>NOTE:</b> See the D3000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04227611	
	HP D2600 Disk Enclosure	AJ940A
	<b>NOTE:</b> See the D2000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/13404_na/13404_na.html (Worldwide)	
	HP D2700 Disk Enclosure	AJ941A
	<b>NOTE:</b> See the D2000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/13404_na/13404_na.html (Worldwide)	
	HP D6000 Dual I/O Module Disk Enclosure	QQ695A
	<b>NOTE:</b> See the D6000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/14419_na/14419_na.pdf	
HP Cable Options	HP BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable	537963-B21
	HP BladeSystem c-Class 10GbE SFP+ to SFP+ 0.5m Direct Attach Copper Cable	487649-B21
	HP BladeSystem c-Class 10GbE SFP+ to SFP+ 1m Direct Attach Copper Cable	487652-B21
	HP BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable	487655-B21
	HP BladeSystem c-Class 10GbE SFP+ to SFP+ 7m Direct Attach Copper Cable	487658-B21
	HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
	HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
	HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
	HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
	HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
	HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
	HP C-series SFP+ to SFP+ Active Copper 7.0m Direct Attach Cable	QK701A
	HP C-series SFP+ to SFP+ Active Copper 10.0m Direct Attach Cable	QK702A



### **Additional Options**

	HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
	HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
	HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
	HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
	HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
	HP B-series SFP+ to SFP+ Active Copper 1.0m Direct Attach Cable	AP818A
	HP B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable	AP819A
	HP B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable	AP820A
HP Power Cords	HP C13 - C14 WW 250V 10A Gray 0.7m Jumper Cord	АОКОЗА
	HP C13 - C14 WW 250V 10A Gray 1.37m Jumper Cord	A0K04A
	HP C13 - C14 WW 250V 10Amp 2.0m Jumper Cord	A0K02A
	HP C13 - C14 WW 250V 10A Gray 3.0m Jumper Cord	AOKO6A
	HP C13 - Nema 6-15P US 250V 15A JP 3.6m Power Cord	AON33A
	HP C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A
	HP C13 - C14 WW 250V 10Amp Flint Gray 2.0m Jumper Cord	AF573A
HP Tape Backup	<b>NOTE:</b> 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	
	http://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 LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A
	HP StoreEver LTO-6 Ultrium 6650 SAS Internal Tape Drive	EH963A
	HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
	HP StoreEver LTO-6 Ultrium 6250 Internal Tape Drive	EH969A
	HP StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
	HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader	COH19A
HP Tape Storage	HP StoreEver MSL6480	
Systems	HP StoreEver MSL6480 Scalable Base Module	QU625A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information:	
	http://h18000.www1.hp.com/products/quickspecs/14604_na/14604_na.html	
HP Disk Backup	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 RDX Removable Disk Backup System	DZDCOA
	HP RDX320 USB3.0 External Disk Backup System	B7B63A
	HP RDX500 USB3.0 Internal Disk Backup System	B7B64A
	HP RDX1000 USB3.0 Internal Disk Backup System	B7B67A
	HP RDX 2TB USB3.0 Internal Disk Backup System	E7X52A
	HP Rack-mount Kits	



### **Additional Options**

	HP StoreEver 1U USB Rack-mount Kit	A8007E
	NOTE: Please see the QuickSpecs for additional part numbers, Technical	
	Specifications, and additional information:	
1	http://h18000.www1.hp.com/products/quickspecs/13036_na/13036_na.html	
HP Disk Storage Systems	Disk Enclosures	
	HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W324
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional	
	information: http://h18000.www1.hp.com/products/quickspecs/13404_na/13404_na.html	
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
	HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W30A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
	<b>NOTE:</b> Please see the QuickSpecs for additional part numbers, Technical	~~~~
	Specifications, and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14419_na/14419_na.html	
HP Storage Options	Fibre Channel HBA	
	<b>NOTE:</b> The following is a list of all Fibre Channel Host Bus Adapters for Windows and	
	Linux. For detailed compatibility information 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	AP769E
	HP 82B 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AP7091
	Emulex Fibre Channel HBAs	
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762E
	HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763E
	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	010557
	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	QUISTE
	HP StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
	HP CN1100E Dual Port Converged Network Adapter	BK835A
	HP CN1000Q Dual Port Converged Network Adapter	BS668A
	HP StoreFabric CN1100R Dual Port Converged Network Adapter	QW9904
110 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
HP Uninterruptible Power Systems	HP DirectFlow Three Phase UPS Power Unit (1U UPS)	
-	<b>NOTE:</b> #0D1 will appear after the part number on the sales order if HP factory	

**NOTE:** #0D1 will appear after the part number on the sales order if HP factory integration is indicated.



## **Additional Options**

HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9
HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF
Input/Output Module Options for 1U UPS	
<b>NOTE:</b> Choose one I/O Module per UPS. <b>NOTE:</b> #0D1 will appear after the part number on the sales order if HP factory integration is indicated.	
HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF
HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF
HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF
HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9
<b>NOTE:</b> All Input/Output Modules support dual output outlets except the AF484A.	
HP Tower UPS	
HP T750 G4 UPS Models	
HP T750 G4 NA/JP Uninterruptible Power System	J2
HP T1000 G4 UPS Models	
HP T1000 G4 NA/JP Uninterruptible Power System	J2
HP T1500 G4 UPS Models	
HP T1500 G4 NA/JP Uninterruptible Power System HP Rack/Tower UPS	J2
HP R/T2200 G4 UPS Models	
HP R/T2200 G4 NA/JP Uninterruptible Power System	J2
HP R/T3000 G4 UPS Models	75
HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2
HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2
HP R1500 G4 Uninterruptible Power Supply (UPS)	52
HP R1500 G4 NA Uninterruptible Power System	J2
R5000 Uninterruptible Power System (UPS)	
HP R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF
<b>NOTE:</b> Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14109_na/14109_na.html	
R7000 Uninterruptible Power System (UPS)	
HP R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF
<b>NOTE:</b> Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14110_na/14110_na.html	
<b>NOTE:</b> 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: http://www.hp.com/products/powercords. <b>NOTE:</b> For additional information on HP Uninterruptible Power Systems please go to: http://www.hp.com/servers/rackups.	
HP Basic Power Distribution Unit: 1U/0U Version	
HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5



HP Basic Power Distribution Units

## Additional Options

(bPDU)	HP 3.6kVA 200-240 Volt Detachable C20 Input ( 12xC13) WW Basic PDU	H5M56A
	HP Basic Power Distribution Unit: Half Height Version	
	HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDU	H5M55A
	HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU	H5M57A
	HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU	H5M58A
	HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M61A
	HP Basic Power Distribution Unit: Mid Height Version	
	HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU	H5M59A
	HP 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU	H5M60A
	HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75A
	HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xNEMA 5-20R) NA/JP Basic PDU	H5M63A
	HP 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU	H5M64A
	HP 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU	H5M62A
	HP Basic Power Distribution Unit: Full Height Version	
	HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67A
	HP Basic Power Distribution Unit: 480/277 Volt Version	
	HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU	H3X08A
	HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	НЗХО9А
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information:	
	http://h18000.www1.hp.com/products/quickspecs/14557_na/14557_na.html	
	<b>NOTE:</b> Additional HP Power Distribution Units are available. For a complete list of all HP PDUs and additional information please visit:	
	http://www.hp.com/go/rackandpower.	
HP Remote Monitored	HP Remote Monitored Power Distribution Unit: 1U Version	
Power Distribution	HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43A
Units (mPDU)	HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU	D9N46A
	HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU	D9N44A
	HP Remote Monitored Power Distribution Unit: Half Height Version	
	HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45A
	HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU	G9Z05A
	HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU	G9Z06A
	HP Remote Monitored Power Distribution Unit: Mid Height Version	
	HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU	D9N47A
	HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU	D9N51A
	HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP Monitored PDU	D9N52A
	HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP Monitored PDU	D9N53A
	HP Remote Monitored Power Distribution Unit: Full Height Version	
	HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU	D9N49A
	HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU	D9N58A
	HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU	D9N61A
	HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU	D9N62A



#### Additional Options HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored D9N54A PDU HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored D9N59A PDU HP 17.3kVA 208 Volt IEC309 60A 3-Phase Watertight Input (12xC13/12xC19) NA/JP G9Z07A Monitored PDU HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU D9N63A HP Environmental Sensor for Remote Monitored PDUs HP Environmental Sensor for Remote Monitored and Managed PDUs E2D53A **NOTE:** Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14669\_na/14669\_na.html **HP Intelligent Power iPDU** Core Units Distribution Units (iPDU) HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit AF520A HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit AF521A HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit AF522A HP 14.4kVA 40A Three Phase NA/JP Intelligent Modular Power Distribution Unit AF533A HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit AF523A HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power AF535A **Distribution Unit** HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Power AF537A **Distribution Unit** iPDU Kits with Standard Extension Bars HP 4.9kVA 24A Single Phase NA/JP Intelligent Modular Power Distribution Kit AF531A HP 8.6kVA 24A Three Phase NA/JP Intelligent Modular Power Distribution Kit AF532A **iPDU Extension Bars** HP 5xC13 Intelligent PDU Extension Bar G2 Kit AF547A HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar AF528A **NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13650\_na/13650\_na.html **NOTE:** Additional HP Power Distribution Units are available. For a complete list of all HP PDUs and additional information please visit: http://www.hp.com/go/rackandpower. **HP Managed Power Half Height Models Distribution Units** HP 3.6kVA 200-240 Volt Detachable C20 Input (7xC13/1xC19) WW Managed PDU H8B49A (maPDU) **Full Height Models** HP 2.8kVA 120 Volt L5-30 Input (24x NEMA 5-20) NA/JP Managed PDU H8B48A HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Managed PDU H8B50A HP 8.6kVA 208 Volt L15-30 3 Phase Input (18xC13/6xC19) NA/JP Managed PDU H8B52A HP 8.6kVA 208 Volt L21-30 3 Phase Input (20xC13/3xC19/1x NEMA 5-20) NA/JP H8B53A Managed PDU HP 14.4kVA 208V CS8365C 3 Phase Input (12xC13/12xC19) NA/JP Managed PDU H8B55A HP 17.3kVA 208V IEC309 60A 3 Phase Input (12xC13/12xC19) NA/JP Managed PDU H8B56A **NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://www8.hp.com/h20195/v2/GetHtml.aspx?docname=c04376673



## **Additional Options**

(Worldwide)

HP Rack Series	HP Intelligent Series Rack	BWOODA
	HP 36U 600mm x 1075mm Enterprise Pallet Rack	BW895A
	HP 36U 600mm x 1075mm Enterprise Shock Rack	BW896A
	HP 42U 600mm x 1075mm Enterprise Pallet Rack	BW903A
	HP 42U 600mm x 1075mm Enterprise Shock Rack	BW904A
	HP 47U 600mm x 1075mm Enterprise Pallet Rack	BW911A
	HP 47U 600mm x 1075mm Enterprise Shock Rack	BW912A
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:	
	http://h18000.www1.hp.com/products/quickspecs/14223_na/14223_na.html (Worldwide)	
	NOTE: For additional information regarding Rack Cabinets, please see the following	
	URL: http://www.hp.com/go/rackandpower.	
HP Rack Options	HP LCD8500 1U Rackmount Console Kit Models	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
	HP LCD8500 1U Rackmount Console Kit Options	
	HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
	HP Location Discovery Services LCD8500 Kit	TL052A
	HP Rack LED Light Kit	BW939A
	HP Location Discovery Services	
	HP 36U Location Discovery Kit	BW945A
	HP 42U Location Discovery Kit	BW946A
	HP 47U Location Discovery Kit	BW947A
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14429_na/14429_na.html	
	HP USB Keyboard and Mouse	
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13972_na/13972_na.html HP Server Console Switches	
	HP KVM Console USB Interface Adapter	AF628A
	HP 0x1x8 G3 KVM Console Switch	
	HP 0x2x16 G3 KVM Console Switch	AF651A AF652A
	HP TAA 0x2x16 G3 KVM Console Switch	
		AF653A AF650A
	HP USB Remote Access Key for G3 KVM Console Switches <b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional	AFOSUA
	information: http://h18000.www1.hp.com/products/quickspecs/11834_na/11834_na.html	
	HP Server Console Switch G2 with Virtual Media & CAC	
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A

## **Additional Options**

	HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
	KVM USB Cnsl Itfc Adapter 1PK ALL	336047-B21
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13475_na/13475_na.html	
	HP 1x4 USB/PS2 KVM Console Switch	
	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
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13474_na/13474_na.html	
	Rail Kits	
	<b>NOTE:</b> 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. <b>NOTE:</b> Rail kits are optional for Gen8 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit. <b>Caution:</b> 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 1U Small Form Factor Easy Install Rail Kit	734807-B21
	<ul> <li>NOTE: For SFF models.</li> <li>NOTE: Kit contains full extension rails which do allow for in rack serviceability. After the rails are installed the server is aligned with the rails and slid into the rack. The HP 1U Easy Install Cable Management Arm is optional.</li> <li>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.</li> </ul>	734007-021
	HP 1U Cable Management Arm for Easy Install Rail Kit NOTE: Supports Easy Install rail kits only	734811-B21
	HP 1U Small Form Factor Ball Bearing Rail Kit <b>NOTE:</b> For SFF models. <b>NOTE:</b> HP 1U Small Form Factor Ball Bearing Gen8 Rail Kit ships standard with some BTO Preconfigured Channel Models.	663201-B21
	HP 1U Cable Management Arm for Ball Bearing Rail Kit NOTE: The HP 1U Gen8 Cable Management Arm is optional for the SFF and LFF Ball Bearing Rail Kits and is not available for use with the Friction Rail Kit.	663203-B21
	HP 1U Large Form Factor Ball Bearing Rail Kit <b>NOTE:</b> For LFF models.	663202-B21
HP USB and SD Options	HP Flash Media Kits for USB Drives	
	<b>NOTE:</b> 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 USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HP Enterprise Mainstream Flash Media Kits for Memory Cards	
	HP 8GB SD Enterprise Mainstream Flash Media Kit	726113-B21



#### **Additional Options**

	HP 32GB SD Enterprise Mainstream Flash Media Kit <b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13971_na/13971_na.html	700136-B21
HP Care Pack Services	<b>Proactive Care</b> <b>NOTE:</b> 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.	
	HP 3 year 4 hour 24x7 ProLiant DL36x(p) Proactive Care Service HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL36x(p) Proactive Care Service	U2Z86E U2Z89E
	HP 3 year 6 hour Call To Repair 24x7 ProLiant DL36x(p) Proactive Care Service HP 3 year 6 hour Call To Repair 24x7w/Defective Media Retention ProLiant DL36x(p) Proactive Care SVC	U2Z92E U2Z95E
	HP 3 year 4 hour 24x7 ProLiant DL36x(p) with Insight Control Proactive Care Service	U3N59E
	HP 3 year 4hr 24x7 with Defective Media Retention DL36x(p) with Insight Control Proactive Care SVC	U3N62E
	HP 3 year 6 hour Call To Repair 24x7 ProLiant DL36x(p) with Insight Control Proactive Care Service	U3N65E
	HP 3yr 6hrCallToRepair 24x7w/Defective Media Retention DL36x(p) w/Insight Control Proactive Care SVC	U3N68E
	HP 3 year 4-Hour 24x7 with Comprehensive Defective Material Retention DL36x(p) ProactiveCare Service	U9A53E
	HP 3 year 24x7 6-HourCalltorepair ComprehensiveDefectiveMaterialRetention DL36x(p) ProactiveCare SVC	U9A56E
	HP 3 year 4-Hour 24x7 w/Comprehensive Defective Material Retention DL36x(p) with IC ProCare Service	U9A71E
	HP 3year 24x7 6-HourCall-to-repair ComprehensiveDefectiveMaterialRetention DL36x(p) w/ IC ProCareSVC	U9A74E
	<b>Proactive Care Personalized Support Option</b> <b>NOTE:</b> 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 NOTE: Reduce the time required to get your system up and running and help minimize disruptions to your business.	
	HP Install ProLiant DL36x(p) Service	U4506E
	HP Startup ProLiant DL36x(p) Service	U4507E
	<b>NOTE:</b> For more information, customer/resellers can contact: http://www.hp.com/services/carepack.	

#### Memory

#### **HP SmartMemory**

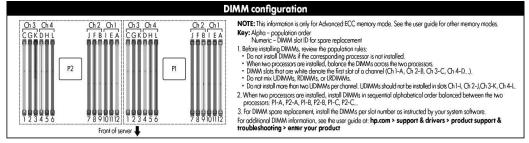
New HP SmartMemory now provides additional protection for your servers. With HP Authentication it can verify that you have true HP Qualified Memory in your HP ProLiant Gen8 server. With HP SmartMemory your new HP ProLiant server can take advantage of additional Gen8 enhancements in performance, durability and future manageability support through HP Active Health System

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

#### **Memory Subsystem Architecture**

Each Intel<sup>®</sup> Xeon<sup>®</sup> E5-2600 or E5-2600 v2 family processor socket contains four memory channels that support three DIMMs each for a total of twelve (12) DIMMs per installed processor or a grand total of Twenty Four (24) DIMMs for the server. Up to 32GB capacity DIMMs are supported for 768GB of max memory (for Best Speed (1600MHz) run 2 DIMMs per channel or 16 DIMM slots x 16GB per DIMM = 256GB).

#### 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.
- A minimum of one DIMM is required per server.
- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors and to load the channels similarly whenever possible.
- When two processors are installed, balance the DIMMs across the two processors.
- Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel. Heaviest load (DIMM with most ranks) within a channel goes furthest from the processor.
- 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 UDIMMs, RDIMMs orLRDIMMs.
- LRDIMMs are supported up to 3 DIMMs per channel.
- Using the HP RBSU, 1.35V DIMMs can be changed to operate at 1.5V.
- DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the memory type and number of installed processors.
- HP memory from previous generation servers is not compatible with the DL360p Gen8 Server. Certain HP SmartMemory features such as memory authentication and enhanced performance may not be supported.
- To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225\_na/14225\_na.html (Worldwide)
- For memory population rules and additional memory guidelines, please see the DL360p Gen8 user guide at http://www.hp.com/support



#### Memory

- There are four (4) Memory channels per processor; eight (8) channels per 2 processor server.
- There are three (3) DIMM slots for each memory channel; twenty four (24) total slots for 2 processor server.
- Memory channels1 and 3 consists of the three (3) DIMMs that are furthest from the processor.
- Memory channel 2 and 4 consists of the three (3) DIMMs that are closest to the processor.

DIMM Type				Regi	ster Dil	мм			Load Reduced (LRDIMMs)	Unbuffered DIMM				IM	
DIMM	Single	Rank	Dual	Dual	Single	Single	Dual	Dual Rank	Quad Rank	Singl	e Rank		Dual F	Rank (2F	2)
Rank	(1	(1R) Rank Rank		Rank (2R)	Rank Rank	Rank F	Rank (2R)	(2R)	(4R)	(1R)					
DIMM Capacity	4GB	4GB	8GB	8GB	8GB	8GB	16GB	16GB	32GB	2GB	2GB	4GB	4GB	8GB	8GB
DIMM Native Speed (MT/s) - >	1600	1866	1600	1866	1600	1866	1600	1866	1866	1600	1866	1600	1866	1600	1866
Voltage	LV	Std	LV	Std	LV	Std	LV	Std	Std	LV	Std	LV	Std	LV	Std
SLOTS TH	IAT CAN	I BE POP	PULATE	D											
12 slot servers	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
16 slot servers	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
24 slot servers	24	24	24	24	24	24	24	24	24	16	16	16	16	16	16
MAXIMUI		CITY (GB	8)*												
12 slot servers	48	48	96	96	96	96	96	192	384	24	24	48	48	96	96
16 slot servers	64	64	128	128	128	128	256	256	512	64	64	64	64	128	128
24 slot servers	96	96	192	192	192	192	384	384	768	32	32	64	64	128	128
POPULAT	ED DIM	M SPEE	D (MHz	)											
1 DIMM Per Channel	1600	1866	1600	1866	1600	1866	1600	1866	1866	1600	1866	1600	1866	1600	1866
2 DIMM Per Channel (2DPC)	1600	1866	1600	1866	1600	1866	1600	1866	1866	1600	1866	1600	1866	1600	1866
3 DIMM Per Channel	800	1333	800	1333	800	1333	800	1333	1333	n/a	n/a	n/a	n/a	n/a	n/a

Memory speed is a function of the processor QPI bus speed.

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

For HP SmartMemory, UDIMM is supported at 2DPC@DDR3-1866. Third party memory may only support up to 2DPC@DDR3-1333



#### Memory

#### or 1600.

# All configurations on 64 slot server run at DDR3-1066.

#### Memory Speed by E5-2600 v2 Processor Model

Processor Models	Supported Memory Speeds
E5-2697 v2, E5-2695 v2, E5-2690 v2, E5-2680 v2, E5-2670 v2, E5-2667 v2, E5-2660 v2, E5-2650 v2, E5-2643 v2, E5-2637 v2	1866/1600MHz
E5-2697 v2, E5-2695 v2, E5-2690 v2, E5-2680 v2, E5-2670 v2, E5-2667 v2, E5-2660 v2, E5-2650 v2, E5-2643 v2, E5-2637 v2	1600MHz
E5-2609 v2, E5-2603 v2	1333MHz

DIMM			Regis	tered D	IMMS			Load		Unbuffered	d with E	CC DIMM	s (UDIMN	4s)
Туре			(RDIMMs) Reduced (LRDIMMs)						• • •					
DIMM	Sing	le Rank	(1R)		Dual Ra	nk (2R)		Quad Rank	Single	Rank (1R)		Dual	Rank (2R)	)
Rank								(4R)						
DIMM Capacity	4GB	4GB	8GB	8GB	8GB	16GB	16GB	32GB	2GB	2GB	4GB	4GB	8GB	8GB
DIMM Native Speed (MT/s) - >	1333	1600	1600	1333	1600	1333	1600	1333	1333	1600	1333	1600	1333	1600
Voltage	LV	Std	Std	LV	Std	LV	Std	LV	LV	Std	LV	Std	LV	Std
SLOTS TH		1									1			
24 slot servers	24	24	24	24	24	24	24	24	16	16	16	16	16	16
MAXIMUM		-												
12 slot servers	96	96	192	192	192	384	384	768	32	32	64	64	128	128
POPULAT						1	1				1			
1 DIMM Per Channel	1333	1600	1333	1600	1600	1333	1600	1333 ***	1333	1600	1333	1600	1333	1600
2 DIMM Per Channel (2DPC)	1333	1600	1333	1600	1600	1333	1600	1333 ***	1333 ****	1600	1333 ****	1600	1333 ****	1600
3 DIMM Per Channel	1066 **	1333 ##	1066 ##	1333 ##	1333 ##	1066 **	1333 ##	1066	n/a	n/a	n/a	n/a	n/a	n/a

**NOTE:** Memory speed is a function of the processor QPI bus speed. To realize the performance memory capabilities listed above HP SmartMemory is required.

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

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

\*\*\* LRDIMMs enable 3 DIMMs per channel. HP SmartMemory will support up to 3DPC@1066 at 1.35V. Third party memory may only



#### Memory

#### support 3DPC @1066 at 1.5V.

\*\*\*\* For HP SmartMemory, UDIMM is supported at 2DPC@1333 at 1.35V. Third party memory may only support up to 2DPC@1066 at 1.5V.

#### # RBSU setting required

#### Memory Speed by E5-2600 v2 Processor Model

Processor Models	Supported Memory Speeds
E5-2697 v2, E5-2695 v2, E5-2690 v2, E5-2680 v2, E5-2670 v2, E5-2667 v2, E5-2660 v2, E5-2650 v2, E5-2643 v2, E5-2637 v2	1866/1600MHz
E5-2640 v2, E5-2630 v2, E5-2620 v2, E5-2650L v2, E5-2630L v2	1600MHz
E5-2609 v2, E5-2603 v2	1333MHz

#### Memory Speed by E5-2600 Processor Model

Processor Models	Supported Memory Speeds
E5-2690, E5-2680, E5-2670, E5-2667, E5-2665, E5-2660, E5-2650, E5-2650L, E5-2643, E5-2637	1600/1333/1066MHz
E5-2640, E5-2630, E5-2630L, E5-2620	1333/1066MHz
E5-2609, E5-2603	1066MHz

#### Standard and Maximum Memory Capacity (Pre-configured E5-2600 v2 Models)

Pre-Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
Intel Xeon E5-2650 v2	32GB (2x16GB)	384GB (22x16GB, 2x16GB)	768GB (24 x 32GB)
Intel Xeon E5-2640 v2, E5-2630 v2	16GB (2x 8GB)	368GB (22x16GB, 2x8GB)	768GB (24 x 32GB)
Intel Xeon E5-2603 v2	8GB (1x 8GB)	376GB (23x16GB, 1x8GB)	768GB (24 x 32GB)

#### Standard and Maximum Memory Capacity (Pre-configured E5-2600 Models)

Pre-Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
Intel Xeon E5-2690, E5-2650	32GB (4x 8GB)	352GB (20x16GB, 4x8GB)	768GB (24 x 32GB)
Intel Xeon E5-2640, E5-2630	16GB (4x 4GB)	336GB (20x16GB, 4x4GB)	768GB (24 x 32GB)
Intel Xeon E5-2603	4GB (1x 4GB)	372GB (23x16GB, 1x4GB)	768GB (24 x 32GB)

#### 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. The CPUs sit in the middle of the memory they manage and are populated from the right and left to the center for best performance. See the population order by alphabetic and numeric progression below.

		CPU #	‡1 IS PR	OCESS	OR ON I	RIGHT -	LOOKING FROM FRO	NT OF SE	RVER				
	C	hannel	3	C	Channel 4			Channel 2			Channel 1		
slot #	1	2	3	4	5	6	CPU #1	7	8	9	10	11	12
population order	C	G	K	D	Н	L		J	F	В	I	E	Α
In Order	3	7	11	4	8	12	-	10	6	2	9	5	1
CPU #2 IS PROCESSOR ON LEFT - LOOKING FROM FRONT OF SERVER													
	Channel 3			Channel 4			CPU #2	Channel 2			Channel 1		

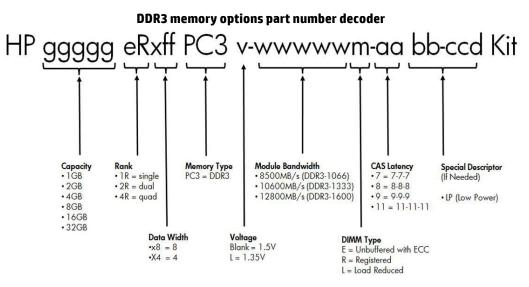


#### Memory

slot #	1	2	3	4	5	6	7	7 8	9		10	10 11
population order	C	G	К	D	Н	L	J	J F	В			I E
In Order	3	7	11	4	8	12	- 10	0 6	2	İ	9	9 5

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

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



Following are memory options available from HP:

#### **HP Memory**

**NOTE:** HP memory from previous generation servers are not gualified or warranted with this HP ProLiant Server. HP SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen8. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225\_na/14225\_na.html **NOTE:** LRDIMM, RDIMM, and UDIMM, and HDIMMs are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen8 servers support LRDIMM, RDIMM and UDIMMs. **Registered DIMMs (RDIMMs) NOTE:** The following memory is supported by the E5-2600 v2 series Processors. HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low 713981-B21 Voltage Memory Kit HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 708637-B21 Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low 713983-B21 Voltage Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low 731765-B21 Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory 708639-B21

Kit HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 731761-B21

(III)

## Memory

Memory KitP1 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low713985-B21Voltage Memory KitP1 6GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13708641-B21Memory KitRegistered DIMMs (RDIMMs)647893-B21NOTE: The following memory is supported by the E5-2600 series Processors.647893-B21Voltage Memory Kit647893-B21647895-B21Memory Kit647895-B21647897-B21Voltage Memory Kit647897-B21647897-B21Voltage Memory Kit647897-B21647897-B21Voltage Memory Kit647897-B21647897-B21Woltage Memory Kit647897-B21647899-B21Memory KitP8 6G (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11647899-B21Memory KitHP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory690802-B21KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory713975-B21Voltage Memory KitHP 16GB (1x46GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 26B (1x46GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-13 Memory708633-B21KitHP 46B (1x46GB) Dual Rank x8 PC3-12800E (DDR3-1866) Unbuffered CAS-13 Memory708633-B21KitHP 46B (1x46GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered		
Voltage Memory Kit708641-B21HP 16GB (1x15GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13708641-B21Memory KitRegistered DIMMs (RDIMMs)647893-B21NOTE: The following memory is supported by the E5-2600 series Processors.647893-B21Voltage Memory KitHP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11647895-B21HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11647897-B21Voltage Memory KitHP 8GB (1x6GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11647899-B21Memory KitHP 8GB (1x6GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11647899-B21Memory KitHP 8GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory690802-B21KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory713975-B21Voltage Memory KitHP 26B (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory KitHP 26B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered C	-	712005 D21
Memory KitRegistered DIMMs (DIMMs)NOTE: The following memory is supported by the E5-2600 series Processors.HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 LowVoltage Memory KitHP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1600) Registered CAS-11G47897-B21Voltage Memory KitHP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1600) Registered CAS-9 LowVoltage Memory KitHP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11G47897-B21Voltage Memory KitHP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11G47897-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11G47691-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11G72631-B21Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11G72631-B21Woltage Memory KitHP 26G (1x26B) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11Memory KitHP 26B (1x26B) Single Rank x8 PC3-14900E (DDR3-1600) Unbuffered CAS-13Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 LowVoltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-13 MemoryHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-13 MemoryKitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 LowVoltage Memory KitHP 46B (1x4GB) Dual R	-	/13982-821
NOTE: The following memory is supported by the E5-2600 series Processors.HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low647893-B21Voltage Memory KitHP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647897-B21Memory KitHP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647897-B21Woltage Memory KitHP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647897-B21Memory KitHP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory690802-B21KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11672631-B21Memory KitUnbuffered with ECC DIMMs (UDIMMs)713975-B21Voltage Memory KitHP 26B (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory KitHP 26B (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1866) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1866) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 26B (1x26B) Single Rank x8 PC3-12800E (DDR3-1866) Unbuffered CAS-11 Low713979-B21<		708641-B21
NOTE: The following memory is supported by the E5-2600 series Processors.HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low647893-B21Voltage Memory KitHP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647897-B21Memory KitHP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647897-B21Woltage Memory KitHP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647897-B21Memory KitHP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory690802-B21KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 Low647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11672631-B21Memory KitUnbuffered with ECC DIMMs (UDIMMs)713975-B21Voltage Memory KitHP 26B (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory KitHP 26B (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1866) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 46B (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1866) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 26B (1x26B) Single Rank x8 PC3-12800E (DDR3-1866) Unbuffered CAS-11 Low713979-B21<	-	
Voltage Memory KitG47895-B21HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11G47895-B21Memory KitHP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 LowG47897-B21Voltage Memory KitG47897-B21G47897-B21HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11G47899-B21Memory KitHP 8GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 MemoryG90802-B21KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-9 LowG47901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11G72631-B21Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Unbuffered CAS-11G72631-B21Mottered with ECC DIMMS (UDIMMS)NOTE: The following memory is supported by the E5-2600 v2 series Processors.F7268 (1x26B) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory KitHP 2GB (1x26B) Single Rank x8 PC3-14900E (DDR3-1660) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory KitT1896 (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 MemoryKitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 MemoryKitT18979-B21Voltage Memory KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11G69320-B21KitHP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11G69320-B21Memory KitHP 2GB (1x2GB		
Memory KitGet (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low647897-B21Voltage Memory KitHP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11647899-B21Memory KitG90802-B21647897-B21HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory690802-B21KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1333) Registered CAS-9 Low647901-B21Voltage Memory KitG72631-B21672631-B21HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11672631-B21Wemory KitUnbuffered with ECC DIMMs (UDIMMs)713975-B21NOTE: The following memory is supported by the E5-2600 v2 series Processors.713975-B21HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713979-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Memory669320-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11669320-B21Woltage Memory KitHP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11669320-B21HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR		647893-B21
Voltage Memory Kit647899-B21HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11647899-B21Memory KitHP 3GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory690802-B21KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1333) Registered CAS-9 Low647901-B21Voltage Memory KitHP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11672631-B21Memory KitUnbuffered with ECC DIMMs (UDIMMs)672631-B21NOTE: The following memory is supported by the E5-2600 v2 series Processors.713975-B21Voltage Memory KitP2 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory KitHP 2GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-11 Low713977-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1600) Unbuffered CAS-13 Memory708633-B21KitHP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory Kit713979-B21708633-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory708635-B21KitUnbuffered with ECC DIMMs (UDIMMs)708635-B21NOTE: The following memory is supported by the E5-2600 series Processors.647905-B21Voltage Memory KitHP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory669320-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669320-B21Voltage Memory KitHP 2GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669322-B21 <td></td> <td>647895-B21</td>		647895-B21
Memory KitG90802-B21HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit647901-B21HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit647901-B21HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit672631-B21MDuffered with ECC DIMMs (UDIMMs)713975-B21NOTE: The following memory is supported by the E5-2600 v2 series Processors.713975-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit713975-B21HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit713977-B21HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit713977-B21HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit713977-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit713979-B21HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-13 Memory Kit708635-B21HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-13 Memory Kit669320-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit669320-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647905-B21Voltage Memory Kit669322-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647905-B21Voltage Memory Kit669322-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 L	-	647897-B21
Kit647901-B21HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1333) Registered CAS-9 Low647901-B21Voltage Memory Kit672631-B21Unbuffered with ECC DIMMs (UDIMMs)672631-B21NOTE: The following memory is supported by the E5-2600 v2 series Processors.713975-B21HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory Kit708631-B21HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1866) Unbuffered CAS-13708631-B21Memory Kit708631-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1866) Unbuffered CAS-11 Low713977-B21Voltage Memory Kit708633-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1866) Unbuffered CAS-13 Memory708633-B21Kit708633-B21708633-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-13 Memory708633-B21Kit713979-B21708635-B21Voltage Memory Kit708635-B21708635-B21HP 3GB (1x3GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-13 Memory708635-B21KitUnbuffered with ECC DIMMs (UDIMMs)708635-B21NOTE: The following memory is supported by the E5-2600 series Processors.647905-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-11669320-B21Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647905-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669322-B21Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1		647899-B21
Voltage Memory Kit672631-B21HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11672631-B21Memory KitUnbuffered with ECC DIMMs (UDIMMs)NOTE: The following memory is supported by the E5-2600 v2 series Processors.713975-B21VP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory Kit713975-B21HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13708631-B21Memory Kit713977-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory Kit708633-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1866) Unbuffered CAS-13 Memory708633-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1866) Unbuffered CAS-11 Low713979-B21Voltage Memory Kit708635-B21708635-B21HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory708635-B21KitUnbuffered with ECC DIMMs (UDIMMs)708635-B21NOTE: The following memory is supported by the E5-2600 series Processors.669320-B21HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low647905-B21Voltage Memory Kit669322-B21669322-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit669324-B21669324-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory669324-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647907-B21		690802-B21
Memory KitUnbuffered with ECC DIMMs (UDIMMs)NOTE: The following memory is supported by the E5-2600 v2 series Processors.HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 LowVoltage Memory KitHP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1600) Unbuffered CAS-11 LowVoltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-11 LowVoltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 MemoryKitHP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 LowVoltage Memory KitHP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 LowVoltage Memory KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-13 MemoryKitUnbuffered with ECC DIMMs (UDIMMs)NOTE: The following memory is supported by the E5-2600 series Processors.HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669320-B21Memory KitHP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 LowVoltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11669322-B21Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 MemoryHP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-9 Low		647901-B21
NOTE: The following memory is supported by the E5-2600 v2 series Processors.HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory Kit708631-B21HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1866) Unbuffered CAS-13708631-B21Memory Kit713977-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory Kit708633-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1866) Unbuffered CAS-13 Memory708633-B21Kit713979-B21HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1866) Unbuffered CAS-11 Low713979-B21Voltage Memory Kit708635-B21HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory708635-B21KitUnbuffered with ECC DIMMs (UDIMMs)708635-B21NOTE: The following memory is supported by the E5-2600 series Processors.643020-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669320-B21Memory Kit647905-B21647905-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit647907-B21669324-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit64302-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647907-B21Voltage Memory KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Kit <td< td=""><td></td><td>672631-B21</td></td<>		672631-B21
HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713975-B21Voltage Memory Kit708631-B21HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13708631-B21Memory Kit713977-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory Kit708633-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-13 Memory708633-B21KitY13979-B21708633-B21HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713979-B21Voltage Memory Kit708635-B21708635-B21HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory708635-B21KitUnbuffered with ECC DIMMs (UDIMMs)708635-B21NOTE: The following memory is supported by the E5-2600 series Processors.647905-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669320-B21Memory KitHP 2GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647905-B21Voltage Memory Kit669322-B21669322-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit649007-B21669324-B21HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647907-B21Voltage Memory KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647907-B21KitHP 8GB (1x8GB) Dua	· · ·	
Voltage Memory KitHP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13708631-B21Memory Kit713977-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory Kit708633-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-13 Memory708633-B21Kit713979-B21Voltage Memory Kit713979-B21HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713979-B21Voltage Memory Kit708635-B21HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory708635-B21KitUnbuffered with ECC DIMMs (UDIMMS)708635-B21NOTE: The following memory is supported by the E5-2600 series Processors.669320-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669320-B21Memory Kit647905-B21647905-B21Voltage Memory Kit669322-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit669322-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit669324-B21HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647907-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647	<b>NOTE:</b> The following memory is supported by the E5-2600 v2 series Processors.	
Memory Kit713977-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713977-B21Voltage Memory Kit708633-B21HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory708633-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low713979-B21Voltage Memory Kit708635-B21HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory708635-B21KitUnbuffered with ECC DIMMs (UDIMMs)708635-B21NOTE: The following memory is supported by the E5-2600 series Processors.669320-B21HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669320-B21Memory Kit647905-B21647905-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit64920-12800E (DDR3-1600) Unbuffered CAS-9 Low647907-B21HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit669324-B21669324-B21HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1600) Unbuffered CAS-9 Low647907-B21Voltage Memory Kit669324-B21669324-B21HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647907-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9 Low647907-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1333) Unbuffered CAS-9 Low647909-B21	-	713975-B21
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Voltage Memory Kit669322-B21HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11669322-B21Memory KitHP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low647907-B21Voltage Memory KitHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory669324-B21KitHP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low647909-B21	Memory Kit	669320-B21
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Voltage Memory KitFigure ActionFigure ActionHP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory669324-B21KitFigure Action647909-B21HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low647909-B21	Memory Kit	669322-B21
Kit         Figure 1000000000000000000000000000000000000	Voltage Memory Kit	647907-B21
		669324-B21
		647909-B21



### HP ProLiant DL360p Generation 8 (Gen8)

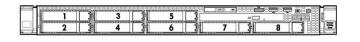
# QuickSpecs

## Memory

Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit	708643-B21
Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 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: http://www.hp.com/go/ddr3memory-configurator. NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy- efficient NOTE: PC3L is a low voltage memory.	



### Storage



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- 1-8 8 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays with Optical Media Bay option available for this configuration
- 1-4 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drives with Optical Media Bay option
- 1-10 10 x SFF SATA/SAS/SSD Hot Pluggable Hard Drives



## **Technical Specifications**

System Unit	<b>Dimensions</b> (H x W x D)	8 SFF and 10 SFF	1.7 x 17.1 x 27.5 69.85 cm)	inches (4.32 x 43.47 x
		4 LFF	1.7 x 17.1 x 29.5 74.67 cm)	inches (4.32 x 43.47 x
	Weight (approximate)	Maximum	8 SFF	42.3 lb (19.2 kg)
		(all hard drives, power supply,	10 SFF	42.3 lb (19.2 kg)
		and processor installed)	4 LFF	45.6 lb (20.7 kg)
		Minimum (one hard drive, power supply, and processor installed)	32 lb (14.51 kg)	
	<b>Input Requirements</b> (per power supply)	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC	
		Rated Input Current	4.5 Amps (at 120 VAC)	WAC) to 2.2 Amps (at 240
		Rated Input Frequency	50 to 60 Hz	
	BTU Rating	Maximum	1773 BTU / hr (at VAC)	t 120 VAC), 1715 (at 240
	<b>Power Supply Output</b> (per power supply)	Rated Steady-State Power	460 W (at 100 to 460 W (at 200 to	
			750 W (at 100 to 750 W (at 200 to	
		Maximum Peak Power	460 W (at 100 to 460 W (at 200 to	
			750 W (at 100 to 750 W (at 200 to	
	System Inlet Temperature	Operating	an altitude derat 304.8 m (1.8°F po sea level to a ma (10,000 ft), no di Maximum rate of (18°F/hr). The up by the type and r installed. System performa	to 95°F) at sea level with ing of 1.0°C per every er every 1000 ft) above ximum of 3048 m rect sustained sunlight. f change is 10°C/hr oper limit may be limited number of options ance may be reduced if fan fault or above 30°C
		Non-operating		° to 140°F). Maximum 20°C/hr (36°F/hr).
	<b>Relative Humidity</b> (non-condensing)	Operating		ve humidity (Rh), 28°C m wet bulb temperature,
		Non-operating	5 to 95% relative (101.7°F) maxim temperature, noi	
	Altitude	Operating	limited by the typ installed. Maxim	ft). This value may be be and number of options um allowable altitude i7 m/min (1500 ft/min).
		Non-operating	9144 m (30,000	ft). Maximum allowable



## Technical Specifications

altitude change rate is 457 m/min (1500 ft/min).

**Acoustic Noise** Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

Entry Configuration					
Idle	LWAd	5.0 Bels			
Average Bystander	LpAm	33 dBA			
Operating	LWAd	5.1 Bels			
Average Bystander	LpAm	35 dBA			
<b>Base Configuration</b>					
Idle	LWAd	5.0 Bels			
Average Bystander	LpAm	33 dBA			
Operating	LWAd	5.6 Bels			
Average Bystander	LpAm	39 dBA			
Performance Configura	Performance Configuration				
Idle	LWAd	5.1 Bels			
Average Bystander	LpAm	34 dBA			
Operating	LWAd	5.8 Bels			
Average Bystander	LpAm	42 dBA			

NOTE: Entry Configuration tested included one Intel E5-2609, 2.4GHz, 80W processor, one 500GB SAS HDD, one 8GB RDIMM's 1333MHz, one 460W power supply and 4x1GbE, embedded P420i controller. NOTE: Base Configuration tested included one Intel E5-2640, 2.5GHz, 95W processor, four 500GB SAS HDD, two 8GB RDIMM's 1333MHz, one 460W power supply and 4x1GbE, embedded P420i controller with 1GB FBWC. NOTE: Performance Configuration tested included two Intel E5-2660, 2.2GHz, 95W processor, eight 500GB SAS HDD, four 8GB RDIMM's 1600MHz, two 750W power supplies and 4x1GbE, embedded P420i controller with 2GB FBWC. NOTE: Values are subject to change without notification and are for reference only. **NOTE:** Performance of system, options, and ancillary equipment will vary depending on the system configuration. **NOTE:** Levels presented do not account for non-Hewlett-Packard installed hardware. Emissions Classification FCC Rating Class A (EMC) **Normative Standards** CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1 **NOTE:** Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements. **HP Smart Array P420i** Dimensions Embedded Disk Drive and Enclosure 6Gb/s SAS (Serial Attached SCSI)



Controller

## **Technical Specifications**

	Interface - Transfer rate	6Gb/s SATA (Serial ATA)		
	SAS Connectors	2 internal 4X connectors		
	Cache Memory Speed	512MB FBWC - DDR3-1333 DDR3-1333MHz with 72-b	BMHz with 40-bit wide bus, 1GB or 2 GB FBWC it wide bus	
	Server Interface	x8 PCIe 3.0 provides 2GB/s	s maximum bandwidth	
	SAS Speed	8 6Gb/s SAS links provide	4.8GB/s maximum bandwidth	
	Cache Memory	Zero Memory RAID has no 40-bit 512MB ECC protecte 72-bit 1GB FBWC or 72-bit	ed flash back write cache	
	Logical Drives Supported	Zero Memory, Up to 2 logic Up to 64 logical drives with	cal volumes (8SFF or 4LFF physical drives) ו cache	
	Host Memory Addressing	64-bit, supporting greater than 4GB server memory space		
	RAID Support	RAID 6, 60 (Advanced Data Guarding)		
		RAID 5, 50 (Distributed Data Guarding)		
		NOTE: HP Smart Array Adv	· · · · · ·	
		RAID 0 (Striping), RAID 1 (N	-	
HP Ethernet 1Gb 4-port 331FLR Adapter	HP Flexible Network Technology	meet the customers requir <b>NOTE:</b> Part of the DL360p FlexibleLOM comes in mult similar to PCI cards. Shown	Gen8 platform is the HP FlexibleLOM. The iple versions and is a removable card system here are the technical specifications for the HP .R Adapter on most DL360p Gen8 BTO Entry,	
	Network Interface	10Base-T/100Base-TX/10	00Base-TX	
	Compatibility	IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 802.3ad 1000Base-TX IEEE 802.1p 100Base-TX IEEE 802.1q 100Base-TX	K	
	Data Transfer Method	PCI Express, four lanes (x4	)	
	Chipset	BCM5719		
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s	
		10Base-T (Full-Duplex)	20 Mb/s	
		100Base-TX (Half-Duplex)	100 Mb/s	
		100Base-TX (Full-Duplex)	200 Mb/s	
		1000Base-TX (Half and Full-Duplex)	2000Mb/s	
	Connector	Two RJ-45		
	Cable Support	10Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)	
		100Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)	
		1000BaseTX	Category 5 or higher UTP;	





## **Technical Specifications**

up to 328 ft (100 m)

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



## Summary of Changes

Date	Version History	Action	Description of Change
28-Sep-2015	From Version 63 to 64	Added	Added new HP OneView management software.
-		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 62 to 63	Added	New Solid State Drives offering was added to HP Hard Drives section.
01-Jun-2015	From Version 61 to 62	Added	New Hard Drives were added to Core Options.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from Configuration Information -
		Kenioveu	Factory Integrated Models, Core Options, and Additional Options.
30-Mar-2015	From Version 60 to 61	Added	New Hard Drives were added to Core Options.
		Changed	Standard Features, Configuration Information – Factory Integrated Models, Core Options, and Technical Specifications were revised.
		Removed	Obsolete SKUs were removed from HP Insight Software and HP Care Pack Services.
20-Feb-2015	From Version 59 to 60	Changed	Acoustic Noise under Technical Specifications section was revised.
09-Feb-2015	From Version 58 to 59	Added	New Hard Drives, DirectFlow UPS, Rack and Tower G4 Models, LCD8500 1U Rackmount Models and Options were added to the Additional Options section.
		Changed	HP Uninterruptible Power Systems, HP Rack Options, and HP Care Pack Services in Additional Options section were revised.
01-Dec-2014	From Version 57 to 58	Added	HP 1.6TB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive and HP 1.6TB 6G SATA Value Endurance LFF 3.5-in SC Converter Enterprise Value 3yr Wty Solid State Drive were added to HP Hard Drives.
01-Nov-2014	From Version 56 to 57	Changed	Updated Service and Support.
29-Sep-2014	From Version 55 to 56	Added	New Solid State Drives were added. HP Managed Power Distribution Units (maPDU) was added to Additional Options.
		Changed	Service and Support section was revised. HP Hard Drives was revised in Core Options section.
18-Aug-2014	From Version 54 to 55	Added	New Hard Drives were added. HP Remote mPDUs half height version were added.
		Changed	Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.
27-June-2014	From Version 53 to 54	Changed	Matching WW version with NA since Smart Buy were revised in North America QS
10-June-2014	From Version 52 to 53	Added	HP Common Slot Platinum Power Supplies – Added 739252- B21and 739254-B2.
			Hard Drives – Added 762272-B21, 762270-B2, 762263-B21, 762261-B21.
			Additional Options – Added TA850AAE and BD506AAE to HP Insight Software, G2E81A was added to High Performance Clusters, added 762721-B21 to SAS Controllers, added 650933-B21 to Host Bus Adapter, added E7X52A and E7X53A to HP Disk Backup, added D6000 to Disk Enclosures, and AF628A, AF629A KVM Consoles were added to Rack Options subsection. HP Remote Monitored Power Distribution Unit: Full Height



#### Summary of Changes

			Version – Added D9N62A, G9Z07A, D9N63A, D9N56A, G9Z08A. Additional Options – Added Value Endurance (VE) PCIe Workload Accelerators and Light Endurance (LE) PCIe Workload Accelerators.
		Changed	Configuration Information – Factory Integrated Models, Core Options, Additional Options, and Memory were revised.
		Removed	Hard drives – Removed 690829-B21, 690825-B21, 653082- B21 and 653078-B21.
09-May-2014	From Version 51 to 52	Changed	Memory, Processors, Hard Drives, Storage Controllers, and Basic and Remote Monitoring Power Distribution Units were revised.
11-Apr-2014	From Version 50 to 51	Changed	Changes were made in North America and Canada only.
31-Mar-2014	From Version 49 to 50	Changed	HP InfiniBand, Hard Drives, Secure Encryption, Insight Software, Storage Controllers, Storage Options, and HP USB and SD Options were revised.
01-Mar-2014	From Version 48 to 49	Changed	Changes were made in the North America and Canada versions.
20-Nov-2013 11-Nov-2013 11-Nov-2013 18-Oct-2013 11-Oct-2013 08-Oct-2013	From Version 45 to 46 From Version 44 to 45 From Version 43 to 44 From Version 42 to 43 From Version 41 to 42 From Version 40 to 41	Changed Changed Changed Changed Changed Changed Changed	Processors, Memory and Converged Infrastructure Management Software were revised HP Basic Power Distribution Units and HP Remote Monitoring Power Distribution Units were revised in Additional Options HP Insight Control including 1 yr 24x7 Support ProLiant Ml/DL/BL-bundle FIO Electronic License was added to Step 3 in Configuration Information HP 1.2TB 6G SAS 10k rpm SFF SC Dual Port Enterprise 3yr Warranty Hard Drive was added to Hard Drives HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA was added to InfiniBand HP SmartCache and HP H221 PCIe 3.0 SAS Host Bus Adapter were added to Storage Controllers HP Disk Storage Systems was added to Additional OptionsCorrection made in the Core Options/Processors section only. Changes made to Memory Chart. Correction made in the Memory Chart.
04-0ct-2013 30-Sep-2013	From Version 39 to 40 From Version 38 to 39	Changed	Changes made in the Additional Options and Technical Specifications sections.Upgradeability, Storage Controller, Pre-configured Models, Processors, Networking, HP I/O Accelerator Options, HP PCIe Workload Accelerator Options, HP Tape Backup, HP Disk Backup, HP Basic Power Distribution Units, HP Intelligent Distribution Units, HP USB and SD Options, and Memory bandwidth and capacity chart were revised Converged Infrastructure Management Software, HP Remote Monitoring Power Distribution Units were added
23-Sep-2013	From Version 37 to 38	Changed	Changes were made in the Standard Features/Processors section.
18-Sep-2013	From Version 36 to 37	Changed	Changes were made in the North America and Canada versions.
12-Sep-2013 10-Sep-2013	From Version 35 to 36 From Version 34 to 35	Changed Added	Changes were made in the North America and Canada versions.E5-2600 v2 series Processors, Memory, Controllers, and NICs were addedCanonical Ubuntu was added to Operating Systems and Virtualization Software Support for ProLiant Servers Converged Infrastructure Management Software was added to Configuration Information - Factory Integrated Models and



### Summary of Changes

			Additional Options
			Additional Options Smart Array P430 and P431 Controllers were added to Storage
			Controllers
			HP StoreFabric SN1100E and CN1100R Fibre Channel Host Bus
			Adapters were added to HP Storage Options
27-Aug-2013	From Version 33 to 34	Changed	Changes were made in the North America and Canada versions.
10-Jul-2013	From Version 32 to 33	Removed	Removed Part number 673648-B21 from the HP I/O
			Accelerator Options section.
15-May-2013	From Version 31 to 32	Changed	Changes made to the following sections:
			HP InfiniBand in both Configuration Information and the Core
			Options sections.
			Additional Options - Added the HP PCIe Workload Accelerator
			Options and HP Basic Power Distribution Units sections; Changes made to the HD USB and SD Options
24-Apr-2013	From Version 30 to 31	Changed	Changes made to the HP USB and SD Options Changes made to the North America and Canada versions only.
16-Apr-2013	From Version 29 to 30	Changed	Change was made in the Management section of the High
10-Api-2013		changeu	Performance Models section.
29-Mar-2013	From Version 28 to 29	Changed	Changes made to the Expansion Slots section of Standard
		changea	Features and in Step 1 of Configuration Information.
25-Mar-2013	From Version 27 to 28	Added	Core Options: Added 718904-B21 to the HP Networking
			section and a NOTE to HP Power Supplies section.
			Configuration Information: Added a NOTE to HP Power Supplies
			section
		Removed	Additional Options: Removed 641027-B21, 600279-B21 and
			600282-B21 from the HP I/O Accelerator Options section.
27-Feb-2013	From Version 26 to 27	Changed /	Changes made to the following sections:
		Added	Core Options - HP Networking
			Additional Options - Added HP Proactive Insight experience.
19-Feb-2013	From Version 25 to 26	Changed	Changes made to the following sections:
		e	Maximum Internal Storage in the Standard Features section.
			HP Insight management in the Optional Features section.
			Models
			Core Options - HP Hard Drives
			Additional Options - HP Insight Software, HP I/O Accelerator
			Options
06-Feb-2013	From Version 24 to 25	Changed	Changes made to the North America and Canada versions only.
12-Dec-2012	From Version 23 to 24	Changed	Changes made to the Overview image and callouts.
07-Dec-2012	From Version 22 to 23	Changed	Changes made to:
		e	Standard Features: Graphics, On System Management
			Optional Features: HP Insight Control
			Configuration Information: Step 2 - Power Supplies
			Core Options: HP Optical Drives descriptions, Hard Drives,
			Networking, Power Supplies
			Additional Options: HP Insight Control, Completely revised the
		Demovied	HP Cable Options section
		Removed	TC202A from HD Incidet Coftware of Stop 2
			TC203A from HP Insight Software of Step 3 Additional Options: HP iLO Advanced License, HP Backup and
			Recovery Software, HP Disk Storage Systems
14-Nov-2012	From Version 21 to 22	Changed	Note Change made in the Rail Kits section.
26-0ct-2012	From Version 20 to 21	Changed	Change made in the Models section.
17-0ct-2012			
17-001-2012	From Version 19 to 20	Changed	Change made in Standard Features section.



## Summary of Changes

24-Sep-2012	From Version 17 to 18	Changed	Change made in the Standard Features, Optional Features and Technical Specifications sections.
05-Sep-2012	From Version 16 to 17	Changed	Change made in the Technical Specifications section only.
31-Aug-2012	From Version 15 to 16	Changed	Changed a Note in the Models, Configuration Information and Additional Options sections.
22-Aug-2012	From Version 14 to 15	Changed	Changes made Technical Specifications.
17-Aug-2012	From Version 13 to 14	Changed	Change made throughout the QuickSpecs
03-Jul-2012	From Version 12 to 13	Changed	Change made in the Memory section of Standard Features.
19-Jun-2012	From Version 11 to 12	Removed	Removed a Note from Configuration Information and
			Additional Options sections.
15-Jun-2012	From Version 10 to 11	Changed	Changes made in Configuration Information and Core Options.
01-Jun-2012	From Version 9 to 10	Changed	Changes made throughout the QuickSpecs.
18-May-2012	From Version 8 to 9	Changed	Changes made in the Processors section of Standard Features.
17-May-2012	From Version 7 to 8	Changed	Changes made in the Options section.
14-May-2012	From Version 6 to 7	Changed	Changes made throughout the QuickSpecs.
30-Apr-2012	From Version 5 to 6	Changed	Changes made in the Memory section only.
19-Apr-2012	From Version 4 to 5	Changed	Changes made in the Memory section only.
09-Apr-2012	From Version 3 to 4	Changed	Changes made in the Standard Features, Models, Configuration Information and Memory sections.
27-Mar-2012	From Version 2 to 3	Changed	Minor edit was made in Technical Specifications.
26-Mar-2012	From Version 1 to 2	Changed	HP iLO Advanced Features was completely revised.

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