Overview

HP ProLiant SL250s Generation 8 (Gen8)

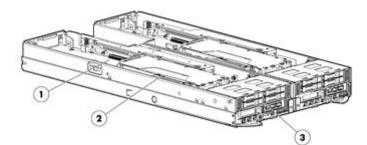
The HP ProLiant SL250s Gen8 Server with HP ProActive Insight architecture delivers even greater levels of configurability for high performance and scale-out deployments, to help lower total cost of ownership.

Up to four HP ProLiant SL250s Gen8 nodes, in a half-width, 2U modular form factor, fit into the HP s6500 scalable system chassis. In addition, each node can support up to three GPUs or four additional 2.5-inch small form factor hard drives.

The SL250s Gen8 Server series includes the exclusive HP SmartMemory and delivers a 25% increase in memory bandwidth to improve performance for certain applications.

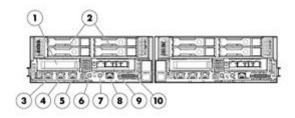
Delivering on the promise of server lifecycle automation, the SL250s Gen8 features the exclusive HP Active Health System that provides continuous, proactive, monitoring for over 1600 system parameters with zero impact to application performance.

NOTE: The 2U Open View image below shows two SL250s side by side to denote the left and right trays. Each unit is a 2U, half-width form factor.



2U Open View:

- Rear dual GPU placement. This location is also for the optional SFF 2.5" hard drive kit to enable four (4) SFF HDD's in place of the GPUs.
- 2. Single GPU riser mounts and underneath is Support for two Intel® Xeon® E5-2600 sequence processors and 16 memory slots. This location is also for the optional SFF 2.5" hard drive kit to enable four (4) SFF HDD's in place of the GPUs
- 3. FlexibleLOM networking option slot



2U Front View:

- 1. PCIe Expansion slot
- 2. Four Hot-Plug Drive Slots
- 3. Dedicated iLO4 Management Port
- 4. (1) 1GbE Ports
- 5. (1) 1GbE Ports
- 6. Power Button
- 7. Health LED
- 8. UID LED
- 9. Serial Port
- 10. SUV (Serial/USB/Video)

What's New

Updated information pertaining to availability of various options



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) Base Processors NOTE: All support up to1600MHz DDR3 memory speeds. 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® E5-2650L 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)

Performance Processors

NOTE: For 115W CPU support, customers must use the HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21).

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

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® E5-2680 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)

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® E5-2660 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)

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.

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)

Performance Processors

NOTE: For 130W CPU support and configuration, please contact your HP account team. **NOTE:** For 115W CPU support, customers must use the HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21).

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

Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/8.0GT-s QPI/115W, DDR3-1600, HT, Turbo2-



Upgradeability On System Management Processor Memory Protection
On System Management
Upgradeability
Chipset
depending on Model

Standard Features

Maximum (RDIMM) (per server tray)	256GB (16 x 16GB) Registered memory configurations
Maximum (UDIMM) (per server tray)	128GB (16 x 8GB) Unbuffered memory configurations
Maximum (LRDIMM) (per server tray)	512GB (16 x 32GB) LRDIMM memory configurations
ProLiant Server. HP Smartl enhanced functionality list SmartMemory QuickSpecs http://h18000.www1.hp.cc NOTE: RDIMM, LRDIMM, an server. The majority of Pro NOTE: HP certified SmartM NOTE: Depending on the m 1866MHz, 1600MHz, 1333 http://www.hp.com/go/dd NOTE: Kits described as LP	om/products/quickspecs/14225_div/14225_div.html d UDIMMs are all distinct memory technologies and cannot be mixed within a Liant Gen8 servers support RDIMM, LRDIMM, and UDIMM. lemory must be used to guarantee full 1866MHz speeds. nemory configuration and processor model, the memory speed may run at MHz, or 1066MHz. Please see the Online Memory Configuration Tool at:

Network Controller HP Ethernet 1Gb 2-port 361i

Expansion Slots	Expansion Slots #	Technology	Bus Width*	Connector Width	Form Factor	Notes
	Low Profile	PCIe 3.0	x8	x8	Half-length, half-height	Front Panel Access
	Expansion Slots #	Technology	Bus Width*	Connector Width	Form Factor	Notes
	FlexibleLOM	PCle 3.0	x16	x16	FlexibleLOM	Front Panel Access
	GPU1 rear bottom	PCIe 3.0	x16	x16	Full-length, full height	GPU only
	GPU2 rear top	PCIe 3.0	x16	x16	Full-length, full height	GPU only
	GPU3 front top	PCIe 3.0	x16	x16	Full-length, full height	GPU only
	*Indicates the nun	nber of physical	electrical lanes ru	nning to the con	inector	

signature is verified before the flash process starts, reducing accidental programming and preventing malicious efforts to corrupt system ROM.

HP ROM provides for essential initialization and validation of hardware components before control is passed to the customer-installed operating system. The ROM also provides the capability of booting from various fixed media (HDD, CD-ROM) and removable media (USB), to continue operation to the operating system.

HP ROM performs very early configuration of the video controller, to allow monitoring of initialization progress via an attached monitor. If configuration or hardware errors are discovered during this early phase of hardware initialization, suitable messages are now displayed on the connected monitor. Additionally, these configuration or hardware errors are logged to the Integrated Management Log



Standard Features

(IML) to assist in diagnosis.

HP's ProLiant ROM is used to configure the following:

- Processor and chipset status registers
- System memory, memory map, and memory initialization
- System hardware configuration (Integrated PCI devices and optional PCIe cards).
- Customer-specific BIOS configuration (using the HP ROM-Based Setup Utility (RBSU).

NOTE: For further information, please refer to HP's RBSU (ROM based setup utility) user guide: http://www.hp.com/support/rbsu.

Storage Controller	HP H220i Host Bus Adapter (B320i Dynamic Smart Array with FW update)			
Internal Storage Devices	Diskette Drives Optical Drives Hard Drives	-	the SUV port, external support only the SUV port, external support only ard	
Maximum Internal	2U Half Width tray			
Storage	Hot Plug SAS SFF	4.8TB	4 x 1.2TB	
	Hot Plug SATA SFF	4.0TB	4 x 1TB	
	Hot Plug SAS SSD SFF	3.2TB	4 x 800GB	
	Hot Plug SATA SSD SFF	3.2TB	4 x 800GB	
	Quick Release SAS SFF	4.8TB	4 x 1.2TB	
	Quick Release SATA SFF	4.0TB	4 x 1TB	
	Quick Release SSD SAS SFF	2.4TB	4 x 600GB	
			es can only be used when implementing the internal SFF k	
	and not implementing the NOTE: The SL250 SFF Inte implemented in place of t	e GPUs ernal Enablement K he three GPUs.	(it (PN: 679991-B21) allows for up to four SFF HDD to be	
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Interfaces	and not implementing the NOTE: The SL250 SFF Inte implemented in place of t Network RJ-45 FlexibleLOM KVM Micro SD USB Ports HP iLO Remote Management Network Port	e GPUs ernal Enablement K the three GPUs. Two 1GbE or 100 ProLiant Gen8 se Network Techno choice of 1Gigab depending on wo in the Networkin Serial USB Video 1 (internal) 1 (internal) 1 Gb Dedicated	Cit (PN: 679991-B21) allows for up to four SFF HDD to be GbE NIC ports ervers offer a new networking technology - Flexible logy. The SL250 Gen8 server offers the customer the it, 10Gigabit or InfiniBand FlexibleLOM solutions orkload. For further details on the choices, see FlexibleLOM og Section of this document.	

Industry Standard ACP

ACPI 2.0b Compliant



Compliance	PCIe 3.0 Compliant WOL Support				
	Microsoft [®] Logo certifications				
	PXE Support USB 1.1 and 2.0 Compliant				
	SMBIOS 2.6.1				
Server Power Cords	One 6' Highline (IEC-IEC) power cord ships standard NOTE: HP ProLiant SL servers are primarily connected to PDU's in data center racks so they ship standard with only a PDU power cord (416151-B21). If a user wishes to power a ProLiant SL server using a 110V receptacle (NEMA-15), the NEMA power cord must be ordered separately.				
	NOTE: If customers require a local power cord, they can check the power cord matrix for the appropriate cord. Please see the following power cord matrix: http://www.hp.com/go/powercordmatrix.				
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.				
	NOTE: Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_div/14209_div.html				
Common Slot Power 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.				
	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 - 750W, 1200Wand 1500W - allowing the customer to "right-size" a power supply for their specific server configuration. All HP Common Slot power sources are UL, CE Mark Compliant, hot-plug and support redundant configurations.				
	NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same output and efficiency rating. If non-matched power supplies are inserted you will get errors and operation will fail.				
	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.				
	NOTE: The 80 PLUS program is a unique forum that unites electric utilities, the computer industry, and consumers in an effort to bring energy efficient technology solutions to the marketplace. 80 Plus independently tests power supply efficiency and publicly posts the results on 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).				
	NOTE: Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_div/14209_div.html				



System Fans	NOTE: This selection mus HP s6500 Non-Redundan NOTE: This kit includes or NOTE: This selection mus NOTE: All 8 fan bays must	ily 1 fan, but the chassis requires 8 fans t be ordered in quantities of 8 (PN 617856-B21)
Operating Systems and Virtualization Software Support for ProLiant Servers	Software and latest listin from HP, please visit our	(RHEL)
Graphics	Integrated Matrox G200 v 1280 x 1024 (32 1920 x 1200 (16 HP iLO 4 On System Mana 16 MB Flash 256 MB DDR 3 wi	bpp) bpp)
Form Factor	Fully configured SL250 is Fully configured SL6500 o	
On System Management	HP iLO Management Engine	 HP iLO Management Engine is a comprehensive set of embedded management features supporting the complete lifecycle of the server, from initial deployment, through ongoing management, to service alerting and remote support. HP iLO Management Engine comes standard on all HP ProLiant Gen8 servers. The HP iLO Management Engine portfolio includes: HP iLO: The HP iLO (Integrated Lights-Out) management processor is the core foundation for the HP iLO Management Engine HP Agentless Management: Provides built in server health monitoring and alerting capability without OS agents, that starts working the moment a power cord and an Ethernet cable are connected. HP Active Health System: Always on, continuous monitoring for increased stability and shorter downtimes; 100% configuration history; Health and service alerts and easy export and upload to Service and Support. HP Intelligent Provisioning: Lets customers provision and configure a single server without any separate media. No more



		 SmartStart CDs or Smart Update Firmware DVD are needed. To start Intelligent Provisioning: Press the F10 key during the ProLiant Gen8 server boot process (also known as power on self test or POST). Please go to the Intelligent Provisioning website at http://www.hp.com/go/intelligentprovisioning for additional information and to view usage videos. Use the Service Pack for ProLiant (SPP) at http://www.hp.com/go/spp to get firmware and software updates. HP iLO Mobile App: Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: http://www.hp.com/go/ilo/mobileapp NOTE: For more information, visit: http://www.hp.com/go/ilo or HP iLO Management Engine technologies whitepaper
HP Insight management	HP Service Pack for ProLiant (SPP)	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 software that HP has found to be the best practice, the application gives customers the flexibility to set their own specific baseline.



Standard Features

	NOTE: 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			
Security	Power-on password			
	Keyboard password			
	QuickLock, Network Server Mode			
	Serial interface control			
	Administrator's password			
	iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption			
	iLO 4 can be disabled via a Global Setting			
	iLO Advanced supports directory services integration			
Warranty	This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. Hardware diagnostic support and repair is available for one year 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. NOTE: Server Warranty includes 1 year Parts, 1 year Labor, 1-year on-site 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.			

the correct updates and order of update deployment.

Optional Features

HP Insight management	HP Insight Control HP Matrix Operating Environment	 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. 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. The HP Matrix Operating Environment (Matrix OE) for ProLiant and Integrity servers is an integrated command center that helps you instantly adjust to dynamic business demands. This advanced infrastructure management software lets you reduce the cost of common data center tasks by up to 40
		percent while keeping pace with your changing business. The HP Matrix OE includes the automated provisioning, optimization, and recovery management capabilities for HP CloudSystem Matrix, the ideal platform for private cloud and Infrastructure as a Service (IaaS).
	HP iLO Advanced	NOTE: For more information, visit: http://www.hp.com/go/matrixoe HP Integrated Lights-Out Advanced License a product option, providing smart remote server management without compromise. iLO Advanced unlocks the full set of remote administration functionality for all HP ProLiant servers by activating the full Virtual Keyboard Video and Mouse remote console, multi-user collaboration, console record and replay, GUI- based and scripted virtual media and virtual folders, and enhanced security and power management functionality. For more information, see: http://www.hp.com/go/iloadvance
	HP iLO Scale-Out	HP iLO Scale Out offers, Remote Serial Console (text-based video re- direction via SSH), email-based alerting, remote system log, serial record/playback and power management capabilities. These features can significantly assist customers purchasing "SL" series to manage their servers. It is ideal for the web hosting/cloud service providers, High Performance Computing and Scale-Out businesses. If customers require more advanced features such as graphical remote console, multi-user collaboration, and video record/playback they can
	HP Matrix Operating Environment	purchase HP iLO Advanced. The HP Matrix Operating Environment (Matrix OE) for ProLiant and Integrity servers is an integrated command center that helps you instantly adjust to dynamic business demands. This advanced infrastructure management software lets you reduce the cost of common data center tasks by up to 40 percent while keeping pace with your changing business.
		The HP Matrix OE includes the automated provisioning, optimization, and recovery management capabilities for HP CloudSystem Matrix, the ideal platform for private cloud and Infrastructure as a Service (IaaS).
		NOTE: For more information, visit: http://www.hp.com/go/matrixoe
High Performance	HP Cluster Platforms	HP Cluster Platforms are specifically engineered, factory-integrated large-



HP ProLiant SL250s Generation 8 (Gen8)

Optional Features

Clusters	HP HPC Interconnects	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 High Performance Computing (HPC) interconnect technologies are available for this server as part of the HP Cluster Platform portfolio. These high- speed InfiniBand and Gigabit interconnects are fully supported by HP when integrated within an HP cluster. Flexible, validated solutions can be defined with the help of configuration tools. http://www.hp.com/techservers/clusters/ucp/index.html
	HP Insight Cluster Management Utility	HP Insight Cluster Management Utility (CMU) is an HP-licensed and HP- supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective. http://www.hp.com/go/cmu
Storage Software	challenge, or deliver on s than HP storage softwar infrastructure, protect vi Storage software that ge Data Protection Whether you're software will co Data Archive ar HP's storage so	n and Recovery Software a large enterprise or a smaller business, HP data protection and recovery ost-effectively protect you against disaster and ensure business continuity. Ind Migration Software ftware enables you to comply with data retention and retrieval requirements,
	 accessed or less Storage Resourd HP's storage resourd and virtual envi Data Replication HP offers array- testing, application Storage Device Maximize your in hardware-speci HP StoreVirtua With HP StoreVin heterogeneous 	Software -based and host-based replication software for use in disaster recovery, tion development and reporting. Management Software nvestment in HP storage and networking with software that enables fic configuration, performance tuning and connectivity management.
	NOTE: For more informa http://www.hp.com/go/s	tion available Storage Software including QuickSpecs, please see: storage/software.
HP Insight Online	HP support information devices remotely monito	w addition to the HP Support Center for one stop, secure access to product and personalized to your IT environment. Insight Online can automatically display ored by HP Insight Remote Support. With Insight Online's easy navigation you r IT support contracts and device status from anywhere and at anytime.



Optional Features

http://www.hp.com/go/insightonline

Factory Express Portfolic 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.
	For more information on Factory Express services for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express .
HP Simple Configurator	SCE is a guided self service tool to help sales and non technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact HP's Customer Business Center or an Authorized Partner for assistance. http://www.hp.com/products/configurator
Computational and Graphics Accelerators	Each SL250s tray will accommodate up to three computational or graphics accelerators, with options including NVIDIA Tesla K20, K20x and K40 GPUs, NVIDIA GRID K2 GPUs, and Intel® Xeon Phi™ 5110p and Intel® Xeon Phi™ 7120p Coprocessors.
	NOTE: Each SL250s tray will accommodate up to three accelerators. For 3 accelerators, at least three (3) HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kits (684532-B21) must be used. For 1-2 accelerators, either three of the 1500W or four of the HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit (578322-B21) must be used. NOTE: The maximum number of NVIDIA Tesla K20, K20x and K40 GPUs, NVIDIA GRID K2, and Intel® Xeon Phi™ 5110p coprocessors supported is 3. The maximum number of Intel® Xeon PhiTM 7120p coprocessors is 2. NOTE: One must configure a minimum of 4GB of memory per processor when accelerators are installed. NOTE: Mixing of accelerators or coprocessors within the same server is not allowed. NOTE: At this time, the NVIDIA Tesla K40 is operated at PCIe Gen2. NOTE: The NVIDIA Tesla K40 is only supported on E5-2600v2 processors.

Service and Support

Service and Support	The SL250s tray is a part of the HP ProLiant s6500 Chassis. Support for these tray need to be purchased at a chassis level. Please refer to HP ProLiant s6500 Chassis quick spec documentation for details.			
	 HP Technology Services for Industry Standard Servers HP Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HP to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time. Protect your business beyond warranty with HP Care Pack Services HP Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select. 			
Get connected to HP to improve your support experience	Prevent problems with innovative, automated monitoring tools and proactive services. Combining Proactive Care Services with our remote support technology such as Insight Online provides you with expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems quickly. For more information, visit: http://www.hp.com/go/proactiveinsightexperience			
Warranty / Service Coverage	For ProLiant servers and storage systems, the services cover HP-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.			
	The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HP as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.			
For more information	To learn more on HP ProLiant servers and HP BladeSystem servers, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant			

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: Configure-to-order (CTO) servers must start with a CTO Chassis.

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

NOTE: If you already have an s6500 chassis skip to Step 1A.

NOTE: s6500 Chassis cannot have a mix of SL270s and SL250s and/or SL230s due to different Carbondale (CD) FW versions. You will be unable to order such a configuration. SL250s and SL230s can be intermixed in an s6500 chassis because they possess the same Carbondale (CD) FW versions, but one that differs from SL270s. This rule does not apply to any combination of servers with Ivy Bridge processors, the Carbondale version in those processors is the same.

Step 1: Base Configuration (choose one from each list unless otherwise noted)

HP Chassis	HP ProLiant s6500 without Fans 4U Configure-to-order Chassis NOTE: You must choose Power Supplies and fans as the chassis does not include	614167-B21
	them. NOTE: If you already have an s6500 chassis you can buy server trays below.	

Step 2: Select Nodes

NOTE: Mixing and matching of half width trays is supported in the s6500 chassis.

NOTE: If you do not fill up chassis with servers, the HP node blank Kit (688928-B21 for left and 688930-B21 for right) needs to be ordered for each half width 1U space unpopulated.

HP Server Nodes	NOTE: The following SKUs are compatible with E5-2600 series processors.	
	HP ProLiant SL250s Gen8 2U PCIe Gen3 Left Tray Configure-to-order Svr	698723-B21
	HP ProLiant SL250s Gen8 2U PCIe Gen3 Right Tray Configure-to-order Svr	698724-B21
	NOTE: The following SKUs are compatible with E5-2600v2 series processors.	
	HP ProLiant SL250s Gen8 E5-v2 Left Tray Configure-to-order Server	750349-B21
	HP ProLiant SL250s Gen8 E5-v2 Right Tray Configure-to-order Server	750350-B21

Step 3: Choose Required Node Options (only one of the following from each list unless otherwise noted)

HP Processors	NOTE: If 2 processors are desired, select one xxxxx-L21 and one xxxxxx-B21	
	E5-2600v2 Series Processors	
	Entry Processors NOTE: All support up to 1333MHz memory speeds.	
	HP SL2x0s Gen8 Intel® Xeon® E5-2609v2 (2.5GHz/4-core/10MB/80W) FI0 Processor Kit	725942-L21
	Base Processors NOTE: All support up to1600MHz DDR3 memory speeds.	
	HP SL2x0s Gen8 Intel® Xeon® E5-2630v2 (2.6GHz/6-core/15MB/80W) FI0 Processor Kit	725941-L21
	HP SL2x0s Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) FI0 Processor Kit	725943-L21
	Performance Processors	
	NOTE: For 130W CPU support and configuration, please contact your HP account team.	
	NOTE: For 115W CPU support, customers must use the HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21).	



 nation - ractory integrated riodets	
NOTE: All support up to 1866MHz DDR3 memory speeds	
HP SL2x0s Gen8 Intel® Xeon® E5-2695v2 (2.4GHz/12-core/30MB/115W) FIO Processor Kit	725944-L21
HP SL2x0s Gen8 Intel® Xeon® E5-2680v2 (2.8GHz/10-core/25MB/115W) FIO Processor Kit	725937-L21
HP SL2x0s Gen8 Intel® Xeon® E5-2670v2 (2.5GHz/10-core/25MB/115W) FIO Processor Kit	725938-L21
HP SL2x0s Gen8 Intel® Xeon® E5-2660v2 (2.2GHz/10-core/25MB/95W) FIO Processor Kit	725939-L21
HP SL2x0s Gen8 Intel® Xeon® E5-2650v2 (2.6GHz/8-core/20MB/95W) FIO Processor Kit	725940-L21
E5-2600 Series Processors	
Entry Processors NOTE: All support up to 1066MHz memory speeds.	
HP SL250s Gen8 Intel® Xeon® E5-2609 (2.4GHz/4-core/10MB/80W) FIO Processor Kit	662326-L21
HP SL250s Gen8 Intel® Xeon® E5-2603 (1.8GHz/4-core/10MB/80W) FIO Processor Kit	662327-L21
Base Processors	
NOTE: All support up to1333MHz DDR3 memory speeds. HP SL250s Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) FIO Processor	662323-L21
Kit	
HP SL250s Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) FIO Processor Kit	662324-L21
HP SL250s Gen8 Intel® Xeon® E5-2620 (2.GHz/6-core/15MB/95W) FIO Processor Kit	662325-L21
HP SL250s Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/60W) FIO Processor Kit	662332-L21
Performance Processors	
NOTE: For 130W CPU support and configuration, please contact your HP account team.	
NOTE: For 115W CPU support, customers must use the HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21).	
HP SL250s Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit	662319-L21
HP SL250s Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit	662320-L21
HP SL250s Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO Processor Kit	662321-L21
HP SL250s Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) FIO Processor Kit	662322-L21
HP SL250s Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) FIO Processor Kit	662331-L21
HP SL250s Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) FIO Processor Kit	662330-L21

HP 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_div/14225_div.html	
NOTE: LRDIMM, RDIMM, and UDIMMs 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.	712001 D21
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 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708637-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713983-B21
HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	731765-B21
HP 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 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713985-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708641-B21
Registered DIMMs (RDIMMs)	
NOTE: The following memory is supported by the E5-2600 series Processors.	C47002 D24
HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647893-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
NOTE: 647899-B21 is supported by the E5-2600 and E5-2600v2 series Processors.	
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
NOTE: 672631-B21 is supported by the E5-2600 and E5-2600v2 series Processors.	
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 Memory Kit	708631-B21

(III)

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 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)	
HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit	708643-B21
NOTE: This memory is only supported by the E5-2600 v2 series Processors.	
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
NOTE: This memory is only supported by the E5-2600 series Processors.	
NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: 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	

Step 4: Choose Additional Factory Integratable Options

HP Networking	Gigabit Ethernet Adapters	
	HP Ethernet 1Gb 4-port 366FLR FIO Adapter	684217-B21
	FlexibleLOM Adapters	
	HP FlexFabric 10Gb 2-port 526FLR-SFP+ FIO Adapter	684219-B21
	HP Ethernet 10Gb 2-port 560FLR-SFP+ FIO Adapter	684218-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ FIO Adapter	700752-B21
	HP FlexFabric 10Gb 2-port 533FLR-T FIO Adapter	700760-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs	



HP Insight Software	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License	C6N36ABE

Step 5: Choose Other Server Options for Factory Integration

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



use of an HP approved HP Unique Options	 HP SL250 SFF Internal Enablement Kit NOTE: The SFF HDD Internal Enablement Kit is required to be selected whenever a Quick Release SFF drive is ordered. NOTE: The SFF enablement kit allows up to four SFF HDD to be implemented in place of the three GPUs. NOTE: This SFF enablement kit will not work with the Smart Array P420 Controller (631670-B21, 631671-B21) due to cable restrictions. 	679991-B2
	HP SL250 NVIDIA GPU Enablement Kit NOTE: Each NVidia K2/K20/K20x/K40 card requires 1 of the above enablement kits.	711947-B2
	HP SL250 Coprocessor Enablement Kit	711949-B2
	NOTE: Each Xeon Phi 5110p/7120p Coprocessor card requires 1 of the above enablement kits.	
HP Processors	NOTE: If 2 processors are desired, select one xxxxx-B21 and one xxxxxx-B21	
	E5-2600v2 Series Processors	
	Entry Processors NOTE: All support up to 1333MHz memory speeds.	
	HP SL2x0s Gen8 Intel [®] Xeon [®] E5-2609v2 (2.5GHz/4-core/10MB/80W) Processor Kit	725942-B2
	Base Processors NOTE: All support up to1600MHz DDR3 memory speeds.	
	HP SL2x0s Gen8 Intel® Xeon® E5-2630v2 (2.6GHz/6-core/15MB/80W) Processor Kit	725941-B2
	HP SL2x0s Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) Processor Kit	725943-B2
	Performance Processors	
	NOTE: For 130W CPU support and configuration, please contact your HP account team.	
	NOTE: For 115W CPU support, customers must use the HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21). NOTE: All support up to 1866MHz DDR3 memory speeds	
	HP SL2x0s Gen8 Intel® Xeon® E5-2695v2 (2.4GHz/12-core/30MB/115W) Processor Kit	725944-B2
	HP SL2x0s Gen8 Intel® Xeon® E5-2680v2 (2.8GHz/10-core/25MB/115W) Processor Kit	725937-B2
	HP SL2x0s Gen8 Intel® Xeon® E5-2670v2 (2.5GHz/10-core/25MB/115W) Processor Kit	725938-B2
	HP SL2x0s Gen8 Intel® Xeon® E5-2660v2 (2.2GHz/10-core/25MB/95W) Processor Kit	725939-B2
	HP SL2x0s Gen8 Intel® Xeon® E5-2650v2 (2.6GHz/8-core/20MB/95W) Processor Kit	725940-B2
	E5-2600 Series Processors	
	Entry Processors NOTE: All support up to 1066MHz memory speeds.	
	HP SL250s Gen8 Intel [®] Xeon [®] E5-2609 (2.4GHz/4-core/10MB/80W) Processor Kit	662326-B2
	HP SL250s Gen8 Intel® Xeon® E5-2603 (1.8GHz/4-core/10MB/80W) Processor Kit	662327-B2





Core Options

HP Memory

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Dase	FIUCESSUIS	

NOTE: All support up to1333MHz DDR3 memory speeds.

NUTE: All support up to 1333MHz DDR3 memory speeds.	
HP SL250s Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit	662323-B21
HP SL250s Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit	662324-B21
HP SL250s Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit	662325-B21
HP SL250s Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/60W) Processor Kit	662332-B21
Performance Processors	
NOTE: For 130W CPU support and configuration, please contact your HP account team.	
NOTE: For 115W CPU support, customers must use the HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21).	
HP SL250s Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) Processor Kit	662319-B21
HP SL250s Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit	662320-B21
HP SL250s Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit	662321-B21
HP SL250s Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit	662322-B21
HP SL250s Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit	662331-B21
HP SL250s Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit	662330-B21
HP SL250s Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit	662322-B21
HP SL250s Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit	662331-B21
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 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_div/14225_div.html	
NOTE: LRDIMM, RDIMM, and UDIMMs 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 /oltage Memory Kit	713981-B21
HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708637-B21
-	708637-B21 713983-B21
Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low	
Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low /oltage Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low	713983-B21
Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low /oltage Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low /oltage Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory	713983-B21 731765-B21
Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low /oltage Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low /oltage Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	713983-B21 731765-B21 708639-B21



HP ProLiant SL250s Generation 8 (Gen8)

QuickSpecs

Core Options

Registered DIMMs (RDIMMs)

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 Voltage Memory Kit	647893-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
NOTE: 647899-B21 is supported by the E5-2600 and E5-2600v2 series Processors.	
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
NOTE: 672631-B21 is supported by the E5-2600 and E5-2600v2 series Processors.	
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 Voltage Memory Kit	713975-B21
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 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.	

NUTE: The following memory is supported by the ES-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)	
	HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit	708643-B21
	NOTE: This memory is supported by the E5-2600 v2 series Processors.	C47002 D24
	HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit NOTE: This memory is only supported by the E5-2600 series Processors.	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 	
HP Hard Drives	NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.	
	NOTE: Hard drives have either a one year or three year warranty. NOTE: The non-hot plug hard drives use a quick release carrier. NOTE: The hard drive options are not required when configuring a Drive-less Model.	
	SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives	
	NOTE: Selection of SAS hard drives along with embedded controller (B320i) as primary controller requires the selection of SAS license Key (For CTO orders Customers MUST select 0D1 sku= p/n BC393A (HP SAS Nm 1-Srv Lic for B320i)	
	HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
	HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
	HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
	HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
	HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
	SAS Hot Plug SmartDrive SFF (2.5-inch) Midline Drives	
	NOTE: Selection of SAS hard drives along with embedded controller (B320i) as primary controller requires the selection of SAS license Key (For CTO orders Customers MUST select 0D1 sku= p/n BC393A (HP SAS Nm 1-Srv Lic for B320i)	
	HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
	HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
	SAS Quick Release SFF (2.5-inch) Enterprise (ENT) Drives	
	NOTE: Selection of SAS hard drives along with embedded controller (B320i) as primary controller requires the selection of SAS license Key (For CTO orders Customers MUST select 0D1 sku= p/n BC393A (HP SAS Nm 1-Srv Lic for B320i)	
	HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) Quick Release Dual Port ENT 3yr Warranty Hard Drive	718164-B21
	HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Quick-release Dual Port Enterprise 3yr Warranty Hard Drive	574879-B21



NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html (Worldwide)	
6G SATA Hot Plug with SmartDrive SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
6G SATA Quick Release SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) Quick Release Midline 1yr Warranty Hard Drive	632080-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) Quick Release Midline 1yr Warranty Hard Drive	632078-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html (Worldwide)	
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Boot Solid State 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	734360-B21
Drive	
Drive 6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State	717973-B21
Drive 6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid	717973-B21 739898-B21
Drive 6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid	
Drive 6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid	739898-B21
Drive 6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid	739898-B21 739888-B21
Drive GG SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21 739888-B21 717971-B21
Drive GG SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21 739888-B21 717971-B21
Drive GG SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21 739888-B21 717971-B21 717969-B21
Drive GG SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr	739898-B21 739888-B21 717971-B21 717969-B21 691868-B21





Core Options

http://h18000.www1.hp.com/products/quickspecs/14038_div/14038_div.html (Worldwide)

	12G SAS Value Endurance Solid State Drives	
	HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
	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 LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
	HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-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
	10 Gigabit Ethernet adapters NOTE: The SL250s Gen8 supports only the low-profile version of the 10GbE Ethernet Adapters. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.	
	HP NC523SFP 10Gb 2-port Server Adapter	593717-B21
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP Ethernet 10Gb 2-port 561T Adapter NOTE: Can only be paired with M2070 and M2090 GPU Kits	716591-B21
	FlexibleLOM Adapters	
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B21
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HP FlexFabric 10Gb 2-port 526FLR-SFP+ Adapter	629138-B21
	HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter	647581-B21
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter	629142-B21





Core Options		
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://www.hp.com/go/ProLiantNICs	665243-B21
HP InfiniBand	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA	583211-B21
	HP Infiniband FDR/Ethernet 10Gb/40Gb 2-port 544QSFP Adapter NOTE: Dual port ConnectX-3 FDR/QDR IB or 40/10GbE. No IB Enablement Kit required.	649281-B21
	FlexibleLOM Adapters	
	HP InfiniBand FDR 2-port 545FLR-QSFP Adapter NOTE: Dual port Connect-IB FDR IB PCI-e gen 3 x16. No IB Enablement Kit required.	702212-B21
	HP Infiniband FDR/Ethernet 10Gb/40Gb 2-port 544FLR-QSFP Adapter NOTE: Dual port ConnectX-3 FDR/QDR IB or 40/10GbE. No IB Enablement Kit required.	649282-B21
	HP Infiniband QDR/Ethernet 10Gb 2-port 544FLR-QSFP Adapter NOTE: Dual port ConnectX-3 QDR IB or 10GbE. No IB Enablement Kit required. NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html	649283-B21

HP Insight Software	HP Insight Control	
	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A
	HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28ABE
	HP Insight Control Server Provisioning Media Kit	BD883A
	HP Insight Management Media Kit	C6N31A
	 NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service. NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates. NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html 	
	HP Integrated Lights-Out (iLO)	
	HP iLO Scale Out	
	HP Integrated Lights-Out Scale-Out including 3yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD776AAE
	HP Integrated Lights-Out Scale-Out 3yr 24x7 Tech Support and Updates Flex Quantity License	BD776A
	HP Integrated Lights-Out Scale-Out including 3yr 24x7 Tech Support and Updates Tracking License	BD777A
	HP Integrated Lights-Out Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD778AAE
	HP Integrated Lights-Out Scale-Out 1yr 24x7 Tech Support and Updates Flex Quantity License	BD778A
	HP Integrated Lights-Out Scale-Out including 1yr 24x7 Tech Support and Updates Tracking License	BD779A
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU NOTE: Licenses ship without media. The Media Kit for Insight Control for Linux can be ordered separately, or can be downloaded at: http://www.hp.com/go/ic-linux (click on Download button).	E6U64ABE
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single set of activation keys.	
	NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/13019_div/13019_div.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	BD505A



	NOTE: For additional license options please see the Insight Control QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14276_div/14276_div.html NOTE: For more information, visit: http://www.hp.com/go/ilo.	
High Performance	HP Cluster Management Utility	
Clusters	HP Insight Cluster Management Utility 1yr 24x7 Flexible License	QL803B
	HP Insight Cluster Management Utility 3yr 24x7 Flexible License NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive	BD476A
	a support agreement.	004774
	HP Insight Cluster Management Utility Media	BD477A
	NOTE: For additional license kits please see the QuickSpecs at http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.html	
Cloudera Licensing	Cloudera Licenses Available for SL250 Server	
	Cloudera Ent Basic Ed 1yr 24x7 Phys Lic	G7M27A
	Cloudera Ent Basic Ed 1yr 24x7 E-LTU	G7M27AAE
	Cloudera Ent Basic Ed 1yr 8x5 Phys Lic	G7M28A
	Cloudera Ent Basic Ed 1yr 8x5 E-LTU	G7M28AAE
	Cloudera EDH Ed 1yr 24x7 Phys Lic	G7M29A
	Cloudera EDH Ed 1yr 24x7 E-LTU	G7M29AAE
	Cloudera EDH Ed 1yr 8x5 Phys Lic	G7M30A
	Cloudera EDH Ed 1yr 8x5 E-LTU	G7M30AAE
	Cloudera EDH Ed 1yr 24x7 Premium E-LTU	G7M31AAE
HP I/O Accelerator	Second Generation Accelerators	
Options	HP 365GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673642-B21
	HP 785GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673644-B21
	HP 1205GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673646-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13587_div/13587_div.html (Worldwide)	
HP 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 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763834-B21
	HP 1.6TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763836-B21
	HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763838-B21
	HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21



Additional Options

	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14528_div/14528_div.html (Worldwide)	
Computational and Graphics Accelerators	NOTE: Each SL250s tray will accommodate up to three accelerators. Maximum number of accelerators is 3 unless explicitly stated. In order to support three accelerators, at least 3 HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit (684532-B21) must be used. For 1-2 accelerators, either three of the 1500W or four of the HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit (578322-B21) must be used. NOTE: One must configure a minimum of 4GB of memory per processor when accelerators are installed. NOTE: Mixing of accelerators or coprocessors within the same server is not allowed.	
	NVIDIA Accelerators for HP ProLiant Servers	Dances
	NVIDIA Tesla K10 Dual GPU PCIe Computational Accelerator NOTE: Currently only configurable with 698723-B21, 698724-B21 nodes.	B3M66A
	NVIDIA Tesla K10 Rev B Dual GPU PCIe Computational Accelerator NOTE: Currently only configurable with 750349-B21, 750350-B21 nodes.	E5V47A
	NVIDIA Tesla K20 5 GB Computational Accelerator	C7S14A
	NVIDIA Tesla K20X 6 GB Computational Accelerator	C7S15A
	NVIDIA Tesla K40 12 GB Computational Accelerator NOTE: Currently only configurable with 750349-B21, 750350-B21 nodes. NOTE: Currently PCIe Gen 2	F1R08A
	NVIDIA GRID K2 Dual GPU PCIe Graphics Accelerator NOTE: Currently only configurable with 750349-B21, 750350-B21 nodes. NOTE: If node 698723-B21or 698724-B21 is selected with any permissible quantity of K20 or K20X or K40 or K2 cards, factory will be triggered to turn Dip Switch 9 to status, "ON." NOTE: For additional information on NVidia accelerators, please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14576_div/14576_div.html	729851-B21
	Intel Xeon Phi Coprocessor Kits	
	Intel [®] Xeon [®] Phi 5110P (8GB/225W) Coprocessor Kit	C1P87A
	Intel® Xeon® Phi 7120P (16GB/300W) Coprocessor Kit NOTE: Maximum number of 7120p coprocessors in SL250s is two (2). NOTE: 7120p coprocessors are only supported with E5-2600v2 processors. NOTE: If node 698723-B21or 698724-B21 is selected with any permissible quantity of C1P87A or E2M34A cards, factory will be triggered to turn Dip Switch 9 to status, "ON." NOTE: For additional information on Intel Xeon Phi coprocessors, please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14441_div/14441_div.html	E2M34A
	Enablement Kits	
	HP SL250 NVIDIA GPU Enablement Kit NOTE: Each NVidia K2/K20/K20x/K40 card requires 1 of these enablement kits.	711947-B21
	HP SL250 Coprocessor Enablement Kit NOTE: Required when ordering Intel Xeon Phi 5110p/7120p Coprocessor.	711949-B21

HP Storage Controllers SAS Controllers



HP ProLiant SL250s Generation 8 (Gen8)

QuickSpecs

Additional Options

Smart Array P222 Controller HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller	631667-B21
NOTE: This part can be partnered with either E5-2600 or E5-2600v2 processors	031007 221
Smart Array P420 Controller	
HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller	631670-B21
NOTE: This part can only be partnered with Intel E5-2600 processors (v1)	
HP Smart Array P420/2GB FBWC 6Gb 2-ports Int SAS Controller	631671-B21
NOTE: This part can only be partnered with Intel E5-2600 processors (v1)	
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
Optional Upgrades	
HP 512MB B-series Dynamic Smart Array Flash Backed Write Cache with 24 inch Cable	676473-B21
HP 24in Super Capacity Option for Smart Array	668944-B21
HP SL250s 4X SFF Smart Array Enablement Kit	670564-B21
HP SL250 SFF Internal Enablement Kit	679991-B21
NOTE: The SFF HDD Internal Enablement Kit is required to be selected whenever a Quick Release SFF drive is ordered.	
NOTE: The SFF enablement kit allows up to four SFF HDD to be implemented in place of the three GPUs.	
NOTE: This SFF enablement kit will not work with the Smart Array P420 Controller (631670-B21, 631671-B21) due to cable restrictions.	
HP SAS License Key No Media 1 Single Server License for B320i	BC393A
HP SmartCache No Media 24x7 Technical Support 1 Svr License	D7S26A
HP SmartCache No Media 24x7 Technical Support Flexible License	D7S27A
HP SmartCache No Media 24x7 Technical Support Electronic License	D7S27AAE
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/14227_div/14227_div.html (Smart Array P222 Controller)	
http://h18000.www1.hp.com/products/quickspecs/14228_div/14228_div.html	
(Smart Array P420 Controller) http://h18000.www1.hp.com/products/quickspecs/14229_div/14229_div.html	
(Smart Array P421 Controller)	
http://h18000.www1.hp.com/products/quickspecs/13200_div/13200_div.html	
(Smart Array Advanced Pack)	
Host Bus Adapter	
HP H220 Host Bus Adapter	650933-B21
HP H222 Host Bus Adapter	650926-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://b18004.www1.bp.com/products/guickspacs/14226_div/14226_div.btml	



(HBA 220)

http://h18004.www1.hp.com/products/quickspecs/14336_div/14336_div.html

	http://h18004.www1.hp.com/products/quickspecs/14337_div/14337_div.html (HBA 222)	
HP Tape Backup	NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of HP tape backup products see: http://www.hp.com/storage/SPOCK	
	HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A
	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_div/14604_div.html (Worldwide)	
HP Disk Storage Systems	Disk Enclosures	
	HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html (Worldwide)	
HP Uninterruptible	HP Rack-mountable UPS	
Power Systems	HP R1500 G3 Uninterruptible Power Supply (UPS)	
	HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A
	HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
	HP R1.5kVA G3 1U INTL Uninterruptible Power System NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14059_div/14059_div.html (Worldwide)	AF471A
	HP R/T3000 G2 Uninterruptible Power System (UPS)	
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14058_div/14058_div.html	AF468A
	(Worldwide)	
	R5000 Uninterruptible Power System (UPS)	
	HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
	HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14109_div/14109_div.html (Worldwide)	AF460A
	R7000 Uninterruptible Power System (UPS)	
	HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
	In ARAN TO SOATHIGH VORAGE AMOST ONINCERTUPLICET OWEL SYSTEM	



	HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System NOTE: Please see the QuickSpecs for additional information:	AF463A
	http://h18000.www1.hp.com/products/quickspecs/14110_div/14110_div.html (Worldwide)	
	NOTE: For additional information on HP Uninterruptible Power Systems please go to: http://www.hp.com/servers/rackups.	
	NOTE: For additional information on sizing your server, please reference: http://www.upssizer.com.	
	NOTE: Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: http://www.hp.com/products/powercords.	
IP Basic Power	HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5M54/
istribution Units	HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDU	H5M55/
	HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56/
	HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU	H5M57/
	HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU	H5M58/
	HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU	H5M59/
	HP 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU	H5M60/
	HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M61
	HP 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU	H5M62
	HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xNEMA 5-20R) NA/JP Basic PDU	H5M63
	HP 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU	H5M64/
	HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67/
	HP 7.3kVA 230 Volt IEC309 32A Input (20xC13) INTL Basic PDU	H5M68/
	HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70
	HP 11kVA 230 Volt IEC309 63A Input (30xC13/6xC19) INTL Basic PDU	H5M71
	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU	H5M72
	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU	H5M73
	HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75
	HP 13.2kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU	H3X07
	HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU	H3X08
	HP 277 Volt options for H3X07A and H3X08A	
	HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14557_div/14557_div.html (Worldwide)	
	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.	
IP Remote Monitoring	HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43/
Power Distribution Units	HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU	D9N44/
	HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45/



	HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU	D9N46A
	HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU	D9N47A
	HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU	D9N48A
	HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU	D9N49A
	HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU	D9N50A
	HP 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 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored PDU	D9N54A
	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU	D9N55A
	HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N56A
	HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N57A
	HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU	D9N58A
	HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU	D9N59A
	HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU	D9N60A
	HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU	D9N61A
	HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU	D9N62A
	HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU	D9N63A
	HP Environmental Sensor for Remote Monitored PDUs	
	HP Environmental Sensor for Remote Monitored PDUs	E2D53A
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14669_div/14669_div.html (Worldwide)	
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 24A 415V Three Phase L22-30 NA Core Intelligent Power Distribution Unit	AF902A
	HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525A
	HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF526A
	HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF527A
	HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF535A
	HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF537A
	HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Power Distribution Unit	AF538A



Additional Option	S	
	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
	HP 7.3kVA 32A Single Phase INTL Intelligent Modular Power Distribution Kit	AF534A
	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_div/13650_div.html	
	(Worldwide) 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 Rack Series	HP Intelligent Series Rack	
	HP 636 1200mm Pallet Intelligent Series Rack	BW899A
	HP 636 1200mm Shock Intelligent Series Rack	BW900A
	HP 642 1200mm Pallet Intelligent Series Rack	BW907A
	HP 642 1200mm Shock Intelligent Series Rack	BW908A
	HP 647 1200mm Pallet Intelligent Series Rack	BW913A
	HP 647 1200mm Shock Intelligent Series Rack	BW914A
	NOTE: Please see the QuickSpecs for Technical Specifications: http://h18000.www1.hp.com/products/quickspecs/14223_div/14223_div.html (Worldwide)	
	NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://www.hp.com/go/rackandpower.	
HP Rack Options	HP TFT7600 G2 KVM Console and Monitor (TFT7600 G2)	
	HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor	AZ870A
	HP TFT7600 G2 KVM Console Rackmount Keyboard UK Monitor	AZ871A
	HP TFT7600 G2 KVM Console Rackmount Keyboard DE Monitor	AZ872A
	HP TFT7600 G2 KVM Console Rackmount Keyboard FR Monitor	AZ873A
	HP TFT7600 G2 KVM Console Rackmount Keyboard IT Monitor	AZ874A
	HP TFT7600 G2 KVM Console Rackmount Keyboard ES Monitor	AZ875A
	HP TFT7600 G2 KVM Console Rackmount Keyboard DK Monitor	AZ876A
	HP TFT7600 G2 KVM Console Rackmount Keyboard NO Monitor	AZ877A
	HP TFT7600 G2 KVM Console Rackmount Keyboard SE/FI Monitor	AZ878A
	HP TFT7600 G2 KVM Console Rackmount Keyboard CH Monitor	AZ879A
	HP TFT7600 G2 KVM Console Rackmount Keyboard PT Monitor	AZ880A
	HP TFT7600 G2 KVM Console Rackmount Keyboard BE Monitor	AZ881A
	HP TFT7600 G2 KVM Console Rackmount Keyboard JP Monitor	AZ882A
	HP TFT7600 G2 KVM Console Rackmount Keyboard RU Monitor	AZ883A
	HP TFT7600 G2 KVM Console Rackmount Keyboard Intl Monitor	AZ884A
	HP TFT7600 G2 KVM Console Rackmount Keyboard US TAA Monitor NOTE: Please see the QuickSpecs for Technical Specifications and additional	AZ885A



Additional Options

information:

http://h18000.www1.hp.com/products/quickspecs/13731_div/13731_div.html (Worldwide)

HP USB Keyboard and Mouse

•	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information: http://h18000.www1.hp.com/products/quickspecs/13972_div/13972_div.html	
(Worldwide)	

HP Server Console Switches

HP Server Console 0x2x8 Port Analog Switch	AF616A
HP Server Console 0x2x16 Port Analog Switch	AF617A
HP TAA 0x2x16xKVM Server Console G2 Switch	AF626A
NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/11834_div/11834_div.html (Worldwide)	

HP Server Console Switch G2 with Virtual Media & CAC

HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
HP KVM CAT5 1-pack USB Interface Adapter	336047-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	



	http://h18000.www1.hp.com/products/quickspecs/13475_div/13475_div.html (Worldwide)		
	HP IP Console Switch G2 with Virtual Media & CAC		
	HP 1x4 USB/PS2 KVM Console Switch	AF611A	
	HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A	
	HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A	
	HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:		
	http://h18000.www1.hp.com/products/quickspecs/13474_div/13474_div.html (Worldwide)		
HP USB and SD Options	HP Flash Media Kits for USB Drives		
	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21	
	HP Enterprise Mainstream Flash Media Kits for Memory Cards		
	HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21	
	HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:		
	http://h18000.www1.hp.com/products/quickspecs/13971_div/13971_div.html		
	Other USB and SD Options		
	HP 36pin Serial/USB/VGA Dongle Cord Kit	676277-B21	
HP Care Pack Services	HP 3 year 24x7 24 hour Call to Repair ProLiant s6500 Hardware Support	UR425E	
	HP 3 year 24x7 24 hour Call to Repair with Defective Media Retention ProLiant s6500 Hardware Support	UR426E	
	HP 3 year 4 hour 13x5 ProLiant s6500 Hardware Support	UR400E	
	HP 3 year 4 hour 13x5 with Defective Media Retention ProLiant s6500 Hardware Support	UR401E	
	HP 3 year 4 hour 24x7 ProLiant s6500 Hardware Support	UR402E	
	HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant s6500 Hardware Support	UR403E	
	HP 3 year 6 hour 24x7 Call to Repair ProLiant s6500 Hardware Support	UR404E	
	HP 3 year 6 hour 24x7 Call to Repair with Defective Media Retention s6500 Hardware Support	UR405E	
	HP 3 year Next business day ProLiant s6500 Hardware Support	UR398E	
	HP 3 year Next business day with Defective Media Retention ProLiant s6500 Hardware Support	UR399E	
	HP 3 year 4 hour 24x7 ProLiant s6500 Collaborative Support	U1M52E	
	HP 3 year 4 hour 24x7 ProLiant s6500 Proactive Care Service	U3C72E	
	HP 3 year Next business day ProLiant s6500 Collaborative Support	U1M46E	
	HP 3 year Next business day ProLiant s6500 Proactive Care Service	U3C66E	
	HP 4 year 24x7 24 hour Call to Repair ProLiant s6500 Hardware Support	UR427E	
	HP 4 year 24x7 24 hour Call to Repair with Defective Media Retention ProLiant	UR428E	



Additional Options

s6500 Hardware Support	
HP 4 year 4 hour 13x5 ProLiant s6500 Hardware Support	UR408E
HP 4 year 4 hour 13x5 with Defective Media Retention ProLiant s6500 Hardware Support	UR409E
HP 4 year 4hour 24x7 ProLiant s6500 Hardware Support	UR410E
HP 4 year 4 hour 24x7 with Defective Media Retention ProLiant s6500 Hardware Support	UR411E
HP 4 year 6 hour 24x7 Call to Repair ProLiant s6500 Hardware Support	UR412E
HP 4 year 6 hour Call to Repair 24x7 with Defective Media Retention ProLiant s6500 Hardware Support	UR413E
HP 4 year Next business day ProLiant s6500 Hardware Support	UR406E
HP 4 year Next business day with Defective Media Retention ProLiant s6500 Hardware Support	UR407E
HP 5 year 24x7 24 hour Call to Repair ProLiant s6500 Hardware Support	UR429E
HP 5 year 24x7 24 hour Call to Repair with Defective Media Retention ProLiant s6500 Hardware Support	UR430E
HP 5 year 4 hour 13x5 ProLiant s6500 Hardware Support	UR416E
HP 5 year 4 hour 13x5 with Defective Media Retention ProLiant s6500 Hardware Support	UR417E
HP 5 year 4 hour 24x7 ProLiant s6500 Hardware Support	UR418E
HP 5 year 4 hour 24x7 with Defective Media Retention ProLiant s6500 Hardware Support	UR419E
HP 5 year 6 hour 24x7 Call to Repair ProLiant s6500 Hardware Support	UR420E
HP 5 year 6 hour 24x7 Call to Repair with Defective Media Retention s6500 Hardware Support	UR421E
HP 5 year Next business day ProLiant s6500 Hardware Support	UR414E
HP 5 year Next business day with Defective Media Retention ProLiant s6500 Hardware Support	UR415E
NOTE: For more information, customer/resellers can contact:	

http://www.hp.com/services/carepack.



Memory

HP ProLiant SL250s Gen8 Server

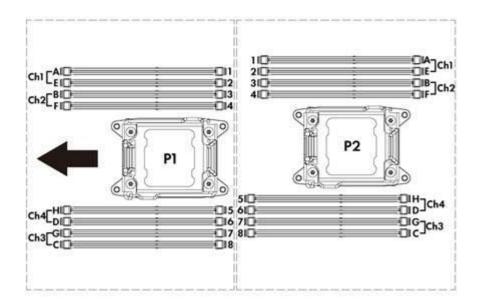
NOTE: Memory configurations listed do not apply to "Factory Integrated Models". **NOTE:** Chart does not represent all possible memory configurations.

DDR3 memory population guidelines

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

Each Intel® Xeon® E5-2600 family processor socket contains four memory channels that support two DIMMs each for a total of eight (8) DIMM per installed processor or a grand total of sixteen (16) DIMMs for the server. Up to 16GB capacity DIMMs are supported for 512GB of memory (16 DIMM slots x 32GB per DIMM).

NOTE: 512GB refers to Load Reduced DIMM (LRDIMM). The max for registered DIMM memory is 256GB.



Memory Population Rules and Guidelines:

- White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors and to load the channels similarly whenever possible.
- Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel
- Heaviest load (DIMM with most ranks) within a channel goes furthest from the processor
- RDIMMs operating at either 1.35V or 1.5V may be mixed in any order, but the system will power them at the higher voltage.
- Do not mix RDIMMs and UDIMMs.
- The Intel Xeon E5-2620 processor does not support DIMMs at 1.35V. Using the HP RBSU, 1.35V DIMMs can be changed to
 operate at 1.5V.
- The Intel Xeon E5-2620 processor does not support DIMMs at 1.35V. 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.



Memory

- HP memory from previous generation servers is not gualified on the SL250s Gen8 Server. Certain HP SmartMemory • features such as memory authentication and enhanced performance may not be supported.
- To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional • information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html.
- For memory population rules and additional memory guidelines, please see the SL250 Gen8 user guide at • http://www.hp.com/support.

DIMM slot/capacity/populated speed table DIMM **Registered DIMMS (RDIMMs)** Load Reduced Туре (LRDIMMs) DIMM Single Rank (1R) Dual Rank (2R) Ouad Rank Rank (4R) DIMM 4GB 4GB 4GB 4GB 8GB 8GB 8GB 8GB 8GB 8GB 8GB 16GB 16GB 16GB 16GB 32GB 32GB Capacity 1600 DIMM 1600 1333 1600 1866 1600 1866 1600 1866 1333 1600 1600 1333 1600 1333 1866 1866 Native Speed (MHz) LV LV Std LV LV Std Std Std LV Std LV Std Std LV Std LV Voltage Std SLOTS THAT CAN BE POPULATED 16 slot 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 servers MAXIMUM CAPACITY (GB)* Capacity 64 64 64 64 128 128 128 128 128 128 128 128 256 256 256 512 512 POPULATED DIMM SPEED (MHz) 1 DIMM 1600 1333 1600 1866 1600 1600 1866 1333 1600 1600 1866 1333 1600 1600 1866 1333*** 1866 Per Channel 2 DIMM 1600 1333 1866 1600 1600 1866 1333 1600 1600 1600 1866 1333 1600 1600 1866 1333*** 1866 PEr Channel * Maximum capacity will vary based on individual server platform qualification schedule *** LRDIMM enables 3 DIMMs per channel. HP SmartMemory will supportsup to 3DPC@DDR3-1066 at 1.35V. Third party memory may only support 3DPC @DDR3-1066 at 1.5V.

DIMM slot	DIMM slot/capacity/populated speed table											
DIMM	Unbuffered with ECC DIMMs (UDIMMs)											
Туре												
DIMM		Single Rank (1R)			Dual Rank (2R)							
Rank												
DIMM	2GB	2GB	2GB	2GB	4GB	4GB	8GB	8GB	4GB	4GB	8GB	8GB
Capacity												
DIMM	1333	1600	1600	1866	1333	1600	1333	1600	1600	1866	1600	1866
Native												
Speed (MHz)												
Voltage	LV	Std	LV	Std	LV	Std	LV	Std	LV	Std	LV	Std

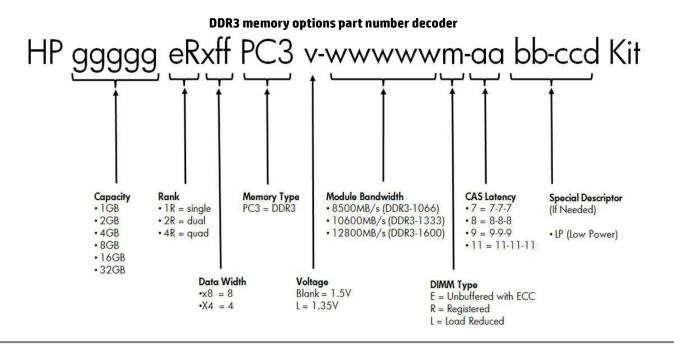


16

Memory

16	16	16	16	16	16	10	10				1
					10	16	16	16	16	16	16
APACITY	(GB)*										
32	32	32	32	64	64	128	128	64	64	128	128
DIMM SI	PEED (MH	z)									
1333	1600	1600	1866	1333	1600	1333	1600	1600	1866	1600	1866
333**	1600	1600	1866	1333**	1600	1333**	1600	1600	1866	1600	1866
	32 DIMM SI 333 333**	32 32 DIMM SPEED (MH 333 1600 333** 1600	32 32 32 DIMM SPEED (MHz) 1600 1600 333 1600 1600 333** 1600 1600	32 32 32 32 DIMM SPEED (MHz) 1600 1866 333 1600 1600 1866 333** 1600 1600 1866	32 32 32 32 64 DIMM SPEED (MHz)	32 32 32 32 64 64 DIMM SPEED (MHz) 333 1600 1600 1866 1333 1600 333** 1600 1600 1866 1333** 1600	32 32 32 32 64 64 128 DIMM SPEED (MHz) 333 1600 1600 1866 1333 1600 1333 333** 1600 1600 1866 1333** 1600 1333**	32 32 32 32 64 64 128 128 DIMM SPEED (MHz) 333 1600 1600 1866 1333 1600 1333 1600 333** 1600 1600 1866 1333** 1600 1333** 1600	32 32 32 32 64 64 128 128 64 DIMM SPEED (MHz) 333 1600 1600 1866 1333 1600 1333 1600 1600 333** 1600 1600 1866 1333** 1600 1333** 1600 1600	32 32 32 32 64 64 128 128 64 64 DIMM SPEED (MHz) 333 1600 1600 1866 1333 1600 1600 1866 333** 1600 1600 1866 1333** 1600 1600 1866	32 32 32 32 64 64 128 128 64 64 128 DIMM SPEED (MHz) 333 1600 1600 1866 1333 1600 1333 1600 1600 1866 1600

- 2GB = 2048MB
- 4GB = 4096MB
- 8GB = 8192MB
- 16GB = 16384MB



Following are memory options available from HP:

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 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_div/14225_div.html **NOTE:** LRDIMM, RDIMM, and UDIMMs are all distinct memory technologies and cannot



Memory

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 Voltage Memory Kit	713981-B21
HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708637-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713983-B21
HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	731765-B21
HP 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 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713985-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708641-B21
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 Voltage Memory Kit	647893-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
NOTE: 647899-B21 is supported by the E5-2600 and E5-2600v2 series Processors.	
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
NOTE: 672631-B21 is supported by the E5-2600 and E5-2600v2 series Processors.	
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 Memory Kit	708631-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713977-B21

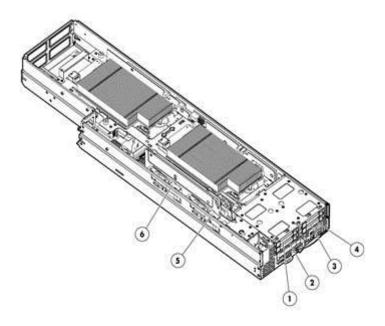


Memory

Kit	
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)	
HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit NOTE: This memory is supported by the E5-2600 v2 series Processors.	708643-B21
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit NOTE: This memory is only supported by the E5-2600 series Processors.	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



2U Tray

- 1-4 Up to four 2.5" hot plug hard drive bays
- 5 Up to four additional 2.5" non hot-plug drives can be configured when the SFF Hard Drive Enablement Kit is implemented in place of the included GPU kit



Technical Specifications

System Unit	Chassis Dimensions (H x W x D) Add fan extension kit (with bezel)					
	Weight (approximate)	Maximum (all hard drives, power supplies, and processors installed)	220lb (99.8kg)			
	Input Requirements (per power supply)	Rated Line Voltage	90 to 140 VAC 180 to 264 VAC			
		Rated Input Current	7.31A at 115VAC 3.6A at 230VAC			
		Rated Input Frequency	47 to 63 Hz			
		Rated Input Power	855W (at 100 VAC), 840.72W (at 200 VAC)			
	Power Supply Output (per power supply)	Rated Steady-State Power	653.10W (at 100 VAC), 653.08W (at 200 VAC)			
	System Inlet Temperature	Operating	50° to 95° F (10° to 35° C) at sea level with an altitude derating of 1.8°F per every 1000 ft (1.0°C per every 304.8 m) above sea level to a maximum of 10,000 ft (3048 m), no direct sustained sunlight. Maximum rate of change is 18°F/hr (10°C/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 86°F (30°C).			
		Non-operating	-22° to 140° F (-30° to 60° C) Maximum rate of change is 36°F/hr (20°C/hr).			
	Relative Humidity (non-condensing)	Operating	10% to 90% relative humidity (Rh), 82.4°F (28°C) maximum wet bulb temperature, non- condensing.			
		Non-operating	5% to 95% relative humidity (Rh), 101.7°F (38.7°C) maximum wet bulb temperature, non- condensing.			
	Altitude	Operating	10,000 ft (3048 m). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 1500 ft/min (457 m/min).			
		Non-operating	30,000 ft (9144 m). Maximum allowable altitude change rate is 1500 ft/min (457 m/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).				
		Idle				
		LWAd	6.4			
		LpAm	45dBA			
		Operating				





Technical Specifications

		LWAd	6.7				
		LpAm	51dBA				
	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				
		sample (type) testing, eval	ce to cited product specifications is based on uation, or assessment. This product or family of the appropriate compliance logos and				
HP Ethernet 1Gb 2-port	Network Interface	10Base-T/100Base-TX/1000Base-TX					
361i Adapter	Compatibility	IEEE 802.3 10Base-T					
		IEEE 802.3ab 1000Base-T					
		IEEE 802.3u 100Base-TX					
		IEEE 1588, IEEE 802.1AS					
		IEEE 802.3az - Energy Effic	ient Ethernet (EEE)				
	Data Transfer Method	PCI Express v 2.1, 5.0 GT/s and 2.5 GT/s bus speeds and supports f x4 links widths (Lanes)					
	Controller	1350 Powerville					
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s per port, 20 Mb/s Combined				
		10Base-T (Full-Duplex)	20 Mb/s per port, 40 Mb/S Combined				
		100Base-TX (Half-Duplex)	100 Mb/s per port, 200 Mb/s Combined				
		100Base-TX (Full-Duplex)	200 Mb/s per port, 400 Mb/s Combined				
		1000Base-TX (Half and Full-Duplex)	1000Mb/s per port, 2000 Mb/s Combined				
	Connector	RJ-45					
	Cable Support	10Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)				
		10/100/1000Base-TX	Category 5 UTP; up to 328 ft (100 m)				
HP H220i Host Bus Adapter	Disk Drive and Enclosure Interface - Transfer rate	6Gb/s SAS (Serial Attachec 6Gb/s SATA (Serial ATA)	I SCSI)				
	SAS Connectors	2 internal 4X connectors					
	Server Interface	x8 PCIe 3.0 provides 8GB/s	s maximum bandwidth				
	SAS Speed	6Gb/s SAS links provide 4.8	8GB/s maximum bandwidth				
	Cache Memory	None					
	Physical Drives Supported	Up to 8 physical drives					
	Hot Plug Support	Yes					
	RAID Support	None					
Environment-friendly Products and Approach	End-of-life Management and Recycling	It 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.					



Technical Specifications

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:
21-Aug-2015	From version 38 to 39	Updated	Changes made throughout the QuickSpecs.
01-Nov-2014	From version 37 to 38	Changed	Service and support updated
18-Aug-2014	From Version 35 to 36	Changed	Updated Hard Drives, Computational and Graphics
-		-	Accelerators (two locations), and added a section for HP
			Storage Options.
20-Jun-2014	From Version 34 to 35	Changed	Changes made in the Overview, Core and Additional
			Options sections.
10-Jun-2014	From Version 33 to 34	Changed	Service and Support, Memory, Hard Drives, Insight
			Software, Cloudera Licensing, PCIe Workload Accelerator
			Options, and USB and SD Options were revised.
31-Mar-2014	From Version 32 to 33	Changed	Changes made throughout the QuickSpecs.
18-Feb-2014	From Version 31 to 32	Changed	Changes made throughout the QuickSpecs.
24-Jan-2014	From Version 30 to 31	Changed	Updated Descriptions in the Configuration Information
			section.
17-Jan-2014	From Version 29 to 30	Changed	Memory and Tape Backup were revised.
16-Dec-2013	From Version 28 to 29	Changed	Changes made to the North America and Canada versions
			only.
11-0ct-2013	From Version 27 to 28	Changed	Updating supported options.
03-0ct-2013	From Version 26 to 27	Changed	Correction made in the Core Options/ Hard Drives and in
			the GPU Computing Modules sections.
13-Sep-2013	From Version 25 to 26	Removed	Note was removed from Upgradeability in Standard
10 5 2012			Features.
10-Sep-2013	From Version 24 to 25	Added	E5-2600 v2 series Processors, Memory, Controllers, and
			NICs were added
			Canonical Ubuntu was added to Operating Systems and
			Virtualization Software Support for ProLiant Servers
			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
			HP Storage Options was added to Additional Options
23-Jul-2013	From Version 23 to 24	Changed	Step 1 notes section was revised in Configuration
			Information - Factory Integrated Models.
05-Jul-2013	From Version 22 to 23	Changed	GPU Computing Modules was revised
15-May-2013	From Version 21 to 22	Added	Additional Options: Added HP PCIe Workload Accelerator
			Options and HP Basic Power Distribution Units sections.
		Changed	Standard Features: Updated Processor, Maximum Internal
			Storage, Common Slot Power Supplies and GPU
			Computing Modules sections.
			Configuration Information-Factory Integrated Models:
			Updated Step1A, Step 2 and Step 3.
			Core Options: Updated HP Unique Options, HP Processors,
			HP Hard Drives, HP Networking and HP InfiniBand
			sections.
			Additional Options: Updated HP Insight Software, GPU
			Computing Modules, HP Rack Options and HP USB and SD



Summary of Changes

			Options sections.
29-Apr-2013	From Version 20 to 21	Changed	Core Options: Updated HP Enterprise Configurator to HP
-		_	Simple Configurator section.
25-Mar-2013	From Version 19 to 20	Added	Preconfigured Models: Removed 659042-B21 and
			654939-B21 for the section
			Configurations Information - Factory Ingetrated Models:
			Removed 654393-B21 and 654940-B21 Step 1 section.
			Additional Options: Removed A0C39A from the GPU
			Computing Models section.
01-Mar-2013	From Version 18 to 19	Added	Core Options: Added 665240-B21 and 665243-B21 to HP Networking section.
22-Feb-2013	From Version 17 to 18	Changed	Changes made in the Models and Standard Features
22-FEU-2015		Changeu	sections.
19-Feb-2013	From Version 16 to 17	Added	Added support for Intel's Xeon Phi 5110p Coprocessor.
04-Dec-2012	From Version 15 to 16	Changed	Change made in Standard Features section.
19-0ct-2012	From Version 14 to 15	Changed	Change made to sku description in Additional Options
		e	section.
05-0ct-2012	From Version 13 to 14	Changed	Description change mad in the Additional Options section.
24-Sep-2012	From Version 12 to 13	Changed	Changes were made in Overview, Standard Features,
		-	Optional Features, Additional Options and Technical
			Specifications sections.
24-Aug-2012	From Version 11 to 12	Changed	Changes made throughout the QuickSpec.
22-Aug-2012	From Version 10 to 11	Removed	Removed a discontinued sku from the Configuration
			Information section.
14-Aug-2012	From Version 9 to 10	Removed	Removed note from Standard Features, Configuration
10.1. 0010			Information and Core Options sections.
13-Aug-2012	From Version 8 to 9	Changed/Add ed/Removed	Changes made throughout the QuickSpec.
		-	Added What's New and Step 4 Additional Options for
			Factory Integration Options Nodes.
			Removed HP Power Supplies, HP SL Advanced Power
			Manager, HP Power Cords and HP Rack Series Nodes.
03-Jul-2012	From Version 7 to 8	Changed	Changes made throughout the QuickSpec.
04-Jun-2012	From Version 6 to 7	Removed	Removed two processors from the Standard Features
			section.
18-May-2012	From Version 5 to 6	Changed	Changes made to the Processors section of Standard
			Features.
16-May-2012	From Version 4 to 5	Changed	Changes made in the Standard Features, Models, Options
			and Memory sections.
13-Apr-2012	From Version 3 to 4	Changed	Memory section and Server Interface in HP H220i Host
26.14. 2012			Bus Adapter were revised.
26-Mar-2012	From Version 2 to 3	Changed	Changes made in the Memory and Options section.
07-Mar-2012	From Version 1 to 2	Changed	Change made in the Optional Features section.



HP ProLiant SL250s Generation 8 (Gen8)

Summary of Changes

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

