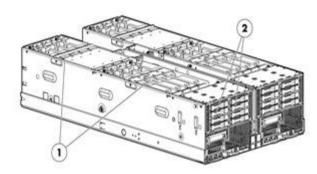
Overview

The HP ProLiant SL270s Gen8 Server is part of the HP ProLiant SL6500 Scalable System of server solutions designed for the Hyperscale and High Performance Computing (HPC) market segments. It reduces solution costs, maximizes power efficiency, and eases customer serviceability.

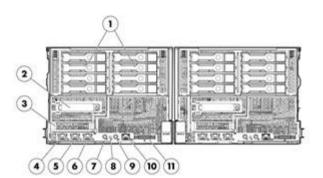
The HP ProLiant s6500 Chassis can accommodate two 2U, half-width SL270s Gen8 Servers, each individually serviceable. The SL270s Gen8 is designed for extreme rack level graphics processing unit (GPU) density, with up to 16 accelerators capable of being implemented in one chassis, reducing the complexity of required adapters and cabling.

The chassis features front cabling and common slot power supplies and fans for ease of service. The HP ProLiant SL270s Server is ideal for HPC applications in Oil & Gas, Life Sciences, Manufacturing, Research, and Finance.



4U Open View:

- 1. Eight accelerator location
- 2. Eight front SFF Hot Plug drives



4U Front View:

- 1. Eight front SFF Hot Plug drives
- FlexibleLOM Slot
- 3. PCIe Expansion Slot
- 4. Dedicated iLO4 Management Port
- 5. (1) 1GbE Ports
- 6. (1) 1GbE Ports
- 7. Power Button
- 8. Health LED
- 9. UID LED
- 10. Serial Port
- 11. SUV (Serial/USB/Video)

What's New

Updated information pertaining to availability of various options



Standard Features

NOTE: The SL270 Gen8 (Node SKU's 654947-B21, 654948-B21) accommodates E5-2600 processors. Any time an SL270 Gen8 SE server (Node SKU's 739055-B21, 739056-B21) is mentioned, this document is referring to the version of that server that accommodates E5-2600v2 processors.

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

NOTE: The HP ProLiant SL270s Gen8 Server can accommodate E5-2600 series processors, while the HP ProLiant SL270s Gen8 SE Server can accommodate E5-2600v2 series processors.

Processor

E5-2600 v2 series Processors

One of the following depending on Model

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 to 1600MHz 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, Turbo2-2/2/2/2/2/2/3/4)

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.

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

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

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

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

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 to 1333MHz 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)



Standard Features

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-

4/4/5/5/6/6/7/7)

5/5/6/6/7/7/8/8)

Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/8.0GT-s QPI/115W, DDR3-1600, HT, Turbo2-4/4/5/5/6/6/7/7)

Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1600, HT, Turbo2-

Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1600, HT, Turbo2-4/4/5/5/5/7/8/8)

Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/8.0GT-s QPI/70W, DDR3-1600, HT, Turbo2-2/2/3/3/4/4/5/5)

Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/8.0GT-s QPI/80W, DDR3-1600, HT, Turbo2- 5/5)

NOTE: HT indicates that the processor model supports Intel® Hyper-Threading Technology. **NOTE**: Turbo indicates the maximum potential frequency increment when using Intel® Turbo

Boost Technology, with 8, 7, 6, 5, 4, 3, 2 or 1 core(s) active.

NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

NOTE: Up to 2 processors supported. Mixing different processor models is not supported. **NOTE:** For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, and x = L for low power SKUs.

Cache Memory

One of the following depending on Model

30MB (1x30MB) Level 3

NOTE: For Twelve-core processors.

25MB (1x25MB) Level 3

NOTE: For Ten-core processors.

20MB (1x20MB) Level 3

NOTE: For Eight-core processors.

15MB (1x15MB) Level 3

NOTE: For Six-core processors.

10MB (1x10MB) Level 3

NOTE: For Quad-core processors.

5MB (1x5MB) Level 3

NOTE: For Dual-core processors.

Chipset

Intel® E5-2600 Processor Family Intel® E5-2600v2 Processor Family

NOTE: For more information regarding Intel® chipsets, please see the following URL:

http://www.intel.com/products/server/chipsets/.

Upgradeability

Upgradeable to two processors



Standard Features

On System HP iLO (Firmware: HP iLO 4)

Management Chipset NOTE: For more information, visit: http://www.hp.com/go/ilo.

Memory Protection Advanced ECC (multi-bit error protection)

Memory Type HP SmartMemory

DDR3 Registered (RDIMM) or Unbuffered (UDIMM)

DIMM Slots Available 16 total DIMM Slots available

Standard (Base Models) 8GB (2x 4G) Registered DIMMs (1333MHz)

Maximum (RDIMM) (per 256GB (16 x 16GB) Registered memory configurations

server tray)

Maximum (UDIMM) (per 128GB (16 x 8GB)

server tray)

Maximum (LRDIMM) 512GB (16 x 32GB) LRDIMM memory configurations

(per server tray)

NOTE: HP memory from previous generation servers are not qualified or warranted with this HP ProLiant Server. To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html **NOTE:** RDIMM and UDIMMs are all distinct memory technologies and cannot be mixed within a

server.

NOTE: HP certified SmartMemory must be used to guarantee full 1600MHz speeds.

NOTE: Depending on the memory configuration and processor model, the memory speed may run at 1866MHz, 1600MHz, 1333MHz, or 1066MHz. Please see the Online Memory Configuration

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

NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy

Efficient Features, see: www.hp.com/go/proliant-energy-efficient.

Network Controller HP Ethernet 1Gb 2-port 361i Adapter

Expansion Slots	Expansion Slots	Technology	Bus Width*	Connector Width	Form Factor	Notes
	Low Profile	PCle 3.0	x8	x8	Half-length, half-height	Front Panel Access
	FlexibleLOM	PCle 3.0	x8	x8	FlexibleLOM	Front Panel Access
	All 8 GPU Slots	PCle 3.0	x16	x16	Full-length, full height	GPU only

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

NOTE: NVIDIA Tesla K2 runs at PCle Gen3.0. All other accelerators run at Gen2.0.



Standard Features

HP Server ROM

HP ROM (Read Only Memory) is now digitally signed using HP's Corporate Signing Service. This signature is verified before the flash process starts, reducing accidental programming and preventing malicious efforts to corrupt system ROM.

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

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

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

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

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

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HP H220i Host Bus Adapter (B320i Dynamic Smart Array with FW update)

Internal Storage Devices

Diskette Drives **Optical Drives** Hard Drives

Via USB through the SUV port, external support only Via USB through the SUV port, external support only

None ship standard

Maximum Internal Storage

4U Half Width tray

Hot Plug SATA SFF 2.5"	8.0 TB	8 x 1TB
Hot Plug SAS SFF 2.5"	9.6TB	8 x 1.2TB
Hot Plug SATA SSD 2.5"	6.4TB	8 x 800GB
Hot Plug SAS SSD 2.5"	6.4TB	8 x 800GB



Standard Features

Interfaces Network RJ-45 Two 1GbE NIC ports

FlexibleLOM ProLiant Gen8 servers offer a new networking technology - Flexible

Network Technology. The SL270s Gen8 server offers the customer the choice of 1Gigabit, 10Gigabit or InfiniBand FlexibleLOM solutions depending on workload. For further details on the choices, see FlexibleLOM in the Networking Section of this document for further

details.

KVM Serial USB Video Port (SUV)

Micro SD 1 (internal)
USB Ports 1 (internal)
HP iLO Remote 1 Gb Dedicated

Management Network

Port

Health LED 1 front
Power 1 front
UID 1 front

Industry Standard Compliance

ACPI 2.0b Compliant 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 download at URL: 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



Standard Features

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% and are available in three power output options - 750W, 1200W and 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: 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

HP s6500 Redundant Fan Kit

NOTE: This kit includes only 1 fan, but the chassis requires 8 fans **NOTE:** This selection must be ordered in quantities of 8 (PN 617856-B21)

HP s6500 Non-Redundant Fan Kit

NOTE: This kit includes only 1 fan, but the chassis requires 8 fans **NOTE:** This selection must be ordered in quantities of 8 (PN 617858-B21)

NOTE: all 8 fan bays must be populated with either redundant or non-redundant fans

NOTE: mixing and matching of fans is not allowed

Operating Systems and Microsoft Windows Server

Virtualization Software Canonical Ubuntu

Support for ProLiant Servers

Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES)

VMWare Citrix XenServer

NOTE: For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from HP, please visit our OS Support Site at: http://www.hp.com/go/ossupport and our driver download page: www.hp.com/support/SL270sGen8



Standard Features

Graphics

Integrated Matrox G200 video standard

- 1280 x 1024 (32 bpp)
- 1920 x 1200 (16 bpp)

HP iLO 4 On System Management Memory

- 16 MB Flash
- 256 MB DDR 3 with ECC (112 MB after ECC and video)

Form Factor

Fully configured SL270 is 4U, half-width

Fully configured s6500 chassis is 4U, full-width

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 iLO Mobile App: Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: www.hp.com/go/ilo/mobileapp

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



Standard Features

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.

The Service Pack for ProLiant has been rigorously tested with specific attention for interaction between firmware, drivers and agents both within the server as well as in interaction with the BladeSystem enclosure components (Onboard Administrator and Virtual Connect). This testing ensures the highest quality as well as providing the input for HP SUM to deploy updates taking into account all interdepencies, when determining the correct updates and order of update deployment.

NOTE: The Service Pack for ProLiant (which includes HP SUM) can be downloaded from www.hp.com/go/spp/download. More information can be found: http://www.hp.com/go/SmartUpdate, 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



Standard Features

Warranty

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. 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.



Optional Features

HP	Insight
Ma	nagement

HP Insight Control

HP Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hp.com/go/insightcontrol.

HP Insight Control includes one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, see: http://www.hp.com/services/insight.

HP iLO Advanced

HP Integrated Lights-Out Advanced License a product option, providing smart remote server management without compromise. iLO Advanced unlocks the full set of remote administration functionality for all HP ProLiant servers by activating the full Virtual Keyboard Video and Mouse remote console, multi-user collaboration, console record and replay, GUI-based and scripted virtual media and virtual folders, and enhanced security and power management functionality. For more information, see: http://www.hp.com/go/iloadvance

HP iLO Scale-Out

The HP iLO Scale-Out license ideal for web/hosting/cloud service providers and High Performance Computing environments. This license is a specific subset of iLO Advanced functionality, provides fast remote access through Text Console via SSH, lower operational cost with Dynamic power capping, and faster time to resolution through Emailbased Alerting and proactive notifications. With this newly designed HP iLO Scale-Out license HPC customers now have a server management package solely design and priced for their massive data environments. HP iLO Scale-Out is available on all HP ProLiant Gen8 SL and BL and DL 160 servers. For more information, see:

HP Matrix Operating Environment

The HP Matrix Operating Environment (Matrix OE) for ProLiant and Integrity servers is an integrated command center that helps you instantly adjust to dynamic business demands. This advanced infrastructure management software lets you reduce the cost of common data center tasks by up to 40 percent while keeping pace with your changing business.

http://www.hp.com/go/iLO/scale-out

The HP Matrix OE includes the automated provisioning, optimization, and recovery management capabilities for HP CloudSystem Matrix, the ideal platform for private cloud and Infrastructure as a Service (laaS).

NOTE: For more information, visit: http://www.hp.com/go/matrixoe

Optional Features

High Performance Clusters

HP Cluster Platforms

HP Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPC Server. A Cluster Platform Configurator simplifies ordering.

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

HP HPC Interconnects

High Performance Computing (HPC) interconnect technologies are available for this server as part of the HP Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by HP when integrated within an HP cluster. Flexible, validated solutions can be defined with the help of configuration tools.

http://www.hp.com/techservers/clusters/ucp/index.html

HP Insight Cluster Management Utility HP Insight Cluster Management Utility (CMU) is an HP-licensed and HP-supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective. http://www.hp.com/go/cmu

Storage Software

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

• Data Protection and Recovery Software

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

• Data Archive and Migration Software

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

Storage Resource Management Software (SRM)

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

• Data Replication Software

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

Storage Device Management Software

Maximize your investment in HP storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.

HP StoreVirtual VSA

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

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



Optional Features

HP Insight Online

HP Insight Online is a new addition to the HP Support Center for one stop, secure access to product and HP support information personalized to your IT environment. Insight Online can automatically display devices remotely monitored by HP Insight Remote Support. With Insight Online's easy navigation you can efficiently track your IT support contracts and device status from anywhere and at anytime. www.hp.com/go/insightonline

Factory Express Portfolio for Servers and Storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSAxxxx, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.

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 SL270s tray will accommodate up to eight computational or graphics accelerators, with options including NVIDIA Tesla K20, K20x, K40 and K80 GPUs, NVIDIA GRID K2 GPUs, Intel® Xeon Phi™ 5110p and AMD S9150 Firepro Coprocessors.

NOTE: The maximum number of NVIDIA Tesla K20, K20x and K40 GPUs and Intel® Xeon Phi[™] 5110p coprocessors supported is 8. The maximum number of NVIDIA GRID K2 and K80 GPUs is 4. The maximum number of HP AMD FirePro S9150 Accelerators is 6.

NOTE: The NVIDIA GRID K2 and K80 operate at PCle Gen 3. All other accelerators operate at PCle Gen 2.

NOTE: When adding accelerators to the SL270s servers, one must utilize the HP 1200W CS Platinum Power Supply Kit, 578322-B21, or the HP1500W CS Platinum Power Supply Kit, 684532-B21, for all four power supply slots.

NOTE: When adding Nvidia Tesla K2, K20, K20X or K40 accelerators to the SL270s servers, one must utilize the HP SL270 NVIDIA GPU Enablement Kit. When adding Intel Xeon Phi 5110p Coprocessors, one must utilize the HP SL270 Coprocessor Enablement Kit.

NOTE: When adding Nvidia Tesla K80 accelerator to the SL270s servers, one must utilize the HP SL270 K80 GPU Enablement Kit.

NOTE: When adding AMD S9150 Firepro accelerator to the SL270s servers, one must utilize the HP SL270 AMD GPU Enablement Kit.

NOTE: When implementing 7 or 8 accelerators, one must utilize the HP 1500W CS Platinum Power Supply Kit, 684532-B21.

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 PCle Gen2.

NOTE: The NVIDIA Tesla K40 and K80 and AMD S9150 Firepro are only supported on E5-2600v2 processors.



Service and Support

Service and Support

The SL270s 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.

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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



Configuration Information - Factory Integrated Models

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

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

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

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

NOTE: s6500 Chassis cannot have a mix of SL270s with 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

614167-B21

NOTE: You must choose Power Supplies and fans as the chassis does not

include them.

NOTE: If you already have a 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 622372-B21 needs to be ordered for each half width 1U space unpopulated.

HP Server Nodes

HP ProLiant SL270s Gen8 1U Left Half Width Tray Configure-to-order Server

NOTE: Server node is only available for E5-2600 processors.

HP ProLiant SL270s Gen8 SE 4U Left Tray Configure-to-order Server

NOTE: Server node is only available for E5-2600v2 processors.

HP ProLiant SL270s Gen8 1U Right Half Width Tray Configure-to-order Server

NOTE: Server node is only available for E5-2600 processors.

HP ProLiant SL270s Gen8 SE 4U Right Tray Configure-to-order Server

NOTE: Server node is only available for E5-2600v2 processors.

NOTE: Server node is only available for E5-2600v2 processors.

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.

NOTE: All E5-2600v2 processors must be paired with 739055-B21 or 739056-

B21 Tray Node Servers

HP SL2x0s Gen8 Intel® Xeon® E5-2609v2 (2.5GHz/4-core/10MB/80W) FIO 725942-L21

Processor Kit

Base Processors

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

HP SL2x0s Gen8 Intel® Xeon® E5-2630v2 (2.6GHz/6-core/15MB/80W) FIO 725941-L21

Processor Kit

HP SL2x0s Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) FIO 725943-L21

Processor Kit



Configuration Information - Factory Integrated Models

mation - Factory Integrated Models	
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) 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. NOTE: All E5-2600 processors must be paired with 654947-B21 or 654948-B21 Tray Node Servers	
HP SL270s Gen8 Intel® Xeon® E5-2609 (2.4GHz/4-core/10MB/80W) FIO Processor Kit	662341-L21
HP SL270s Gen8 Intel® Xeon® E5-2603 (1.8GHz/4-core/10MB/80W) FIO Processor Kit	662342-L21
Base Processors	
NOTE: All support up to1333MHz DDR3 memory speeds. HP SL270s Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) FIO Processor Kit	662338-L21
HP SL270s Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) FIO Processor Kit	662339-L21
HP SL270s Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) FIO Processor Kit	662340-L21
HP SL270s Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/60W) FIO Processor Kit	662347-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 SL270s Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit	662334-L21
HP SL270s Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit	662335-L21
HP SL270s Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO Processor Kit	662336-L21
HP SL270s Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) FIO Processor Kit	662337-L21
HP SL270s Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) FIO Processor Kit	662346-L21



HP SL270s Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) FIO

Processor Kit

662345-L21

Configuration Information - Factory Integrated Models

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 be mixed within a server. The majority of ProLiant Gen8 servers support LRDIMM, RDIMM and UDIMMs.

Registered DIMMs (RDIMMs)

Registered Diminis (RDIMINIS)	
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)	

Registered DIMMs (RDIMMs

NOTE: The following memory is supported by the E5-2600 series Proce	essors.	
HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registere Low Voltage Memory Kit	ed CAS-9	647893-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered Memory Kit	d CAS-11	647895-B21

HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21

HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-	647901-B21

HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-	647901-B21
9 Low Voltage Memory Kit	
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-	672631-B21
11 Memory Kit	

Unbuffered with ECC DIMMs (UDIMMs)

Memory Kit

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

HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS 13 Memory Kit	S- 708631-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS Low Voltage Memory Kit	S-11 713977-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-	-13 708633-B21



Configuration Information - Factory Integrated Models

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	708635-B21
Memory Kit	
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	669324-B21
Memory Kit	
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.	
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
NOTE: This memory is 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: www.hp.com/go/ddr3memory-configurator.	
NOTE: Kits described as LP include Low Power DIMMs. For more information on	
ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient	

Step 4: Choose Additional Factory Integratable Options

NOTE: PC3L is a low voltage memory

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 Ethernet 10Gb 2-port 561FLR-T FIO Adapter NOTE: Can only be paired with M2070 and M2090 GPU Kits	700700-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: 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



Configuration Information - Factory Integrated Models

Step 5: Choose Additional Options for Factory Integration

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



Core Options

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

the use of an HP approve	ed configurator. Contact your local sales representative for additional information.	
HP Unique Options	HP SL270 NVIDIA GPU Enablement Kit NOTE: Required when ordering NVidia Tesla K2, K20, or K20x Modules.	711951-B21
	HP SL270 Coprocessor Enablement Kit NOTE: Required when ordering Intel Xeon Phi 5110p Coprocessor.	711970-B21
	HP SL270 K80 GPU Enablement Kit NOTE: Required when ordering NVidia Tesla K80 Modules.	814622-B21
	HP SL270 AMD GPU Enablement Kit	813861-B21

NOTE: Required when ordering AMD S9150 Firepro Accelerator.

HD Drocesors	F5-2600 v2 sories Processors

Entry Processors

NOTE: All support up to 1333MHz memory speeds.

HP SL2x0s Gen8 Intel® Xeon® E5-2609v2 (2.5GHz/4-core/10MB/80W) 725942-B21 Processor Kit

Base Processors

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

HP SL2x0s Gen8 Intel® Xeon® E5-2630v2 (2.6GHz/6-core/15MB/80W) 725941-B21
Processor Kit

HP SL2x0s Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) 725943-B21

HP SL2x0s Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) Processor Kit

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) 725944-B21 Processor Kit

HP SL2x0s Gen8 Intel® Xeon® E5-2680v2 (2.8GHz/10-core/25MB/115W) 725937-B21

Processor Kit

HP SL2x0s Gen8 Intel® Xeon® E5-2670v2 (2.5GHz/10-core/25MB/115W) 725938-B21 Processor Kit

HP SL2x0s Gen8 Intel® Xeon® E5-2660v2 (2.2GHz/10-core/25MB/95W) 725939-B21
Processor Kit

HP SL2x0s Gen8 Intel® Xeon® E5-2650v2 (2.6GHz/8-core/20MB/95W) 725940-B21 Processor Kit

E5-2600 Series Processors

Entry Processors

NOTE: All support up to 1066MHz memory speeds.

HP SL270s Gen8 Intel® Xeon® E5-2603 (1.8GHz/4-core/10MB/80W) Processor Kit

Base Processors

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

HP SL270s Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor 662338-B21 Kit

HP SL270s Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor 662339-B21 Kit



Core Options

HP SL270s Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit	662340-B21
HP SL270s Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/60W) Processor Kit	662347-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 SL270s Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) Processor Kit	662334-B21
HP SL270s Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit	662335-B21
HP SL270s Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit	662336-B21
HP SL270s Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit	662337-B21
HP SL270s Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit	662346-B21
HP SL270s Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit	662345-B21

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 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

Registered DIMMs (RDIMMs)

13 Memory Kit

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

HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-

HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit



708641-B21

Core Options

HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS- 11 Memory Kit	672631-B21
Unbuffered with ECC DIMMs (UDIMMs)	
NOTE: The following memory is supported by the E5-2600 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.	
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	708643-B21
CAS-13 Memory Kit NOTE: This memory is supported by the E5-2600 v2 series Processors.	700043-621
	647002 D24
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit NOTE: This memory is 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: www.hp.com/go/ddr3memory-configurator.	
NOTE: Kits described as LP include Low Power DIMMs. For more information on	
ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient	



NOTE: PC3L is a low voltage memory.

Core Options

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.

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
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 HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive

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

6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives

HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive



655710-B21

655708-B21

717965-B21

Core Options

HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739888-B21
HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive	734360-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717969-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717973-B21
6G SATA ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691868-B21
HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691866-B21
HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691864-B21
HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691862-B21
6G SAS ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State 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 800GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690829-B21
HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690827-B21
HP 200GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690825-B21
6G SAS SLC Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives	
HP 400GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive	653082-B21
HP 200GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive	653078-B21
NOTE: The mixing of standard SAS drives with SAS SSD drives is supported within the server, but limits the RAID configuration to two separate RAID 0 volumes. Mixing of other drives types is not supported. NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14038 div/14038 div.html	
(Worldwide)	
12G SAS VE Hot Plug SFF (2.5-inch) Value Endurance Solid State 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 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	762261-B21
Solid State Drive HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21



Core Options

Options		
	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
	12G SAS ME Hot Plug SFF (2.5-inch) Mainstream Endurance Solid State 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 200GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741138-B21
	HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741142-B21
	HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	741146-B21
	12G SAS HE Hot Plug SFF (2.5-inch) High Endurance Solid State 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 200GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741151-B21
	HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741155-B21
	HP 800GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741159-B21
tworking	Gigabit Ethernet Adapters	=00=10 B01
	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
	HP NC365T 4-port Ethernet Server Adapter	593722-B21
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	10 Gigabit Ethernet adapters 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 530SFP Adapter	652503-B21
	UD 50 44004 0 4 5005 4 1	0=0=00 DC:



HP Ethernet 1Gb 4-port 331FLR Adapter

HP Ethernet 1Gb 4-port 366FLR Adapter HP FlexFabric 10Gb 2-port 526FLR-SFP+ Adapter

HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter

HP FlexFabric 10Gb 2-port 533FLR-T Adapter HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter

HP Netv

HP Ethernet 10Gb 2-port 530T Adapter 656596-B21

HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter

716591-B21 NOTE: Can only be paired with M2070 and M2090 GPU Kits

HP NC552SFP 10Gb 2-port Ethernet Server Adapter

614203-B21 FlexibleLOM Adapters

629135-B21 665240-B21 629138-B21

647581-B21

700759-B21 700751-B21



HP ProLiant SL270s Generation 8 (Gen8

QuickSpecs

Core Options

HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter	629142-B21
HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
NOTE: Can anly be naired with M2070 and M2000 CDLLKite	

NOTE: Can only be paired with M2070 and M2090 GPU Kits

NOTE: Please see the QuickSpecs for Technical Specifications and additional

information: www.hp.com/go/ProLiantNICs

HP InfiniBand

QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA

583211-B21

HP Infiniband FDR/Ethernet 10Gb/40Gb 2-port 544QSFP Adapter

649281-B21

NOTE: Dual port ConnectX-3 FDR/QDR IB or 40/10GbE. No IB Enablement Kit required

FlexibleLOM Adapters

HP Infiniband FDR/Ethernet 10Gb/40Gb 2-port 544FLR-QSFP Adapter 649282-B21

NOTE: Dual port ConnectX-3 FDR/QDR IB or 40/10GbE. No IB Enablement Kit required.

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



C6N36ABE

BD883A

C6N31A

BD776A

BD777A

BD778A

BD779A

512485-B21

BD505A

E6U59ABE

E6U64ABE

BD778AAE

QuickSpecs

Additional Options

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

HP Insight Software	HP Insight Control

HP Insight Control including 1yr 24x7 Technical Support and Updates Single C6N27A Server License

HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic C6N28ABE License

HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO

Electronic License
HP Insight Control Server Provisioning Media Kit

HP Insight Management Media Kit

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

HP Integrated Lights-Out Scale-Out including 3yr 24x7 Tech Support and Updates Tracking License

HP Integrated Lights-Out Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E-LTU

HP Integrated Lights-Out Scale-Out 1yr 24x7 Tech Support and Updates Flex Quantity License

HP Integrated Lights-Out Scale-Out including 1yr 24x7 Tech Support and Updates Tracking License

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/iclinux (click on Download button).

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

HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates
HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU
HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU

NOTE: For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_div/14276_div.html **NOTE:** For more information, visit: http://www.hp.com/go/ilo



Additional Options

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 a support agreement.	BD476A
	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 SL270 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 G7M30AAE
	Cloudera EDH Ed 1yr 8x5 E-LTU Cloudera EDH Ed 1yr 24x7 Premium E-LTU	G7M31AAE
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) PCle 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) PCle Workload Accelerators	
	HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763834-B21
	HP 1.6TB HH/HL Value Endurance (VE) PCle Workload Accelerator	763836-B21
	HP 3.2TB HH/HL Value Endurance (VE) PCle Workload Accelerator	763838-B21
	HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14528_div/14528_div.html	



(Worldwide)

Additional Options

Computational and **Graphics Accelerators**

NOTE: Each SL270s tray will accommodate up to eight accelerators. Max number of accelerators is 8 unless explicitly stated.

NOTE: When adding accelerators to the SL270s server, one must utilize the HP 1200W CS Platinum Power Supply Kit, 578322-B21, or HP 1500W CS Platinum Power Supply Kit, 684532-B21 for all four power supply slots.

NOTE: When implementing 7 or 8 accelerators, one must utilize the HP 1500W CS Platinum Power Supply Kit, 684532-B21.

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

NVIDIA GRID K2 Dual GPU PCIe Graphics Accelerator	729851-B21
NOTE: Only supported with E5-2600v2 Processor Kits	
NOTE: Maximum number of Grid K2 GPU Kits in an SL270 is four (4)	
NOTE: 8GB Host System Memory required per Virtual Machine (VM)	
NVIDIA Tesla K10 Rev B Dual GPU PCIe Computational Accelerator	F5V47A

∟5V47A NOTE: Only supported with E5-2600v2 Processor Kits C7S14A NVIDIA Tesla K20 5 GB Computational Accelerator

NVIDIA Tesla K40 12 GB Computational Accelerator NVIDIA Tesla K80 Computational Accelerator AMD S9150 Firepro Computational Accelerator

NOTE: This module, on the SL270s, is supported as a PCIe Gen 2 device NOTE: Only supported with E5-2600v2 Processor Kits

NVIDIA Tesla K20X 6 GB Computational Accelerator NOTE: For additional information on NVidia accelerators, please see the

QuickSpecs at:

http://h18004.www1.hp.com/products/quickspecs/14576_div/14576_div.html

Intel Xeon Phi Coprocessor Modules for HP ProLiant Servers

Intel® Xeon® Phi 5110P (8GB/225W) Coprocessor Kit NOTE: For additional information on Intel Xeon Phi coprocessors, please see the QuickSpecs at:

http://h18000.www1.hp.com/products/guickspecs/14441 div/14441 div.html

Enablement Kits

HP SL270 NVIDIA GPU Enablement Kit	711951-B21
NOTE: Required when ordering NVidia Tesla K2, K20, or K20x Modules.	
HP SL270 Coprocessor Enablement Kit	711970-B21

NOTE: Required when ordering Intel Xeon Phi 5110p Coprocessor.

NOTE: Required when ordering NVidia Tesla K80 Modules.

HP SL270 K80 GPU Enablement Kit

HP SL270 AMD GPU Enablement Kit

NOTE: Required when ordering AMD S9150 Firepro Accelerator.



F1R08A

J0G95A

J0H11A

C7S15A

C1P87A

814622-B21

Additional Options

HP Storage Controllers SAS Controllers

631667-B21
631670-B21
631671-B21
631673-B21
631674-B21
698529-B21
676473-B21
668944-B21
670564-B21
670566-B21
740024-B21
BC393A
D7S26A
D7S27A
D7S27AAE

Host Bus Adapter

HP H220 Host Bus Adapter	650933-B21
HP H221 PCIe 3.0 SAS Host Bus Adapter	729552-B21
HP H222 Host Bus Adapter	650926-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18004.www1.hp.com/products/quickspecs/14336_div/14336_div.html (HBA 220)

http://h18004.www1.hp.com/products/quickspecs/14222_div/14222_div.html

http://h18004.www1.hp.com/products/quickspecs/14337_div/14337_div.html (HBA 222)



Additional Options

HP Uninterruptible
Power Systems

HP Rack-mountable UPS

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

AF471A

NOTE: Please see the QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/14059_div/14059_div.html (Worldwide)

HP R/T3000 G2 Uninterruptible Power System (UPS)

HP R/T3000 G2 2U 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

AF468A

System

NOTE: Please see the QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/14058_div/14058_div.html (Worldwide)

R5000 Uninterruptible Power System (UPS)

HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System

HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System

NOTE: Please see the QuickSpecs for additional information:

http://b18000.www1.hp.com/products/quickspecs/14109_div/14109_div/html

http://h18000.www1.hp.com/products/quickspecs/14109_div/14109_div.html (Worldwide)

R7000 Uninterruptible Power System (UPS)

HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14110_div/14110_div.html (Worldwide)

NOTE: For additional information on HP Uninterruptible Power Systems please go to: 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: www.hp.com/products/powercords.

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
HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader

HP Tape Storage Systems

HP StoreEver MSL6480

HP StoreEver MSL6480 Scalable Base Module

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18000.www1.hp.com/products/quickspecs/14604_div/14604_div.html (Worldwide)



C0L99A

C0H19A

QU625A

AF462A

AF463A

Additional Options

HP Disk Storage	Disk Enclosures	
Systems	HP D3600 Enclosure	QW968A
	NOTE: See the D3000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/14866_div/14866_div.html (Worldwide)	
	HP D3700 Enclosure	QW967A
	NOTE: See the D3000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:	Q 1100171
	http://h18000.www1.hp.com/products/quickspecs/14866_div/14866_div.html (Worldwide)	
	HP D2600 Disk Enclosure	AJ940A
	NOTE: See the D2000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html	
	(Worldwide) HP D2700 Disk Enclosure	AJ941A
	NOTE: See the D2000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html (Worldwide)	, 60 1 11 1
	HP D6000 Dual I/O Module Disk Enclosure	QQ695A
	NOTE: See the D6000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:	
	http://h18000.www1.hp.com/products/quickspecs/14419_div/14419_div.html (Worldwide)	
UD Davis Davis	LID 4 013//4 400 Malk L 5 00 Januar (40: NISMA 5 00D) NIA (ID Decis DD) L	11514540
HP Basic Power Distribution Units	HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDU HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU HP 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M54A H5M55A H5M56A H5M57A H5M58A H5M59A H5M60A H5M61A

Basic PDU

HP 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R)

HA 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R)

HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU

HP 7.3kVA 230 Volt IEC309 32A Input (20xC13) INTL Basic PDU

H5M68A

HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU

H5M70A

HP 11kVA 230 Volt IEC309 63A Input (30xC13/6xC19) INTL Basic PDU

H5M71A

HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic

PDU

HP 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU

HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xNEMA 5-20R) NA/JP

H5M62A

H5M63A

Additional Options

HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU	H5M73A
HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75A
HP 13.2kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU	H3X07A
HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU	H3X08A
HP 277 Volt options for H3X07A and H3X08A	
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
NOTE: 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:

www.hp.com/go/rackandpower.

HP Remote Monitoring Power Distribution

Units

ng	HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43A
	HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU	D9N44A
	HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45A
	HP 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

Additional Options

NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14669_div/14669_div.html (Worldwide)

HP Intelligent Power Distribution Units (iPDU)

iPDU Core Units	
HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	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
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	

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: www.hp.com/go/rackandpower.



Additional Options

HP Rack	Series
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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	AZ885A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

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

HP 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

HP USB BFR with PVC Free Intl Keyboard/Mouse Kit

672097-373

Additional Options

HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672007 122
·	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

HP Enterprise Mainstream Flash Media Kits for Memory Cards

HP 8GB microSD Enterprise Mainstream Flash Media Kit

T26116-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



Additional Options		
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 Collaborative Support	U1M52E
	HP 3 year 4 hour 24x7 ProLiant s6500 Hardware Support	UR402E
	HP 3 year 4 hour 24x7 ProLiant s6500 Proactive Care Service	U3C72E
	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 Collaborative Support	U1M46E
	HP 3 year Next business day ProLiant s6500 Hardware Support	UR398E
	HP 3 year Next business day ProLiant s6500 Proactive Care Service	U3C66E
	HP 3 year Next business day with Defective Media Retention ProLiant s6500 Hardware Support	UR399E
	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 s6500 Hardware Support	UR428E
	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 SL270s Gen8 Server

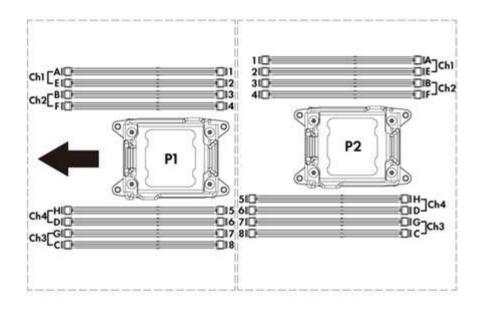
NOTE: Memory configurations listed do not apply to "Factory Integrated Models".

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: www.hp.com/go/ddr3memory-configurator

Each Intel® Xeon® E5-2600 family processor socket contains two memory channels that support four 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 256GB of memory (16 DIMM slots x 16GB per DIMM).



Memory Population Rules and Guidelines:

- 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.
- DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the memory type and number of installed processors.
- HP memory from previous generation servers is not qualified on the SL270s 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 SL270 Gen8 user guide at http://www.hp.com/support.



Memory

DIMM sl	ot/cap	acity/p	opula	ted sp	eed tal	ole										
DIMM						Reg	istered	DIMMS	S (RDIN	/Ms)						Load
Туре																Reduced
																(LRDIMMs)
DIMM			Singl	e Rank	(1R)						Dual Ra	Rank (2R)				Quad Rank
Rank																(4R)
DIMM	4GB	4GB	4GB	4GB	8GB	8GB	8GB	8GB	8GB	8GB	8GB	16GB	16GB	16GB	16GB	32GB
Capacity																
DIMM	1600	1333	1600	1866	1600	1600	1866	1333	1600	1600	1866	1333	1600	1600	1866	1866
Native																
Speed																
(MHz)																
Voltage	Std	LV	LV	Std	Std	LV	Std	LV	Std	LV	Std	LV	Std	LV	Std	Std
SLOTS 1	S THAT CAN BE POPULATED															
16 slot	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
servers																
MAXIMU	M CA	PACITY	/ (GB)*	:												
Capacity	64	64	64	64	128	128	128	128	128	128	128	128	256	256	256	256
		-														
POPULA	TED [DIMM S	PEED	(MHz)												
1 DIMM	1600	1333	1600	1866	1600	1600	1866	1333	1600	1600	1866	1333	1600	1600	1866	1866
Per																
Channel																
2 DIMM	1600	1333	1600	1866	1600	1600	1866	1333	1600	1600	1866	1333	1600	1600	1866	1866
PEr																
Channel																
* Maximi	ım can	acitv w	ill varv	based	on indi	vidual s	erver n	latform	gualifi	cation s	schedu	le				
	Maximum capacity will vary based on individual server platform qualification schedule															

DIMM slo	DIMM slot/capacity/populated speed table											
DIMM				l	Jnbuffered	d with ECC	J DIMMs /	(UDIMMs))			
Туре												
DIMM		Single R	ank (1R)					Dual Ra	ınk (2R)			
Rank												
DIMM	2GB	2GB	2GB	2GB	4GB	4GB	8GB	8GB	4GB	4GB	8GB	8GB
Capacity		<u> </u>	<u></u> /	لــــــا	لــــــا	لـــــــا	لــــــا	<u></u> !	لـــــــا	<u></u> /	لـــــــا	
DIMM	1333	1600	1600	1866	1333	1600	1333	1600	1600	1866	1600	1866
Native		1	1	1	1	1	1	1	1	1	1	1
Speed		1	1	1	1	1	1	1	1	1	1	1
(MHz)		<u> </u>	لـــــــا	لـــــــــا			لــــــــا	لـــــــا	لـــــــا	<u> </u>	لـــــــــا	
Voltage	LV	Std	LV	Std	LV	Std	LV	Std	LV	Std	LV	Std
SLOTS TI	HAT CAN	I BE POPI	ULATED									
16 slot	16	16	16	16	16	16	16	16	16	16	16	16
servers		<u> </u>	!		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	!		
MAXIMUN	/ CAPAC	CITY (GB)*	k									
Capacity	32	32	32	32	64	64	128	128	64	64	128	128
POPULA ¹	CED DIMI	M SPEED	(MHz)									
1 DIMM	1333	1600	1600	1866	1333	1600	1333	1600	1600	1866	1600	1866
Per	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Channel		1	1	1	1	1	1	1	1	1	1	1
Chamic												

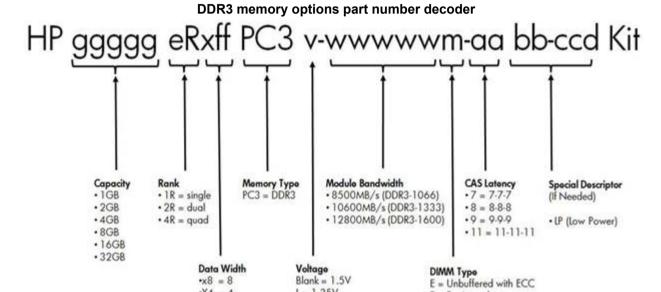


Memory

2 DIMM	1333**	1600	1600	1866	1333**	1600	1333**	1600	1600	1866	1600	1866
PEr												
Channel												

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

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



Blank = 1.5V

L= 1.35V

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

http://h18000.www1.hp.com/products/guickspecs/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.

x8 = 8 $\cdot X4 = 4$

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-	713981-B21
11 Low Voltage Memory Kit	
HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708637-B21
·	740000 DO4
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-	731765-B21
11 Low Voltage Memory Kit	
HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708639-B21
•	

R = Registered L = Load Reduced



^{**} For HP SmartMemory, UDIMM is supported at 2DPC@DDR3-1333. Third party memory may only support up to 2DPC@DDR3-1066.

Memory

HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	731761-B21
Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-	713985-B21
11 Low Voltage Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	708641-B21
Memory Kit	700041-021
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	647895-B21
Memory Kit	0.47007 504
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	647899-B21
Memory Kit UD 90D (1/20D) Dual Bank v4 DC3 13900D (DDD3 1600) Baristarad CAS 11	600000 B04
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	647901-B21
Low Voltage Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11	672631-B21
Memory Kit	072001-021
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-	713975-B21
11 Low Voltage Memory Kit	700004 504
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	713977-B21
Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13	708633-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	708635-B21
Memory Kit	
Unbuffered with ECC DIMMs (UDIMMs)	
NOTE: The following memory is supported by the E5-2600 series Processors.	000000 D04
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	647905-B21
Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11	669322-B21
Memory Kit	009322-021
HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9	647907-B21
Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11	669324-B21
Memory Kit	
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	708643-B21
CAS-13 Memory Kit	1 000-10-112
NOTE: This memory is supported by the E5-2600 v2 series Processors.	0.47000 50:
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
NOTE: This memory is supported by the E5-2600 series Processors.	



HP ProLiant SL270s Generation 8 (Gen8

QuickSpecs

Memory

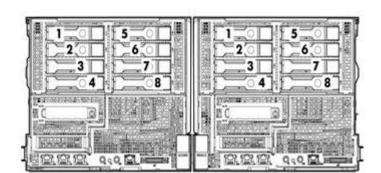
NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator.

NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient

NOTE: PC3L is a low voltage memory.



Storage



4U Tray

1-8 Up to eight 2.5" hot plug hard drive bays



Technical Specifications

System Unit Chassis Dimensions (H 6.96 x 17.638 x 35.236in (17.68 x 44.8 x 89.55cm)

x W x D) Add fan extension kit (with bezel)

Weight Maximum 220lb (99.8kg)

(all hard drives, power

supplies, and processors

installed)

Input Requirements (per power supply)

t Requirements 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

653.10W (at 100 VAC), 653.08W (at 200 VAC)

System Inlet Temperature

Operating

Power

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).

ldle

LWAd 6.4 LpAm 45dBA

Operating

LWAd 6.7



Technical Specifications

Emissions Classification

(EMC)

LpAm 51dBA FCC Rating Class A

Normative Standards CISPR 22; EN55022; EN55024; FCC CFR

47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN

60950-1; IEC 60950-1

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and

statements.

HP Ethernet 1Gb 2-port Network Interface

361i Adapter Compatibility

10Base-T/100Base-TX/1000Base-TX

IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T

IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS

IEEE 802.3az - Energy Efficient Ethernet (EEE)

Data Transfer Method PCI Express v 2.1, 5.0 GT/s and 2.5 GT/s bus speeds and supports for

x1, x2, x4 links widths (Lanes)

Controller I350 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- 100 Mb/s per port, 200 Mb/s Combined

Duplex)

100Base-TX (Full- 200 Mb/s per port, 400 Mb/s Combined

Duplex)

1000Base-TX (Half and

Full Duploy

1000Mb/s per port, 2000 Mb/s Combined

Full-Duplex)

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 Dynamic Smart Array B320i Controller **Dimensions** Embedded

Disk Drive Interface - Up to 6Gb/s SAS (Serial Attached SCSI)

Transfer rate Up to 6Gb/s SATA (Serial ATA)

Connectors 2 internal 4X connectors

Server Interface x4 PCle 2.0 provides 4GB/s maximum bandwidth

Speed 8 x 6Gb/s SAS links provide 4.8GB/s maximum bandwidth

Cache Memory Zero Memory RAID has no cache memory

optional 40-bit 512MB ECC protected Flash Backed Write Cache

(FBWC)

Logical Drives
Supported

ported Up to 64 logical drives with cache

Host Memory 64-bit, supporting great

Addressing

64-bit, supporting greater than 4GB server memory space

Zero Memory, Up to 2 logical volumes (8 physical drives)

Hot Plug Support Yes



Technical Specifications

RAID Support

RAID 0 (Striping), RAID 1 (Mirroring) RAID 1+0 (Striping & Mirroring) RAID 5 with optional 512MB FBWC

NOTE: 512 MB cache is required to enable RAID 5 support

Environment-friendly Products and Approach

End-of-life Management and Recycling Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Summary of Changes

Date	Version History	Action	Description of Change:
10-Jul-2015	From version 24 to 25	Changed	Update in the nodes number
30-Mar-2015	From Version 23 to 24	Changed	Updates in the Computational and Graphics Accelerators section
1-Nov-2014	From version 22 to 23	Changed	Service and Support updated
18-Aug-2014	From Version 20 to 21	Changed	Expansion Slots, Unique Options, and Computational and Graphics Accelerators were revised.
20-Jun-2014	From Version 19 to 20	Added	Note was added throughout Hard Drives.
10-Jun-2014	From Version 18 to 19	Changed	Service and Support, Hard Drives, Insight Software, Cloudera Licensing, Storage Controllers, and USB and SD Options were revised.
31-Mar-2014	From Version 17 to 18	Changed	Changes made throughout the QuickSpecs
18-Feb-2014	From Version 16 to 17	Changed	Changes made throughout the QuickSpecs
16-Dec-2013	From Version 15 to 16	Changed	Changes made to the North America and Canada versions only.
11-Oct-2013	From Version 14 to 15	Added	6G SATA Value Endurance Hot Plug SFF Enterprise Value Solid State Drives were added to Hard Drives
			Mainstream Endurance (ME) PCIe Workload Accelerators were added to HP PCIe Workload Accelerator Options
			NVIDIA Tesla K10 rev B Dual GPU PCIe Computational Accelerator was added to GPU Computing Modules
			HP Remote Monitoring Power Distribution Units was added to Additional Options
			HP 8GB SD Enterprise Mainstream Flash Media Kit was added to HP USB and SD Options
10-Sep-2013	From Version 13 to 14	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
23-Jul-2013	From Version 12 to 13	Changed	Step 1 notes section was revised in Configuration Information - Factory Integrated Models.
10-Jun-2013	From Version 11 to 12	Changed	Overview: Removed What's New
			Configuration Information: Step 3
			Optional Features: Updated GPU Computing Modules section.
			Core Options: HP Networking
			Additional Options: Updated HP Insight Software, GPU Computing Modules and HP USB and SD Options sections.
13-May-2013	From Version 10 to 11	Added	Core Options: Added Step 4 to section.
			Additional Options: Added HP PCIe Workload Accelerator Options, HP Tape Backup and HP Basic Power Distribution Units sections.
		Changed	Overview: Updated What's New with:
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Summary of Ch	anges		
			Added support for new NVidia Kepler GPGPUs:
			NVIDIA Tesla K10 PCIe Module
			NVIDIA Tesla K20 5 GB Module
			NVIDIA Tesla K20X 6 GB Module
			Standard Features: Updated Common Slot Power Supplies and On System Management sections.
			Optional Features: Updated GPU Computing Modules section.
			Configuration Information: Updated Step 3.
22.1. 00.10	5 7 1 2 2 4 40		Additional Options: Updated HP Insight Software, GPU Computing Modules and HP Rack Options sections.
09-Apr-2013	From Version 9 to 10	Added	Added Step 1A to the Configuration Information section.
25-Mar-2013	From Version 8 to 9	Removed	Additional Options: Removed A0C39A from GPU Computing Modules section.
01-Mar-2013	From Version 7 to 8	Added	Core Options: Added 665240-B21 and 665243-B21 to the HP Networking section.
22-Feb-2013	From Version 6 to 7	Removed	Removed the two notes in the Interfaces section of Standard Features.
19-Feb-2013	From Version 5 to 6	Changed	Changes made to the following sections:
			Standard Features: Expansion slots, Graphics, HP Insight Management, Added Storage Software
			Configuration Information: Step 3
			Core Options: HP Hard Drives, HP Networking
			Additional Options: (changes made throughout the entire section)
04-Jan-2013	From Version 4 to 5	Removed	Removed 6G SAS MLC Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives
11-Dec-2012	From Version 3 to 4	Changed	Changes made to the following sections:
			Overview
			Optional Features: GPU Computing Modules
			Additional Features: GPU Computing Modules and HP Storage Controllers
05-Dec-2012	From Version 2 to 3	Changed	Changes made to the Standard Features only.
04-Dec-2012	From Version 1 to 2	Changed	Changes made to the following sections: Overview
			Standard Features: On System Management
			Configuration Information: Step 1, Step 2, Step 3
7 /20°			Core Options: Hard Drives

Summary of Changes							
			Additional Options: Added HP Care Pack Services				
			Storage				

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

