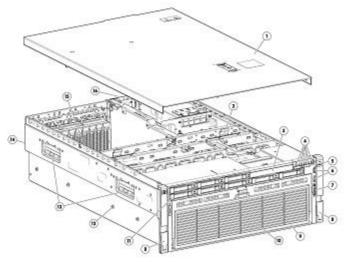
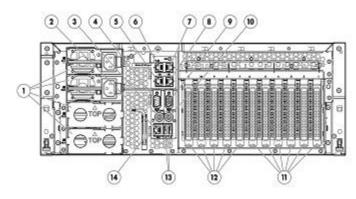
Overview

HP ProLiant DL585 Gen7

Powered by latest AMD Opteron® 4, 8, 12 and 16 core processors, the HP ProLiant DL585 G7 is the most expandable 4P multicore rack mount server ideal for server virtualization, server consolidation, multi-tiered enterprise application, and corporate infrastructure applications.





Front View:

- 1. Quick Removal Access Panel
- 2. 4 Hot Plug Redundant Fans Standard on all models
- 3. Slimline Drive (DVD Drive optional)
- 4. Front Panel LED Display and Power Button
- 5. Slide-out Systems Insight Display
- 6. Two front accessible USB 2.0 ports
- 7. One front video port
- 8. Quick release levers for fast server access
- 9. Front accessible Processor and memory drawer
- 10. Support for up to four AMD Opteron processors
- 11. Support for up to eight hot plug Small Form-Factor (SFF) SAS/ Serial ATA (SATA)/Solid State drives
- 12. Universal Tool-less "Snap In" Sliding Rail Solution
- 13. Server Lifting Handles
- 14. 4U (7" Height) Rack Form Factor
- Up to eleven available PCI Express/PCI-X Internal Expansion Slots

Rear View:

- 1. Hot Plug Redundant Power supplies (2 or 4 ship depending on the model)
- 2. Integrated Lights-Out 3 port
- 3. Mouse port
- 4. Serial port
- 5. Gigabit NIC Ports
- 6. Gigabit NIC Ports
- 7. Gigabit NIC Ports
- 8. Gigabit NIC Ports
- 9. Video port
- 10. Keyboard port
- 11. PCI-Express or PCI-X option (slots 1-6)
- 12. PCI-Express slots (slots 7-11)
- 13. Two USB ports
- 14. Service tool

What's New

• Support for HP 1.3TB, 1.6TB, 3.2TB, and 6.4TB VE PCIe Workload Accelerators.



Standard Features

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

Processor

Two or four of the following depending on Model

Sixteen-Core Processors

AMD Opteron™ 6386SE (2.8GHz/16-core/16MB/140W) Processor AMD Opteron™ 6380 (2.5GHz/16-core/16MB/115W) Processor AMD Opteron™ 6378 (2.4GHz/16-core/16MB/115W) Processor AMD Opteron™ 6376 (2.3GHz/16-core/16MB/115W) Processor AMD Opteron™ 6366HE (1.8GHz/16-core/16MB/85W) Processor AMD Opteron™ 6284SE (2.7GHz/16-core/16MB/140W) Processor AMD Opteron™ 6278 (2.4GHz/16-core/16MB/115W) Processor AMD Opteron™ 6282SE (2.6GHz/16-core/16MB/140W) Processor AMD Opteron™ 6276 (2.3GHz/16-core/16MB/115W) Processor AMD Opteron™ 6274 (2.2GHz/16-core/16MB/115W) Processor AMD Opteron™ 6262HE (1.6GHz/16-core/16MB/85W) Processor AMD Opteron™ 6262HE (1.6GHz/16-core/16MB/85W) Processor

Twelve-Core Processors

AMD Opteron™ 6348 (2.8GHz/12-core/16MB/115W) Processor AMD Opteron™ 6344 (2.6GHz/12-core/16MB/115W) Processor AMD Opteron™ 6238 (2.6GHz/12-core/16MB/115W) Processor AMD Opteron™ 6234 (2.4GHz/12-core/16MB/115W) Processor

Eight-Core Processors

AMD Opteron™ 6328 (3.2GHz/8-core/16MB/115W) Processor AMD Opteron™ 6320 (2.8GHz/8-core/16MB/115W) Processor AMD Opteron™ 6220 (3.0GHz/8-core/16MB/115W) Processor AMD Opteron™ 6212 (2.6GHz/8-core/16MB/115W) Processor

Four-Core Processor

AMD Opteron™ 6308 (3.5GHz/4-core/16MB/115W) Processor AMD Opteron™ 6204 (3.3GHz/4-core/16MB/115W) Processor

NOTE: Processor wattage references reflect Thermal Design Power (TDP). For more information on TDP and Average CPU Power (ACP) visit: http://www.amd.com/acp.

NOTE: SmartStart version 8.70B or greater required by 6200 or 6300 series processors. Latest version can be downloaded from the web at http://www.hp.com/go/foundation.

Cache Memory	16MB Level 3 cache				
Chipset	AMD SR5690/SP5100				
Upgradeability	Upgradeable to quad (4) processors NOTE: To upgrade from 2P to 4P the secondary CPU/Memory kit needs to be purchased separately, part number listed in the options section. 4P models already have this kit configured.				
Memory Protection	Advanced ECC capabiliti Online Spare Memory	es			
Memory One of the following	Туре	PC3-10600R Registered DDR3 (1333MHz)			
One of the following depending on Model	Performance Models One of the following	128GB (16x8GB) of PC3-10600R (DDR3-1333) 64GB (8x8GB) of PC3-10600R (DDR3-1333)			



Standard Features

depending on Model 64GB (16x4GB) of PC3-10600R (DDR3-1333)

32GB (8x4GB) of PC3-10600R (DDR3-1333) 32GB (4x8GB) of PC3-10600R (DDR3-1333) 32GB (8x4GB) of PC3-10600R (DDR3-1333)

Base Models 32GB (8x4GB) of PC3-10600 (DDR3-1333)

Maximum 1.5TB

Network Controller HP Ethernet 1Gb 4-port 331i-SPI Adapter

Expansion Slots

NOTE: Up to 11 FL/FH I/O slots. 2 PCI-E 2.0x16 and 3 PCI-E 2.0 x8 slots standard.

Expansion Slots (Main IO Board standard)

Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
1	N/A	N/A	N/A	N/A	
2	N/A	N/A	N/A	N/A	
3	N/A	N/A	N/A	N/A	
4	N/A	N/A	N/A	N/A	
5	N/A	N/A	N/A	N/A	
6	N/A	N/A	N/A	N/A	
7	PCI-Express	x8	x16	Full Length/Full Height	
8	PCI-Express	x8	x16	Full Length/Full Height	
9	PCI-Express	x16	x16	Full Length/Full Height	
10	PCI-Express	x8	x16	Full Length/Full Height	
11	PCI-Express	x16	x16	Full Length/Full Height	

Expansion Slots with IO Expander (combination PCI-X, PCI-e and 300W GPU

Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
1	PCI-X	64-bit	N/A	Full Length/Full Height	
2	PCI-X	64-bit	N/A	Full Length/Full Height	
3	PCI-Express	x4	x8	Full Length/Full Height	
4	PCI-Express	x8	x16	Full Length/Full Height	
5	PCI-Express	x8	x16	Full Length/Full Height	
6	PCI-Express	x16	x16	Full Length/Full Height	
7	PCI-Express	x8	x16	Full Length/Full Height	
8	PCI-Express	x8	x16	Full Length/Full Height	



Standard Features

9	PCI-Express	x16	x16	Full Length/Full Height
10	PCI-Express	x8	x16	Full Length/Full Height
11	PCI-Express	x16	x16	Full Length/Full Height
h I/O Expander (sta	andard PCI-e option)			
		_		

Expansion Slots with

Expansion Slots #	Technology	Bus Width	Connector Width	Form Factor	Notes
1	PCI-Express	x8	x16	Full Length/Full Height	
2	PCI-Express	x8	x16	Full Length/Full Height	
3	PCI-Express	x16	x16	Full Length/Full Height	
4	PCI-Express	x8	x16	Full Length/Full Height	
5	PCI-Express	x8	x16	Full Length/Full Height	
6	PCI-Express	x16	x16	Full Length/Full Height	
7	PCI-Express	x8	x16	Full Length/Full Height	
8	PCI-Express	x8	x16	Full Length/Full Height	
9	PCI-Express	x16	x16	Full Length/Full Height	
10	PCI-Express	x8	x16	Full Length/Full Height	
11	PCI-Express	x16	x16	Full Length/Full Height	

Storage Controller One of the following depending on Model Performance Models HP Smart Array P410i/1G FBWC Controller

Base Models HP Smart Array P410i/512MB FBWC or Zero Memory Controller

The Flash Backed Write Cache (FBWC) increases cache data retention capabilities from two days of existing battery backed write cache (BBWC) to infinite data retention.

- HP Smart Array P410i standard on all Performance and Base Models
- 1G FBWC standard on all Performance Models
- Transportable data protection
- Increases overall controller performance

Internal Storage Devices

Diskette Drive

Optical Drives Optional Optical Drive - HP Slim SATA DVD ROM Optical Drive ejectable for

security and serviceability

Hard Drives None standard

Hard Disk Drive Backplane Internal SAS backplane supports up to eight SFF hard disk drives

Drive Bays Up to 8 Small Form Factor drive bays total



Standard Features

Interfaces	Serial	1		
	NOTE: There is an extra in	nternal SSD slot availa	ble as well	
	Hot Plug SFF SATA SSD	6.4TB	8 x 800GB	
	Hot Plug SFF SAS SSD	6.4TB	8 x 800GB	
Storage	Hot Plug SFF SATA	8.0TB	8 x 1TB	
Maximum Internal	Hot Plug SFF SAS	9.6TB	8 x 1.2TB	

Video 1 front, 1 rear

Network RJ-45 (Ethernet) 4
iLO 3 Remote 1
Management
Keyboard 1
Pointing Device (Mouse) 1
SD Slot 1

USB 2.0 Ports 6 total: 2 front; 2 rear; 2 internal

Industry Standard Compliance

ACPI 2.0. Compliant
PCI 2.0 Compliant
PXE Support
WOL Support

Physical Address Extension (PAE) Support

Microsoft® Logo certifications

USB 2.0 Support

Server Power Cords

NOTE: If customers require a local power cord, they can check the power cord matrix for the appropriate county specific SKU. Please see the following power cord matrix for details: http://www.hp.com/go/powercordmatrix

Power Specifications

To review typical system power ratings use the HP Power Advisor which is available via the online tool located at URL: 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/guickspecs/14209_div/14209_div/14209_div/html

Common Slot Power Supply

NOTE: Mixing of power supplies in the same server is not supported. All power supplies inside a server must be exactly the same model. Mixing Gold, Platinum, and Platinum Plus certified power supplies is not supported.

HP's Common Slot (CS) power supplies allow for commonality of power supplies across a wide range of ProLiant and Integrity servers, as well as HP Storage solutions, and are designed to provide the highest power supply efficiency without degrading system performance. HP CS power supplies are tested by the Electric Power Research Institute (EPRI) and certified through the ECOS 80 Plus power supply program. HP CS power supply options provide efficiency ratings of up to 94% (80 Plus Platinum) and are available in three power output options - 460W, 750W, and 1200W - allowing the customer to "right-size" a power supply for their specific server configuration. All HP Common Slot power sources are UL, CE Mark Compliant, hot-plug and support redundant configurations.

HP CS Platinum Plus power supplies are required when enabling HP's Intelligent Power Discovery (IPD) solution. IPD is the first technology to create an automated, energy-aware network between IT



Standard Features

systems and facilities. This allows your company to reclaim millions of dollars in wasted power capacity and downtime costs across data centers. For more information on HP's IPD solution, go to www.hp.com/go/ipd.

It is highly recommended that you use the HP Power Advisor in defining the "Right-Size" power supply for your needs. HP Power Advisor can be accessed at: www.hp.com/go/hppoweradvisor.

NOTE: The 80 PLUS program is a unique forum that unites electric utilities, the computer industry, and consumers in an effort to bring energy efficient technology solutions to the marketplace. 80 Plus independently tests power supply efficiency and publicly posts the results on 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

NOTE: Two Hot Plug Power Supplies ships standard with 2P Models. Four Hot Plug Power Supplies ship standard with 4P Models.

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4 Hot plug, redundant fans (individually removable)

Required Cabling

For required cabling information, refer to the HP Web site at: www.hp.com/servers/dl585

Support for ProLiant Servers

Operating Systems and Microsoft Windows Server Virtualization Software Red Hat Enterprise Linux (RHEL) **SUSE Linux Enterprise Server (SLES)**

> **Oracle Solaris 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: www.hp.com/go/ossupport and our driver download page http://www.hp.com/support/DL585G7

Graphics

Integrated ATI RN-50 1600x1280x64K 16M color (32 MB DDR1 memory)

Form Factor

Rack (4U = 7 inches), ships with sliding rails and cable management system Space saving form factor (4U) provides space efficiencies while providing maximum deployment flexibility

HP Insight management HP Service Pack for

ProLiant

HP Service Pack for ProLiant (SPP) and HP Smart Update Manager (HP SUM) provide a comprehensive approach to firmware and system software maintenance. Together they provide better operating stability and ensure maximum uptime. The SPP will be updated at a predictable cadence, typically coinciding with new HP server hardware launches. By enabling firmware to be updated online and integrating firmware and system software updates in one operation, HP SUM and the SPP offer faster updates of individual servers and dramatically faster updates of entire BladeSystem enclosures. Further improving system uptime and stability is the fact that HP provides 12 months of support for each Service Pack for ProLiant release.

Standard Features

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 interdependencies, 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

HP Insight Foundation

Insight Foundation is being baselined at version v8.70 which means the following:

- Its Media Kit (contains 2 SmartStart CDs, the Firmware DVD, and the Management DVD) will continue to ship with all supported ProLiant G7 or earlier BTO servers until the last supported server is no longer shipping.
- The Media Kit will not be updated past version 8.70.
- ProLiant G7 or earlier CTO servers are able to order the Media Kit with the understanding that the media is not updated. Please check specific server QuickSpecs for availability of CTO Kit.
- PSP and Firmware DVD downloads will be updated through 2Q 2012 at the HP Insight Foundation Suite for ProLiant downloads tab: http://www.hp.com/go/foundation

Customers are urged to use the replacement product, HP Service Pack for ProLiant, instead of Insight Foundation Suite which is found at these location:

- www.hp.com/qo/spp
- www.hp.com/go/spp/download

(iLO)

HP Integrated Lights-Out HP Integrated Lights-Out (iLO) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. HP iLO functions without additional



Standard Features

software and can be accessed from any location via a web browser. HP iLO works hand-in-hand with HP Systems Insight Manager, Insight Control suites, and Insight Dynamics for ProLiant, helping customers unleash the value of the ProLiant platform and deliver the highest possible quality of IT service. For more information, visit: www.hp.com/go/iLO

Intelligent Manageability

HP Systems Insight Manager software

SmartStart Redundant ROM Remote Flash ROM Management Agents

Integrated Management Log (IML)
Automatic Server Recovery-2 (ASR-2)
ROM-Based Setup Utility (RBSU)

Dynamic Sector Repairing (with Smart Array Controllers) Drive Parameter Tracking (with Smart Array Controllers)

Pre-Failure Warranty (covers processors, SAS hard drives and memory)

Redundant/adaptive load balancing NIC Support

HP Insight Online

HP Insight Online is a new capability available through the HP Support Center portal for one stop, secure access to product and HP support information specific 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

Security

Power-on password Keyboard password

Diskette drive control enable/disable Diskette boot control enable/disable External USB port enable/disable Network Server Mode

Serial interface control Administrator's password Removable optical drive

Warranty

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.



Optional Features

HP Insight management HP Insight Control

HP Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console.

Two versions of Insight Control are available, to serve environments requiring either a Linux-based or a Windows-based central management server: HP Insight Control for Linux, and HP Insight Control. See 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, please visit: 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 Insight Dynamics for ProLiant

HP Insight Dynamics for ProLiant, a product option, is an integrated command center that enables IT Staff personnel to continuously analyze and optimize a converged infrastructure, while automating and reducing the cost of common data center tasks by as much as 40 percent. As a powerfully integrated by design toolkit to accelerate complex technology projects and simplify daily operations that ultimately enable IT Staff personnel to dynamically keep pace with the organizations changing business requirements. It enables them to plan capacity and power continuously, balance across physical and virtual resources, and ensure cost-effective high availability. It also enables IT organizations to provision infrastructure consistently and automatically from pools of shared resources using a self-service portal. Resources provisioned can range from a single virtual machine to complex multi-tier environments and their associated physical and virtual resource requirements. In addition to the previous functional benefits, it also provides a cost-effective disaster recovery for physical and virtual environments that works with HP Continuous Access software for both the Enterprise Virtual Array and the XP storage array allowing application environments to be reactivated in minutes with the touch of a button to a remote location.

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

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



Optional Features

for this server as part of the HP Cluster Platform portfolio. These highspeed 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 Cluster Management Utility

HP Cluster Management Utility (CMU) is an HP-licensed and HP-supported suite of tools that are used to manage large-scale 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

Solutions

Designed for enterprise customers running compute- or I/O intensive database and transaction applications, as well as data centers using virtualization and consolidation to reduce server sprawl, the rack optimized 4-processor HP ProLiant DL585 G7 server delivers maximum performance and high availability for highly complex, business critical applications. Specifically, the HP ProLiant DL585 G7 would be excellent for running the following types of applications:

Typical Usage:

- x86 virtualization and consolidation projects
- Electronic Design Automation (EDA)/Semiconductor
- Financial
- Large database applications
- ERP / CRM
- Petrochemical
- Life Science and Material Science
- Video Rendering

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



Optional Features

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.

HP Proactive Insight experience

Prevent problems with innovative, automated monitoring tools and proactive services. The HP Proactive Insight experience consist of using Insight Online, Insight Remote Support, and Proactive Care Support Service as one integrated solution. The Proactive Insight experience provides you with expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems quickly. For more information, visit: www.hp.com/go/proactiveinsightexperience

Factory Express Portfolio for Servers and Storage

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

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

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



Service and Support

Service and Support

HP Technology Services for Industry Standard Servers

HP Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HP to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

Protect your business beyond warranty with HP Care Pack Services

HP Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.

Optimized Care

Supports maintaining servers at optimum performance availability

HP Proactive Care with 6 hour call-to-repair commitment, three year Care Pack Service

HP Proactive Care helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. This Care Pack Service combines three years' proactive reporting and advice with our highest level reactive coverage and enhanced escalation management, HP's 24x7, six hour call-to-repair hardware commitment. HP is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. Service includes 24x7 collaborative software support for leading industry standard software running on your HP ProLiant server.

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf

Standard Care

Package that maintains high level of server availability

HP Proactive Care with 24x7 coverage, three year Care Pack Service

HP Proactive Care helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. This Care Pack Service combines three years' proactive reporting and advice with our 24x7 coverage and enhanced escalation management, four hour hardware response time and two hour call back for software questions on leading industry standard software running on your HP ProLiant server. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf

Related Services

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

Factory Express for Servers and storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed. For more information on Factory Express services for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.

Data Privacy Services

Protect your data through better media management. HP Data privacy services help manage and protect sensitive data to reduce the risk of unauthorized access to private information and help meet compliance requirements. Our retention services allow you to keep drives and other devices upon failure, our removal services provide convenient data sanitization and our recovery services allow you to safely retire IT assets and capture any remaining value from the hardware.

www.hp.com/services/dataprivacy

Additional HP Care Pack services can be found at: http://www.hp.com/go/cpc



Service and Support

Get connected to HP to improve your support experience

Prevent problems with innovative, automated monitoring tools and proactive services. Combining Proactive Care Services with our remote support technology such as Insight Online provides you with expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems quickly. For more information, visit:

www.hp.com/go/proactiveinsightexperience

Parts and Materials

HP will provide HP-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction.

For more information

To learn more on HP ProLiant servers and HP BladeSystem servers, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant



Pre-configured Models

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

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

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

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

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

NOTE: SmartStart version 8.70B or greater required by 6200 or 6300 series processors. Latest version can be downloaded from the web at http://www.hp.com/go/foundation.

Performance Models

HP ProLiant DL585 G7
6386SE 4P 128GB-R
P410i/1GB FBWC
1200W RPS Server
704160-xx1

Processors (4) AMD Opteron™ 6386SE (2.8GHz/16-core/16MB/140W) Processors

Cache Memory 16MB L3 cache

Memory 128GB (16x8GB) of PC3-10600R (DDR3-1333)

NOTE: 48 DIMM slots.

Network Controller HP Ethernet 1Gb 4-port 331i-SPI Adapter

Embedded HP Smart Array P410i/1G FBWC Controller Storage Controller

Hard Drives None ship standard

Internal Storage Up to 9.6TB of internal storage (SFF SAS)

Optical Drive None ship standard

Power Supply Four 1200W Platinum Power Supplies standard Fans 4 Hot plug, redundant fans (individually removable)

Integrated Lights Out Integrated Lights-Out 3 (iLO 3) ships standard

HP Insight Control No Media single server license, including 1 year of 24x7 **Insight Control**

Technical Support and Updates

4U Rack Form Factor

Cache Memory

Warranty Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite

support with next business day response.

HP ProLiant DL585 G7 6380 4P 128GB-R P410i/1GB FBWC 1200W RPS Server 704159-xx1

Processors (4) AMD Opteron™ 6380 (2.5GHz/16-core/16MB/115W) Processors

16MB L3 cache 128GB (16x8GB) of PC3-10600R (DDR3-1333) Memory

NOTE: 48 DIMM slots.

Network Controller HP Ethernet 1Gb 4-port 331i-SPI Adapter

Storage Controller Embedded HP Smart Array P410i/1G FBWC Controller

Hard Drives None ship standard

Internal Storage Up to 9.6TB of internal storage (SFF SAS)

Optical Drive None ship standard

Power Supply Four 1200W Platinum Power Supplies standard Fans 4 Hot plug, redundant fans (individually removable) **Integrated Lights Out** Integrated Lights-Out 3 (iLO 3) ships standard

Insight Control HP Insight Control No Media single server license, including 1 year of 24x7

Technical Support and Updates

Form Factor 4U Rack



Pre-configured Models

	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
HP ProLiant DL585 G7	Processors	(4) AMD Opteron™ 6376 (2.3GHz/16-core/16MB/115W) Processors
6376 4P 64GB-R	Cache Memory	16MB L3 cache
P410i/1GB FBWC 1200W RPS Server 708687-xx1	Memory	64GB (8x8GB) of PC3-10600R (DDR3-1333) NOTE: 48 DIMM slots.
700007 AX1	Network Controller	HP Ethernet 1Gb 4-port 331i-SPI Adapter
	Storage Controller	Embedded HP Smart Array P410i/1G FBWC Controller
	Hard Drives	None ship standard
	Internal Storage	Up to 9.6TB of internal storage (SFF SAS)
	Optical Drive	None ship standard
	Power Supply	Four 1200W Platinum Power Supplies standard
	Fans	4 Hot plug, redundant fans (individually removable)
	Integrated Lights Out	Integrated Lights-Out 3 (iLO 3) ships standard
	Insight Control	HP Insight Control No Media single server license, including 1 year of 24x7 Technical Support and Update
	Form Factor	4U Rack
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
Base Models		
HP ProLiant DL585 G7	Processors	(2) AMD Opteron™ 6344 (2.6GHz/12-core/16MB/115W) Processors
6344 2P 32GB-R P410i/ZM Hot Plug SAS	Cache Memory	16MB L3 cache
SFF 1200W RPS Server 708686-xx1	Memory	32GB (4x8GB) of PC3-10600R (DDR3-1333) NOTE: 24 DIMM slots.
	Network Controller	HP Ethernet 1Gb 4-port 331i-SPI Adapter
	Storage Controller	Embedded HP Smart Array P410i Zero Memory Controller
	Hard Drives	None ship standard
	Internal Storage	Up to 9.6TB of internal storage (SFF SAS)
	Optical Drive	None ship standard
	Power Supply	Two 1200W Platinum Power Supplies standard
	Fans	4 Hot plug, redundant fans (individually removable)
	Integrated Lights Out	Integrated Lights-Out 3 (iLO 3) ships standard
	Form Factor	4U Rack
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
Country Code Key	xx = 00	U.S.
	xx = 20	Brazil
	xx = 29	Japan
	xx = 37	AP
	xx = 42	Europe
		PRC

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

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

Step 1: Base Configuration

HP Models HP ProLiant DL585 G7 BC NIC Configure-to-order Server 704963-B21

Factory Integrated Models ship with:

HP Ethernet 1Gb 4-port 331i-SPI Adapter

Five standard PCI-express slots

HP Smart Array P410i/ Zero Memory Controller

Four redundant hot-plug fans SFF SAS/SATA/SSD drive cage HP Integrated Lights-Out 3 (iLO 3)

Rack (4U), 7-inch

NOTE: Power supplies need to be selected separately from Step 2 below.

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

HP Processors	NOTE: If more than two processors are desired, select xxxxxx-L21 and additional
	processors would be xxxxxx-B21. 3P configurations are not supported

Sixteen-Core Processors

HP DL585 G7 AMD Opteron™ 6386SE (2.8GHz/16-core/16MB/140W) FIO 2- processor Kit	704173-L21
HP DL585 G7 AMD Opteron™ 6380 (2.5GHz/16-core/16MB/115W) FIO 2-processor Kit	704175-L21
HP DL585 G7 AMD Opteron™ 6378 (2.4GHz/16-core/16MB/115W) FIO 2-processor Kit	704177-L21
HP DL585 G7 AMD Opteron™ 6376 (2.3GHz/16-core/16MB/115W) FIO 2-processor Kit	704179-L21
HP DL585 G7 AMD Opteron™ 6366HE (1.8GHz/16-core/16MB/85W) FIO 2-processor Kit	704183-L21

Twelve-Core Processors

HP DL585 G7 AMD Opteron™ 6348 (2.8GHz/12-core/16MB/115W) FIO 2-processor Kit	704185-L21
HP DL585 G7 AMD Opteron™ 6344 (2.6GHz/12-core/16MB/115W) FIO 2-processor Kit	704187-L21

Eight-Core processors

HP DL585 G7 AMD Opteron™ 6328 (3.2GHz/8-core/16MB/115W) FIO 2-processor Kit	704191-L21
HP DL585 G7 AMD Opteron™ 6320 (2.8GHz/8-core/16MB/115W) FIO 2-processor Kit	704193-L21

Quad-Core processor

HP DL585 G7 AMD Opteron™ 6308 (3.5GHz/4-core/16MB/115W) FIO 2-processor Kit 704195-L21



Configuration Information - Factory Integrated Models

HP Memory	NOTE: HP Memory selection requires a minimum quantity 2.	
	Registered DIMMs (RDIMMs)	
	HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593911-B21
	HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604500-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676331-B21
	HP 8GB (1x8GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676333-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593913-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604502-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627808-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	684066-B21
	HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627810-B21
	Load Reduced DIMMs(LRDIMMs)	
	HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647885-B21
	NOTE: LRDIMMs are supported on Opteron 6200 and 6300 Series processors only	
HP Power Supplies	HP 1200W Common Slot Silver Hot Plug Power Supply Kit	500172-B21
	HP 1200W Common Slot Platinum Hot Plug Power Supply Kit	578322-B21
	NOTE: Option Kit contains optional power supply, an IEC power cable and PDU IEC cables.	
	NOTE: HP ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For a full list of optional HP power cords please go to www.hp.com/products/powercords	

Step 3: Choose Additional Factory Integration Options (only one of the following from each list unless otherwise noted)

HP Storage Controllers	HP Smart Array P212/256 BBWC 1-ports Int/1-ports Ext PCIe x8 FIO SAS Controller	491191-B21
HP Insight Software	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single	C6N36A

Step 4: Choose Additional Options for Factory Integration

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



Core Options

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

HP Unique Options	HP DL585 G7 PCI-E Riser v2 Option Kit NOTE: Adds 2 PCI-E 2.0 x16, 4 PCI-E 2.0 x8.	659805-B21
	NOTE: v2 recommended for AMD Opteron 6200 or 6300 processor configurations. HP DL585 G7 PCI-E/X Riser v2 Option Kit NOTE: Adds 1 PCI-E 2.0 x16, 2 PCI-E 2.0 x8, 1 PCI-E 2.0 x4, 2 PCI-X. NOTE: v2 recommended for AMD Opteron 6200 or 6300 processor configurations. HP DL585 G7 CPU Memory Secondary Upgrade Option NOTE: Adds processor sockets 3 and 4 and associated DIMM slots.	659807-B21 590489-B21
HP Processors	NOTE: Processor kits contain two processors each.	
	Sixteen Core Processors	
	HP DL585 G7 AMD Opteron™ 6386SE (2.8GHz/16-core/16MB/140W) 2-processor Kit	704173-B21
	HP DL585 G7 AMD Opteron™ 6380 (2.5GHz/16-core/16MB/115W) 2-processor Kit	704175-B21
	HP DL585 G7 AMD Opteron™ 6378 (2.4GHz/16-core/16MB/115W) 2-processor Kit	704177-B21
	HP DL585 G7 AMD Opteron™ 6376 (2.3GHz/16-core/16MB/115W) 2-processor Kit	704179-B21
	HP DL585 G7 AMD Opteron™ 6366HE (1.8GHz/16-core/16MB/85W) 2-processor Kit	704183-B21
	Twelve-Core Processors	
	HP DL585 G7 AMD Opteron™ 6348 (2.8GHz/12-core/16MB/115W) 2-processor Kit	704185-B21
	HP DL585 G7 AMD Opteron™ 6344 (2.6GHz/12-core/16MB/115W) 2-processor Kit	704187-B21
	Eight-Core Processors	
	HP DL585 G7 AMD Opteron™ 6328 (3.2GHz/8-core/16MB/115W) 2-processor Kit	704191-B21
	HP DL585 G7 AMD Opteron™ 6320 (2.8GHz/8-core/16MB/115W) 2-processor Kit	704193-B21
	Quad-Core processor	
	HP DL585 G7 AMD Opteron™ 6308 (3.5GHz/4-core/16MB/115W) 2-processor Kit	704195-B21
HP Memory	NOTE: DIMM banks are active only when the corresponding processor socket is populated.	
	NOTE: Memory must be installed in like-pairs, i.e. two of the same size.	
	Registered DIMMs (RDIMMs)	
	HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593911-B21
	HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604500-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676331-B21
	HP 8GB (1x8GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676333-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593913-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604502-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP	627808-B21



Core Options

<u> </u>	c04122250 DA 12642 Worldwide Version 50 February 0 2015	Dago 10
	6G SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive	605835-B21 507610-B21
	HP 146GB 6G SAS 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	512547-B21
	HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	507127-B21
	HP 300GB 6G SAS 15K rpm SFF (2.5-inch) Hot Plug Enterprise 3yr Warranty Hard Drive	627117-B21
	HP 450GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	581284-B21
	HP 600GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	581286-B21
	HP 900GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	619291-B21
	6G SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	718160-B21
	HP 300GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive	785099-B21
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive HP 450GB 12G SAS 15K rpm SFF (2.5-inch) Enterprise 3yr Warranty Hard Drive	785103-B21 785101-B21
	12G SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	70F102 B21
	components. NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.	
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	
	HP Slim 12.7mm SATA DVD-RW Optical Drive	481043-B21
	HP Slim 12.7mm SATA DVD-ROM Optical Drive	481041-B21
HP Optical Drives	NOTE: Optical drives are ejectable.	
	Upgrade Options HP DL585 G7 CPU Memory Secondary Upgrade Option NOTE: Adds processor sockets 3 and 4 and associated DIMM slots.	590489-B21
	NOTE: LRDIMMs are supported on Opteron 6200 and 6300 Series processors only	
	Load Reduced DIMMs(LRDIMMs) HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647885-B21
	HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627810-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	684066-B21
	Memory Kit	



Core Options

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

http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html Worldwide)	
12G SAS Hot Plug ME SFF (2.5-inch) Enterprise Mainstream SSD	
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Nty Solid State Drive	741144-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Nty Solid State Drive	741140-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Nty Solid State Drive	741136-B21
I 2G SAS Hot Plug HE SFF (2.5-inch) Enterprise Performance SSD	
HP 800GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive	741157-B21
HP 400GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive	741153-B21
HP 200GB 12G SAS High Endurance SFF 2.5-in Enterprise Performance 3yr Wty Solid State Drive	741148-B21
BG SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 3G SATA 7.2K rpm SFF (2.5-inch) Hot Plug Midline 1yr Warranty Hard Drive	625609-B21
HP 500GB 3G SATA 7.2K rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive	507750-B21
NOTE: SATA drives have a 1 year warranty. 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 VE SFF (2.5-inch) EV G1 SSD	
HP 480GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty G1 Solid State Drive	756666-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty G1 Solid State Drive	756651-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty G1 Solid State Drive	756630-B21
5G SATA SFF (2.5-inch) EL G1 SSD	
HP 960GB 6G SATA Light Endurance SFF 2.5-in Enterprise Light 3yr Wty G1 Solid State Drive	756611-B21
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Orives	
HP 120GB 6G SATA Value Endurance SFF 2.5-in Enterprise Boot 3yr Wty Solid State Drive	728726-B21
HP 80GB 6G SATA Value Endurance SFF 2.5-in Enterprise Boot 3yr Wty Solid State Drive	734366-B21



Drive

HP 1.6TB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State

757351-B21

Core Options

	HP 1.6TB 6G SATA Value Endurance LFF 3.5-in Enterprise Value 3yr Wty Solid State Drive	757354-B21
	HP 800GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive	728743-B21
	HP 480GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive	728739-B21
	HP 600GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive	739904-B21
	HP 300GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive	739894-B21
	HP 240GB 6G SATA Value Endurance SFF 2.5-in Enterprise Value 3yr Wty Solid State Drive	728735-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 Enterprise Mainstream 3yr Wty Solid State Drive	730065-B21
	HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	730063-B21
	HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	730061-B21
	HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr Wty Solid State Drive	730059-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14038_div/14038_div.html	
	(Worldwide)	
HP Networking	(Worldwide) Gigabit Ethernet adapters	
HP Networking		503746-B21
HP Networking	Gigabit Ethernet adapters	503746-B21 412648-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter	
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter	412648-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter	412648-B21 593722-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter	412648-B21 593722-B21 394793-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter	412648-B21 593722-B21 394793-B21 394791-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter	412648-B21 593722-B21 394793-B21 394791-B21 538696-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCIE Dp Mfn Gigabit Svr Adapter	412648-B21 593722-B21 394793-B21 394791-B21 538696-B21 458492-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCIe Dp Mfn Gigabit Svr Adapter HP Ethernet 1Gb 4-port 331T Adapter	412648-B21 593722-B21 394793-B21 394791-B21 538696-B21 458492-B21 647594-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCIe Dp Mfn Gigabit Svr Adapter HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter	412648-B21 593722-B21 394793-B21 394791-B21 538696-B21 458492-B21 647594-B21 652497-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCIe Dp Mfn Gigabit Svr Adapter HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 332T Adapter 10 Gigabit Ethernet adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each	412648-B21 593722-B21 394793-B21 394791-B21 538696-B21 458492-B21 647594-B21 652497-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCIe Dp Mfn Gigabit Svr Adapter HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 332T Adapter 10 Gigabit Ethernet adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.	412648-B21 593722-B21 394793-B21 394791-B21 538696-B21 458492-B21 647594-B21 652497-B21 615732-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCIe Dp Mfn Gigabit Svr Adapter HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 332T Adapter 10 Gigabit Ethernet adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. HP NC523SFP 10Gb 2-port Server Adapter	412648-B21 593722-B21 394793-B21 394791-B21 538696-B21 458492-B21 647594-B21 652497-B21 615732-B21
HP Networking	Gigabit Ethernet adapters HP NC112T PCI Express Gigabit Server Adapter HP NC360T PCI-E Dual Port Gigabit Server Adapter HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCIe Dp Mfn Gigabit Svr Adapter HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 332T Adapter 10 Gigabit Ethernet adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. HP NC523SFP 10Gb 2-port Server Adapter HP Ethernet 10Gb 2-port 530SFP Adapter	412648-B21 593722-B21 394793-B21 394791-B21 538696-B21 458492-B21 647594-B21 652497-B21 615732-B21



Core Options

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs.

HP InfiniBand	HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA	592520-B21
	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: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html	
HP I/O Expansion Options	HP DL585 G7 PCI-E Riser Card	590485-B21
	HP DL585 G7 PCI-E Riser v2 Option Kit NOTE: Adds 2 PCI-E 2.0 x16, 4 PCI-E 2.0 x8. NOTE: v2 recommended for AMD Opteron 6200 or 6300 processor configurations.	659805-B21
	HP DL585 G7 PCI-E/X Riser v2 Option Kit NOTE: Adds 1 PCI-E 2.0 x16, 2 PCI-E 2.0 x8, 1 PCI-E 2.0 x4, 2 PCI-X. NOTE: v2 recommended for AMD Opteron 6200 or 6300 processor configurations.	659807-B21

HP Power Supplies

NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.

HP 1200W Common Slot Silver Hot Plug Power Supply Kit 500172-B21
HP 1200W Common Slot Platinum Hot Plug Power Supply Kit 578322-B21

NOTE: Option Kits contains optional power supply, an IEC power cable and PDU IEC cables.

NOTE: HP ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For a full list of optional HP power cords please go to www.hp.com/products/powercords



C6N28ABE

C6N36ABE

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

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

HP Insight Control Server Provisioning Media Kit BD883A HP Insight Management Media Kit C6N31A

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

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 kev(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service. NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.

NOTE: For additional license options please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html

HP Integrated Lights-Out (iLO) Advanced for ProLiant

HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU E6U59ABE HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU E6U64ABE HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server 512485-B21

License

HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates BD505A

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

High Performance Clusters

HP Cluster Management Utility

HP Insight Cluster Management Utility 1yr 24x7 Flexible License QL803B **BD476A**

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.

HP Insight Cluster Management Utility Media **BD477A**

NOTE: For additional license kits please see the QuickSpecs at:

http://h18004.www1.hp.com/products/quickspecs/12612 div/12612 div.html

HP Graphics Options

HP DL580/DL585/DL980 Power Cable Kit

NOTE: The HP ProLiant DL585 G7 can support up to 4 (225W) or 3 (300W) Graphic Cards and/or GPGPU Accelerator Options.

NOTE: An option kit will be required per Graphic Card and/or GPGPU Accelerator Options.

NOTE: Depending on the number of GPGPUs required, customers will need to purchase one of the following I/O expansion boards: HP DL585G7 PCI-E Riser v2 Option Kit PN: 659805-B21 (Adds 2 PCI-E 2.0 x16, 4 PCI-E 2.0 x8. OR the HP DL585G7 PCI-E/X Riser v2 Option Kit: PN: 659807-B21 (Adds 1 PCI-E 2.0 x16, 2 PCI-E 2.0 x8, 1 PCI-E 2.0 x4, 2 PCI-

631660-B21

Additional Options

X).

	X).	
HP I/O Accelerator	Second Generation Accelerators	
Options	HP 365GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673642-B21
	HP 785GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673644-B21
	HP 1205GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673646-B21
	HP 2410GB Multi Level Cell G2 PCIe ioDrive2 Duo for ProLiant Servers	673648-B21
	HP 3TB G2 FH/HL PCIe ioDrive2 IO Accelerator for ProLiant Servers	721458-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13587_div/13587_div.html (Worldwide)	
HP PCIe Workload	Mainstream Endurance (ME) PCIe Workload Accelerators	
Accelerator Options	HP 1.4TB HH/HL Mainstream Endurance (ME) PCIe Workload Accelerator	729307-B21
	HP 700GB HH/HL Mainstream Endurance (ME) PCIe Workload Accelerator	729305-B21
	High Endurance (HE) PCIe Workload Accelerators	
	HP 700GB HH/HL High Endurance (HE) PCIe Workload Accelerator	708090-B21
	HP 350GB HH/HL High Endurance (HE) PCIe Workload Accelerator	708088-B21
	Value Endurance (VE) PCIe Workload Accelerators	
	HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763834-B21
	HP 1.6TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763836-B21
	HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763838-B21
	HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information:	
	http://h18000.www1.hp.com/products/quickspecs/14528_div/14528_div.html (Worldwide)	
HP Security	HP Trusted Platform Module Option	488069-B21
	NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can securely	
	store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption	
	(BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker	
	leverages the enhanced security capabilities of a Trusted Platform Module (TPM)	
	version 1.2. The TPM works with BitLocker to help protect user data and to ensure that	
	a server running Windows Server 2008 has not been tampered with while the system	
	was offline. For more information about TPM, including a white paper, go to: www.hp.com/go/TPM.	
	NOTE: ProLiant OS pre-installed units will come with the partition required for TPM	
	deployment.	
	NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.	
HP Storage Controllers	SAS Controllers	
	Smart Array P212 Controller	



HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller

HP Smart Array P212/256 1-ports Int/1-ports Ext PCIe x8 SAS Controller

462828-B21

462834-B21

Additional Options

Smart Array P410 Controller	
HP Smart Array P410/256 2-ports Int PCIe x8 SAS Controller	462862-B2
HP Smart Array P410/512 BBWC 2-ports Int PCIe x8 SAS Controller	462864-B2
HP Smart Array P410/512 FBWC 2-ports Int PCIe x8 SAS Controller	578230-B2
HP Smart Array P410/1G FBWC 2-ports Int PCIe x8 SAS Controller	572532-B2 ²
Smart Array P411 Controller	
HP Smart Array P411/256 2-ports Ext PCIe x8 SAS Controller	462830-B2
HP Smart Array P411/512 BBWC 2-ports Ext PCIe x8 SAS Controller	462832-B2
HP Smart Array P411/512 FBWC 2-ports Ext PCIe x8 SAS Controller	578229-B2
HP Smart Array P411/1G FBWC 2-ports Ext PCIe x8 SAS Controller	572531-B2
Smart Array P812 Controller	
HP Smart Array P812/1G FBWC 2-ports Int/4-ports Ext PCIe x8 SAS Controller	487204-B2
Optional Upgrades	
HP 512MB P-Series Battery Backed Write Cache Upgrade NOTE: Supported on HP Smart Array P411 Controller only.	462967-B2
HP 512MB Flash Backed Write Cache	534916-B2
HP 256MB P-series Cache Upgrade	462968-B2
HP 1GB Flash Backed Cache	534562-B2
HP Smart Array Advanced Pack including 1yr 24x7 Technical Support and Updates Single Server License NOTE: This part number can be used to purchase a single license or to order multiple	516471-B2°
licenses with a single activation key. Customers will receive a license entitlement certificate via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Include one year of 24x7 HP Software Technical Support Services.	
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13203_div/13203_div.html	
(Smart Array P212 Controller) http://h18000.www1.hp.com/products/quickspecs/13201_div/13201_div.html	
(Smart Array P410 Controller)	
http://h18000.www1.hp.com/products/quickspecs/13202_div/13202_div.html (Smart Array P411 Controller)	
http://h18000.www1.hp.com/products/quickspecs/13558_div/13558_div.html	

SAS HBA

(Smart Array P812 Controller)

(Smart Array Advanced Pack)

HP Modular Smart Array SC08e 2-ports Ext PCIe x8 SAS Host Bus Adapter

NOTE: This is a 2 x4 External Port HBA

NOTE: This is only approved for the HP P2000 G3 SAS Modular Smart Array.

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

http://h18004.www1.hp.com/products/quickspecs/13651_div/13651_div.html
(SC08e 6Gb HBA)



http://h18000.www1.hp.com/products/quickspecs/13200_div/13200_div.html

412911-B21

QuickSpecs

Additional Options

SCSI HBA

HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter

NOTE: Recommended HBA for SCSI tape drive connect.

NOTE: Please see the following QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/12566_div/12566_div.html

(SC11Xe HBA)

NOTE: Please refer to the HBA QuickSpecs for additional information at:

http://www.hp.com/products/hba.

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.

NOTE: Connection using HP Smart Array P212/Zero Memory Controller (PN 462828-B21)

recommended.

NOTE: For Internal drives to be connected to DL servers please make sure that you order

rack mount kit as well.

HP StoreEver LTO-5 Ultrium 3280 SAS Internal Tape Drive

NOTE: For installation into 3U SAS rack kit (AG576B). No peripheral bay available for

installation into the server.

HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit HP StoreEver LTO-6 Ultrium 6650 SAS Internal Tape Drive

EH963A

HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive

EH964A EH969A

EH899B

COL99A

HP StoreEver LTO-6 Ultrium 6250 Internal Tape Drive HP StoreEver LTO-6 Ultrium 6250 External Tape Drive

EH970A

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

COH19A

HP Tape Storage Systems

HP StoreEver MSL6480

HP StoreEver MSL6480 Scalable Base Module

QU625A

NOTE: Please see the QuickSpecs for Technical Specifications and additional

information:

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

(Worldwide)

HP Disk Backup

NOTE: For the complete range of RDX drives and media see: http://www.hp.com/go/rdx.

For hardware and software compatibility of HP disk backup products see:

http://www.hp.com/storage/SPOCK.

HP RDX Removable Disk Backup System

HP RDX 2TB USB3.0 Internal Disk Backup System HP RDX320 USB3.0 External Disk Backup System

E7X52A B7B63A

HP RDX500 USB3.0 Internal Disk Backup System

B7B64A

HP RDX500 USB3.0 External Disk Backup System HP RDX1000 USB3.0 Internal Disk Backup System B7B66A B7B67A

HP RDX1000 USB3.0 External Disk Backup System

B7B69A

NOTE: Please see the QuickSpecs for additional part numbers, Technical Specifications,

and additional information:

http://h18000.www1.hp.com/products/quickspecs/13036_div/13036_div.html

(Worldwide)



Additional Options

HP Disk Storage
Systems

Disk Enclosures

HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle

E7W32A

NOTE: Please see the QuickSpecs for Technical Specifications and additional

information:

http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html

(Worldwide)

HP Storage Options

Storage Fibre Channel HBA

NOTE: The following is a list of all Fibre Channel Host Bus Adapters for Windows and

Linux. For detailed compatibility information please see:

http://h18006.www1.hp.com/storage/saninfrastructure/hba.html

Brocade Fibre Channel HBAs

HP 82B 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AP770B
HP 81B 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AP769B

Emulex Fibre Channel HBAs

HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B

QLogic Fibre Channel HBAs

HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A
HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A

Converged Network Adapter

HP CN1100E Dual Port Converged Network Adapter	BK835A
HP CN1000Q Dual Port Converged Network Adapter	BS668A

HP Disk Storage Systems

Disk Enclosures

HP D2600 Disk Enclosure	AJ940A
HP D2700 Disk Enclosure	AJ941A

NOTE: Please see the QuickSpecs for additional options and configuration information at: http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html (Worldwide)

HP Uninterruptible Power Systems

HP Rack-mountable UPS

HP R1500 Uninterruptible Power Supply (UPS)

in K1300 Oninterruptible Fower Supply (Of 3)	
HP R1500 G4 NA Uninterruptible Power System	J2Q99A
HP R1500 G4 INTL Uninterruptible Power System	J2R03A
HP R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
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:	

Additional Options

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

HP R/T2000 Uninterruptible Power System (UPS)	HP R	T2000 Uninterru	ptible Power S	vstem (UPS)
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HP R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
HP R/T2200 G4 Extended Runtime Module	J2R09A
HP 2U Rack/Tower UPS Shipping Kit	L4Q11A

HP R/T3000 Uninterruptible Power System (UPS)

HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
HP R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
HP R/T3000 G4 Extended Runtime Module	J2R10A
HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A
HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System	AF468A

NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14058_div/14058_div.html (Worldwide)

R5000 Uninterruptible Power System (UPS)

HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
NOTE: Please see the QuickSpecs for additional information:	

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

R7000 Uninterruptible Power System (UPS)

HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
HP R5KVA and R7KVA 3U Extended Runtime Module	AF464A

NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14110_div/14110_div.html (Worldwide)

HP Rackmountable 3 Phase Uninterruptible Power Systems (UPS R8000/3 and R12000/3)

HP R8000/3 8000kVA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF432A
HP R8000/3 8000kVA Three Phase NA 6U Rackmount Uninterruptible Power System	AF431A
HP R12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF430A
HP R12000/3 12000VA Three Phase NA 6U Rackmount Uninterruptible Power System	AF429A

NOTE: Please see the QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/12857_div/12857_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.



Additional Options

NOTE: Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.

HP Basic Power Distribution Units (bPDU)

HP Basic Power Distribution Unit: 1U/OU Version	
HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5M54A
HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56A
HP Basic Power Distribution Unit: Half Height Version	
HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDU	H5M55A
HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU	H5M57A
HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU	H5M58A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13) INTL Basic PDU	H5M68A
HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M61A
HP Basic Power Distribution Unit: Mid Height Version	
HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU	H5M59A
HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70A
HP 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU	H5M60A
HP 11kVA 230 Volt IEC309 63A Input (30xC13/6xC19) INTL Basic PDU	H5M71A
HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75A
HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xNEMA 5-20R) NA/JP Basic PDU	H5M63A
HP 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU	H5M64A
HP 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU	H5M62A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU	H5M72A
HP Basic Power Distribution Unit: Full Height Version	
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU	H5M73A
HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67A
HP Basic Power Distribution Unit: 480/277 Volt Version	
HP 13.2kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU	H3X07A
HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU	H3X08A
HP 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.	

Power Distribution Units (mPDU)

HP Remote Monitoring HP Remote Monitored Power Distribution Unit: 1U Version

HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU	D9N43A
HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU	D9N46A
HP 4 9kVA 208 Volt I 6-30 Input (12xC13) NA/IP Monitored PDU	D9N44A

Additional Options

HP Remote Monitored Power Distribution Unit: Half Height Version	B
HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU	D9N45 <i>i</i>
HP Remote Monitored Power Distribution Unit: Mid Height Version	
HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU	D9N47
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU	D9N48/
HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU	D9N51
HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP Monitored PDU	D9N52/
HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP Monitored PDU	D9N53 <i>i</i>
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU	D9N55 <i>i</i>
HP Remote Monitored Power Distribution Unit: Full Height Version	
HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU	D9N49 <i>F</i>
HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU	D9N50/
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N57
HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU	D9N58/
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU	D9N61
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored PDU	D9N54
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU	D9N59/
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU	D9N60/
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N56
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU	D9N62
HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU	D9N63
HP Environmental Sensor for Remote Monitored PDUs	
HP Environmental Sensor for Remote Monitored PDUs	E2D53/
NOTE: Please see the QuickSpecs for additional information:	
http://h18000.www1.hp.com/products/quickspecs/14669_div/14669_div.html (Worldwide)	
iPDU Core Units	
HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF520/
HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF521
HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF522/
HP 14.4kVA 40A Three Phase NA/JP Intelligent Modular Power Distribution Unit	AF533/
HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF523/
HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Power Distribution Unit	AF900
HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distribution Unit	AF901
HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525/
HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF526/
HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF527
HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF535 <i>A</i>



HP Intelligent Power Distribution Units

(iPDU)

HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution

AF537A

Additional Options

Additional Options		
	Unit	
	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 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
	HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
	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 Rack Options	HP TFT7600 G2 KVM Console and Monitor (TFT7600 G2)	470704
	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 1U Rackmount Keyboard with USB	
	HP 1U US Rackmount Keyboard with USB	AG072A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/12465_div/12465_div.html (Worldwide)	
	HP USB Keyboard and Mouse	
	HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
	HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373

Additional Options

HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3

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
KVM USB Cnsl Itfc Adapter 1PK ALL	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

NOTE: HP qualified blank USB key for use with HP ProLiant servers that support the VMware virtualization environment and other HP value-add software like SmartStart. HP recommends this industry standard USB flash device for use with VMware ESXi. USB device must be installed in the internal slot of the ProLiant server for use with VMware ESXi. Refer to HP VMware Getting Started Guide for installation instructions.

HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit

737953-B21



Additional Options

HP Enterprise Mainstream Flash Media Kits for Memory Cards

HP 3 year 4 hour 24x7 ProLiant DL58x Proactive Care Service

HP 3 year 4 hour 24x7 ProLiant DL58x Collaborative Support

HP 8GB SD Enterprise Mainstream Flash Media Kit

726113-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 USB Standard Keyboard DT528A ABA

DT528A#ABA

U2Z68E

U1J48E

HP Care Pack Services

Proactive Care

NOTE: Collaborative Support plus Proactive services delivered by the onshore, local language Advanced Solution Center (ASC), end-to-end case ownership from a Technical Solution Specialists and Technical Account Manager who remotely delivers firmware/software revision management, proactive scans and incident trend reports. Recommended for customers running a virtualized infrastructure and/or customers who desire an enhanced call support experience.

HP 3 year 4 hour 24x7 ProLiant DL58x Proactive Care Service	U2Z68E
HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL58x Proactive Care	U2Z71E
Service	
HP 3 year 6 hour Call To Repair 24x7 ProLiant DL58x Proactive Care Service	U2Z74E
HP 3 year 6 hour Call To Repair 24x7 withDefective Media Retention ProLiant DL58x Proactive Care SVC	U2Z77E

Collaborative Support

NOTE: Hardware break/fix plus 24x7 software diagnosis support with collaborative call management for a broad spectrum of 3rd Party software products including O/S and hypervisors. Recommended for customers procuring 3rd party SW O/S and hypervisors from the software vendors directly and deploying them on HP ProLiant servers.

· · · · · · · · · · · · · · · · · · ·	
HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL58x Collaborative	U1J51E
Support	
HP 3 year 6 hour Call To Repair 24x7 ProLiant DL58x Collaborative Support	U1J54E
HP 3 year 6hr Call To Repair 24x7 withDefective Media Retention ProLiant DL58x Collaborative Support	U1J57E

Proactive Care Personalized Support Option

NOTE: To add an onsite Account Support Manager (ASM) to Proactive Care. ASM is an assigned resource who delivers support planning and brings technical expertise and best practices advices for the customer's environment.

HP	3 year ISS Proactive	Care Personal	ized Suppor	t U6	W98E
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Installation Services

NOTE: Reduce the time required to get your system up and running and help minimize disruptions to your business.

HP 3 year 4 hour 24x7 ProLiant D58x Hardware Support	U4608E
HP Install ProLiant DL58x Service	U4617E
HP Startup ProLiant DL58x Service	U4618E
HP Installation and Startup for Insight Control Server Deployment - previously Rapid	U5683E

Additional Options

Deployment Pack

NOTE: For more information, customer/resellers can contact: http://www.hp.com/services/carepack



Memory

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

HP ProLiant DL585 G7 Models Memory Configurations

- This server supports DDR3 2GB, 4GB, 8GB, 16GB and 32GB memory modules across 48 memory sockets.
- For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator

Advanced ECC memory

- Advanced ECC memory is the memory protection mode for this server. In Advanced ECC, the server does not fail because
 of correctable memory errors. The server provides notification if the level of correctable errors exceeds a pre-defined
 threshold rate.
- Advanced ECC provides additional protection over standard ECC because it is possible to correct certain memory errors that would otherwise be uncorrectable and result in a server failure.
- Whereas standard ECC can correct single-bit memory errors, Advanced ECC can correct single-bit memory errors and multi-bit memory errors if all failed bits are on the same DRAM device on the memory module.

Online Spare memory

- Online Spare memory mode is a higher level of memory protection that complements Standard Memory mode with Advanced ECC. With Online Spare mode, a DIMM with a rank of memory at least as large as the other ranks in the system, or memory board, is designated as the Online Spare rank. If one of the other DIMMs exceeds a threshold rate of correctable memory errors, the affected rank of memory within that DIMM is taken offline and the data is copied to the Online Spare rank. This capability maintains server availability and memory reliability without service intervention or server interruption. The DIMM that exceeded the error threshold can be replaced at the customer's convenience during a scheduled shutdown. Online Spare reduces the chance of an uncorrectable error bringing down the system; however, it does not fully protect the system against uncorrectable memory errors.
- Online Spare mode is beneficial to businesses with sites that do not have IT staff available to service a failure, do not
 always have replacement memory readily available, or cannot bring down the server until a scheduled shutdown. The
 cost of implementation for Online Spare over Advanced ECC is the hardware cost of the extra DIMMs for the spare
 memory bank.
- The user configures the system for Online Spare mode through the RBSU. Online Spare configuration requirements vary for each server series, but it does not require operating system support or special software beyond the System BIOS. However, if messaging and logging are desired at the console along with messages in HP Systems Insight Manager, an operating system must be used that has system management and agent support for Advanced Memory Protection.

Population order

- The two tables below represent the memory module population order for one processor. The population order for the
 other processors is identical. SR denotes Single Rank, DR denotes Dual Rank, and QR denotes Quad Rank.
- All memory modules must follow the population order shown in these two tables for all the processors with the following exception:
- QR memory modules must be installed only in memory sockets 2, 5, 8, and 11, while following the population order for those memory sockets.

Processor	1	2	3	4	5	6
memory socket						



Memory

Rank support per	SR/DR	SR/DR/QR	SR/DR	SR/DR	SR/DR/QR	SR/DR
memory socket						
Population order	A	l	E	C	K	G
Processor memory channel	A	A	A	В	В	В
memory chamilet						

Processor memory socket	7	8	9	10	11	12
Rank support per memory socket	SR/DR	SR/DR/QR	SR/DR	SR/DR	SR/DR/QR	SR/DR
Population order	В	J	F	D	L	Н
Processor memory channel	С	С	С	D	D	D

Population rules

- When installing memory modules, observe the following population rules:
- Use only HP memory modules listed in this document.
- Advanced ECC is not available if x4 and x8 memory modules are mixed in channels (A and B), (C and D), or both, but standard ECC is still available. Advanced ECC is available if x4 and x8 memory modules are mixed in memory channels (A and C), (B and D), or both.
- HP LRDIMM memory modules listed in this document follow the same population rules as dual rank registered DIMMs

While adhering to the memory population rules ("Population rules" - see above), performance can be improved by following the guidelines below:

- Memory modules may be installed one at a time per processor, but installing two at a time per processor provides for additional performance, installing four at a time per processor provides for better performance, and installing equal amounts of memory for all processors provides for best performance.
- Install all memory modules of the same speed on the same processor for best performance.
- Install all memory modules of the same voltage on the same processor for best power.

Advanced Memory Protection (AMP) mode Online Spare Memory has further requirements beyond these listed above. Please refer to the user guide for additional memory configuration requirements

Memory bus speed

Depending on the quantity and native speed of memory modules installed, memory bus speeds can be 1333 MHz, 1066 MHz, 800 MHz, or 667 MHz. Memory bus speeds can be different for each processor.

To determine memory bus speeds, do the following:

Within RBSU, select the Power Management Options menu > Advanced Power Management Options menu > Maximum Memory Bus Frequency menu.

Memory modules per channel	QR	SR or DR	Memory module native speed	Memory bus speed (standard-voltage memory module	Memory bus speed (low-voltage memory module)
1	-	1	SR 1600 MHz ³ DR 1600 MHz ³	1600 MHz	NA
1		1	SR 1333 MHz	1333 MHz ¹	1066 MHz ¹



Memory

			DR 1333 MHz		
1	1	-	QR 1066 MHz	1066 MHz ¹	1066 MHz ¹
2	-	2	SR 1333 MHz DR 1333 MHz	1333 MHz ^{1,2}	1066 MHz ^{1,2}
2	1	1	SR 1333 MHz DR 1333 MHz QR 1066 MHz	800 MHz	800 MHz
3	-	3 SR	SR 1333 MHz SR 1600 MHz ³	1066 MHz	1066 MHz
3	-	3 DR	DR 1333 MHz DR 1600 MHz ³	1066 MHz	800 MHz
3	-	3 mixed	SR 1333 MHz DR 1333 MHz SR 1600 MHz ³ DR 1600 MHz ³	1066 MHz	800 MHz
3	1	2	SR 1333 MHz DR 1333 MHz QR 1066 MHz	800 MHz	667 MHz

¹Max. Actual result of lowest DIMM speed

Select one of the following menu options:

- Auto (default) The memory bus speed is set to what is shown in the following table. If the native speed of the installed memory module is slower than the memory bus speed, the memory bus speed is set to the memory module native speed
- 800 MHz-The memory bus speed is set to 800 MHz regardless of the quantity of memory modules installed, unless the table above reflects a slower memory bus speed.

NOTE: There may be more than one memory bus speed menu option.

NOTE: LVDIMMs support on 2011.08.04 BIOS

Memory Installation Example

These memory installation example shows the memory sockets associated with the first processor only. This can be applied toward the memory sockets associated with the other processor also.

4 RDIMMs per processor

- Standard memory: 4x4GB RDIMMs (16GB per processor)
- Optional memory: Adding 8x8GB RDIMMs to standard memory (80GB per processor)
- Maximum memory: Replacing standard memory with 4x16GB QR RDIMMs and 8x8GB DR RDIMMs (maximum of 128GB per processor)

Processor memory socket	1	2	3	4	5	6
Standard Memory	4GB			4GB		
Optional Memory	4GB	8GB	8GB	4GB	8GB	8GB
Maximum Memory	32GB	32GB	32GB	32GB	32GB	32GB



²When 1333MHz selected in BIOS "memory speed with 2DPC" entry

³¹⁶⁰⁰ MHz memory is only supported in conjunction with Opteron 6200 or 6300 series processors.

Memory

Processor memory socket	7	8	9	10	11	12
Standard Memory	4GB			4GB		
Optional Memory	4GB	8GB	8GB	4GB	8GB	8GB
Maximum Memory	32GB	32GB	32GB	32GB	32GB	32GB

NOTE: 1.5TB capacity is achieved by loading 1 32GB LRDIMM on every memory channel on all four processors.

The following memory options are available from HP:

Memory

NOTE: DIMM banks are active only when the corresponding processor socket is populated.

Registered DIMMs (RDIMMs)

HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593911-B21
HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604500-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676331-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676333-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593913-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604502-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627808-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	684066-B21
HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627810-B21
Load Reduced DIMMs(LRDIMMs)	
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647885-B21
NOTE: Memory must be installed in like-pairs, i.e. two of the same size. NOTE: LRDIMMs are supported on Opteron 6200 and 6300 Series processors only	

Upgrade Options

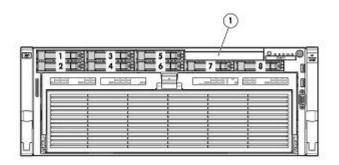
HP DL585 G7 CPU Memory Secondary Upgrade Option

NOTE: Adds processor sockets 3 and 4 and associated DIMM slots.



590489-B21

Storage



1-8 Eight SFF SAS hot plug hard drive bays

Drive Support

	Quantity Supported	Position Supported	Controller
Removable Media			
Slimline DVD-ROM drive	Up to 1	1	Integrated SATA
HP Slim SATA DVD RW Optical Drive	Up to 1	1	Integrated SATA
External Storage			
	Quantity Supported	Position Supported	Host Controller or Adapter
D2600 Disk Enclosure	Up to 4	External	HP Smart Array P211/256 MB Controller
	Up to 8	External	HP Smart Array P411/256MB BBWC Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P411/1G Flash Backed Write Cache Controller HP Smart Array P812/1G Flash Backed Cache Controller
D2700 Disk Enclosure	Up to 2	External	HP Smart Array P211/256 MB Controller
	Up to 4	External	HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P411/1G Flash Backed Write Cache Controller HP Smart Array P812/1G Flash Backed Cache Controller

Technical Specifications

System Unit Dimensions $(H \times W \times D)$ 6.94" x 19.0" x 27.55" (17.6cm x 48.3cm x 70.0cm)

(with bezel)

Weight Maximum 100.0 lb (45.4 kg) (approximate)

(all hard drives, power supplies, DIMMs and processors installed)

> Minimum 66.0 lb (30.0 kg)

(one hard drive, two power supplies, four DIMMs and two processors installed)

Input Requirements Rated Line Voltage 100 - 127 VAC, (per power supply)

200 - 240 VAC

Rated Input Current 12 A (at 100 VAC),

8 A (at 200 VAC)

Rated Input Frequency 50 to 60 Hz

Rated Input Power 1161 W (at 100 VAC),

1598 W (at 240 VAC)

BTU Rating Maximum 3960 BTU/hr (at 100 VAC),

5450 BTU/hr (at 200 VAC)

Power Specifications NOTE: To review typical system power ratings use the HP Power Advisor

which is available online located at url: www.hp.com/go/proliant-energy-

efficient or www.hp.com/go/hppoweradvisor

Click on the system of interest. Example: DL585 G7

Follow the instructions of the next screens

Power Supply Output (per

power supply)

Rated Steady-State Power 910 W (low line),

1300 W (high line)

910 W (low line), Maximum Peak Power

1300 W (high line)

System Inlet Temperature 10° to 35°C (50° to 95°F) at sea level with an Operating

> altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options

installed.

System performance may be reduced if operating with a fan fault or above 30°C (86°F).

-30° to 60°C (-22° to 140°F). Maximum rate of Non-operating

change is 20°C/hr (36°F/hr).

Relative Humidity Operating

(non-condensing)

10 to 90% relative humidity (Rh), 28°C (82.4°F)

maximum wet bulb temperature, non-

condensing.

Non-operating 5 to 95% relative humidity (Rh), 38.7°C

(101.7°F) maximum wet bulb temperature,

non-condensing.

Altitude 3050 m (10,000 ft). This value may be limited Operating

by the type and number of options installed.

Technical Specifications

Maximum allowable altitude change rate is 457

m/min (1500 ft/min).

9144 m (30,000 ft). Maximum allowable Non-operating

altitude change rate is 457 m/min (1500

ft/min).

Listed are the declared A-Weighted sound power levels (LWAd) and **Acoustic Noise**

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

declared in accordance with ISO 9296 (ECMA 109).

Idle

L WAd 6.8 B (with PCI-E)

L pAm NA dBA

Operating

L WAd 6.8 B (with PCI-E)

L pAm NA dBA **FCC Rating** Class A

Emissions Classification

(EMC)

Interfaces

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.

Integrated Lights-Out 3 (iLO 3) integrated on system board

Architecture PCI Express based health and remote management ASIC

PCI Express RISC processor core running at 250MHz **Processor Upgradeability**

Option firmware upgradeable via Flash ROM.

One Ethernet Sideband connection (10/100/1000 Mb/s)

One Ethernet network connection (10/100Mb/s)

Memory 128-MB RAM with ECC

Operating System Support Microsoft Windows 2008 R2

Microsoft Windows 2008 (32 bit and 64 bit)

Microsoft Windows Server 2008 Standard Edition (32bit and 64bit) Microsoft Windows Server 2008 Enterprise Edition (32bit and 64bit) Microsoft Windows Server 2003 and Windows Server 2003 R2, and Windows Server 2003 for Extended Systems Standard Edition, Enterprise

Edition

Red Hat Enterprise Linux 5 (32 bit and 64 bit) SUSE Linux Enterprise Server 11 (32bit and 64bit) SUSE Linux Enterprise Server 10 (32bit and 64bit)

VMware ESX 4.0 VMware ESX 3.5.0

Client System Support Microsoft Windows 7

Microsoft Windows XP Professional Edition

Microsoft Windows Vista Business and Ultimate Editions

Red Hat Enterprise Desktop 5.00

Technical Specifications

SUSE Linux Enterprise Desktop 11

SUSE Linux Enterprise Desktop 10

Client Browser Support Microsoft Internet Explorer 8

> Microsoft Internet Explorer 7 Microsoft Internet Explorer 6

Firefox 3.5 (on supported Windows and Linux systems) Firefox 3.0 (on supported Windows and Linux systems)

Command Line Support Secure Shell and serial port access

> Secure Socket Layer Secure Shell version 2

Advanced Encryption Standard (AES) and Triple Data Encryption Standard Security

(3DES) on browser, CLP and XML scripting interface

AES encryption of video RC4 encryption of video

Directory Support Services

Driver Support

Management protocols supported

Active Directory v1.0 (Windows 2003)

HP ProLiant iLO3 Management Controller Driver Package

SNMP, IPMI 2.0 (system and LAN interface), DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP), HP

RIBCL XML

Embedded

Smart Array P410i Controller

Dimensions

Disk Drive and Enclosure

Interface - Transfer rate

SAS Connectors

Cache Memory Speed

Server Interface

SAS Speed

Cache Memory

x4 PCIe 2.0 provides 2GB/s maximum bandwidth

6Gb/s SAS (Serial Attached SCSI)

3Gb/s SATA (Serial ATA)

2 internal 4X connectors

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

Zero Memory RAID has no cache memory

DDR2-800MHz with 40 or 72-bit wide bus

40-bit 256MB ECC protected cache (battery upgrade available)

72-bit 512MB BBWC or 72-bit 512MB and 1G FBWC

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

Up to 64 logical drives with cache

Host Memory Addressing

RAID Support

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

RAID 6, 6+0 (Advanced Data Guarding)

NOTE: RAID 6, 6+0 can be enabled with one of the following combinations:

256 MB cache, Battery kit and Smart Array Advanced Pack License key option upgrades

512 MB BBWC/FBWC and Smart Array Advanced Pack License key option upgrades

1G FBWC and Smart Array Advanced Pack License key option upgrades

RAID 5, 5+0 (Distributed Data Guarding)

NOTE: A minimum or 256 MB cache is required to enable RAID 5. 5+0

support

RAID 1+0 (Striping & Mirroring) RAID 0 (Striping), RAID 1 (Mirroring)

HP NC375i **Network Interface** 10/100/1000-T



Technical Specifications

Integrated Quad
Port Gigabit Server
Adapter

Compatibility IEEE 802.3 10Base-T

> IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 802.3ad 1000Base-TX IEEE 802.1p 100Base-TX

Data Transfer Method

Controller

Qlogic/NetXen NX3031

PCI Express 2.0 x8

IEEE 802.1q 100Base-TX

Network Transfer Rate

10Base-T (Full-Duplex) 20 Mb/s

100Base-TX (Full-Duplex) 200 Mb/s 1000Base-TX (Full-2000 Mb/s

Duplex)

Connector RJ-45

Cable Support 10Base-T Categories 3, 4, or 5 UTP; up to 328 ft (100 m)

> 10/100/1000 Base-TX Category 5 UTP up to 328 ft (100 m)

HP 331i Integrated **Quad Port Gigabit** Server Adapter

Network Processor

Broadcom BCM5719 chipset Data rate

Four ports, each at 2 Gbps full duplex; 8 Gbps aggregate full duplex

theoretical bandwidth.

Bus type PCIe 2.0 Bus speed Gen 2 x4 Connector RJ-45 (Four)

Cable distance Up to 328 ft (100 m)

Category 5/ (CAT-5) or better twisted-pair cabling Wiring

IEEE Compliance 802.3, 802.3ab, 802.3u, 802.3x, Dynamic 802.3ad, 802.1Q, 802.3az, 1588,

802.1as

Environmentfriendly Products and Approach

Recycling

End-of-life Management and 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.



Date	Version History	Action	Description of Change:	
09-Feb-2015	From Version 58 to 59	Added	Skus Added on HP Uninterruptible P	Ower Systems:
			• J2Q99A	 J2R04A
			• J2R00A	 J2R05A
			• J2R01A	 J2R09A
			• J2R02A	• J2R10A
			• J2R03A	• L4Q11A
				- 2101111
		Removed	Obsolete Skus removed:	CEEE10 B31
			• 593907-B21	• 655518-B21
			• 689340-B21	• 655520-B21
			• 689342-B21	• 655516-B21
			• 653976-B21	• 671816-B21
			• 653978-B21	• 593907-B21
			• 655514-B21	 AG073A
			• 653980-B21	 AG074A
			• 655522-B21	 AG075A
			• 653982-B21	• 593907-B21
01-Dec-2014	From Version 57 to 58	Changed	Standard Features and Core Options	s sections were updated
		Added	Skus Added on Hard Drives:	
			• 757351-B21	
			• 757354-B21	
		Removed	Obsolete skus deleted:	
			• 690823-B21	
			• 581201-B21	
			• AF902A	
01-Nov-2014	From Version 56 to 57	Changed	Service and Support section was up	
18-Aug-2014	From Version 55 to 56	Changed	Maximum Internal Storage, Drive Su	upport sections were updated
		Added	Skus added to Hard Drives:	
			• 785103-B21	
			• 785101-B21	
			• 785099-B21	
			• 741144-B21	
			• 741140-B21	
			• 741136-B21	
			• 741157-B21	
			• 741153-B21	
			• 741148-B21	
		Removed	Obsolete skus removed:	
			• 690821-B21	
			• 690819-B21	
			• 632494-B21	
			• 632492-B21	
10-Jun-2014	From Version 54 to 55	Changed	Supported Options, Processors, Net	work Controller, Optimized Care,
			Standard Care, Basic Care, Internal S	Storage, Memory, Hard Drives in Core
			Option and Disk Backup, Storage Op	otions, USB and SD Options in
			Additional Options sections were re	
31-Mar-2014	From Version 53 to 54	Changed	Memory, Hard Drives, and HP Insigh	t Software were revised
			HP Disk Backup and HP Basic and Re	emote Monitoring Power Distribution
			Unit product descriptions were revis	
			HP NC524SFP Dual Port 10GbE Mod	ule was removed from HP



			Networking
18-Feb-2014	From Version 52 to 53	Changed	Memory, Graphics Options, Tape Backup, and USB and SD Options were revised.
13-Dec-2013	From Version 51 to 52	Changed	HP Smart Array P411/256 BBWC 2-ports Ext PCIe x8 FIO SAS Controller was removed from HP Storage Controllers HP NC522SFP Dual Port 10GbE Gigabit Server Adapter and HP 10 GbE PCI-e G2 Dual Port Network Interface Card were removed from Networking HP InfiniBand 4X DDR ConnectX-2 PCIe G2 Dual Port HCA was removed from HP InfiniBand HP Power Distribution Units was removed from Additional Options HP 1.2TB 6G SAS 10k rpm SFF SC Dual Port Enterprise 3yr Warranty Hard Drive was added to Hard Drives HP 3TB G2 FH/HL PCIe ioDrive2 IO Accelerator for ProLiant Servers to was added HP I/O Accelerator Options HP Basic Power Distribution Units and HP Remote Monitoring Power Distribution Units were revised in Additional Options
11-0ct-2013	From Version 50 to 51	Changed	Processors were revised First Generation Accelerators was removed from HP I/O Accelerators HP PCIe Workload Accelerator Options and HP Remote Monitoring Power Distribution Units were 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 49 to 50	Changed	Processors, HP Insight Management, High Performance Clusters, Models, Hard Drives, HP Networking, HP InfiniBand Options, HP Storage Options, HP Disk Backup, and HP Power Distribution Units were revised.
15-Jul-2013	From Version 48 to 49	Changed	HP Disk Backup was revised in Additional Options.
05-Jun-2013	From Version 47 to 48	Changed	Core Options: Updated HP Hard Drives section. Additional Options: USB and SD Options
13-May-2013	From Version 46 to 47	Added	Additional Options: Added the HP Basic Power Distribution Units section.
		Changed	Standard Features: Updated Maximum Internal Storage section. Core Options: Updated HP Hard Drives section. Additional Options: HP Tape Backup, HP Intelligent Power Distribution Units (iPDU), HP USB and SD Options and HP Care Pack Services section. Memory: Updated RDIMMS per processor section.
19-Apr-2013	From Version 45 to 46	Added	Memory: Updated Memory Installation Example section.
05-Apr-2013	From Version 44 to 45	Added	Additional Options: Added Note to the HP Tape Backup section.
25-Mar-2013	From Version 43 to 44	Added Removed	Configuration Information: Added a NOTE to the HP Power Supplies section Core Options: Added a NOTE to the HP Power Supplies section. Additional Options: Removed 641027-B21, 600279-B21 and 600282-
OF M=:: 3013	Fuere Version 431 43	ال د المام ٨	B21 from the HP I/O Accelerator Options.
05-Mar-2013	From Version 42 to 43	Added	Optional Features: Added HP Proactive Insight experience section.
12-Dec-2012	From Version 40 to 41	Changed	Changes were made to the North America and Canada versions only.
04-Dec-2012	From Version 39 to 40	Changed	Changes were made throughout the QuickSpec.
24-Sep-2012	From Version 38 to 39	Changed	Changes were made in Optional Features section. Changes were made in Core Options, Additional Options and Storage
24-Aug-2012	From Version 37 to 38	Changed	sections.
08-Jun-2012	From Version 36 to 37	Changed	Changes were made in the Hard Drives and Networking sections.
17-May-2012	From Version 35 to 36	Changed	Changes were made in the Standard Features, Configuration Information and Options sections.
26-Mar-2012	From Version 34 to 35	Changed	Changes were made throughout Additional Options.
06-Mar-2012	From Version 33 to 34	Changed	Changed a link in the Hard Drives section of Core Options.
13-Feb-2012	From Version 32 to 33	Changed	HP Insight Software and High Performance Clusters were revised HP Intelligent Power Distribution Units and HP Rack Options were



	1	1	
			completely revised
			Four-Core Processor was added
			Power Specifications was added to Standard Features
			HP 4GB and 8GB Single Rank x4 PC3-12800 Registered CAS-11 Memory
			Kits and HP 16GB Dual Rank x4 PC3-12800R Reg CAS-11 Memory Kit
			were added to Memory
			HP Ethernet 10Gb 4-port 331T Adapter was added to HP Networking
			HP Chipset SATA Cable Kit was added to HP Storage Controllers
			SAN Switches were added to HP Storage Options
13-Jan-2012	From Version 31 to 32	Changed	URL was revised in Tape and Disk Backup
			HP CN1000Q Dual Port Converged Network Adapter was added to HP
			Storage Options
16-Dec-2011	From Version 30 to 31	Changed	Changes were made throughout the QuickSpec.
02-Dec-2011	From Version 28 to 30	Changed	An update was made in HP Networking.
14-Nov-2011	From Version 26 to 28	Changed	Changes were made throughout.
26-Sep-2011	From Version 25 to 26	Changed	Maximum memory was increased to 1TB and Hot Plug SFF SSD maximum
			internal storage was increased to 3.2TB
			Optimized, Standard and Basic Care were updated in Service and Support
			Hard Drives were revised
			Product descriptions were revised throughout Additional Options
26-Sep-2011	From Version 25 to 26	Changed	Maximum memory was increased to 1TB and Hot Plug SFF SSD maximum
			internal storage was increased to 3.2TB
			Optimized, Standard and Basic Care were updated in Service and Support
			Hard Drives were revised
			Product descriptions were revised throughout Additional Options
01-Sep-2011	From Version 24 to 25	Removed	Removed skus 636597-B21, 636595-B21 & 636593-B21 from the Hard
			Drives section.
31-Aug-2011	From Version 22 to 24	Removed	Removed SATA Hot Plug SFF (2.5-inch) Entry (ETY) Drives from the Hard
			Drives and Storage sections.
29-Jul-2011	From Version 21 to 22	Changed	Hard Drive descriptions were revised.
22-Jul-2011	From Version 20 to 21	Removed	Removed part number 339773-B21 from Step 3 of the Configuration
			Information section
22-Jun-2011	From Version 18 to 20	Changed	Changes made throughout the QuickSpec.
09-May-2011	From Version 17 to 18	Changed	Processor and Storage Controller descriptions were revised
			HP 900GB 6G SAS 10K rpm SFF Enterprise Drive was added to Hard
			Drives
			HP Intelligent Power Distribution Units (iPDU) was added to Additional
			Options
15-Apr-2011	From Version 16 to 17	Changed	10Base-T, 100Base-TX and 1000Base-TX (Half-Duplex) Network
			Transfer Rates were removed from HP NC375i Integrated Quad Port
			Multifunction Gigabit Server Adapter.
05-Apr-2011	From Version 15 to 16	Changed	Hot Plug SFF SAS and SATA maximum internal storage was increased to
			8TB
			Service and Support was completely revised
			Models and Power Supply descriptions were revised
			Part numbers were changed to HP Cluster Management Utility Compute
			Node Flexible License and HP High Performance Computing Linux Value
			Pack 1 Processor Flexible License in High Performance Clusters
			HP 1TB 6G SAS 7.2K rpm SFF Hot Plug Midline and HP 1TB 3G SATA 7.2K
44.5.1.2244	F	Cl	rpm SFF Hot Plug Midline were added to Hard Drives
14-Feb-2011	From Version 14 to 15	Changed	Models, HP Insight Software, HP Tape Backup, HP Uninterruptible Power
			Systems and HP Rack Series product descriptions were revised
			AMD Opteron 6166HE, 6176, 6180SE, 6132HE and 6140 processors were
			added to Processors
			Oracle Solaris was added to Operating Systems and Virtualization



			Software Support for ProLiant Servers HP 16GB Dual Rank x4 PC3L-10600 Registered CAS-9 LP Memory Kit and HP 32GB Quad Rank x4 PC3L-8500 Registered CAS-9 Memory Kit were added to Memory HP StorageWorks RDX750 Internal Removable Disk Backup System was removed from HP Disk Backup
10-Jan-2011	From Version 13 to 14	Changed	HP NC523SFP 10Gb 2-port Server Adapter was added to HP Networking HP CN1000Q 2P Converged Network Adapter was added to HP StorageWorks Options
			Oracle Enterprise Linux (OEL) was removed from Operating Systems and Virtualization Software Support for ProLiant Servers HP InfiniBand 4X DDR PCI-E Dual Port Host Adapter was removed from HP InfiniBand HP Riser Card Options was removed from Core Options
10-Dec-2010	From Version 12 to 13	Changed	Changes made to the Chart in the Expansion Slots section of Standard Features.
03-Dec-2010	From Version 11 to 12	Changed	Activated a link in the High Performance Clusters section.
23-Nov-2010	From Version 10 to 11	Changed	Smart Array P812 Controller product description was revised.
18-Nov-2010	From Version 9 to 10	Changed	Note for Power Supplies was revised, Models were rearranged and Smart Array P410i Controller was completely revised.
15-Nov-2010	From Version 8 to 9	Changed	Power Supply description was revised in Step 2 Notes were modified in HP Tape Backup and HP Disk Backup and HP StorageWorks RDX 1TB Internal Removable Disk Backup System was added
			What's New was added to the Overview AMD Opteron 6128 processor was added Note was added to HP Insight management software
			High Performance Clusters was added HP 450GB and 600GB 6G SAS 15K Rpm SFF Dual Port Enterprise Hard Drives were added
			HP I/O Accelerator Options was added to Additional Options HP 10642G2 and 10647G2 1200 mm deep Rack cabinet Shock Rack were added to HP Rack Series
14-0ct-2010	From Version 7 to 8	Changed	HPC Interconnects was removed from Optional Features Changed the description of the HP Graphics Options.
05-0ct-2010	From Version 6 to 7	Changed	Changes made throughout the entire QuickSpec.
18-Aug-2010	From Version 5 to 6	Changed	Changed the NOTE in the Upgradeability section of Standard Features.
16-Aug-2010	From Version 4 to 5	Changed	ACPI 1.0a Compliant was changed to ACPI 2.0 Compliant, PCI 2.2 Compliant was changed to PCI 2.0 Compliant and With embedded NC371i Multifunction Gigabit Network Adapters were removed from WOL Support in Industry Standard Compliance HP DL585G7 PCO-E Option Kit and HP DL585G7 PCI-E/X Option Kit were added and HP DL585 Video Power Cords were removed from HP Unique Options HP Insight Software was completely revised Notes were added to the beginning of Models HP I/O Accelerator Options was added to Additional Options HP InfiniBand 4X DDR PCI-E 0 Memory Dual Port HCA was removed from HP InfiniBand
01-Jul-2010	From Version 3 to 4	Changed	Base Models and Performance Models headers were added and Integrated Lights Out and Optical Drives were revised in Models.
25-Jun-2010	From Version 2 to 3	Changed	Image callouts were revised PC2-6400 DDR SDRAM was changed to PC3-10600 (DDR3-1333) throughout Memory Network RJ-45 was changed to 4 in Interfaces



Summary of Changes

Specifications

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

