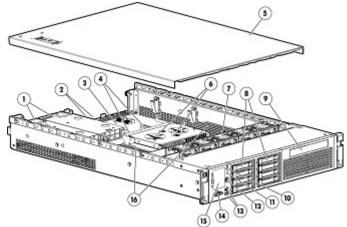
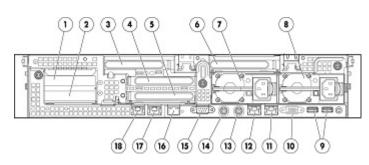
Overview

As the leading 2P 2U AMD rack server, the HP ProLiant DL385 G7 is designed with virtualization in mind, yet flexible and expandable to support any business need in many environments from corporate datacenters to sophisticated SMBs.





Front View:

- 1. Redundant Power Supplies
- 2. Two HP NC382i Dual Port Multifunction NICs
- 3. SD Card Reader
- 4. PCI Riser Slots
- 5. Quick Removal Access Panel
- 6. AMD Opteron Processors (up to 2)
- 7. Hot Plug Redundant Fans
- 8. Hard Drive Bays
- 9. Slimline Optical bay
- 10. UID LED Button
- 11. Health LED
- 12. Power On/Standby Button and System Power LED
- 13. USB Connectors (2)
- 14. Video Connector
- 15. System Insight Display
- 16. Twenty-four sockets for DDR3 Memory

Rear View:

- 1. PCI slot 5
- 2. PCI slot 6
- 3. PCI slot 4
- 4. PCI slot 2
- 5. PCI slot 3
- 6. PCI slot 1
- 7. Power Supply 2
- 8. Power Supply 1
- 9. USB Connectors (2)
- 10. Video Connector
- 11. NIC 1 Connector
- 12. NIC 2 Connector
- 13. Mouse Connector
- 14. Keyboard Connector
- 15. Serial Connector
- 16. iLO3 connector
- 17. NIC 3 Connector
- 18. NIC 4 Connector

What's New

- Support for 4-core AMD Opteron™ 6204 processor
- Support for 1600MHz DDR3 memory kits



Standard Features

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

Processor

One of the following depending on Model

Sixteen-Core Processors

AMD Opteron™ 6282SE (2.60GHz/16-core/16MB/140W TDP) Processor

AMD Opteron™ 6276 (2.30GHz/16-core/16MB/115W TDP) Processor

AMD Opteron™ 6274 (2.20GHz/16-core/16MB/115W TDP) Processor

AMD Opteron™ 6272 (2.10GHz/16-core/16MB/115W TDP) Processor

AMD Opteron™ 6262HE (1.60GHz/16-core/16MB/85W TDP) Processor

Twelve-Core Processors

AMD Opteron™ 6238 (2.60GHz/12-core/16MB/115W TDP) Processor

AMD Opteron™ 6234 (2.40GHz/12-core/16MB/115W TDP) Processor

AMD Opteron™ 6180SE (2.50GHz/12-core/12MB/140W TDP) Processor

AMD Opteron™ 6176SE (2.30GHz/12-core/12MB/140W TDP) Processor

AMD Opteron™ 6176 (2.30GHz/12-core/12MB/115W TDP) Processor

AMD Opteron™ 6174 (2.20GHz/12-core/12MB/115W TDP) Processor

AMD Opteron™ 6172 (2.10GHz/12-core/12MB/115W TDP) Processor

AMD Opteron™ 6166HE (1.80GHz/12-core/12MB/85W TDP) Processor

Eight-Core Processors

AMD Opteron™ 6220 (3.0GHz/8-core/16MB/115W TDP) Processor

AMD Opteron™ 6212 (2.60GHz/8-core/16MB/115W TDP) Processor

AMD Opteron™ 6140 (2.60GHz/8-core/12MB/115W TDP) Processor

AMD Opteron™ 6136 (2.40GHz/8-core/12MB/115W TDP) Processor

AMD Opteron™ 6134 (2.30GHz/8-core/12MB/115W TDP) Processor

AMD Opteron™ 6128 (2.0GHz/8-core/12MB/115W TDP) Processor

AMD Opteron™ 6132HE (2.20GHz/8-core/12MB/85W TDP) Processor

AMD Opteron™ 6128HE (2.0GHz/8-core/12MB/85W TDP) Processor

Quad-Core Processors

AMD Opteron™ 6204 (3.30GHz/4-core/16MB/115W TDP) Processor

NOTE: Up to 2 processors supported. High Performance Model configurations include two processors, 16GB system memory, 1G storage controller memory, FBWC, DVDRW, ICE license, Redundant 750W Power Supplies, and 6 hot plug redundant fans.

Cache Memory

One of the following depending on Model

16MB (1 x 16MB) Level 3 cache memory **NOTE:** Supported on 6200 series processors. 12MB (1 x 12MB) Level 3 cache memory **NOTE:** Supported on 6100 series processors.

Chipset

AMD SR5690 Northbridge and SP5100 Southbridge



Standard Features

Upgradeability Upgradeable to two processors

Memory Protection Advanced ECC

Online Spare

Memory Type DDR3 Registered (RDIMM) and Unbuffered (UDIMM)

Maximum (RDIMM) 512GB Maximum (UDIMM) 64GB

NOTE: If only one processor is installed, only half the DIMM slots are available

NOTE: Depending on the memory configuration and processor model, the memory speed may run at 1600Mhz, 1333MHz, 1066MHz, or 800MHz. Please see the Online Memory Configuration Tool at:

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

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports total)

NOTE: 1GB of memory is sufficient to support up to eight Total Ports. 2GB of memory is required if nine or

more Total Ports have been selected.

Expansion Slots

NOTE: Up to 6 PCI slots (PCIe slots are Gen 2). Standard BTO riser with PCIe (1) x8 FL/FH, (2) x4 HL/FH. Optional second risers with PCIe (1) x8, (2) x4; or a PCIe/PCI-X mixed riser with (2) PCI-X, (1) x8; or a x16 225w PCIe riser with (1) x16; or a (2) x8 Dual Port 10GbE riser.

Primary Riser (Standard)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCI-e 2.0	х8	x16	6	Full Length/Full Height	
	2	PCIe 2.0	x4	x8	12	Half length, full height	
	3	PCIe 2.0	х4	x8	15	Half length, full height	

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: Bus width - Indicates the number of physical electrical lanes running to the connector

NOTE: Only single wide cards are supported

PCIe Riser (Optional Secondary)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	4	PCIe 2.0	х8	x16	18	Full Length/Full Height	
	5	PCIe 2.0	x4	x8	24	Low Profile	
	6	PCIe 2.0	x4	x8	27	Low Profile	



Standard Features

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: Bus width - Indicates the number of physical electrical lanes running to the connector

NOTE: Only single wide cards are supported

PCIe/PCI-X Riser (Optional Primary)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCI-X	64-bit	N/A	7	Full length, Full height	
	2	PCI-X	64-bit	N/A	7	Half Length, Full Height	
	3	PCIe 2.0	х8	x8	11	Half Length, Full Height	

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: Bus width - Indicates the number of physical electrical lanes running to the connector

NOTE: Only single wide cards are supported **NOTE:** PCI-X support is limited to PCI-X cards only

PCIe/PCI-X (Optional Secondary)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	4	PCI-X	64-bit	N/A	19	Full Length/Full Height	
	5	PCI-X	64-bit	N/A	19	Low Profile	
	6	PCIe 2.0	x8	х8	23	Low Profile	

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: Bus width - Indicates the number of physical electrical lanes running to the connector

NOTE: Only single wide cards are supported **NOTE:** PCI-X support is limited to PCI-X cards only

x16 PCle Riser (Optional Primary)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 2.0	x16	x16	6	Full Length/Full Height	Supports up to 150W

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: Bus width - Indicates the number of physical electrical lanes running to the connector

NOTE: Only single wide cards are supported

x16 PCIe Riser (Optional Secondary)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCIe 2.0	x16	x16	18	Full Length/Full Height	Supports up to 150W



Standard Features

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: Bus width - Indicates the number of physical electrical lanes running to the connector

NOTE: Only single wide cards are supported

(2) >	(8 PC	I-E I	Riser
(Opt	iona	l Pri	mary)

Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
1	PCIe 2.0	х8	x16	6	Full Length/Full Height	
2	PCIe 2.0	x8	x16	9	Half length, full height	

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: Bus width - Indicates the number of physical electrical lanes running to the connector

NOTE: Only single wide cards are supported

NOTE: The shared network port is only supported in the secondary riser connector

(2) x8 PCI-E Riser (Optional Secondary)

Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
4	PCIe 2.0	х8	x16	18	Full Length/Full Height	
5	PCIe 2.0	x8	x16	21	Low Profile	

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

NOTE: Bus width - Indicates the number of physical electrical lanes running to the connector

NOTE: Only single wide cards are supported

NOTE: The shared network port is only supported in the secondary riser connector

Storage Controller One of the following

One of the following depending on Model

Entry Models: HP Smart Array P410i/Zero Memory Controller Base Models: HP Smart Array P410i/256 MB Controller

HP Smart Array P410i/256 MB Controller
HP Smart Array P410i/512MB FBWC Controller

High Performance Models: HP Smart Array P410i/1G FBWC Controller

Available upgrades: 1G FBWC, 512MB FBWC, 256MB, 512MB with BBWC, Battery kit upgrade (for the

256MB cache), and Smart Array Advanced Pack (SAAP)

NOTE: RAID 6 and 60 requires purchase of HP Smart Array Advanced Pack (516471-B21).



Standard Features

Internal Storage Devices Diskette Drive None

Optical Drive None Standard

One of the following HP Slim SATA DVD RW Optical Drive (standard on Performance Models) depending on Model NOTE: The Optical Drive option is not available when you upgrade with the

additional 8 SFF drive cage, or in the LFF Models.

Hard Drives None Standard

Hard Drive Bays Standard (8) small form factor (SFF) hot-plug drive bays to support Serial-

attached SCSI (SAS) and Serial ATA (SATA) drives

Optional second drive cage for additional (8) SFF drive bays (total 16)

Optional cage for (6) Large Form Factor SAS/SATA hard drive bays

Maximum Internal Storage

Hot Plug SFF SAS16TB16 x 1TB (with optional SFF drive cage)Hot Plug LFF SAS18TB6 x 3TB (with optional LFF drive cage)Hot Plug SFF SAS SSD12.8TB16 x 800GB (with optional SFF drive cage)Hot Plug LFF SATA SSD2.4TB6 x 400GB (with optional LFF drive cage)Hot Plug SFF SATA SSD6.4TB16 x 400GB (with optional SFF drive cage)

Interfaces Serial 1

Video 2 (1 front, 1 back)

Network RJ-45 (Ethernet) 4 iLO3 remote management 1

port

Keyboard 1
Pointing Device (Mouse) 1
Graphics 1

USB 2.0 Ports 6 (2 front, 2 back, 2 inside - one for internal tape)

Industry Standard Compliance

ACPI 2.0 Compliant PCIe 2.0 Compliant PCI 2.2 Compliant WOL 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

Standard Features

Common Slot ProLiant

HP has a new design for ProLiant power. The new Common Slot Power Supply bay. This design provides the customer with commonality in power supplies across multiple platforms to save on the cost of spares and allows HP to offer multiple power solutions to fit the customers' needs. Many HP ProLiant Servers come with Common Slot, High Efficiency power supplies that allow you to right-size power supplies for your server configuration. Common Slot (CS) designates commonality of the power supply across multiple ProLiant servers. HP's new Common Slot power supplies are designed for highest efficiency to provide power efficiency without degrading performance of the ProLiant. Power Supplies will have efficiency ratings up to 94%. There are three power wattage options to choose from - 460W, 750W, and 1200W - depending on the configuration of your server. To make sure you select the correct power supply to meet your configuration, we suggest that you use the HP Power Advisor (www.hp.com/go/hppoweradvisor) to decide the "Right-Size" for your configuration. All HP Common Slot power sources are UL, CE Mark Compliant, Hot Pluq and Redundant.

It is highly recommended that you use the HP Power Calculator in defining the "Right-Size" power supply for your needs.

HP's ProLiant Common Slot Power supplies (460W & 750W) meet multiple Energy Efficiency Initiatives including Climate Savers Computing Initiative GOLD, ECOS Consulting 80PLUS GOLD, and plans on offering models that meet the Energy Star for Server requirements when they are published.

HP's ProLiant Common Slot Power supplies (1200W, 750W & 460W) meet multiple Energy Efficiency Initiatives including Climate Savers Computing Initiative Platinum and ECOS Consulting 80PLUS Platinum Power Supply requirements.

Redundant Power: Optional (1+1 or n+n redundant) power supplies can be purchased through power supply option kits (see Redundant Options for part numbers).

NOTE: Pre-Configured Performance models include two power supplies; Pre-Configured Base and Entry models include one power supply. On CTO models, power supply must be selected from available options.

System Fans

Hot plug fans ship standard, N+1 fully redundant (3+1) for 1 processor, (5+1) for 2 processors

NOTE: Processor option kits include 2 additional fans when upgrading to 2 processors.

Required Cabling

For required cabling information, refer to the HP Web site at: www.hp.com/servers/dl385-g7

Operating Systems and Virtualization Software Support for ProLiant Servers Microsoft Windows Server 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, please visit our Support Matrix at: http://www.hp.com/go/ossupport



Standard Features

Graphics

Integrated ATI ES1000, 64MB video standard

16 bit color: maximum resolution of 1600 x 1200
32 bit color: maximum resolution of 1280 x 1024

NOTE: Maximum resolution available via iLO3 remote console is 1280 x 1024 (for 32 bit color) and 1600 x 1200 (DVR max resolution).

Form Factor

Rack (2U), (3.5-inch)

HP Insight management software

HP Service Pack for ProLiant HP Service Pack for ProLiant (SPP) and HP Smart Update Manager (HP SUM) version 5 provide a new, 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 on each Service Pack for ProLiant.

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 version 5 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 has been re-written to provide a more 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 will recommend the combinations of firmware and system software that HP has found to be the best practice, the application gives customers the flexibility to set their own specific baseline.

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

The Service Pack for ProLiant (which includes HP SUM 5) can be downloaded from: www.hp.com/go/spp/download. More information can be found: http://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:



Standard Features

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

HP Integrated Lights-Out (iLO) for ProLiant

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 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, 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

Management Agent Redundant ROM Remote Flash ROM

ROM-Based Setup Utility (RBSU) Integrated Management Log

Automatic Server Recovery (ASR)

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

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

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



Standard Features

Security

Power-on password Keyboard password

QuickLock, Network Server Mode

Serial interface control Administrator's password

Warranty

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

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 software

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 Insight Dynamics for ProLiant

HP Insight Dynamics for ProLiant, a product option, is advanced infrastructure management software that enables IT staff to instantly adjust their environments to meet dynamic business demands by provisioning, optimizing and protecting complex infrastructure in minutes. It's a powerful toolkit, integrated-by-design, that accelerates complex technology projects and simplifies daily operations, transforming data center economics. With Insight Dynamics IT professionals can plan capacity and power continuously, balance workloads 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 selfservice 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



Optional Features

High Performance Clusters

HP Cluster Platforms

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

HP HPC Interconnects

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

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

HP 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

HP HPC Linux Value Pack

HP HPC Linux Value Pack (Value Pack) is an HP-licensed and HP-supported specially priced software bundle for the development and deployment of applications on HPC Cluster Platforms. Value Pack includes the Platform HPC Enterprise Edition suite of tools including the LSF workload scheduler, the HP-MPI parallelization library. Also included are the HP Unified Parallel C compiler and the HP Shmem library, as well as the execution environments for the libraries and compiler. HP HPC Linux Value Pack

for Servers and Storage

Factory Express Portfolio 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 and BladeSystem

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

What HP ProLiant and BladeSystem Services can do for you

HP ProLiant and BladeSystem Services can help you design, deploy, test, integrate, support, and manage IT and infrastructure solutions. This way, HP proposes services solutions that include more than just uplift of base warranty. You can get the support you need by choosing from one of a number of service packaged solutions we have designed to address wider set of customer support needs:.

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

Optimized Care

Optimized Care Package: Supports maintaining servers at optimum performance availability

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN

HP Installation and Startup for Insight Control Software

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

3-Year HP Critical Advantage

Provides end-to-end infrastructure support solution for business critical applications running on virtualized/x86 infrastructures, enabling the customers to cost effectively build, operate, and continuously improve their IT environment

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA3-1772ENW

Additional Services: Microsoft or Linux or VMware education courses + Facility & technology environmental assessment services + Energy Efficiency Design, Factory Express



Service and Support

Standard Care

Standard Care Package: Package that maintains high level of server availability

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN

HP Installation and Startup for Insight Control Software

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

3-Year HP 6 hour Hardware Support Onsite Call-to-Repair Service

Provides an IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 hours of the initial service request to the HP Global Solution Center

http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EN.pdf

3-Year, HP 24x7 Software Support for Insight Control

Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers

http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6645EEE.pdf

Additional Services: Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware Installation & Start Up, and Software Support; Install and Startup Services for Insight Control; Microsoft or Linux or VMware education courses; +30 Proactive Select Credits, Factory Express

Basic Care

Basic Care Package: delivers minimum recommended support service level

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN

3-Year HP 24x7 4 hour Response, Hardware Support Onsite Service

Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf

Additional Services: Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware Installation & Start Up and Software Support); +10 Proactive Select Credits, Factory Express

Insight Remote Support

The packages include HP Insight Remote Support that uses proven technology to deliver secure, reliable 24x7 remote monitoring, diagnoses, and problem resolution. It is available at no additional cost to all warranty, HP Care Pack Service, and service agreement customers.

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: DL385 G7 chassis has 24 DIMM slots available.

Performance Models

HP ProLiant DL385 G7 6282SE 64GB-R Hot Plug SATA SFF 750W PS Server

654841-xx1

Processor(s) (2) AMD Opteron[™] 6282SE (2.6GHz/16-core/16MB/140W) Processors

Cache Memory 16MB L3 cache

Network Controller

Memory 64GB (8 x 8GB) PC3-10600R (DDR3-1333) Registered DIMMs

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports total)

Storage Controller HP Smart Array P410i/1GB FBWC Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays
Optical Drive Slim SATA DVD-RW Optical Drive

Power Supply (2) HP 750W Common Slot Platinum Hot Plug Power Supplies

Fans 6 Hot Plug Fully Redundant Fans

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

Technical Support and Updates

Form Factor Rack (2U), (3.5-inch)

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

with next business day response.

HP ProLiant DL385 G7 6174 2P 16GB-R P410i/1GB FBWC 8 SFF 750W RPS Perf IC Sever

573087-xx1

Processor(s) (2) AMD Opteron[™] 6174 (2.2GHz/12-core/12MB/80W) Processors

Cache Memory 12MB L3 cache

Memory 16GB (8 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/1GB FBWC Controller

Hard Drive None ship standard

Internal StorageStandard: 8 SFF SAS/SATA HDD BaysOptical DriveSlim SATA DVD-RW Optical Drive

Power Supply (2) HP 750W Common Slot Gold Hot Plug Power Supplies

Fans 6 Hot Plug Fully Redundant Fans

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

Technical Support and Updates



Pre-configured Models

Form Factor Rack (2U), (3.5-inch)

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

with next business day response.

HP ProLiant DL385 G7 6180SE 2P 16GB-R P410i/1GB FBWC SFF 750W RPS IC Server

636071-xx1

Processor(s)

Cache Memory

(2) AMD Opteron™ 6180SE (2.5GHz/12-core/12MB/105W) Processors

ne Memory 12MB L3 cache

Memory 16GB (8 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total

Storage Controller

HP Smart Array P410i/1GB FBWC Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays
Optical Drive Slim SATA DVD-RW Optical Drive

Power Supply (2) HP 750W Common Slot Gold Hot Plug Power Supplies

Fans 6 Hot Plug Fully Redundant Fans

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

Technical Support and Updates

Form Factor Rack (2U), (3.5-inch)

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

with next business day response.

Base Models

HP ProLiant DL385 G7 6274 32GB-R Hot Plug SFF 460W PS Server

654853-xx1

Processor(s) (2) AMD Opteron[™] 6274 (2.2GHz/16-core/16MB/115W) Processor

Cache Memory 16MB L3 cache

Memory 32GB (4 x 8GB) PC3-10600R (DDR3-1333) Registered DIMMs

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/512MB FBWC Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays

Optical Drive Not included on Base model

Power Supply (1) 460W Common Slot Platinum Hot Plug Power Supply

Fans 6 hot plug redundant fans
Form Factor Rack (2U), (3.5-inch)

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

with next business day response.

HP ProLiant DL385 G7 6238 16GB-R Hot Plug SFF 460W PS Server

6E40E6_vv1

Processor(s)

(2) AMD Opteron™ 6238 (2.6GHz/12-core/16MB/115W) Processor

Cache Memory 16MB L3 cache

Memory 16GB (4 x 4GB) PC3-10600R (DDR3-1333) Registered DIMMs



Pre-configured Models

1 XX-0COPCO

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/512MB FBWC Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays

Optical Drive Not included on Base model

Power Supply (1) 460W Common Slot Platinum Hot Plug Power Supply

Fans 6 hot plug redundant fans
Form Factor Rack (2U), (3.5-inch)

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

with next business day response.

HP ProLiant DL385 G7 6172 1P 8GB-R P410i/256 8 SFF 460W PS Base

Server

573088-xx1

Processor(s) (1) AMD Opteron[™] 6172 (2.1GHz/12-core/12MB/80W) Processor

Cache Memory 12MB L3 cache

Memory 8GB (4 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/256MB Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays

Optical Drive Not included on Base Model

Power Supply (1) 460W Common Slot Gold Hot Plug Power Supply

Fans 4 hot plug redundant fans
Form Factor Rack (2U), (3.5-inch)

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

with next business day response.

HP ProLiant DL385 G7 6176 1P 8GB-R P410i/256 SFF 460W PS Server

636075-xx1

Processor(s) (1) AMD Opteron™ 6176 (2.3GHz/12-core/12MB/80W) Processor

Cache Memory 12MB L3 cache

Memory 8GB (4 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/256MB Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays

Optical Drive Not included on Base model

Power Supply (1) 460W Common Slot Gold Hot Plug Power Supply

Fans 4 hot plug redundant fans
Form Factor Rack (2U), (3.5-inch)

Pre-configured Models

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

with next business day response.

HP ProLiant DL385 G7 6136 1P 8GB-R P410i/256 Hot Plug 1 SFF 460W PS

Base Server 585335-xx1

Processor(s) (1) AMD Opteron[™] 6136 (2.4GHz/8-core/12MB/80W) Processor

Cache Memory 12MB L3 cache

Memory 8GB (4 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/256MB Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays

Optical Drive Not included on Base model

Power Supply (1) 460W Common Slot Gold Hot Plug Power Supply

Fans 4 hot plug redundant fans
Form Factor Rack (2U), (3.5-inch)

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

with next business day response.

Entry Models

HP ProLiant DL385 G7 Processor(s)
6128 1P 4GB-R P410i/ZM 8 Cache Memory
SFF 460W PS Entry Server

573089-xx1

Processor(s) (1) AMD Opteron[™] 6128 (2.0GHz/8-core/12MB/80W) Processor

ache Memory 12MB L3 cache

Memory 4GB (2 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/Zero Memory Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays

Optical Drive Not included on Entry model

Power Supply (1) 460W Common Slot Gold Hot Plug Power Supply

Fans 4 hot plug redundant fans
Form Factor Rack (2U), (3.5-inch)

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

with next business day response.



Pre-configured Models

High Efficiency Models

HP ProLiant DL385 G7 6128HE 1P 4GB-U P410i/ZM 8 SFF 460W PS Efficiency Server 573090-xx1 Processor(s) (1) AMD Opteron™ 6128HE (2.0GHz/8-core/12MB/65W) Processor

Cache Memory 12MB L3 cache

Memory4GB (2 x 2GB) PC3-10600 (DDR3-1333) Unbuffered DIMMsNetwork ControllerTwo HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/Zero Memory Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays

Optical Drive Not Included on HE model

Power Supply (1) 460W Common Slot Platinum Hot Plug Power Supply

Fans 4 hot plug redundant fans
Form Factor Rack (2U), (3.5-inch)

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

with next business day response.

HP ProLiant DL385 G7 6132HE 4GB-U P410i/ZM 8 SFF 460W 94 EFF PS

Server 636076-xx1

Processor(s) (1) AMD Opteron™ 6132HE (2.2GHz/8-core/12MB/65W) Processor

Cache Memory 12MB L3 cache

Memory 4GB (2 x 2GB) PC3-10600 (DDR3-1333) Unbuffered DIMMs

Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports

total)

Storage Controller HP Smart Array P410i/Zero Memory Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays

Optical Drive Not Included on HE model

Power Supply (1) 460W Common Slot Platinum Hot Plug Power Supply

Fans 4 hot plug redundant fans
Form Factor Rack (2U), (3.5-inch)

PRC

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
 APD

 xx = 42
 Europe

xx = AA



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 (choose one of the following configurable models)

HP Models HP ProLiant DL385 G7 SFF Configure-to-order Server

573122-B21

Factory Integrated Model ships with:

(8) SFF Serial Attached SCSI (SAS) Drive Bays

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports total)

HP Smart Array P410i/Zero Memory Controller

PCI-Express Riser Cage One IEC Power cord

Hot plug fans (fully redundant)

NOTE: 4 fans one processor models; 6 fans two processor models

Rack (2U), (3.5-inch)

HP ProLiant DL385 G7 LFF Configure-to-order Server

573123-B21

Factory Integrated Model ships with:

(6) LFF Serial Attached SCSI (SAS) Drive Bays

NOTE: LFF configuration does not support internal optical drive

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports total)

HP Smart Array P410i/Zero Memory Controller

PCI-Express Riser Cage One IEC Power cord

Hot plug fans (fully redundant)

NOTE: (4 fans one processor models; 6 fans two processor models)

Rack (2U), (3.5-inch)

NOTE: This option removes the optical media bay and 8 SFF drive bays

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

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HP Processors NOTE: If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.

Sixteen-Core Processors

HP DL385 G7 AMD Opteron 62825E (2.60GHZ) 16-core/ 16MB/ 140W) FIO Processor Kit	654868-L21
HP DL385 G7 AMD Opteron™ 6276 (2.30GHz/16-core/16MB/115W) FIO Processor Kit	654862-L21
HP DL385 G7 AMD Opteron™ 6274 (2.20GHz/16-core/16MB/115W) FIO Processor Kit	654870-L21
HP DL385 G7 AMD Opteron™ 6272 (2.10GHz/16-core/16MB/115W) FIO Processor Kit	654864-L21
HP DL385 G7 AMD Opteron™ 6262HE (1.60GHz/16-core/16MB/85W) FIO Processor Kit	654866-L21

Twelve-Core Processors

HP DL385 G7 AMD Opteron™ 6238 (2.60GHz/12-core/16MB/115W) FIO Processor Kit	654872-L21
HP DL385 G7 AMD Opteron™ 6234 (2.40GHz/12-core/16MB/115W) FIO Processor Kit	657455-L21
HP DL385 G7 AMD Opteron™ 6180SE (2.5GHz/12-core/12MB/140W) FIO Processor Kit	636080-L21



Configuration Information - Factory Integrated Models

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HP DL385 G7 AMD Opteron™ 6176SE (2.3GHz/12-core/12MB/140W) FIO Processor Kit	585322-L21
HP DL385 G7 AMD Opteron™ 6176 (2.3GHz/12-core/12MB/115W) FIO Processor Kit	636082-L21
HP DL385 G7 AMD Opteron™ 6174 (2.2GHz/12-core/12MB/115W) FIO Processor Kit	585320-L21
HP DL385 G7 AMD Opteron™ 6172 (2.1GHz/12-core/12MB/115W) FIO Processor Kit	585324-L21
HP DL385 G7 AMD Opteron™ 6166HE (1.8GHz/12-core/12MB/85W) FIO Processor Kit	636086-L21
Eight-Core Processors	
HP DL385 G7 AMD Opteron™ 6220 (3.0GHz/8-core/16MB/115W) FIO Processor Kit	663496-L21
HP DL385 G7 AMD Opteron™ 6212 (2.60GHz/8-core/16MB/115W) FIO Processor Kit	663498-L21
HP DL385 G7 AMD Opteron™ 6140 (2.6GHz/8-core/12MB/115W) FIO Processor Kit	636084-L21
HP DL385 G7 AMD Opteron™ 6136 (2.4GHz/8-core/12MB/115W) FIO Processor Kit	585326-L21
HP DL385 G7 AMD Opteron™ 6134 (2.3GHz/8-core/12MB/115W) FIO Processor Kit	585328-L21
HP DL385 G7 AMD Opteron™ 6128 (2.0GHz/8-core/12MB/115W) FIO Processor Kit	585330-L21
HP DL385 G7 AMD Opteron™ 6132HE (2.2GHz/8-core/12MB/85W) FIO Processor Kit	636088-L21
HP DL385 G7 AMD Opteron™ 6128HE (2.0GHz/8-core/12MB/85W) FIO Processor Kit	585332-L21
Quad-Core Processors	
HP DL385 G7 AMD Opteron™ 6204 (3.30GHz/4-core/16MB/115W) FIO Processor Kit	671931-L21
NOTE: DIMM banks are active only when the corresponding processor socket is	
populated.	
Registered DIMMs (RDIMMs)	
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593907-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676331-B21
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 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 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	684066-B21
HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit	593915-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627808-B21
HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627810-B21
Unbuffered with ECC DIMMs (UDIMMs)	
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593921-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593923-B21
NOTE: PC3L is a low voltage memory	

HP Power Supplies

HP Memory

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.



Configuration Information - Factory Integrated Models

HP Common Slot Platinum Power Supplies	
HP 460W Common Slot Platinum Hot Plug Power Supply Kit	593188-B21
HP 750W Common Slot Platinum Hot Plug Power Supply Kit	593831-B21
HP 1200W Common Slot Platinum Hot Plug Power Supply Kit	578322-B21
HP Common Slot Gold Power Supplies	
HP 460W Common Slot Gold Hot Plug Power Supply Kit	503296-B21
HP 750W Common Slot Gold Hot Plug Power Supply Kit	512327-B21
HP Common Slot -48VDC Power Supplies	
HP 1200W Common Slot -48VDC Hot Plug Power Supply Kit NOTE: DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers.	437573-B21
NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14029_div/14029_div.html	

Step 3: Choose Additional Factory Integratable Options

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HP Storage Controllers	HP Smart Array P212/256 BBWC 1-ports Int/1-ports Ext PCIe x8 FIO SAS Controller	491191-B21	
	HP Smart Array P410/ZM 2-ports Int PCIe x8 FIO SAS Controller	462860-B21	
	HP Smart Array P410/256 BBWC 2-ports Int PCIe x8 FIO SAS Controller	491195-B21	
	HP Smart Array P411/256 BBWC 2-ports Ext PCIe x8 FIO SAS Controller	491193-B21	
HP Performance Packs	HP ProLiant DL385 G7 Performance models include the latest performance technologies and enterprise class availability features pre-installed for convenience and value. Performance packs include a 2nd processor, two additional fans, 1G/FBWC, a second 750W CS HE power supply and Insight Control (ICE) license. To complete the configuration of a Performance model, select the Slim SATA DVD-RW Optical Drive Kit (481043-B21).		
	HP DL385 G7 6174 High Performance Model FIO Performance Pack	585334-B21	
	HP DL385 G7 6180SE FIO High Performance Pack	636089-B21	
HP Insight Software	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	582765-B21	
	HP Insight Control for Linux including 1yr 24x7 Support ML/DL Bundle 1 Server FIO License	TC203A	

Step 4: Choose Additional Options for Factory Integration

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



AP726A

QuickSpecs

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.

an HP approved configur	ator. Contact your local sales representative for additional information.	
HP Unique Options	HP RDX160 Removable Disk Backup System DL Server Module	AP724A
	NOTE: Mounts in DI 385 G6 second drive cage slot (160GB of Disk Storage)	

HP RDX500 Removable Disk Backup System DL Server Module

NOTE: 500GB of disk capacity per data cartridge.

NOTE: Mounts in DL385 G7 second drive cage slot (500GB of Disk Storage)

HP RDX1000 Removable Disk Backup System DL Server Module BV848A

NOTE: 1 TB of disk capacity per data cartridge.

NOTE: Mounts in DL385 G7 second drive cage slot (1 TB of Disk Storage)

HP DL385 G7 8 Small Form Factor (SFF) Drive Cage Kit 607248-B21

HP Processors	Sixteen-Core Processors	
	HP DL385 G7 AMD Opteron™ 6282SE (2.60GHz/16-core/16MB/140W) Processor Kit	654868-B21
	HP DL385 G7 AMD Opteron™ 6276 (2.30GHz/16-core/16MB/115W) Processor Kit	654862-B21
	HP DL385 G7 AMD Opteron™ 6274 (2.20GHz/16-core/16MB/115W) Processor Kit	654870-B21
	HP DL385 G7 AMD Opteron™ 6272 (2.10GHz/16-core/16MB/115W) Processor Kit	654864-B21
	HP DL385 G7 AMD Opteron™ 6262HE (1.60GHz/16-core/16MB/85W) Processor Kit	654866-B21
	Twelve-Core Processors	
	HP DL385 G7 AMD Opteron™ 6238 (2.60GHz/12-core/16MB/115W) Processor Kit	654872-B21
	HP DL385 G7 AMD Opteron™ 6234 (2.40GHz/12-core/16MB/115W) Processor Kit	657455-B21
	HP DL385 G7 AMD Opteron™ 6180SE (2.5GHz/12-core/12MB/140W) Processor Kit	636080-B21
	HP DL385 G7 AMD Opteron™ 6176SE (2.3GHz/12-core/12MB/140W) Processor Kit	585322-B21
	HP DL385 G7 AMD Opteron™ 6176 (2.3GHz/12-core/12MB/115W) Processor Kit	636082-B21
	HP DL385 G7 AMD Opteron™ 6174 (2.2GHz/12-core/12MB/115W) Processor Kit	585320-B21
	HP DL385 G7 AMD Opteron™ 6172 (2.1GHz/12-core/12MB/115W) Processor Kit	585324-B21
	HP DL385 G7 AMD Opteron™ 6166HE (1.8GHz/12-core/12MB/85W) Processor Kit	636086-B21
	Eight-Core Processors	
	HP DL385 G7 AMD Opteron™ 6220 (3.0GHz/8-core/16MB/115W) Processor Kit	663496-B21
	HP DL385 G7 AMD Opteron™ 6212 (2.60GHz/8-core/16MB/115W) Processor Kit	663498-B21
	HP DL385 G7 AMD Opteron™ 6140 (2.6GHz/8-core/12MB/115W) Processor Kit	636084-B21
	HP DL385 G7 AMD Opteron™ 6136 (2.4GHz/8-core/12MB/115W) Processor Kit	585326-B21
	HP DL385 G7 AMD Opteron™ 6134 (2.3GHz/8-core/12MB/115W) Processor Kit	585328-B21

HP DL385 G7 AMD Opteron™ 6128 (2.0GHz/8-core/12MB/115W) Processor Kit
HP DL385 G7 AMD Opteron™ 6132HE (2.2GHz/8-core/12MB/85W) Processor Kit
HP DL385 G7 AMD Opteron™ 6128HE (2.0GHz/8-core/12MB/85W) Processor Kit

Quad-Core Processors

HP DL385 G7 AMD Opteron™ 6204 (3.30GHz/4-core/16MB/115W) Processor Kit

NOTE: Second processor kits include additional two fans.



585330-B21

636088-B21

585332-B21

671931-B21

Core Options

HP Memory

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

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

Registered DIMMs (RDIMMs)

NOTE: PC3L is a low voltage memory	
HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593923-B21
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593921-B21
Unbuffered with ECC DIMMs (UDIMMs)	
HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627810-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627808-B21
HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit	593915-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	684066-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604502-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593913-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676333-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 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593911-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676331-B21
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593907-B21

HP Optical Drives

HP Slim 12.7mm SATA DVD-ROM Optical Drive	481041-B21
HP Slim 12.7mm SATA DVD-RW Optical Drive	481043-B21
NOTE: Included in performance models.	

HP Hard Drives

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

HP 900GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	619291-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	581286-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	581284-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) Hot Plug Enterprise 3 yr Warranty Hard Drive	627117-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	507127-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	512547-B21



Core Options

SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HP 600GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	516828-B21
HP 450GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	516816-B21
HP 300GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	516814-B21
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	605835-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive	507610-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive	625031-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive	507616-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive	507614-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html (Worldwide)	
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
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 3TB 3G SATA 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive	628059-B21
HP 2TB 3G SATA 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive	507632-B21
HP 1TB 3G SATA 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive	454146-B21
HP 500GB 3G SATA 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive	458928-B21
SATA Hot Plug LFF (3.5-inch) Entry (ETY) Drives	
HP 250GB 3G SATA 7.2K rpm LFF (3.5-inch) Entry 1yr Warranty Hard Drive	571230-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html (Worldwide)	
SATA Hot Plug 2.5" Enterprise Mainstream Solid State Drives	
HP 400GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636597-B21
HP 200GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636595-B21
HP 100GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636593-B21
SATA Hot Plug 3.5" Midline (MDL) Solid State Drives	
HP 400GB 3G SATA MLC LFF (3.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636611-B21
HP 200GB 3G SATA MLC LFF (3.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636609-B21
HP 100GB 3G SATA MLC LFF (3.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636607-B21



Core Options

HP Networking

6G SAS Hot Plug Enterprise Performance Solid State Drives	
HP 400GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive	632494-B21
HP 200GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive	632492-B21
6G SAS Hot Plug Enterprise Mainstream Solid State Drives	
HP 800GB 6G SAS MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	632506-B21
HP 400GB 6G SAS MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	632504-B21
HP 200GB 6G SAS MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	632502-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information: http://h18000.www1.hp.com/products/quickspecs/14038_div/14038_div.html (Worldwide)	
Hard Drive Kits	
HP DL385 G7 8 Small Form Factor (SFF) Drive Cage Kit	607248-B21
HP 2.5 Hard Disk Drive Blank Kit	503771-B21
Gigabit Ethernet adapters	
HP NC112T PCI Express Gigabit Server Adapter	503746-B21
HP NC360T PCI-E Dual Port Gigabit Server Adapter	412648-B21
NOTE: Customers wishing to install more than one HP NC360T PCI-E Dual Port Gigabit Server Adapter (P/N 412648-B21) in a DL385 G7 server shipped after 05/23/2011 must	
also order the HP DL38X (2) x8 PCI-E Riser Kit (P/N 494326-B21) (See "HP I/O Expansion Options" below). With this I/O expansion option kit, a DL385 G7 server can support up to	
three NC360T NICs (one NIC in slot 1 of the standard riser card that ships with the server and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser).	
three NC360T NICs (one NIC in slot 1 of the standard riser card that ships with the server and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). HP NC365T 4-port Ethernet Server Adapter	593722-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser).	593722-B21 394793-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter	
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). HP NC365T 4-port Ethernet Server Adapter	394793-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). HP NC365T 4-port Ethernet Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter	394793-B21 394791-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). 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	394793-B21 394791-B21 538696-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). 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 PCI Express Dual Port Multifunction Gigabit Server Adapter	394793-B21 394791-B21 538696-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). 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 PCI Express Dual Port Multifunction Gigabit Server Adapter 10 Gigabit Ethernet adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each	394793-B21 394791-B21 538696-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). 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 PCI Express Dual Port Multifunction Gigabit Server Adapter 10 Gigabit Ethernet adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and	394793-B21 394791-B21 538696-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). 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 PCI Express Dual Port Multifunction Gigabit Server Adapter 10 Gigabit Ethernet adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.	394793-B21 394791-B21 538696-B21 458492-B21
and up to two NICs in slots 4 and 5 of on the HP DL38X (2) x8 PCI-E Riser). 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 PCI Express Dual Port Multifunction Gigabit Server Adapter 10 Gigabit Ethernet adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. HP NC522SFP Dual Port 10GbE Gigabit Server Adapter	394793-B21 394791-B21 538696-B21 458492-B21



Core Options

NOTE: Please see the QuickSpecs for additional information:

www.hp.com/go/ProLiantNICs.

HP Intiniband HP Intiniband 4X QDR ConnectX-2 PCIe G2 Dual Port HCA 592520-B2 I	HP InfiniBand	HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA	592520-B21
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HP InfiniBand 4X DDR ConnectX-2 PCIe G2 Dual Port HCA 592521-B21
QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA 583211-B21
HP InfiniBand 4X DDR PCI-E 0 Memory Dual Port HCA 483513-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 DL38X G5p/G6/G7 PCI-E x16 Riser Kit 494323-B21

HP DL38X (2) x8 PCI-E Riser Kit 494326-B21

NOTE: This riser card will support Qty 2 of 10Gbe NICs or can be used for 2 additional

PCIe Gen2 cards.

NOTE: The shared network port is only supported in the secondary riser connection.

 HP DL385 G7 x8/2x4 PCI-E Riser Kit
 581783-B21

 HP DL385 G7 PCI-X Riser Kit
 581785-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 Common Slot Platinum Power Supplies

HP 460W Common Slot Platinum Hot Plug Power Supply Kit 593188-B21
HP 750W Common Slot Platinum Hot Plug Power Supply Kit 593831-B21
HP 1200W Common Slot Platinum Hot Plug Power Supply Kit 578322-B21

HP Common Slot Gold Power Supplies

HP 460W Common Slot Gold Hot Plug Power Supply Kit 503296-B21
HP 750W Common Slot Gold Hot Plug Power Supply Kit 512327-B21

HP Common Slot -48VDC Power Supplies

HP 1200W Common Slot -48VDC Hot Plug Power Supply Kit

NOTE: DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers

NOTE: Please see the QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/14029_div/14029_div.html



437573-B21

Additional Options

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

HP Insight Software

HP Insight Control

HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	T9074BAE
HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Electronic	TC278AAE
License	

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

LICENSE

HP Insight Management Media Kit

NOTE: HP Insight Management Media Kit contains DVDs without licenses. Contains HP Systems Insight Manager, HP Insight Control, HP Matrix Operating Environment, and Virtual Connect Enterprise Manager software. Uses an integrated installer to perform quick and accurate software installation and updates.

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service. **NOTE:** Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates. **NOTE:** For additional license options please see the Insight Control QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html

HP Insight Control for Linux

HP Insight Control for Linux w/1yr 24x7 Supp ML/DL/SL Bundle Electronic 1 Svr LTU
HP Insight Control for Linux including 1yr 24x7 Support Electronic License
HP Insight Control for Linux including 1yr 24x7 Support Single Server License
HP Insight Control for Linux Media Kit

NOTE: Media pack DVD contains the ISO image for HP Insight Control for Linux, HP Systems Insight Manager, HP Insight Control power management, HP Insight Control virtual machine management, and an integrated installer. Servers must be acquired separately.

NOTE: Licenses ship without media. The Media Kit for Insight Control for Linux can be ordered separately, or can be downloaded at: http://www.hp.com/go/ic-linux (click on Download button).

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single set of activation keys.

NOTE: For additional License Kits, including electronic licensing options, please see the QuickSpecs at:

http://h18000.www1.hp.com/products/quickspecs/13019 div/13019 div.html

HP Integrated Lights-Out (iLO) Advanced

HP iLO Advanced Pack Electronic License with 3yr 24x7 Tech Support and Updates	BD506AAE
HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A
HP iLO Advanced including 1yr 24x7 Technical Support and Updates Electronic License	TA850AAE
HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server	512485-B21
License	



452148-B22

436222-B21

TC203AAE

TC213AAE

TC209A

TC208A

Additional Options

NOTE: This license allows 1 server to be deployed and managed via HP iLO Advanced. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support Service.

NOTE: For additional license kits, including electronic delivery options, please see the QuickSpecs at:

http://h18000.www1.hp.com/products/quickspecs/12362_div/12362_div.html

HP iLO Advanced License HP Integrated Lights-Out (iLO) Advanced for ProLiant Remote Management

HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License

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

NOTE: This part number can be used to purchase one certificate for multiple licenses 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.

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

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

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

HP HPC Linux Value Pack

HP High Performance Computing Linux Value Pack 1 Processor Flexible License **NOTE:** This part number can be used to purchase one certificate for multiple licenses with a single activation key. Each license is for one socket (a.k.a. processor). 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.

HP High Performance Computing Linux Value Pack Media Kit

NOTE: This part number can be used to purchase media including software and documentation, which will be delivered to the customer.

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

http://h18004.www1.hp.com/products/quickspecs/13485_div/13485_div.html

HP Drive Cage Options

HP DL385 G7 8 Small Form Factor (SFF) Drive Cage Kit

607248-B21

512485-B21

QL803B

BD476A

BD477A

TC293B

TC294A



Additional Options

HPI/O Accelerator Options

Second Generation Accelerators

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

First Generation Accelerators

HP 160GB Single Level Cell PCIe ioDrive for ProLiant Servers 600278-B21

NOTE: A low-profile PCI bracket is included for use in low-profile slots.

HP 320GB Multi Level Cell PCIe ioDrive for ProLiant Servers

NOTE: A low-profile PCI bracket is included for use in low-profile slots.

HP 320GB Single Level Cell PCIe ioDrive Duo for ProLiant Servers 600281-B21 HP 640GB Multi Level Cell PCIe ioDrive Duo for ProLiant Servers 600282-B21 HP 1.28TB Multi Level Cell PCIe ioDrive Duo for ProLiant Servers 641027-B21

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

http://h18000.www1.hp.com/products/quickspecs/13587_div/13587_div.html (Worldwide)

HP Security

HP Trusted Platform Module Option

488069-B21

600279-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

HP Smart Array P212 Controller

HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B21
HP Smart Array P212/256 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462834-B21
HP Smart Array P410 Controller	
HP Smart Array P410/256 2-ports Int PCIe x8 SAS Controller	462862-B21

HP Smart Array P410/512 BBWC 2-ports Int PCIe x8 SAS Controller 462864-B21 HP Smart Array P410/512 FBWC 2-ports Int PCIe x8 SAS Controller 578230-B21 HP Smart Array P410/1G FBWC 2-ports Int PCIe x8 SAS Controller 572532-B21

HP Smart Array P411 Controller

HP Smart Array P411/256 2-ports Ext PCIe x8 SAS Controller

462830-B21



HP ProLiant DL385 Generation 7 (G7)

QuickSpecs

Additional Options

HP Smart Array P411/512 BBWC 2-ports Ext PCIe x8 SAS Controller	462832-B21
HP Smart Array P411/512 FBWC 2-ports Ext PCIe x8 SAS Controller	578229-B21
HP Smart Array P411/1G FBWC 2-ports Ext PCIe x8 SAS Controller	572531-B21
HP Smart Array P812 Controller	
HP Smart Array P812/1G FBWC 2-ports Int/4-ports Ext PCIe x8 SAS Controller	487204-B21
Optional Upgrades	
HP 256MB P-series Cache Upgrade NOTE: Supported on HP Smart Array P212 Controller and HP Smart Array P410/Zero Memory Controller only.	462968-B21
HP 512MB P-Series Battery Backed Write Cache Upgrade	462967-B21
HP 650 mAh P-Series Battery NOTE: To enable BBWC on the 256MB cache.	462969-B21
HP 512MB Flash Backed Write Cache	534916-B21
HP 1GB Flash Backed Cache	534562-B21
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-B21

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 (Smart Array P812 Controller)

http://h18000.www1.hp.com/products/quickspecs/13200_div/13200_div.html (Smart Array Advanced Pack)

SAS Controller Options

HP 24 Bay 6Gb SAS Expander Card

NOTE: Please see the QuickSpecs for Technical Specifications and additional

http://h18004.www1.hp.com/products/quickspecs/13232 div/13232 div.html

(SAS Expander Card)

SAS HBA

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.



468406-B21

614988-B21

412911-B21

QuickSpecs

Additional Options

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)

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)

HP Backup & Recovery Software

Data Protector Express

HP Data Protector Express V6.0 for 1 Server E-LTU

TC330BAE

HP Data Protector Express V6.0 for 3 Server E-LTU

TC331BAE

HP Data Protector Express V6.0 for 10 Server E-LTU

TC332BAE

HP Basic Upgrade to Data Protector Express V6 for 1 Server E-LTU

TC333BAE

NOTE: One of these Data Protector Express base products is required. To see available

options: http://www.hp.com/go/dataprotectorexpress

HP Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of HP tape backup products see: http://www.hp.com/storage/SPOCK.

HP 1/8 G2 LTO-4 Ultrium 1760 SAS Tape Autoloader

NOTE: Requires HP 1U Tape Autoloader Rack Kit (AH166A) for rack installation.

Connection using HP P212 SAS Smart Array Controller (462828-B21) recommended.

HP DAT 320 SAS Internal Tape Drive

NOTE: For installation into 1U SAS rack kit (AE459B) or 3U SAS rack kit (AG576B). No peripheral bay available for installation into the server. Connection using HP Smart

Array P212/Zero Memory Controller (462828-B21) recommended.

HP LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit

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

recommenaea.

HP LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount

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

recommended.

HP 1/8 G2 LTO-5 Ultrium 3000 SAS Tape Autoloader

NOTE: Requires HP 1U Tape Autoloader Rack Kit (AH166A) for rack installation.

Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended.

HP MSL2024 1 LTO-4 Ultrium 1760 SAS Tape Library

HP MSL2024 1 LTO-5 Ultrium 3000 SAS Tape Library

NOTE: Connection using HP P212 Smart Array Controller SAS (462828-B21)

recommended.

HP MSL4048 2 LTO-4 Ultrium 1760 SAS Tape Library

AK380A

AK377A

AJ830A

EH946C

EJ014B

BL536A

AK378A

BL537A



Additional Options

HP MSL4048 2 LTO-5 Ultrium 3000 SAS Tape Library

BL538A

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

HP Disk Backup

NOTE: For the complete range of D2D Backup Systems see:

http://www.hp.com/go/d2d. 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 D2D Backup Systems with Backup Data Deduplication

HP D2D2502i Backup System EJ001C EJ002C HP D2D2504i Backup System HP D2D4112 Backup System EH993C

HP RDX Removable Disk Backup Systems USB

NOTE: Connect the USB tape power connector to the secondary SAS power connector on the system board. Refer to the hood label for SAS power connector locations on the system board.

NOTE: Mounts in DL385 G7 second drive cage slot.

HP RDX160 Removable Disk Backup System DL Server Module AP724A

NOTE: Mounts in DL385 G6 second drive cage slot (160GB of Disk Storage)

HP RDX500 Removable Disk Backup System DL Server Module AP726A

NOTE: 500GB of disk capacity per data cartridge.

HP RDX1000 Removable Disk Backup System DL Server Module **BV848A**

NOTE: 1 TB of disk capacity per data cartridge.

HP RDX1000 USB3.0 DL Server Backup Module **B7B68A** HP RDX500 USB3.0 DL Server Backup Module B7B65A

HP Storage Options

Fibre Channel HBA

NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000,

Windows Server 2003 and Linux, please see:

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

Brocade Fibre Channel HBAs

HP 81B 8Gb 1-port PCIe Fibre Channel Host Bus Adapter AP769B HP 82B 8Gb 2-port PCIe Fibre Channel Host Bus Adapter AP770B HP 41B 4Gb 1-port PCIe Fibre Channel Host Bus Adapter **AP767B** HP 42B 4Gb 2-port PCIe Fibre Channel Host Bus Adapter AP768B

Emulex Fibre Channel HBAs HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter AJ762B HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter AJ763B HP FC2142SR 4Gb 1-port PCIe Fibre Channel Host Bus Adapter A8002B HP FC2242SR 4Gb 2-port PCIe Fibre Channel Host Bus Adapter A8003B HP SN1000E 16Gb 2-port PCIe Fibre Channel Host Bus Adapter QR559A HP SN1000E 16Gb 1-port PCIe Fibre Channel Host Bus Adapter QR558A

QLogic Fibre Channel HBAs



Additiona	l Options
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Additional Options						
	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 FC1142SR 4Gb 1-port PCIe Fibre Channel Host Bus Adapter	AE311A				
	HP FC1242SR 4Gb 2-port PCIe Fibre Channel Host Bus Adapter	AE312A				
	SAN Switches					
	HP SN1000E 16Gb 2-port PCIe Fibre Channel Host Bus Adapter	QR559A				
	HP SN1000E 16Gb 1-port PCIe Fibre Channel Host Bus Adapter	QR558A				
	Converged Network Adapter					
	HP CN1100E Dual Port Converged Network Adapter	BK835A				
	HP CN1000Q Dual Port Converged Network Adapter	BS668A				
	HP CN1000E Dual Port Converged Network Adapter	AW520B				
HP Modular Smart Array	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					
HP Uninterruptible Power	HP Rack-mountable UPS					
Systems	HP R1500 G3 Uninterruptible Power Supply (UPS)					
	HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A				
	HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A				
	HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A				
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14059_div/14059_div.html (Worldwide)					
	HP Rack-Mountable R5500 UPS					
		AF416A				
	HP R5500 6000VA INTL 3U Rackmount Uninterruptible Power System HP R5500 5000kVA NA/JP 3U Rackmount Uninterruptible Power System	AF416A				
	NOTE: Please see the QuickSpecs for additional information:	AF426A				
	http://h18000.www1.hp.com/products/quickspecs/11871_div/11871_div.html (Worldwide)					
	HP R/T3000 G2 Uninterruptible Power System (UPS)					
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A				
	HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A				
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power 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				



Additional Options

HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
HP R5KVA and R7KVA 3U Extended Runtime Module	AF464A
NOTE: Please see the QuickSpecs for additional information:	
http://h18000.www1.hp.com/products/quickspecs/14109_div/14109_div.html (Worldwide)	
R7000 Uninterruptible Power System (UPS)	
HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
NOTE: Please see the QuickSpecs for additional information:	
http://h18000.www1.hp.com/products/quickspecs/14110_div/14110_div.html (Worldwide)	
HP Rackmountable 3 Phase Uninterruptible Power Systems (UPS R8000/3 and R12000/3)	
HP R8000/3 8000kVA Three Phase NA 6U Rackmount Uninterruptible Power System	AF431A
HP R8000/3 8000kVA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF432A
HP R12000/3 12000VA Three Phase NA 6U Rackmount Uninterruptible Power System	AF429A
HP R12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System NOTE: Please see the QuickSpecs for additional information:	AF430A
http://h18000.www1.hp.com/products/quickspecs/12857_div/12857_div.html (Worldwide)	
NOTE: Additional HP Uninterruptible Power Systems (UPS) are available for this	
equipment. For information on all HP UPSs and accessories please go to www.hp.com/products/ups (Worldwide)	
NOTE: For additional information on sizing your HP UPS, please reference:	
http://www.upssizer.com	
NOTE: Please see the UPS and PDU cable matrix's on the HP Power Protection and	
Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.	
rease see the rottowing tink, www.np.com/products/powercords.	



Additional Options

HP Power Distribution Units

HP I	Monitored	l Power Di	stribution	Unit: Half	Rack Version
HIF I	JUILLULEU	I FUWEL DI	3LI IVULIVII	Ullit. Hati	Nack version

HP 4.9kVA 24A Single Input Single Phase NA/JP Monitored Power Distribution Unit

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HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit	AF915A
HP Monitored Power Distribution Unit: Full Rack Version	
HP 8.6kVA 24A Single Input Three Phase NA/JP Monitored Power Distribution Unit	AF504A
HP 16.6kVA 40A Dual Input Single Phase NA/JP Monitored Power Distribution Unit	AF505A
HP 8.3kVA 40A Single Input Single Phase NA/JP Monitored Power Distribution Unit	AF506A
HP 22.1kVA 16A Dual Input Three Phase INTL Monitored Power Distribution Unit	AF507A
HP 11kVA 16A Single Input Three Phase INTL Monitored Power Distribution Unit	AF508A
HP 14.7kVA 32A Dual Input Single Phase INTL Monitored Power Distribution Unit	AF509A
HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit	AF510A
NOTE: Please see the following QuickSpecs for additional information:	

Modular Power Distribution Units 1U/OU (Up to 32 outlets)

(Worldwide)

NOTE: 1U/OU mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks).

http://h18000.www1.hp.com/products/quickspecs/12118_div/12118_div.html

HP 4.9kVA 24A High Voltage NA/JP Modular Power Distribution Unit	252663-D72
HP 8.3kVA 40A High Voltage NA/JP Modular Power Distribution Unit	252663-D73
HP 7.3kVA 32A High Voltage INTL Modular Power Distribution Unit	252663-B31
HP 3.6kVA 16A High Voltage INTL Modular Power Distribution Unit	252663-B24
NOTE: This PDU has a detachable input power cord and allows for adaptability to	

HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit

country specific power requirements.

252663-D71

AF914A

NOTE: Please see the following QuickSpecs for additional options including shorter jumper cables and country specific power cords:

http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.html (Worldwide)

NOTE: For additional information on HP Power Distribution Units including accessories please go to: www.hp.com/go/pdu.

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



Additional Options

HP Intelligent Power Distribution Units (iPDU)

iPDU Core Units

information:

(Worldwide)

HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power D	istribution Unit AF52	20A
HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power D	istribution Unit AF52	22A
HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Dis	tribution Unit AF52	25A
HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Dist	ribution Unit AF52	26A
HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Powe	r Distribution Unit AF90)0A
HP 17.3kVA 24A 415V Three Phase L22-30 NA Core Intelligent Powe	r Distribution Unit AF90)2A
HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power	r Distribution Unit AF90)1A
HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Unit	Power Distribution AF53	35A
HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Unit	Power Distribution AF53	37A
HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Pov	ver Distribution Unit AF53	38A
iPDU Extension Bars	AF52	28A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar		
NOTE: Please see the QuickSpecs for Technical Specifications and ac	lditional	

HP Rack Series

HP Rack 10000 G2 Series (Carbon/Graphite Metallic)

HP 10642 G2 1200mm deep Shock Rack
HP 10647 G2 1200mm deep Shock Rack

NOTE: It is mandatory to use a shock pallet when shipping racks with equipment installed.

http://h18000.www1.hp.com/products/quickspecs/13650_div/13650_div.html

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

http://h18000.www1.hp.com/products/quickspecs/12402_div/12402_div.html (Worldwide)

NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://www.hp.com/go/rackandpower.

NOTE: The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 G2 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment: Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation). Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

AF092A

AF094A

Additional Options

NOTE: Quick deploy rail system provides tool-free support for racks with square or round mounting holes (including Compaq/HP 7000, 9000, 10000 G2 and HP series), with an adjustment range of 24" - 36". The ambidextrous cable management arm can be mounted on either the left or right side for improved cable management.

HP Rack Options

Keyboards and Monitors

HD TET7600	C2 KAW	Console and	d Monitor	(TFT7600 G2)
NP IFI/OUU	UZ RVIII	CONSOLE AIR	u Mollitoi	1 1 F I / DUU UZ <i>)</i>

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 additional information:

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

HP USB Keyboard and Mouse

HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3

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



Additional Options

HP Server Console 0x2x8 Port Analog Switch	AF616A
HP Server Console 0x2x16 Port Analog Switch	AF617A
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
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 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 04 Standard Keyboard	DT528A#ABA
HP 4GB Secure Digital High Capacity Flash Media Kit NOTE: Blank SD media device is supported for use with VMware and Citrix. SD media must be installed in the internal slot of the ProLiant server. Learn more at: http://www.hp.com/go/proliantvirtualization.	580387-B21
HP 2GB USB Flash Media Drive Key Kit NOTE: HP qualified blank USB key for use with HP ProLiant servers that support the VMware virtualization environment and other HP value-add software 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.	608447-B21
	HP Server Console 0x2x16 Port Analog Switch 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 HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software 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 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software 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 04 Standard Keyboard HP 4GB Secure Digital High Capacity Flash Media Kit NOTE: Blank SD media device is supported for use with VMware and Citrix. SD media must be installed in the internal slot of the ProLiant server. Learn more at: http://www.hp.com/go/proliantvirtualization. HP 2GB USB Flash Media Drive Key Kit NOTE: HP qualified blank USB key for use with HP ProLiant servers that support the VMware virtualization environment and other HP value-add software 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



Additional Options

HP Care Pack Services

HP 3 year 24x7 24 hour Call to Repair ProLiant DL38x(p) Hardware Support	UP717E
HP 3 year 4 hour 13x5 ProLiant DL38x(p) Hardware Support	U4544E
HP 3 year 4 hour 24x7 ProLiant DL38x(p) Hardware Support	U4545E
HP 3 year 6 hour 24x7 Call to Repair ProLiant DL38x(p) Hardware Support	U4546E
HP 3 year Support Plus 24 Microsoft ProLiant DL38x(p) Service	U4557E
HP 3 year Support Plus 24 SuSE ProLiant DL38x(p) Service	U6312E
HP 4 year 24x7 24 hour Call to Repair ProLiant DL38x(p) Hardware Support	UP718E
HP 4 year 4 hour 13x5 ProLiant DL38x(p) Hardware Support	U8101E
HP 4 year 4 hour 24x7 ProLiant DL38x(p) Hardware Support	U8118E
HP 4 year 6 hour 24x7 Call to Repair ProLiant DL38x(p) Hardware Support	U9738E
HP 4 year Next business day ProLiant DL38x(p) Hardware Support	UA010E
HP 5 year 24x7 24 hour Call to Repair ProLiant DL38x(p) Hardware Support	UP719E
HP 5 year 4 hour 13x5 ProLiant DL38x(p) Hardware Support	U8067E
HP 5 year 4 hour 24x7 ProLiant DL38x(p) Hardware Support	U8084E
HP 5 year 6 hour 24x7 Call to Repair ProLiant DL38x(p) Hardware Support	U9737E
HP 5 year Next business day ProLiant DL38x(p) Hardware Support	UA009E
HP Install ProLiant DL38x(p) Service	U4554E
HP Installation of ProLiant Add On/In Options Service	UH745E
HP Startup ProLiant DL38x(p) Service	U4555E
HP Installation and Startup for Insight Control Server Deployment - previously Rapid Deployment Pack	U5683E

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



Memory

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

Memory configurations

- This server supports 2GB to 512GB of system memory using DDR3 2GB, 4GB, 8GB, 16GB and 32GB memory modules across 24
 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 RBSU3. 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 processor 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 both 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 memory socket	1	2	3	4	5	6
Rank support per memory socket	SR/DR	SR/DR/QR	SR/DR	SR/DR	SR/DR/QR	SR/DR
Population order	A	I	E	С	K	G
Processor memory channel	Α	Α	Α	В	В	В



Memory

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.
- No more than two UDIMMs may be installed per channel.
- Do not mix UDIMMs and RDIMMs within this server.

Population guidelines

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 fo
 both 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.

Memory bus speed

Depending on the quantity and native speed of memory modules installed, memory bus speeds can be 1600 MHz, 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.

- 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



Memory

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 ² DR 1600 MHz ²	1600 MHz	NA
1	-	1 ¹	SR 1333 MHz DR 1333 MHz	1333 MHz	1066 MHz
1	1	-	QR 1066 MHz	1066 MHz	1066 MHz
2	-	2 ¹	SR 1600 MHz ² DR 1600 MHz ² SR 1333 MHz DR 1333 MHz	1333 MHz	1066 MHz
2	1	1	SR 1333 MHz DR 1333 MHz QR 1066 MHz	800 MHz	800 MHz
3	-	3 SR	SR 1600 MHz ² SR 1333 MHz	1066 MHz	1066 MHz
3	-	3 DR	DR 1600 MHz ² DR 1333 MHz	1066 MHz	800 MHz
3	-	3 mixed	SR 1600 MHz ² DR 1600 MHz ² SR 1333 MHz DR 1333 MHz	1066 MHz	800 MHz
3	1	2	SR 1333 MHz DR 1333 MHz QR 1066 MHz	800 MHz	667 MHz

¹ These are the only configurations supported by UDIMMs. All configurations listed in this table are supported by RDIMMs.

This table is for reference only.

NOTE: 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: LVDIMM support is dependent on the ROM version.

Memory Installation Examples

These memory installation examples show the memory sockets associated with the first processor only. If there is a second processor installed, like for a performance model, then these examples can be applied toward the memory sockets associated with the second processor also.

2 RDIMMs per processor

- Standard memory: 2x2GB RDIMMs (4GB per processor)
- Optional memory: Adding 10x8GB RDIMMs to standard memory (84GB per processor)
- Maximum memory: Replacing standard memory with 4x32GB QR RDIMMs and 8x16GB DR RDIMMs (maximum of 256GB per processor)



² 1600 MHz memory is only supported in conjunction with Opteron 6200 series processors.

Memory

Processor memory socket	1	2	3	4	5	6
Standard Memory	2GB DR					
Optional Memory	2GB DR	8GB DR				
Maximum Memory	16GB DR	32GB QR	16GB DR	16GB DR	32GB QR	16GB DR
Processor memory socket	7	8	9	10	11	12
Standard Memory	2GB DR					
Optional Memory	2GB DR	8GB DR				
Maximum Memory	16GB DR	32GB QR	16GB DR	16GB DR	32GB QR	16GB DR

2 UDIMMs per processor

- Standard memory: 2x2GB UDIMMs (4GB per processor)
- Optional memory: Adding 6x4GB UDIMMs to standard memory (28GB per processor)
- Maximum memory: Replacing standard memory with 8x4GB UDIMMs (maximum of 32GB per processor)

Processor memory socket			3	4		<u> </u>
Standard Memory	2GB DR					
Optional Memory	2GB DR		4GB DR	4GB DR		4GB DR
Maximum Memory	4GB DR		4GB DR	4GB DR		4GB DR
Processor memory socket	7	8	9	10	11	12
Processor memory socket Standard Memory	7 2GB DR	8	9	10	11	12
•	7 2GB DR 2GB DR	8	9 4GB DR	10 4GB DR	11	12 4GB DR

4 RDIMMs per processor

- Standard memory: 4x2GB RDIMMs (8GB per processor)
- Optional memory: Adding 8x8GB RDIMMs to standard memory (72GB per processor)
- Maximum memory: Replacing standard memory with 4x32GB QR RDIMMs and 8x16GB DR RDIMMs (maximum of 256GB per processor)*

Processor memory socket	1	2	3	4	5	6
Standard Memory	2GB DR			2GB DR		
Optional Memory	2GB DR	8GB DR	8GB DR	2GB DR	8GB DR	8GB DR
Maximum Memory	16GB DR	32GB QR	16GB DR	16GB DR	32GB QR	16GB DR

Processor memory socket	7	8	9	10	11	12
Standard Memory	2GB DR			2GB DR		
Optional Memory	2GB DR	8GB DR	8GB DR	2GB DR	8GB DR	8GB DR
Maximum Memory	16GB DR	32GB QR	16GB DR	16GB DR	32GB QR	16GB DR

^{*} If you have a 2P system and want the maximum memory of 512GB installed, you will need to replace all standard memory with 8x32GB QR RDIMMs and 16x16GB DR RDIMMs.



Memory

Following are memory options available from HP:

HP Memory

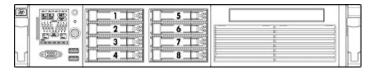
NOTE: DIMM banks are active only when the corresponding processor socket is populated.

Registered DIMMs (RDIMMs)

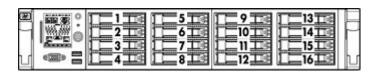
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593907-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800 (DDR3-1600) Registered CAS-11 Memory Kit	676331-B21
HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593911-B21
HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604500-B21
HP 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 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	684066-B21
HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit	593915-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627808-B21
HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627810-B21
Unbuffered with ECC DIMMs (UDIMMs)	
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593921-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	593923-B21
NOTE: PC3L is a low voltage memory	



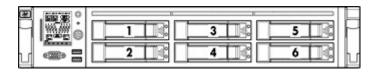
Storage



1-8 Eight SFF SAS hot plug hard drive bays



16 Sixteen SFF SAS hot plug hard drive bays NOTE: This configuration does not support optical drive. NOTE: This configuration requires a second controller or SAS Expander Card.



1-6 Six LFF SAS hot plug hard drive bays

NOTE: This configuration does not support optical drive. **NOTE:** This configuration replaces SFF hard drive cage.

NOTE: Connect the SAS power cable from the primary drive cage (drive cage containing SFF drives 1-8 or LFF drives 1-6) to the primary SAS power connector on the system board. If a secondary drive cage (drive cage containing SFF drives 9-16) is installed, connect a SAS power cable from the secondary drive cage to the secondary SAS power connector on the system board. Refer to the hood label for SAS power connector locations on the system board.

Drive Support

	Quantity Supported	Position Supported	Controller
Removable Media			
Slim SATA DVD RW Optical Drive NOTE: Included in performance models.	Only 1 available removable media bay	Slimline bay	Integrated SATA
Slim SATA DVD-ROM Optical Drive	Only 1 available removable media bay	Slimline bay	Integrated SATA

Hard Drives

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. **NOTE:** Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

NOTE: IMPORTANT: Installation of both SAS and SATA hard drives or a mixture of SSDs and traditional hard drives in a single RAID volume is not supported.

SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

	Quantity Supported	Position Supported	Controller
900GB 6G SAS 10K	Up to 16	1-8	HP Smart Array P212/Zero Memory Controller
600GB 6G SAS 10K		1-16	HP Smart Array P212/256 MB Controller
450GB 6G SAS 10K		on Model	HP Smart Array P410/256 MB Controller



Storage

300GB 6G SAS 15K 300GB 6G SAS 10K

on Model

HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P812/512 BBWC Controller

SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives

	Quantity Supported	Position Supported	Controller
600GB 6G SAS 15K	Up to 6	1-6	HP Smart Array P212/Zero Memory Controller
450GB 6G SAS 15K			HP Smart Array P212/256 MB Controller
300GB 6G SAS 15K			HP Smart Array P410/256 MB Controller
			HP Smart Array P410/512 MB BBWC Controller
			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller
			HP Smart Array P812/512 BBWC Controller

SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives

	Quantity Supported	Position Supported	Controller
1TB 6G SAS 7.2K	Up to 16	1-8	HP Smart Array P212/Zero Memory Controller
500GB 6G SAS 7.2K	•	1-16	HP Smart Array P212/256 MB Controller
		NOTE: Depending	HP Smart Array P410/256 MB Controller
		on Model	HP Smart Array P410/512 MB BBWC Controller
			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller
			HP Smart Array P812/512 BBWC Controller

SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives

	Quantity Supported	Position Supported	Controller
3TB 6G SAS 7.2K	Up to 6	1-6	HP Smart Array P212/Zero Memory Controller
2TB 6G SAS 7.2K			HP Smart Array P212/256 MB Controller
1TB 6G SAS 7.2K			HP Smart Array P410/256 MB Controller
			HP Smart Array P410/512 MB BBWC Controller
			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller
			HP Smart Array P812/512 BBWC Controller

SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives

	Quantity Supported	Position Supported	Controller
1TB 3G SATA 7.2K	Up to 16	1-8	HP Smart Array P212/Zero Memory Controller
500GB 3G SATA 7.2K		1-16	HP Smart Array P212/256 MB Controller
		NOTE: Depending	HP Smart Array P410/256 MB Controller
		on Model	HP Smart Array P410/512 MB BBWC Controller



Storage

HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P812/512 BBWC Controller

SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives

	Quantity Supported	Position Supported	Controller
3TB 3G SATA 7.2K 2TB 3G SATA 7.2K 1TB 3G SATA 7.2K 500GB 3G SATA 7.2K	Up to 6	1-6	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P812/512 BBWC Controller

SATA Hot Plug LFF (3.5-inch) Entry (ETY) Drives

	Quantity Supported	Position Supported	Controller
250GB 3G SATA 7.2K	Up to 6	1-6	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P812/512 BBWC Controller

SATA Hot Plug 2.5" Enterprise Mainstream Solid State Drives

	Quantity Supported	Position Supported	Controller
400GB 3.0G SATA SSD	Up to 16	1-8	HP Smart Array P212/Zero Memory Controller
200GB 3.0G SATA SSD		1-16	HP Smart Array P212/256 MB Controller
100GB 3.0G SATA SSD			HP Smart Array P410/256 MB Controller
			HP Smart Array P410/512 MB BBWC Controller
			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller
			HP Smart Array P812/512 BBWC Controller

SATA Hot Plug 3.5" Midline (MDL) Solid State Drives

	Supported	Supported	Controller
400GB 3.0G SATA SSD 200GB 3.0G SATA SSD 100GB 3.0G SATA SSD	Up to 6	1-6	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller



Storage

HP Smart Array P411/512 MB BBWC Controller HP Smart Array P812/512 BBWC Controller

6G SAS Hot Plug Enterprise	Performance Solid State Drives
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	Quantity Supported	Position Supported	Controller
200GB 6G SAS SLC SFF SSD	Up to 16	1-8	HP Smart Array P212/Zero Memory Controller
400GB 6G SAS SLC SFF SSD		1-16	HP Smart Array P212/256 MB Controller
		NOTE: Depending	HP Smart Array P410/256 MB Controller
		on Model	HP Smart Array P410/512 MB BBWC Controller
			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller
			HP Smart Array P812/512 BBWC Controller

6G SAS Hot Plug Enterprise Mainstream Solid State Drives

	Quantity Supported	Position Supported	Controller
800GB 6G SAS MLC SFF SSD	Up to 16	1-8	HP Smart Array P212/Zero Memory Controller
400GB 6G SAS MLC SFF SSD	•	1-16	HP Smart Array P212/256 MB Controller
200GB 6G SAS MLC SFF SSD		NOTE: Depending	HP Smart Array P410/256 MB Controller
		on Model	HP Smart Array P410/512 MB BBWC Controller
			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller
			HP Smart Array P812/512 BBWC Controller

External Storage

	Quantity Supported	Position Supported	Host Controller or Adapter
D2600 Disk Enclosure	Up to 4	External	HP Smart Array P212/ 256 MB Controller
	Up to 8	External	HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB Controller HP Smart Array P411/1G Flash Backed Cache Controller HP Smart Array P812/1G Flash Backed Write Cache Controller
D2700 Disk Enclosure	Up to 2	External	HP Smart Array P212/256 MB Controller
	Up to 4	External	HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB Controller HP Smart Array P411/1G Flash Backed Cache Controller HP Smart Array P812/1G Flash Backed Write Cache Controller



Storage

Maximum Storage Capacity - (with MSA70)

Internal 16TB (16 x 1TB SAS SFF)
External 250TB (250 x 1TB SAS SFF)

Total 266TB

Tape and Disk Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media, including the internal fitting models, see: http://www.hp.com/go/tape. For the complete range of D2D Backup Systems see: http://www.hp.com/go/d2d. For the complete range of RDX drives and media see: http://www.hp.com/go/rdx. For hardware and software compatibility of HP disk and tape backup products see: http://www.hp.com/storage/SPOCK.

	Position Supported	Controller	Controller Part Number
HP SCSI Tape Drives LTO-1 Ultrium 232 LTO-2 Ultrium 448 LTO-3 Ultrium 920 LTO-3 Ultrium 960	External	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter	412911-B21
LT04 Ultrium 1760 LT0-4 Ultrium 1840 DAT 40 DAT 72 DAT 160 1U Rack-Mount Kit 3U Rack-Mount Kit		NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	
HP USB Tape Drives DAT 40 DAT 72 DAT 160 DAT 320 1U USB Rack-Mount Kit	External	USB 2.0 Port	N/A
HP SAS Tape Drives DAT 160 DAT 320 LTO-2 Ultrium 448 LTO-3 Ultrium 920	External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B21
LTO-4 Ultrium 1760 LTO-4 Ultrium 1840 LTO-5 Ultrium 3000 LTO-5 Ultrium 3280 1U Rack-Mount Kit 3U Rack-Mount Kit		NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	



Storage			
HP SCSI Tape Autoloaders DAT 72x10 Autoloader 1/8 G2 Autoloader	External	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	412911-B2
HP SCSI Tape Libraries	External	HP U320e SCSI Dual Channel Host Bus Adapter	AH627
MSL2024 MSL4048 MSL8096 MSL6000		NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	
HP SAS Tape Autoloaders and Libraries 1/8 G2 Autoloader	External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B2
MSL2024 MSL4048 MSL8096		NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	
HP Fibre Channel Tape Libraries MSL2024 MSL4048 MSL8096 MSL6000	External	Please consult the EBS connectivity matrix at: http://www.hp.com/go/ebs for connectivity information and the supported Fibre Channel HBAs shown in this QuickSpecs.	N/
HP USB RDX Removable Disk Backup System RDX160 RDX320 RDX500 RDX750 RDX1TB	Internal or External	USB 2.0 Port	N/
HP D2D Backup Systems, iSCSI D2D2500i D2D4000i	External	Embedded Network Controller. If the server requires a hardware iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.	
HP D2D Backup Systems, Fibre Channel	External	Direct server attach is not supported, requires connection via SAN fabric. See: http://www.hp.com/storage/SPOCK	N/



D2D4000fc

Power Specifications

HP 460W Common Slot Gold Hot Plug Power Supply Kit							
Part Number	503296-B	21					
Input Voltage Range (V rms)	100 to 240)					
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	460	460	460	460	460	460	460
Nominal Input Current (A rms)	5.5	4.5	2.6	2.5	2.4	2.3	2.2
Maximum Rated Input Wattage Rating (Watts)	526	520	505	505	503	503	503
Maximum Rated VA (Volt-Amp)	548	542	527	527	524	524	524
Efficiency (%)	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor				0.97			
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current (A peak)		30					
Maximum Inrush Current duration (mS)		20					
Maximum British Thermal Unit Rating (BTU-Hr)	1794	1773	1725	1725	1715	1715	1715

HP 460W Common Slot Platinum Hot Plug Power S	upply Kit						
Part Number	593188-B	593188-B21					
Input Voltage Range (V rms)	100 to 240)					
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	460	460	460	460	460	460	460
Nominal Input Current (A rms)	5.3	4.3	2.5	2.4	2.3	2.2	2.1
Maximum Rated Input Wattage Rating (Watts)	512	505	493	493	492	492	491
Maximum Rated VA (Volt-Amp)	526	518	506	506	505	505	504
Efficiency (%)	89.8	91.2	93.2	93.3	93.5	93.6	93.6
Power Factor				0.985			
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current (A peak)		30					
Maximum Inrush Current duration (mS)		20					
Maximum British Thermal Unit Rating (BTU-Hr)	1747	1722	1683	1682	1679	1678	1677



Power Specifications

HP 750W Common Slot Gold Hot Plug Power Supply	Kit						
Part Number	512327-B	21					
Input Voltage Range (V rms)	100 to 240)					
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	750	750	750	750	750	750	750
Nominal Input Current (A rms)	8.9	7.4	4.3	4.1	3.9	3.7	3.6
Maximum Rated Input Wattage Rating (Watts)	857	847	824	824	820	820	820
Maximum Rated VA (Volt-Amp)	894	884	859	854	854	854	
Efficiency (%)	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor				0.97			
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current (A peak)		30					
Maximum Inrush Current duration (mS)		20					
Maximum British Thermal Unit Rating (BTU-Hr)	2925	2892	2812	2812	2797	2797	2797

HP 750W Common Slot Platinum Hot Plug Power Supply Kit							
Part Number	593831-B	593831-B21					
Input Voltage Range (V rms)	100 to 240)					
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	750	750	750	750	750	750	750
Nominal Input Current (A rms)	8.6	7.1	4.2	4.0	3.8	3.6	3.4
Maximum Rated Input Wattage Rating (Watts)	841	828	809	808	807	806	805
Maximum Rated VA (Volt-Amp)	863	850	830	829	828	827	826
Efficiency (%)	89.2	90.6	92.7	92.8	93	93.1	93.2
Power Factor				0.985			
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current (A peak)		30					
Maximum Inrush Current duration (mS)		20					
Maximum British Thermal Unit Rating (BTU-Hr)	2868	2825	2761	2757	2753	2749	2747



Power Specifications

IP 1200W Common Slot Platinum Hot Plug Power Supply Kit							
Part Number	578322-B	578322-B21					
Input Voltage Range (V rms)	100 to 240)					
Frequency Range (Nominal) (Hz)	50/60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	800	900	1200	1200	1200	1200	1200
Nominal Input Current (A rms)	9.3	8.6	6.7	6.5	6.1	5.8	5.6
Maximum Rated Input Wattage Rating (Watts)	889	989	1290	1290	1290	1290	1290
Maximum Rated VA (Volt-Amp)	927	1031	1345	1345	1345	1345	1345
Efficiency (%)	90	91	93	93	93	93	93
Power Factor				0.97			
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current (A peak)		30					
Maximum Inrush Current duration (mS)		10					
Maximum British Thermal Unit Rating (BTU-Hr)	3033	3375	4403	4403	4403	4403	4403

HP 1200W Common Slot -48VDC Hot Plug Power Supply	Kit						
Part Number	437573-B21	437573-B21					
Input Voltage Range (V rms)	36-72						
Frequency Range (Nominal) (Hz)	DC						
Nominal Input Voltage (Vrms)	36	48	72				
Maximum Rated Output Wattage Rating	1200	1200	1200				
Nominal Input Current (A rms)	38	28	19				
Maximum Rated Input Wattage Rating (Watts)	1380	1350	1365				
Maximum Rated VA (Volt-Amp)	1380	1350	1365				
Efficiency (%)	87	89	88				
Power Factor		N/A					
Leakage Current (mA)		N/A					
Maximum Inrush Current (A peak)	20	25	35				
Maximum Inrush Current duration (mS)	1	1	3				
Maximum British Thermal Unit Rating (BTU-Hr)	4713	4610	4662				

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 "ProLiant Servers"
- Click on the Server of interest. Example: DL385 G7
- Click on: "Power Calculator" link. (You may need to scroll down to see it)



Technical Specifications

Dimensions $(H \times W \times D)$ **System Unit** 3.38 x 17.54 x 27.25 in (8.59 x 44.54 x 69.98 cm)

(with bezel)

Weight (approximate) Maximum 60 lb (27.22 kg)

> (all hard drives, power supply, and processor

installed)

Minimum 45.90 lb (20.81 kg)

(one hard drive, power supply, and processor

installed)

Input Requirements Rated Line Voltage (per power supply)

100 to 120 VAC 200 to 240 VAC

Rated Input Current For 1200 W Power Supply:

> 10 A (at 100 VAC), 4.9 A (at 200 VAC) For 750 W Power Supply: 8.9 A (at 100 VAC). 4.3 A (at 200 VAC) For 460 W Power Supply: 5.5 A (at 100 VAC), 2.6 A (at 200 VAC)

Rated Input Frequency 50 to 60 Hz

Rated Input Power For 1200 W Power Supply:

> 930 W (at 100 VAC), 1348 W (at 200 VAC) For 750 W Power Supply: 857 W (at 100 VAC), 824 W (at 200 VAC) For 460 W Power Supply: 526 W (at 100 VAC), 505 W (at 200 VAC)

BTU Rating Maximum For 1200 W Power Supply:

> 3530 BTU/hr (at 100 VAC). 4600 BTU/hr (at 200 VAC) For 750 W Power Supply: 2925 BTU/hr (at 100 VAC). 2812 BTU/hr (at 200 VAC) For 460 W Power Supply: 1794 BTU/hr (at 100 VAC). 1725 BTU/hr (at 200 VAC)

Power 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

Power Supply Output

(per power supply)

Rated Steady-State Power For 1200 W Power Supply:

800 W (at 100 VAC),

900 W (at 120 VAC),

1200 W (at 200 to 240 VAC) For 750 W Power Supply:



Technical Specifications

ions				
		750 W (at 100 to 120 VAC), 750 W (at 200 to 240 VAC) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)		
	Maximum Peak Power	For 1200 W Power Supply: 800 W (at 100 VAC), 900 W (at 120 VAC), 1200 W (at 200 to 240 VAC) For 750 W Power Supply: 750 W (at 100 to 120 VAC), 750 W (at 200 to 240 VAC) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)		
System Inlet Temperature	Operating	10° to 35°C (50° to 95°F) at sea la altitude derating of 1.0°C per ev per every 1000 ft) above sea lev of 3048 m (10,000 ft), no direct sunlight. Maximum rate of chanc (18°F/hr). The upper limit may be type and number of options inst System performance may be received.	ery 304.8 m (1.8°F rel to a maximum sustained ge is 10°C/hr e limited by the alled. duced if operating	
	Non-operating	-30° to 60°C (-22° to 140°F). Ma change is 20°C/hr (36°F/hr).	kimum rate of	
Relative Humidity (non-condensing)	Operating	10 to 90% relative humidity (Rh) maximum wet bulb temperature condensing.		
	Non-operating	5 to 95% relative humidity (Rh), maximum wet bulb temperature condensing.		
Altitude	Operating	3048 m (10,000 ft). This value m the type and number of options Maximum allowable altitude cha m/min (1500 ft/min).	installed.	
	Non-operating	9144 m (30,000 ft). Maximum al change rate is 457 m/min (1500		
Acoustic Noise	average bystander position the product is operating in measured in accordance w with ISO 9296 (ECMA 109).	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). NOTE: The Listed sound levels apply to standard shipping configurations.		
	Additional options may result in increased sound levels.			
	Idle	1P SKU	2P SKU	



LWAd

LpAm

4.1 B

23 dBA

4.5 B

25 dBA

Technical Specifications

Operating 1P SKU 2P SKU LWAd 5.3 B 5.6 B

LpAm 36 dBA 38 dBA

Emissions Classification (EMC)

FCC Rating Class A

Normative Standards CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15;

ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC

60950-1

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements. **NOTE:** The Listed sound levels apply to standard shipping configurations.

Additional options may result in increased sound levels.

HP Integrated Lights-Out Architecture

3 (iLO 3)

integrated on system board

rchitecture PCI Express based health and remote management ASIC

Processor PCI Express RISC processor core running at 250MHz

Upgradeability Option firmware upgradeable via Flash ROM.

Video Support 1600 x 1200 DVR max resolution

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

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

Memory 128-MB DDR 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 5.4 (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 SUSE Linux Enterprise Desktop 11 SUSE Linux Enterprise Desktop 10



Technical Specifications

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

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

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

AES encryption of video RC4 encryption of video

Directory Support

Services

Active Directory v1.0 (Windows 2003)

Driver Support HP ProLiant iLO3 Management Controller Driver Package

Management protocols

supported

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

RIBCL XML

Smart Array P410i Controller

Dimensions Embedded

Disk Drive and Enclosure 6Gb/s SAS (Serial Attached SCSI)
Interface - Transfer rate 3Gb/s SATA (Serial ATA)

SAS Connectors 2 internal 4X connectors

Cache Memory Speed DDR2-800MHz with 40 or 72-bit wide bus

Server Interface x4 PCIe 2.0 provides 2GB/s maximum bandwidth

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

Cache Memory Zero Memory RAID has no cache memory

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

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

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

Up to 64 logical drives with cache

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

RAID Support 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)



Technical Specifications

RAID 0 (Striping), RAID 1 (Mirroring)

Two HP NC382i Dual Port Network Interface **Multifunction Gigabit Server Adapters**

Compatibility

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

IEEE 802.3 10Base-T

IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX PCI Express, four lanes (x4)

Data Transfer Method

Controller

Broadcom5709C

Network Transfer Rate

10Base-T (Half-Duplex) 10 Mb/s 10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-Duplex) 100 Mb/s 100Base-TX (Full-Duplex) 200 Mb/s 1000Base-TX (Half and 2000Mb/s

Full-Duplex) Two RJ-45

Cable Support

Connector

10Base-T Categories 3, 4 or 5 UTP;

up to 328 ft (100 m)

100Base-TX

Category 5 or higher UTP;

up to 328 ft (100 m)

1000BaseTX

Category 5 or higher UTP;

up to 328 ft (100 m)

Environment-friendly Products and Approach and Recycling

End-of-life Management 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.



Technical Specifications

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

