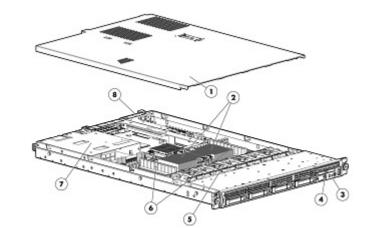


Overview

The HP ProLiant DL360 G7 combines performance, intelligent power and cooling management with IT management tools and essential fault tolerance, all optimized for space constrained installations. A 1U server with the improved performance of the latest Intel 5600 series processors, Unique HP Thermal Logic Technologies that provide leadership in energy efficiencies and ProLiant iLO 3 remote management. HP continues to provide more performance, flexibility and efficiency for space constrained environments.



Front View:

- 1. Hood Cover
- 2. Up to two Intel processors
- 3. Video connector
- 4. Slide-out System Insight Display (SID)
- 5. Removable fan modules for easy serviceability
- 6. Eighteen DIMM slots: DDR3 Registered (RDIMM) or Unbuffered (UDIMM) memory
- 7. Redundant Hot Plug Power Supplies (upgradeable option)
- 8. 2 PCI-E Slots

Rear View:

- 1. PCI Express expansion slot 1, low profile
- 2. PCI Express expansion slot 2 full-height full-length x16 (16, 8, 4, 2, 1), 75W +EXT 75W (option for PCI-X card only support)
- 3. Power supply bay 1 (populated)
- 4. Power supply bay 2
- 5. iLO 3 NIC connector
- Serial connector
- Video connector
- 8. NIC 4 connector
- 9. NIC 3 connector
- 10. NIC 2 connector
- 11. NIC 1 connector
- 12. USB connector
- 13. USB connector

What's New

Support for new HP hard drives, UPS





Standard Features

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

One of the following depending on Model

Six-Core Processors

Intel® Xeon® X5690 (3.46GHz/6-core/12MB/130W, DDR3-1333, HT Turbo 1/1/1/2/2) Processor

NOTE: Not sold individually - CTO Only

Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W, DDR3-1333, HT Turbo 2/2/2/2/3/3) Processor Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W, DDR3-1333, HT Turbo 2/2/2/3/3) Processor Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W, DDR3-1333, HT Turbo 2/2/2/2/3/3) Processor Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W DDR3-1333, HT Turbo 2/2/2/2/3/3) Processor Intel® Xeon® L5640 (2.26GHz/6-core/12MB/60W, DDR3-1333, HT Turbo 2/2/3/3/4/4) Processor

Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W, DDR3-1333, HT Turbo 1/1/1/1/2/2) Processor Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W, DDR3-1333, HT Turbo 1/1/1/1/2/2) Processor

Quad-Core Processors

Intel® Xeon® X5687 (3.60GHz/4-core/12MB/130W, DDR3-1333, HT Turbo 1/1/2/2) Processor

NOTE: Not sold individually - CTO Only.

Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W, DDR3-1333, HT Turbo 2/2/3/3) Processor Intel® Xeon® X5667 (3.06GHz/4-core/12MB/95W, DDR3-1333, HT Turbo 2/2/3/3) Processor Intel® Xeon® E5620 (2.40GHz/4-core/12MB/80W, DDR3-1066, HT Turbo 1/1/2/2) Processor

Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W, DDR3-800) Processor

Intel® Xeon® E5603 (1.60GHz/4-core/4MB/80W, DDR3-800) Processor

Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W, DDR3-1066, HT Turbo 1/1/2/2) Processor NOTE: Up to 2 processors supported. Performance Model configurations include two processors. NOTE: HT indicates that the processor model supports Intel® /Hyper-Threading Technology

NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 6,5,4,3,2 and 1(6 cores) or 4,3,2 and 1(4 cores) cores active. NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

NOTE: For the Intel 5600 Series, the letter preceding the model number indicated the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise

Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.

Cache Memory

12MB (1 x 12MB) Level 3 cache

One of the following depending on Model NOTE: All processor models except for those identified below.

> 8MB (1 x 8MB) Level 3 cache NOTE: For processors /E5606. 4MB (1 x 4MB) Level 3 cache NOTE: For processors /E5603.

Chipset

Intel® 5520 Chipset

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

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

Upgradeability

Upgradeable to two processors

Memory Protection

Advanced ECC (multi-bit error protection)

Online Spare mode (available with Intel Xeon 5600 Series processors)

Mirroring mode Lock-step mode

Memory

Type DDR3 Registered (RDIMM) or Unbuffered (UDIMM) 18 (3 DIMM slots per Channel/3 channels per processor) **DIMM Slots Available** Standard (Performance Models) 12GB (6 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs Standard (Base Models) 6GB (3 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs Standard (Entry Model) 4GB (2 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs Standard (Efficiency Model) 4GB (2 x 2GB) PC3-10600E (DDR3-1333) Unbuffered DIMMs 384GB (12 slots x 32GB @800MHz) Maximum Capacity (RDIMM) Maximum Performance Capacity (RDIMM) 192GB (6 slots x 32GB @1066MHz)

48GB (12 slots x 4GB @ 1333MHz) Maximum Capacity (UDIMM)

NOTE: If only one processor is installed, only half the DIMM slots are available. NOTE: When populating with two processors the 16GB or 32GB Memory Kits (Quad-Rank), only 12 DIMMs can be populated.

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

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

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

Network Controller

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports total) with TCP/IP Offload Engine, including support for Accelerated iSCSI

Expansion Slots	Expansion Slots #	Technology	Bus Width*	Connector Width	Form Factor	Notes
	1	PCI-e	x8	x8	Low profile slot	
	2	PCI-e	x16	x16	Full-length, full-height slot	
	2	PCI-X**	64-bit		Full-length, full-height slot	
		(133 MHz, 3.3 Voltage)				
	*Indicates the number of physical e	electrical lanes running to the cor	nnector.			

** Indicates Option kit designed for PCI-X cards only.

Entry Models

NOTE: For external power requirements for PCI options a PCI Thermal-Power Kit is offered optionally for higher power requirements.

NOTE: Two PCI-Express Gen 2 expansion slots: (1) full-length, full-height slot and (1) low-profile slot. Optional PCI-X Riser expansion slot for PCI-X cards only.

HP Smart Array P410i/Zero Memory Controller (RAID 0/1/1+0)

Storage Controller One of the following depending on Model

Base Models HP Smart Array P410i/256 MB Controller (RAID 0/1/1+0/5/5+0) Performance Models HP Smart Array P410i/1G FBWC Controller (RAID 0/1/1+0/5/5+0) Efficiency Models HP Smart Array P410i/Zero Memory Controller (RAID 0/1/1+0)

Available Smart Array upgrades: 256MB, Battery kit upgrade (to add BBWC to the 256MB Memory option), 512MB BBWC, 512MB FBWC or 1G FBWC and Smart Array Advanced Pack (SAAP)

Internal Storage Devices

Diskette Drive None

Optional: DVD-ROM, DVD-RW Optical Drive One of the following depending on Model

NOTE: This option available on 4 drive bay models only. Optional HP External USB CD/DVD R/RW for 8 drive models

Hard Drives None Standard

Drive Bays 4 SFF Bays standard with option for up to 8 SFF drive bays total.

NOTE: 4 bays standard in Entry, Base and CTO models, with optional upgrade to 8 bays with the SFF HD Backplane Kit (516966-B21). No CD or DVD options available when server is configured with 8 drive bays.

NOTE: This option available for 8 drive models. HP External USB CD/DVD R/RW Drive available for 8 drive systems (must be ordered separately).

7.2TB 8 x 900GB SAS

Hot Plug SAS **Maximum Internal Storage** Hot Plug SATA 4.0TB 8 x 500GB SATA Hot Plug SAS SSD 6.4TB 8 x 800GB SAS SSD Hot Plug SATA SSD 3.2TB 8 x 400GB SATA SSD



QuickSpecs HP ProLiant DL360 Generation 7

Standard Features

Interfaces Serial Video Network RJ-45 4

> iLO 3 remote RJ-45 management port

SD slot 1 Internal secure

4 total: 2 rear, 1 front, 1 internal (secure) USB 2.0 Ports

NOTE: Keyboard and Mouse access through USB ports. Please see the following URL for additional information regarding USB support:

http://h18004.www1.hp.com/products/servers/platforms/usb-support.html. NOTE: PS/2 ports have been removed for NIC expansion.

Industry Standard Compliance

ACPI 2.0b Compliant PCI 2.2 Compliant **PXE Support** WOL Support Microsoft® Logo certifications USB 1.1 and 2.0 Compliant

SMBIOS 2.6.1

Server Power Cords

All Pre-configured Models servers ship with a high voltage server to PDU power cord. Localized cables may be included with geographic specific models in other world regions. NOTE: ProLiant DL servers do not ship standard with NEMA power cords that allow connection to 110V US wall outlets in a home or office. ProLiant DL servers are primarily connected to PDU's in data center racks so they ship standard with only a PDU power cord (416151-B21). If a user wishes to power a ProLiant DL server using a standard wall receptacle (NEMA-15), the NEMA power cord must be ordered separately and the server will be shipped with both cords. If the order is a Factory-Integration or CTO order only the NEMA-15 power will be shipped. See Power Cords in the Additional Options section below for selection for your region.

Common Slot Power Supplies

HP's Common Slot (CS) Power Supply bay design provides the customer with commonality in power supplies across multiple platforms, saving on the cost of spares and allows HP to offer multiple power solutions to fit the customers' needs. Many HP ProLiant Servers come with high-efficiency CS Power Supplies. HP's new CS power supplies are designed to provide power efficiency without degrading performance of the ProLiant. Power Supplies will have efficiency ratings up to 94%. There are multiple CS power output options available allowing you to "right-size" the most appropriate power supply option for your server configuration. Check the Power Supplies section for power sizes supported. To make sure you select the correct power supply to meet your configuration, we suggest that you use the HP Power Advisor to "right-size" a power supply option for your configuration. All HP Common Slot power sources are UL, CE Mark Compliant, Hot Plug and support redundant configurations. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor

NOTE: All HP Common Slot Power Supplies are not supported by all ProLiant Servers. Please check your server QuickSpecs to confirm support by that server.

HP's CS power supplies support multiple energy efficiency initiatives including Climate Savers Computing Initiative (CSCI) and ECOS Consulting/80PLUS ratings for Silver, Gold, and Platinum power efficiency. Additionally, server models that meet efficiency requirements for Energy Star compliance will be published once testing has been completed.

HP's -48VDC power supply is designed for those environments that require DC Voltage to operate. This power supply supplies up to 1200Watts of power on 48 Volts DC and comes with a DC power

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).

System Fans

3 fan modules ship standard in 1 processor models 4 fan modules ship standard in 2 processor models Fan redundancy standard with all modules

NOTE: The processor option kit contains 1 additional fan module, when upgrading from a 1 processor to two processor models. A Fan Module Option kit can also be purchased separately for use with PC Graphics card upgrades. See HP PCI Thermal Power Kit (519254-B21) in the Core Options section.

Required Cabling

For required cabling information, refer to the Web site at: www.hp.com/servers/dl360-g7

Operating Systems and Virtualization Software Microsoft Windows Server

Citrix XenServer

Support for ProLiant Servers

Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) **Oracle Solaris** VMware

NOTE: For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server including how to purchase from HP, please visit our OS Support Site at: http://www.hp.com/go/ossupport and our driver download page www.hp.com/support/DL360G7.

Graphics

Integrated ATI ES1000, 32MB 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 iLO 3 remote console for ProLiant is 1280 x 1024 (for 32 bit color) and 1600 x 1200 (DVR max resolution).

NOTE: DL360 G7 supports an HP Quadro 4000 PCIe Graphics Adapter Kit (655933-B21), selection of which requires HP PCI Thermal Power Kit (519254-B21), as well as a choice of a higher power HP Common Slot Pwr Supply Kit.

NOTE: Please see the HP Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.

Form Factor

1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep

HP Insight management software

HP Insight Foundation

Managing the growing number of servers can be complex and expensive for your organization. IT managers need to address changing business needs with tools that meet the challenges of managing today's complex Datacenters.

HP provides management solutions that are designed to simplify a server's installation, configuration and maintenance throughout the entire server lifecycle. This provides the customer with higher levels of operational efficiency and highly reliable systems: www.hp.com/go/foundation.

The foundation pack includes:

- HP SmartStart
- HP Management DVD
- HP ProLiant Smart Update Firmware DVD

SmartStart version supported (minimum): SmartStart 8.40. http://www.hp.com/servers/smartstart

NOTE: In an effort to support reducing our environmental impact, the HP Insight Foundation Suite for ProLiant media will be available as a selectable option for this server at time of order of a CTO SKU. This will allow customers to order the number of media kits that best meet their needs and eliminate receiving unnecessary duplicate media.

HP Integrated Lights-Out 3 (iLO 3)

HP Integrated Lights-Out 3 (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 handin-hand with HP Systems Insight Manager, Insight Control suites, and Insight Dynamics for ProLiant, helping customers unleash the value of the ProLiant platform and deliver the highest possible quality of IT service. For more information, visit: www.hp.com/go/iLO

Security

Power-on password Keyboard password QuickLock, Network Server Mode Serial interface control Administrator's password

iLO 3 (Integrated Lights-Out 3) has 12 customizable user accounts and SSL encryption

iLO 3 can be disabled via a Global Setting

iLO Advanced supports directory services integration

Standard Features

Warranty

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

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 Sot

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, 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 self-service portal. Resources provisioned can range from a single virtual machine to complex multi-tier environments and their associated physical and virtual resource requirements. In addition to the previous functional benefits, it also provides a cost-effective disaster recovery for physical and virtual environments that works with HP Continuous Access software for both the Enterprise Virtual Array and the XP storage array allowing application environments to be reactivated in minutes with the touch of a button to a remote location.

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

High Performance Clusters

HP Cluster Platforms

HP HPC Interconnects

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HP Cluster Management Utility

HP Insight Dynamics for ProLiant

HP HPC Linux Value Pack

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

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

Factory Express Portfolio for Servers and Storage

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

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HF 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 Enterprise Configurator

The HP eConfigure-Enterprise Configurator now provides factory default racking for our HP hardware portfolio. This approach is aligned with our strategic direction to meet the needs and expectations of our valued customers. If you require "custom" rack configuration, please contact HP's Customer Business Center or an Authorized Partner for assistance. http://www.hp.com/products/configurator

nttp://www.np.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

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 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

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

Standard Care PackagePackage 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

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 Package

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

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 SupportThe 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.

Performance Models

636365-xx1

Six-Core Model (2) Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W, DDR3-1333, HT Turbo 2/2/2/3/3) Processors Processor(s) HP ProLiant DL360 G7 X5675 2P 12GB-R (2) Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W DDR3-1333, HT Turbo 2/2/2/3/3) Processors

P410i/1GB FBWC 8 SFF SAS/SATA 460W PS Svr_{Cache} Memory 12MB (1 x 12MB) Level 3 cache

12 GB (6 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs Memory

NOTE: Total of 18 DDR3 DIMM slots. HP ProLiant DL360 G7 X5650 2P 12GB-R

P410i/1GB FBWC 8 SFF 460W 92 EFF RPS IC Sv/Network Controller Two HP NC382i Dual Port Multifunction Gigabit Server Adapter 579239-xx1

(4 x 1Gb Ports) HP Smart Array P410i/1GB FBWC **Storage Controller**

> **Hard Drive** None ship standard **Internal Storage** 8 SFF SAS/SATA HDD Bays **Optical Drive** Not available for 8 drive models

PCI-Express Slots PCIe 2.01-full-length, full-height and 1-low profile

Power Supply Two 460W Common Slot Gold Hot Plug Power Supplies, redundant

4 total fans, redundancy standard Fans

HP Insight Control No Media single server license, including 1 year of 24x7 Technical Support and Updates Insight Control

1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep **Form Factor**

Warranty Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.

Base Models

633777-xx1

Six-Core Models HP ProLiant DL360 G7 E5649 1P 6GB-R P410i/256 4 SFF 460W RPS Server

633776-xx1 HP ProLiant DL360 G7 E5645 1P 6GB-R

P410i/256 4 SFF 460W RPS Server

Processor(s) One of the following depending on Model

Cache Memory Memory

Network Controller

Storage Controller

Hard Drive

Internal Storage

Optical Drive PCI-Express Slots

Power Supply Fans

Form Factor Warranty

(1) Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W, DDR3-1333, HT Turbo 1/1/1/1/2/2) Processor (1) Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W, DDR3-1333, HT Turbo 1/1/1/1/2/2) Processor

12MB (1 x 12MB) Level 3 cache 6 GB (3 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs

NOTE: Total of 18 DDR3 DIMM slots.

Two HP NC382i Dual Port Multifunction Gigabit Server Adapter (4 x 1Gb Ports)

HP Smart Array P410i/256MB Controller

None ship standard 4 SFF SAS/SATA HDD Bays (with optional 4SFF HDD upgrade)

None ship standard PCIe 2.01-full-length, full-height and 1-low profile

One 460W Common Slot Gold Hot Plug Power Supply 3 total fans redundancy standard

1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.

(1) Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W, DDR3-800) Processor

Entry Models

Quad-Core Models Processor(s)

HP ProLiant DL360 G7 E5606 1P 4GB-R P410i/ZMOne of the following depending on Model 4 SFF 460W RPS Server **Cache Memory**

633778-xx1

One of the following depending on Model

Network Controller

Memory

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

NOTE: Total of 18 DDR3 DIMM slots. Two HP NC382i Dual Port Multifunction Gigabit Server Adapter

4MB (1 x 4MB) Level 3 cache

(4 x 1Gb Ports)

Storage Controller HP Smart Array P410i/Zero Memory Controller

Hard Drive None ship standard

4 SFF SAS/SATA HDD Bays (with optional 4SFF HDD upgrade) **Internal Storage**

Optical Drive None ship standard

PCI-Express Slots PCIe 2.01-full-length, full-height and 1-low profile **Power Supply** One 460W Common Slot Gold Hot Plug Power Supply

Fans 3 total fans redundancy standard

Form Factor 1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty

Efficiency Models

Quad-Core Models (1) Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W, DDR3-1066, HT Turbo 1/1/2/2) Processor Processor(s) HP ProLiant DL360 G7 L5630 1P 4GB-U P410i/ZMCache Memory

12MB (1 x 12MB) Level 3 cache 4 SFF 460W PS Efficiency Server 4 GB (2 x 2 GB) PC3-10600E (DDR3-1333) Unbuffered Memory Memory

579242-xx1 NOTE: Total of 18 DDR3 DIMM slots. **Network Controller** Two HP NC382i Dual Port Multifunction Gigabit Server Adapter

(4 x 1Gb Ports)

HP Smart Array P410i/Zero Memory Controller **Storage Controller**

Hard Drive None ship standard

4 SFF SAS/SATA HDD Bays (with optional 4SFF HDD upgrade) **Internal Storage**

Optical Drive None ship standard

PCI-Express Slots PCIe 2.01-full-length, full-height and 1-low profile One 460W Common Slot Platinum Hot Plug Power Supply **Power Supply**

Fans 3 total fans redundancy standard

Form Factor 1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep

Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty

Country Code Key

US xx=00 xx=20 Brazil xx=29 Japan APD xx = 37xx=42Europe **PRC** 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 DL360 G7 Configure-to-order Server 579237-B21 HP ProLiant DL360 G7 Performance Configure-to-order Server 641749-B21

NOTE: This Model is sold in CTO only and with Dual X5690 or X5687 130Watt processors only.

Factory Integrated Model ships with:

Two HP NC382i Dual Port Multifunction Gigabit Server Adapter (4x1Gb Ports)

HP Smart Array P410i/Zero Memory Controller HP Integrated Lights-Out 3 (iLO 3) embedded

2 PCIe 2.0 Slots - 1 full-length, full-height x16 and 1 low-profile x8. 4 bays for Hot-Plug SAS/SATA Drives(Factory Option for up to 8)

4 USB ports(1-front,1-internal, 2-rear)

1 Internal Secure Digital(SD) slot 3 fan modules; fan redundancy standard

1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep

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

HP DL360 G7 Intel® Xeon® X5690 (3.46GHz/6-core/12MB/130W) FIO 2-

HP Processors

Six-Core Processors

processor Kit	
NOTE: This option/part number includes two of the listed processors	
HP DL360 G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor Kit	633781-L21
HP DL360 G7 Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W) FIO Processor Kit	588062-L21
HP DL360 G7 Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W) FIO Processor Kit	588064-L21
HP DL360 G7 Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W) FIO Processor Kit	588066-L21
HP DL360 G7 Intel® Xeon® L5640 (2.26GHz/6-core/12MB/60W) FIO Processor Kit	588078-L21
HP DL360 G7 Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W) FIO Processor Kit	633785-L21

644131-L21

633791-L21

500656-B21

HP DL360 G7 Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W) FIO Processor Kit	633787-L21
Quad-Core Processors	
HP DL360 G7 Intel® Xeon® X5687 (3.60GHz/4-core/12MB/130W) FIO 2-processor Kit	644130-L21
NOTE: This option/part number includes two of the listed processors	
HP DL360 G7 Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W) FIO Processor Kit	633783-L21
HP DL360G7 Intel® Xeon® X5667 (3.06GHz/4-core/12MB/95W) FIO Processor Kit	621552-L21
LD DI 360 C7 Intol® Voon® FE630 /3 40CH=/4 core/42MD/90M/\ FIQ Processor	E00070 L 01

HP DL360 G7 Intel® Xeon® E5620 (2.40GHz/4-core/12MB/80W) FIO Processor 588072-L21 HP DL360 G7 Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W) FIO Processor 633789-L21

HP DL360 G7 Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W) FIO Processor 588080-L21

HP DL360 G7 Intel® Xeon® E5603 (1.60GHz/4-core/4MB/80W) FIO Processor NOTE: Up to 2 processors supported. Performance Model configurations include

two processors. NOTE: HT indicates that the processor model supports Intel® /Hyper-Threading Technology

NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 4,3,2 and 1 cores active.

NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed. **NOTE:** For the Intel 5600 Series, the letter preceding the model number indicated the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise Performance/Wattage

HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9

(Mainstream); and "L" denotes Lower Wattage.

HP Memory

Registered DIMMs (RDIMMs)

Memory Kit

HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500658-B21
HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593339-B21
HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9	604504-B21

Low Power Memory Kit NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors.

HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 500662-B21 Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low 604506-B21

Power Memory Kit NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors.

HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 500666-B21 Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 627812-B21

LP Memory Kit HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 627814-B21

LP Memory Kit Unbuffered with ECC DIMMs (UDIMMs)

HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 500668-B21 Memory Kit HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 500670-B21

Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 500672-B21 Memory Kit

HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low 619488-B21 Power Memory Kit

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

www.hp.com/go/proliant-energy-efficient

NOTE: PC3L is a low voltage memory.

HP Power Supplies

NOTE: Most DL360 Series Servers operate within the 460Watt range of the base model Common Slot Power Supply. However, prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine





Configuration Information - Factory Integrated Models

the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. Standard Power Supplies only come with "PreConfigured Models" shown previously and are defined in those lists of options. HP 460W Common Slot Gold Hot Plug Power Supply Kit 503296-B21 **NOTE:** Standard on most models. HP 460W Common Slot Platinum Hot Plug Power Supply Kit 593188-B21 HP 750W Common Slot Gold Hot Plug Power Supply Kit 512327-B21 HP 750W Common Slot Platinum Hot Plug Power Supply Kit 593831-B21 NOTE: Standard on Efficiency Model Server. HP 1200W Common Slot Silver Hot Plug Power Supply Kit 500172-B21 HP 1200W Common Slot -48VDC Hot Plug Power Supply Kit 437573-B21 **NOTE:** DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers. NOTE: Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.

Step 3: Choose Additional Factory Integratable Options

HP Storage Controllers NOTE: For additional Cache Memory Options for the standard integrated Smart

Array (P410i) see HP Storage Controllers section in Step 4: below. **NOTE:** For additional Storage Controller Options select from these options. See

Additional Options in next section below for more details.

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

HP Smart Array P411/256 BBWC 2-ports Ext PCle x8 FIO SAS Controller 491193-B21

491191-B21

593829-B21

NOTE: For more information on optional controllers.

http://h18004.www1.hp.com/products/servers/proliantstorage/

arraycontrollers/index.html

HP Performance Packs The HP ProLiant DL360 G7 performance packs are necessary to configure a HP

ProLiant DL360 G7 Performance Model. HP ProLiant DL360 G7 Performance model includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The performance pack includes a 2nd processor, redundant 460w power supplies, 1G of FBWC, a second HDD backplane for full 8 SFF/SSD hard drive support and Insight Control license.

HP DL360G7 X5650 HPM FIO Perf Pack

HP DL360G7 X5675 HPM FIO Perf Pack 636366-B21
HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single 582765-B21

Server FIO License

HP Insight Software

HP Insight Control for Linux including 1yr 24x7 Support ML/DL Bundle 1 Server FIO TC203A License

Step 4: Choose Additional Options for Factory Integration

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





Core Options

NOTE: Some options may not be integrated at the factory. To ensure only valid configurations are ordered, HP recommends

the use of an HP approved configurator. Contact your local sales representative for additional information. HP DL360 G6/G7 Small Form Factor Hard Drive Backplane Kit **HP Unique Options** 516966-B21

NOTE: Integrated Optical/DVD cannot be used with this option. Optional External

USB CD/DVD Drive available. HP DL360G6 Slimline 12.7mm SATA DVD Optical Drive 532066-B21

HP DL360G6 Slimline 12.7mm SATA DVD-RW Optical Drive **NOTE:** Integrated DVD/Optical drive option is supported on 4 Hard drive models

only.

HP DL360 G6 PCI-X Riser Kit 518824-B21

NOTE: For PCI-X Card support only.

NOTE: The PCI-X Riser option is available to convert the full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.

UD December 1	O'r Core Brown and	
HP Processor	Six-Core Processors	000704 D04
	HP DL360 G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) Processor Kit	633781-B21
	HP DL360 G7 Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W) Processor Kit	588062-B21
	HP DL360 G7 Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W) Processor Kit	588064-B21
	HP DL360 G7 Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W) Processor Kit	588066-B21
	HP DL360 G7 Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W) Processor Kit	633785-B21
	HP DL360 G7 Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W) Processor Kit	633787-B21
	HP DL360 G7 Intel® Xeon® L5640 (2.26GHz/6-core/12MB/60W) Processor Kit	588078-B21
	Quad-Core Processors	000 7 00 D04
	HP DL360 G7 Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W) Processor Kit	633783-B21
	HP DL360 G7 Intel® Xeon® X5667 (3.06GHz/4-core/12MB/95W) Processor Kit	621552-B21
	HP DL360 G7 Intel® Xeon® E5640 (2.66GHz/4-core/12MB/80W) Processor Kit	588068-B21
	HP DL360 G7 Intel® Xeon® E5630 (2.53GHz/4-core/12MB/80W) Processor Kit	588070-B21
	HP DL360 G7 Intel® Xeon® E5620 (2.40GHz/4-core/12MB/80W) Processor Kit	588072-B21
	HP DL360 G7 Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W) Processor Kit	588080-B21
	HP DL360 G7 Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W) Processor Kit	633789-B21
	HP DL360 G7 Intel® Xeon® E5603 (1.60GHz/4-core/4MB/80W) Processor Kit	633791-B21
	NOTE: Up to 2 processors supported. Performance Model configurations include two processors. NOTE: HT indicates that the processor model supports Intel® /Hyper-Threading Technology	
	NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 6,5,4,3,2 and 1 cores active.	
	NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.	
	NOTE: For the Intel 5600 Series, the letter preceding the model number indicated the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.	
	E denotes Enterprise i enormanos viatage (Mainstream), and E denotes Eswer viatage.	
HP Memory	Registered DIMMs (RDIMMs)	
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500656-B21
	HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500658-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593339-B21
	HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors.	604504-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500662-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors.	604506-B21
	HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit	500666-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627812-B21
	HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627814-B21
	Unbuffered with ECC DIMMs (UDIMMs)	
	HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500668-B21
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500670-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500672-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low Power Memory Kit	619488-B21
	NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory	
	Configuration Tool: www.hp.com/go/ddr3memory-configurator.	
	NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient. NOTE: PC3L is a low voltage memory.	
HP Drive Cage Options	HP DL360 G6/G7 Small Form Factor Hard Drive Backplane Kit	516966-B21
Dive dage options	NOTE: For 4 addition HD Bays, slots 5-8. This option will work on both DL360 G6 and G7 servers.	010000-D21
	NOTE: Optical/DVD cannot be used with this option.	

532068-B21



HP Optical Drives

HP DL360G6 Slimline 12.7mm SATA DVD Optical Drive

HP DL360G6 Slimline 12.7mm SATA DVD-RW Optical Drive

NOTE: Integrated DVD/Optical drive option is supported on 4 Hard drive models only.

532066-B21

532068-B21



or the system bar NOTE: Hard drive SAS Hot Plug SI HP 900GB 6G SA HP 900GB 6G SA HP 450GB 6G SA HP 300GB 6G SA HP 300GB 6G SA HP 300GB 6G SA HP 146GB 6G SA HP 146GB 6G SA HP 172GB 6G SAS SAS Hot Plug SI HP 118 6G SAS HP 500GB 6G SA NOTE: SAS Entel http://h18000.wwn SATA Hot Plug SI HP 118 3G SATA HP 500GB 3G SA NOTE: SATA driv http://h18000.wwn (Worldwide) SATA Hot Plug SI HP 400GB 3G SA HP 200GB 3G SA HP 100GB 6G SA HP 100GB 6G SA HP 200GB 6G SA HP 20	nents of a storage subsystem (e.g., the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate dwidth will be negotiated down to an acceptable level for all components. Fig. 5-inch) Enterprise (ENT) Drives S 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive I 5K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive F (2.5-inch) Midline (MDL) Drives Z 2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive S 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive S 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive F (2.5-inch) Midline (MDL) Drives T 2.5 rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive T 3.7 kr rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive T 3.7 kr rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive T 3.7 kr rpm SFF (2.5-inch) Drive Midline 1yr Warranty Hard Drive T 3.7 kr rpm SFF (2.5-inch) Drive Midline 1yr Warranty Hard Drive T 3.7 kr rpm SFF (2.5-inch) Drive Midline 1yr Warranty Hard Drive T 3.7 kr rpm SFF (2.5-inch) Drive Midline 1yr Warranty Hard Drive T 4.7 kr rpm SFF (2.5-inch) Drive Midline 1yr Warranty Hard Drive T 5.5 inch Drive Midline (MDL) Drives S 1.6 kr rpm SFF (2.5-inch) Drive Midline 1yr Warranty Hard Drive T 5.5 inch Drive Midline MDL) Drives S 1.6 kr rpm SFF (2.5-inch) Drive Midline	619291-B2 581286-B2 581284-B2 627117-B2 507127-B2 512547-B2 512545-B2 605835-B2 507610-B2 625609-B2 507750-B2 636595-B2 636593-B2 632494-B2 632492-B2 632504-B2 632504-B2 632502-B2
or the system bar NOTE: Hard drive SAS Hot Plug \$! HP 900GB 6G SA HP 600GB 6G SA HP 300GB 6G SA HP 146GB 6G SA HP 172GB 6G SAS HP 172GB 6G SAS SAS Hot Plug \$! HP 1TB 6G SAS HP 500GB 6G SA NOTE: SAS Enter http://h18000.www SATA Hot Plug \$! HP 17B 3G SATA HP 500GB 3G SA NOTE: SATA driv http://h18000.www (Worldwide) SATA Hot Plug HP 400GB 3G SA HP 200GB 3G SA HP 100GB 3G SA HP 100GB 3G SA HP 100GB 6G SA HP 200GB 6G SA HP 200G	dwidth will be negotiated down to an acceptable level for all components. I shave either a one year or three year warranty, refer to the specific hard drive QuickSpecs for details. F (2.5-inch) Enterprise (ENT) Drives S 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive S 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive F (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive F (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive F (2.5-inch) Dual Port Midline (MDL) Drives 1.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive S 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive S 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive prise drives have a 3 year warranty. Please see the OuickSpecs for Technical Specifications and additional information: 1.1h p. com/products/quickspecs/12244_div/12244_div.html (Worldwide) FF (2.5-inch) Midline (MDL) Drives 1.2K rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive TA 7.2K rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive TA 7.2K rpm SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive TA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive TA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive TA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive ON: For best performance of SSD drives it is recommended that any Smart Array Controller use a max of 4 drives. For this product a second Smart e used for the second set of 4 SSD drives it is recommended that any Smart Array Controller use a max of 4 drives. For this product a second Smart e used for the se	581286-B2 581284-B2 627117-B2 507127-B2 512547-B2 512545-B2 605835-B2 507610-B2 625609-B2 507750-B2 636597-B2 636593-B2 632494-B2 632492-B2 632506-B2 632504-B2
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HP NC552SFP 10 NOTE: Please se HP 10 GbE PCI-e HP InfiniBand QLogic InfiniBand HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand FD	ual Port 10GbE Server Adapter	581201-B2
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HP 10 GbE PCI-e HP InfiniBand QLogic InfiniBand HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand FD	Gb 2-port Ethernet Server Adapter	614203-B2
HP InfiniBand QLogic InfiniBand HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand FD	e the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs	
HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand FD	G2 Dual Port Network Interface Card	516937-B2
HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand FD		
HP InfiniBand 4X HP InfiniBand 4X HP InfiniBand FD	4X QDR PCI-E G2 Dual Port HCA	583211-B2
HP InfiniBand 4X HP InfiniBand FD	QDR ConnectX-2 PCIe G2 Dual Port HCA	592520-B2
HP InfiniBand FD	DDR ConnectX-2 PCIe G2 Dual Port HCA	592521-B2
	DDR PCI-E 0 Memory Dual Port HCA	483513-B2
	R/EN 10/40Gb Dual Port 544QSFP Adapter the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.	649281-B2
HP I/O Expansion Options HP DL360 G6 PC NOTE: To convert	-X Riser Kit full-height PCI-Express slot to PCI-X slot for PCI-X cards only.	518824-B2
HP 460W Commo	sking 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	503296-B2
NOTE: Standard	HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. on Slot Gold Hot Plug Power Supply Kit	
	HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. on Slot Gold Hot Plug Power Supply Kit on most models.	593188-B2
	HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. on Slot Gold Hot Plug Power Supply Kit on most models. on Slot Platinum Hot Plug Power Supply Kit	512327-B2
	HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. In Slot Gold Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Slot Gold Hot Plug Power Supply Kit In Slot Gold Hot Plug Power Supply Kit	593831-B2
	HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. In Slot Gold Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Slot Gold Hot Plug Power Supply Kit In Slot Gold Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit	
	HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. In Slot Gold Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Slot Gold Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Efficiency Model Server.	
NOTE: DC power	HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. In Slot Gold Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Slot Gold Hot Plug Power Supply Kit In Slot Gold Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit In Slot Platinum Hot Plug Power Supply Kit	500172-B2 437573-B2

HP Graphic Options

HP Cooling Options

NVIDIA Quadro 4000 2GB PCI-E Adapter

HP DL360G6 PCI Thermal Power Cable Kit

NOTE: Supports 3rd Party PCI Video Graphics cards.

NOTE: HP Quadro 4000 PCIe Graphics Adapter requires HP PCI Thermal Power Kit (519254-B21), as well as a choice of a higher power HP Common Slot Pwr Supply

NOTE: Please see the HP Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HP Power Advisor is

located at: www.hp.com/go/hppoweradvisor.

519254-B21

655933-B21

T9074BAE TC278AAE

452148-B22

436222-B21

TC213AAE

TC209A

TC208A

TA850AAE

512485-B21

T9082AAE

QL803A

433257-B21

TC293B

TC294A

600278-B21

600279-B21

600281-B21

600282-B21

641027-B21

488069-B21

452151-B21

TC275A



Additional Options

HP Insight Software

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 Control

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

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

HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Tracking License

HP Insight Software Media Kit

NOTE: Insight Software DVD media without licenses. Contains HP Systems Insigh:

NOTE: Insight Software DVD media without licenses. Contains HP Systems Insight Manager, HP Insight Control, HP Insight Dynamics, HP Insight Control for Microsoft System Center, 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: Electronic software is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.

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 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 software is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.

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 including 1yr 24x7 Technical Support and Updates Electronic License

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

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: Electronic software is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.

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 Insight Control Server Deployment

HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License

HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License

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

NOTE: Electronic software is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.

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

High Performance Clusters

HP Cluster Management Utility

HP Cluster Management Utility 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 Cluster Management Utility Media

NOTE: Order a minimum of one license per cluster to purchase media including software and documentation, which will be delivered to the customer, and also licenses

CMU management. No license key is delivered or required.

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 I/O Accelerator Options

HP Security

HP 160GB Single Level Cell PCle ioDrive for ProLiant Servers

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

HP 320GB Multi Level Cell PCle 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

HP 640GB Multi Level Cell PCIe ioDrive Duo for ProLiant Servers
HP 1.28TB Multi Level Cell PCIe IO Accelerator

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13587_div/13587_div.html

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

HP Trusted Platform Module Option

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.



487204-B21

462968-B21

462967-B21

534916-B21

534562-B21

462969-B21

496013-B21

627121-B21

516471-B21

614988-B21

412911-B21

AF556A

AF568A

AF570A

AF566A

AF565A

AF571A

AF567A

AF564A

AF591A

SG579A

AF569A

AF572A

AF557A

AF560A

AF561A

AF559A

AF562A

AF558A AF573A

TC330AAE

TC331AAE

TC332AAE TC333AAE



Additional Options

HP Storage Controllers

NOTE: The DL360 G7 Server comes standard with an integrated P410i Smart Array Controller designed to mange up to 8 SFF hard drives from HP. For additional capabilities and capacities HP offers additional Smart Arrays. (BBWC=Battery Backed Write Cache and FBWC=Flash Back Write Cache)

SAS Controllers

Smart Array P212 Controller

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

Smart Array P411 Controller

HP Smart Array P411/256 2-ports Ext PCIe x8 SAS Controller 462830-B21 HP Smart Array P411/512 BBWC 2-ports Ext PCIe x8 SAS Controller 462832-B21 HP Smart Array P411/512 FBWC 2-ports Ext PCle x8 SAS Controller 578229-B21 HP Smart Array P411/1G FBWC 2-ports Ext PCle x8 SAS Controller 572531-B21

Smart Array P812 Controller

HP Smart Array P812/1G FBWC 2-ports Int/4-ports Ext PCIe x8 SAS Controller

NOTE: The HP Smart Array P812/1G Flash Backed Cache Controller has the ability to support 8 internal drives on the DL360 G7 as well as external storage solutions. For use with the internal 8 drives the Mini-SAS to Mini-SAS, 25.50" & 28.00" option kit (PN: 496013-B21) is required.

Optional Upgrades

NOTE: For Smart Array P410i Controller and Smart Array P212 Controller. Not available for factory integration.

HP 256MB P-series Cache Upgrade NOTE: Supported on HP Smart Array P212 Controller and HP Smart Array P410i Controller.

HP 512MB P-Series Battery Backed Write Cache Upgrade

HP 512MB Flash Backed Write Cache **NOTE:** Supported on the Smart Array P410i Controller only.

HP 1GB Flash Backed Cache

NOTE: Supported on the Smart Array P410i Controller only. HP 650 mAh P-Series Battery

NOTE: To enable BBWC on the 256MB cache kits. HP Mini SAS to Mini SAS 28in Cable Assembly

HP Chipset SATA Cable Kit NOTE: This cable allows for connection of Chipset SATA to 1 SATA HD in the drive cage. This solution allows for disabling the embedded storage controller. Qty of 1 HD blanks may need to be ordered/installed when using this solution (503771-B21) to ensure all bays are populated with HDs or blanks. There is no support for optical

media. There is no support for HD LED or thermal management when this solution is deployed. Only supported on non Hot Plug SFF Hard Drives configurations. Hot Plug is not supported. Loss of HD support for all drives bays except for the 1 deployed in this configuration. VMWare (ESX3.5/i) is not supported in this configuration. 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 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/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 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 Storage Works P2000 G3 SAS Modular Smart Array.

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

http://h18004.www1.hp.com/products/quickspecs/13651_div/13651_div.html

(SC08e 6Gb HBA)

SCSI HBA HP SC11Xe Ultra320 Single Channel/ PCle x4 SCSI Host Bus Adapter

NOTE: Recommended HBA for SCSI tape drive connect.

NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12566_div/12566_div.html

(SC11Xe HBA)

NOTE: The HP ProLiant DL360 G7 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For specific regional power cords **HP Power Cords** purchase from the following

> HP 1.83m 10A C13 Power Cord HP 1.83m 10A C13 EU Power Cord HP 1.83m 10A C13 UK Power Cord HP 1.83m 10A C13 DK Power Cord

HP 1.83m 10A C13 CZ Power Cord HP 1.83m 10A C13 IT/CL Power Cord HP 2.5m 10A C13 ZA Power Cord

HP 1.83m 10A C13 Power Cord HP 1.83m 10A C13 NBR14136 Brazil Power Cord

HP 2.5m 16A C13 IS1293 India Power Cord HP 1.83m 10A C13 Power Cord HP 2m C13 Japan Power Cord

HP 1.83m 10A C13 CN Power Cord HP 1.83m 10A C13 KR Power Cord HP 1.83m 10A C13 TW Power Cord HP 1.83m 10A C13 Power Cord

HP 2.0m 10A C13 IN Power Cord HP 2.5m 10A C13 Power Cord HP 2m 10A C13-C14 Redundant Jumper Cord

HP Backup & Recovery Software HP Data Protector Express

> HP Data Protector Express V5.0 for 1 Server E-LTU HP Data Protector Express V5.0 for 3 Servers E-LTU HP Data Protector Express V5.0 for 10 Servers E-LTU

HP Basic Upgrade to Data Protector Express V5 for 1 Server E-LTU

NOTE: One of these Data Protector Express base products is required. To see available options: http://www.hp.com/go/dataprotectorexpress

EH847A

EH946B

EJ014A

BL536A

BL537A

BL538A

EJ001B

EJ002B

EH938A

EH993B

AJ767A

AJ934A

BV847A

AP769A

AP770A

AP767A

AP768A

A8002A

A8003A

AE311A

AE312A



Additional Options

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 DAT 320 USB in 1U Rack-mount Kit AP835B HP DAT 320 SAS Internal Tape Drive AJ830A 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 Ultrium 920 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.

HP LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rackmount 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-5 Ultrium 3000 SAS Tape Library

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

HP MSL4048 2 LTO-5 Ultrium 3000 SAS Tape Library NOTE: Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended.

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 NOTE: 1.5TB of useable network disk backup capacity. Network connected appliance with connectivity using the iSCSI protocol. If the server requires a hardware iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.

HP D2D2504i Backup System NOTE: 3.0TB of useable network disk backup capacity. Network connected appliance with connectivity using the iSCSI protocol. If the server requires a hardware

iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.

HP StorageWorks D2D4004i Backup System NOTE: 3.0TB (expandable to 7.5TB) of useable network disk backup capacity. Network connected appliance with connectivity using the iSCSI protocol. If the server

requires a hardware iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.

HP D2D4112 Backup System NOTE: 9.0TB (expandable to 18.0TB) of useable network disk backup capacity. Fibre Channel SAN connected appliance. Direct server attach is not supported, requires connection via SAN fabric. See http://www.hp.com/storage/SPOCK for supported Fibre Channel Host Bus Adapters

HP RDX Removable Disk Backup Systems USB

HP StorageWorks RDX320 Internal Removable Disk Backup System NOTE: For installation into 1U USB Rack-Mount Kit (A8007A). No peripheral bay available for drive installation into the server. 320GB of disk capacity per data

HP StorageWorks RDX500 Internal Removable Disk Backup System NOTE: For installation into 1U USB Rack-Mount Kit (A8007A). No peripheral bay available for drive installation into the server. 500GB of disk capacity per data

HP StorageWorks RDX1000 Internal Removable Disk Backup System NOTE: For installation into 1U USB Rack-Mount Kit (A8007A). No peripheral bay available for drive installation into the server. 1 TB of disk capacity per data cartridge.

HP Storage Options

HP Disk Storage

Systems

Storage Fibre Channel HBA

NOTE: The following is a list of all Fibre Channel Host Bus Adapters for Windows and Linux. For detailed compatibility information please see:

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

Brocade Fibre Channel HBAs HP 81B PCle 8Gb Fibre Channel Single Port Host Bus Adapter HP 82B PCle 8Gb Fibre Channel Dual Port Host Bus Adapter

HP 41B PCle 4Gb Fibre Channel Single Port Host Bus Adapter HP 42B PCle 4Gb Fibre Channel Dual Port Host Bus Adapter

Emulex Fibre Channel HBAs HP 81E 8Gb Single Port PCI-e Fibre Channel Host Bus Adapter AJ762A HP 82E 8Gb Dual Port PCI-e Fibre Channel Host Bus Adapter AJ763A

HP FC2242SR 4Gb PCIe DC Host Bus Adapter

HP FC2142SR 4Gb PCle Host Bus Adapter

QLogic Fibre Channel HBAs AK344A HP 81Q PCI-e Fibre Channel Host Bus Adapter AJ764A HP 82Q 8Gb Dual Port PCI-e Fibre Channel Host Bus Adapter

HP FC1142SR 4Gb PCle Host Bus Adapter HP FC1242SR 4Gb PCle DC Host Bus Adapter

Storage SCSI HBA HP U320e SCSI Dual Channel Host Bus Adapter AH627A NOTE: Recommended HBA for MSL SCSI Tape Library connect.

Converged Network Adapter

HP CN1100E Dual Port Converged Network Adapter BK835A BS668A HP CN1000Q Dual Port Converged Network Adapter HP CN1000E Dual Port Converged Network Adapter AW520A

MSA SAN Storage Arrays

HP MSA70 Array 418800-B21

NOTE: Supports 25 SFF drives, and SAS 3 Gb/s and SATA 1.5 Gb/s. NOTE: Please see the QuickSpecs for additional options and configuration

information at: http://h18000.www1.hp.com/products/quickspecs/12652_div/12652_div.html

Disk Enclosures

HP D2600 Disk Enclosure AJ940A HP D2700 Disk Enclosure AJ941A

information at: http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html (Worldwide)

NOTE: Please see the QuickSpecs for additional options and configuration





Additional Options

HP Uninterruptible Power Systems

HP Rack-mountable UPS

HP R1500 G3 Uninterruptible Power Supply (UPS)	
HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A
HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A
NOTE: Disease and the Oviet One of far additional information.	

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

HP R5500 6000VA INTL 3U Rackmount Uninterruptible Power System AF416A AF426A HP R5500 5000kVA NA/JP 3U Rackmount Uninterruptible Power System **NOTE:** Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13129_div/13129_div.html

HP R/T3000 G2 Uninterruptible Power System (UPS)

HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System AF466A HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System AF467A HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power AF468A System

NOTE: Please see the QuickSpecs for additional information:

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

R5000 Uninterruptible Power System (UPS)

HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System AF461A HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A **NOTE:** Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14109_div/14109_div.html

R7000 Uninterruptible Power System (UPS)

AF462A HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System 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)

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

NOTE: For additional information on sizing your server, please reference: http://www.upssizer.com.

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

HP Power Distribution Monitored PDUs Units

(Worldwide)

HP Monitored Power Distribution Unit: Full Rack Version

HP 8.6kVA 24A Single Input Three Phase NA/JP Monitored Power Distribution Unit AF504A HP 8.3kVA 40A Single Input Single Phase NA/JP Monitored Power Distribution Unit AF506A HP 11kVA 16A Single Input Three Phase INTL Monitored Power Distribution Unit AF508A HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit AF510A

HP Monitored Power Distribution Unit: Half Rack Version HP 4.9kVA 24A Single Input Single Phase NA/JP Monitored Power Distribution Unit

AF914A HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit AF915A

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

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

Modular PDUs 1U/0U

NOTE: 1U/0U mounting brackets shipped with the unit (optimized for 10000 G2 and 9000 series racks).

HP 3.6kVA 16A High Voltage INTL Modular Power Distribution Unit 252663-B24 HP 4.9kVA 24A High Voltage NA/JP Modular Power Distribution Unit 252663-D72 HP 7.3kVA 32A High Voltage INTL Modular Power Distribution Unit 252663-B31 252663-D73 HP 8.3kVA 40A High Voltage NA/JP Modular Power Distribution Unit 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.

HP Intelligent Power Distribution Units (iPDU)

iPDU Core Units

HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution AF520A Unit HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution AF521A HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution AF522A HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution AF523A Unit HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit AF525A HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit AF526A HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Unit AF527A HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Power Distribution AF900A HP 17.3kVA 24A 415V Three Phase L22-30 NA Core Intelligent Power Distribution AF902A Unit HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distribution AF901A

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

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



Additional Options

HP Rack Series HP Rack 10000 G2 Series (Carbon/Graphite Metallic)

HP 10642 G2 Pallet Universal Rack AF001A HP 10642 G2 Shock Universal Rack AF002A HP 10642 G2 1200mm deep Shock Rack AF092A HP 10647 G2 1200mm deep Shock Rack AF094A

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

installed.

NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12402_div/12402_div.html (Worldwide)

NOTE: For additional information regarding Rack Cabinets and Telco Rack support, 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

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

HP Rack Options

HP USB Keyboard and Mouse

management.

631341-B21 HP USB BFR with PVC Free US Keyboard/Mouse Kit HP USB BFR with PVC Free UK Keyboard/Mouse Kit 631344-B21 HP USB BFR with PVC Free FR Keyboard/Mouse Kit 631346-B21 HP USB BFR with PVC Free ES Keyboard/Mouse Kit 631348-B21 HP USB BFR with PVC Free DE Keyboard/Mouse Kit 631358-B21 HP USB BFR with PVC Free JP Keyboard/Mouse Kit 631360-B21 HP USB BFR with PVC Free IT Keyboard/Mouse Kit 631362-B21 HP USB BFR with PVC Free CN Keyboard/Mouse Kit 631364-B21 HP USB BFR with PVC Free AE Keyboard/Mouse Kit 638212-B21 HP USB BFR with PVC Free RU Keyboard/Mouse Kit 638214-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional

http://h18000.www1.hp.com/products/quickspecs/13972_div/13972_div.html

(Worldwide)	
HP TFT7600 G2 KVM Console Rackmount Keyboard Monitor	
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

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

NOTE: Please see the QuickSpecs for Technical Specifications and additional

(Worldwide) **HP Server Console Switches**

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

http://h18000.www1.hp.com/products/quickspecs/11834_div/11834_div.html

(Worldwide) 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

http://h18000.www1.hp.com/products/quickspecs/13474_div/13474_div.html

(Worldwide) Rack Kit

HP DL360G4 1U Cable Management Arm 365403-B21

HP USB and SD Options

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.



DT528A#ABA 580387-B21



Additional Options

HP Care Pack Services Hardware Services 4-Hour On-site Service

U4496E HP 3 year 4 hour 13x5 ProLiant DL36x Hardware Support HP 3 year 4 hour 24x7 ProLiant DL36x Hardware Support U4497E Hardware Services 6-Hour Call to Repair On-site Service HP 3 year 6 hour 24x7 Call to Repair ProLiant DL36x Hardware Support U4498E Hardware Services 24-Hour Call to Repair On-site Service HP 3 year 24 hour 24x7 Call to Repair ProLiant DL36x Hardware Support UP711E UP712E HP 4 year 24 hour 24x7 Call to Repair ProLiant DL36x Hardware Support UP713E HP 5 year 24 hour 24x7 Call to Repair ProLiant DL36x Hardware Support Installation & Start-up Services HP Install ProLiant DL36x Service U4506E HP Startup ProLiant DL36x Service U4507E **Support Plus 24** U4509E HP 3 year Support Plus 24 Microsoft ProLiant DL36x Service HP 3 year Support Plus 24 SuSE ProLiant DL36x Service U6310E **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".

DDR3 memory population guidelines

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

Some DIMM installation guidelines are summarized below:

- For servers with eighteen (18) memory slots:
 - O There are three (3) channels per processor; six (6) channels per server
 - There are three (3) DIMM slots for each memory channel; eighteen (18) total slots
 Memory channel 1 consists of the three (3) DIMMs that are closest to the processor
 - O Memory channel 3 consists of the three (3) DIMMs that are furthest from the processor
- DIMM slots that are white should be populated first
- Do not mix Unbuffered memory (UDIMMs) with Registered memory (RDIMMs)
- Do not install DIMMs if the corresponding processor is not installed
- If only one processor is installed in a 2CPU system, only half of the DIMM slots are available
- To maximize performance, balance the total memory capacity between all installed processors
 It is not required, but it is recommended to load the channels similarly if possible
- You can only have up to eight (8) ranks installed per channel
- You can only install two quad-rank DIMMs per channel
- You can only install two UDIMMs per channel; if available, the third slot in the channel must remain empty
- Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel
- Heaviest load (DIMM with most ranks) within a channel goes furthest from the chipset
- For memory mirroring mode, channel 3 must be unpopulated. Channels 1 and 2 are populated identically
- For lock-step mode, channel 3 must be unpopulated. DIMMs in channels 1 and 2 will be installed in pairs. The paired slots will be 1,4; 2,5; 3;6 on a 3DPC system or 1,4; 2,5; on a 2DPC system
- Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors
- If mixing DIMM voltage is a requirement, please note that the DIMMs will run at 1.5V since all 1.35V are capable of supporting 1.5V operations

supporting 1.5V operations												
				DIMM	slot/capacity/po	pulated speed to	able					
DIMM Type		Registered DIMMS (RDIMMs)						Unbuffered	with ECC DIMM	ls (UDIMMs)		
DIMM Rank	Single Rank (1R)			Dual Rank (2R)				Quad Rank (4R))	Single Rank (1R)	Dual R	ank (2R)
DIMM Capacity	4GB	2GB	4GB	8GB	8GB	16GB	4GB	16GB	32GB	1GB	2GB	4GB
DIMM Native Speed (MHz)	1333	1333	1333	1066	1333	1333	1066	1066	1066	1333	1333	1333
Voltage	LV/Std	Std	Std	Std	LV/Std	LV	Std	Std	LV	Std	Std	LV/Std
	SLOTS THAT CA	N BE POPULAT	ED									
18 slot servers	18	18	18	18	18	18	12	12	12	12	12	12
	MAXIMUM CAPA	CITY (GB)										
	72	36	72	144	144	288	48	192	384	12	24	48
	POPULATED DIN	MM SPEED (MHz	:)									
1 DIMM Per Channel	1333	1333	1333	1066	1333	1333	1066	1066	1066	1333	1333	1333
2 DIMM Per Channel	1333*	1333	1333	1066	1333*	1066/ 1033*	800	800	800	1333	1333	1333*
3 DIMM Per Channel	800	800	800	800	800	800**	n/a	n/a	n/a	n/a	n/a	n/a

^{*2}DPC: LV runs at 1066, Std voltage runs at 1333

NOTES:

- Mixing DIMM speeds is allowed, but the system processor speed rules always override the DIMM capabilities
- If you do mix DIMM speeds, the memory bus will default to the minimum clock rate of all DIMMs in the system even if the slower DIMM is on the other processor
- If you install 1x 1066MHz DIMM in channel 1 and 1x 1333MHz DIMM in channel 2, you still run at 1066MHz
 If you install 1x 1066MHz DIMM in channel 1 and 5x 1333MHz DIMMs with 1 DIMM Per Channel (DPC) in each of the other channels, you run at 1066MHz
- If you install 3DPC in one channel (if applicable) and 1DPC in all other channels, you run at 800MHz
 References to the above MHz speeds are for the various speeds of DDR3 DIMMs; 1333 refers to DDR3-1333, etc.

DIMM slot and configuration diagrams Basic memory slot & population diagram

Population order; start with "A" first, "B" second, "C" third, etc.

	18 DIMM SLOTS (9 per CPU node)								
	СР	U1	СР	U2					
	slot #	population order	slot#	population order					
Chnl 1	1	G	1	G	Chnl 1				
	2	D	2	D					
	3	Α	3	Α					
Chnl 2	4	Н	4	Н	Chnl 2				
	5	Е	5	E]				
	6	В	6	В]				
Chnl 3	7	I	7	I	Chnl 3				
	8	F	8	F]				
	9	С	9	С]				

Standard memory configuration (1 CPU model)

6GB, consisting of three (3) 2GB dual-rank PC3-10600 RDIMMs

	С	CPU1		CPU2		
	slot#	population order	slot #	population order		
Chnl 1	1	G; empty	1	G; empty	Chnl 1	
	2	D; empty	2	D; empty]	
	3	A; 2GB DIMM	3	A; empty		
Chnl 2	4	H; empty	4	H; empty	Chnl 2	
	5	E; empty	5	E; empty]	
	6	B; 2GB DIMM	6	B; empty]	
Chnl 3	7	I; empty	7	I; empty	Chnl 3	
	8	F; empty	8	F; empty]	
	9	C; 2GB DIMM	9	C; empty]	

Standard memory plus optional memory (1 CPU model)

- 54GB, consisting of three (3) 2GB RDIMMs plus six (6) 8GB RDIMMs
 - o 3x 2GB dual-rank PC3-10600 RDIMMs
 - o 6x 8GB dual-rank PC3-8500 RDIMMs



^{**3}DPC: LV/Std voltage runs at 800



Memory

	СР	rU1	СР		
	slot#	population order	slot#	population order	
Chnl 1	1	G; 8GB DIMM	1	G; empty	Chnl 1
	2	D; 8GB DIMM	2	D; empty	
	3	A; 2GB DIMM	3	A; empty	
Chnl 2	4	H; 8GB DIMM	4	H; empty	Chnl 2
	5	E; 8GB DIMM	5	E; empty	ļ
	6	B; 2GB DIMM	6	B; empty	
Chnl 3	7	I; 8GB DIMM	7	I; empty	Chnl 3
	8	F; 8GB DIMM	8	F; empty	
	9	C; 2GB DIMM	9	C; empty	<u> </u>

Standard memory replaced with optional memory (1 CPU model) RDIMM maximum configuration

• 72GB, consisting of nine (9) 8GB dual-rank PC3-8500 RDIMMs

	СР	U1	CP		
	slot#	population order	slot#	population order	
Chnl 1	1	G; 8GB DIMM	1	G; empty	Chnl 1
	2	D; 8GB DIMM	2	D; empty]
	3	A; 8GB DIMM	3	A; empty	
Chnl 2	4	H; 8GB DIMM	4	H; empty	Chnl 2
	5	E; 8GB DIMM	5	E; empty	
	6	B; 8GB DIMM	6	B; empty	
Chnl 3	7	I; 8GB DIMM	7	I; empty	Chnl 3
	8	F; 8GB DIMM	8	F; empty	

UDIMM maximum configuration (1 CPU model)

• 12GB, consisting of six (6) 2GB dual-rank PC3-10600 UDIMMs

	С	PU1			
	slot#	population order	slot#	population order	
Chnl 1	1	G; empty	1	G; empty	Chnl 1
	2	D; 2GB DIMM	2	D; empty]
	3	A; 2GB DIMM	3	A; empty	
Chnl 2	4	H; empty	4	H; empty	Chnl 2
	5	E; 2GB DIMM	5	E; empty	
	6	B; 2GB DIMM	6	B; empty	
Chnl 3	7	I; empty	7	I; empty	Chnl 3
	8	F; 2GB DIMM	8	F; empty]
	9	C; 2GB DIMM	9	C; empty]

Standard memory replaced with optional memory (2 CPU model) **RDIMM** maximum configuration

• 384GB, consisting of twelve (12) 32GB quad-rank PC3L-8500 RDIMMs

		CPU1		CPU2		
	slot #	population order	slot#	population order		
Chnl 1	1	G; empty	1	G; empty	Chnl 1	
	2	D; 32GB DIMM	2	D; 32GB DIMM		
	3	A; 32GB DIMM	3	A; 32GB DIMM]	
Chnl 2	4	H; empty	4	H; empty	Chnl 2	
	5	E; 32GB DIMM	5	E; 32GB DIMM		
	6	B; 32GB DIMM	6	B; 32GB DIMM]	
Chnl 3	7	I; empty	7	I; empty	Chnl 3	
	8	F; 32GB DIMM	8	F; 32GB DIMM]	
	9	C; 32GB DIMM	9	C; 32GB DIMM]	

UDIMM maximum configuration (2 CPU model)

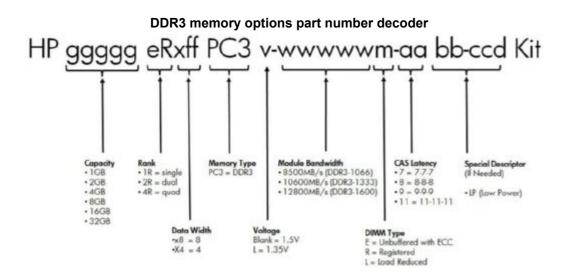
• 24GB, consisting of twelve (12) 2GB dual-rank PC3-10600 UDIMMs

	C	PU1	(
	slot #	population order	slot#	population order	
Chnl 1	1	G; empty	1	G; empty	Chnl 1
	2	D; 2GB DIMM	2	D; 2GB DIMM	
	3	A; 2GB DIMM	3	A; 2GB DIMM	
Chnl 2	4	H; empty	4	H; empty	Chnl 2
	5	E; 2GB DIMM	5	E; 2GB DIMM	
	6	B; 2GB DIMM	6	B; 2GB DIMM	
Chnl 3	7	I; empty	7	I; empty	Chnl 3
	8	F; 2GB DIMM	8	F; 2GB DIMM]
	9	C; 2GB DIMM	9	C; 2GB DIMM	

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

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

Memory



Following are memory options available from HP:

_	• •
HP Memory	Registered DIMMs (RDIMM

Registered DIMMs (RDIMMs)	
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500656-B21
HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500658-B21
HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593339-B21
HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604504-B21
NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors.	
HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500662-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604506-B21
HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit	500666-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627812-B21
HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627814-B21
NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600	

Unbuffered with ECC DIMMs (UDIMMs)

series processors.

Memory Kit	
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9	500670-B21
Memory Kit	
HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9	500672-B21
Memory Kit	
HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low	619488-B21

500668-B21

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

HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9

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

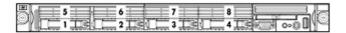
NOTE: PC3L is a low voltage memory.





Storage

1-8 8 x SFF SAS Hot Pluggable Hard Drive Bays. Optical Media Bay not available for this configuration



1-4 4 x SFF SAS Hot Pluggable Hard Drives



- A Optical Media Bay
- 5, 6 Blanks (these HDD Bays are not available when DVD installed)

Drive Support

	Quantity Supported	Position Supported	Controller
Removable Media			
HP DL360 SL 12.7mm SATA DVD-RW	1	Slim Line Bay	Integrated SATA
HP DL360 SL 12.7mm SATA DVD NOTE: DVD/Optical drive options supported on 4 hard drive models only.	1	Slim Line 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.

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

	Quantity Supported	Position Supported	Controller
900GB 6G SAS 10K	8	1-8	HP Smart Array P212/Zero Memory Controller
600GB 6G SAS 10K			HP Smart Array P212/256 MB Controller
450GB 6G SAS 10K			HP Smart Array P411/256 MB Controller
300GB 6G SAS 10K			HP Smart Array P411/512 MB BBWC Controller
300GB 6G SAS 15K			
146GB 6G SAS 15K			
72GB 6G SAS 15K			

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

	Quantity Supported	Position Supported	Controller
1TB 6G SAS 7.2K 500GB 6G SAS 7.2K	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller
0000000001.210			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller

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

	Quantity Supported	Position Supported	Controller
1TB 3G SATA 7.2K 500GB 3G SATA 7.2K	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

SATA Hot Plug 2.5" Enterprise Mainstream Solid State Drives

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

6G SAS Hot Plug Enterprise Performance Solid State Drives

	Quantity Supported	Position Supported	Controller
400GB 6G SAS SLC SFF 200GB 6G SAS SLC SFF	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

6G SAS Hot Plug Enterprise Mainstream Solid State Drives

	Quantity Supported	Position Supported	Controller
800GB 6G SAS MLC SFF 400GB 6G SAS MLC SFF 200GB 6G SAS MLC SFF	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller





Storage

External Storage			
	Quantity Supported	Position Supported	Host Controller or Adapter
70 Modular Smart Array	Up to 2	External	HP Smart Array P212/256 MB Controller
	Up to 4	External	HP Smart Array P411/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller
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 BBWC Controller HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed 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 BBWC Controller HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller

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.

and tape backup products	see: http://www	v.hp.com/storage/SPOCK.	
	Position Supported	Controller	Part Number
HP SCSI Tape Drives LTO-1 Ultrium 232 LTO-2 Ultrium 448 LTO-3 Ultrium 920 LTO-3 Ultrium 960 LTO4 Ultrium 1760 LTO-4 Ultrium 1840 DAT 40 DAT 72 DAT 160 1U Rack-Mount Kit 3U Rack-Mount Kit	External	HP SC11Xe Ultra320 Single Channel/ PCle x4 SCSI Host Bus Adapter	412911-B21
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 LTO-4 Ultrium 1760 LTO-4 Ultrium 1840 LTO-5 Ultrium 3000 LTO-5 Ultrium 3280 1U Rack-Mount Kit 3U Rack-Mount Kit	External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	462828-B21
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-B21
HP SCSI Tape Libraries, External MSL2024 MSL4048 MSL8096 MSL6000	External	HP U320e SCSI Dual Channel Host Bus Adapter NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	AH627A
HP SAS Tape Autoloaders and Libraries 1/8 G2 Autoloader MSL2024 MSL4048 MSL8096	External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	462828-B21
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/A
HP USB RDX Removable Disk Backup System RDX160 RDX320 RDX500 RDX750 RDX1TB	External	USB 2.0 Port	N/A
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 D2D4000fc	External	Direct server attach is not supported, requires connection via SAN fabric. See: http://www.hp.com/storage/SPOCK	N/A





Power Specifications

HP 460W Common Slot Gold Hot Plug Power Supply Kit								
Part Number	503296-B21	503296-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)	5.5	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 Supply Kit								
Part Number	593188-B21	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	

HP 750W Common Slot Gold Hot Plug Power Supply Kit							
Part Number	512327-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)	8.9	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-B21							
Input Voltage Range (V rms)	100 to 240	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	

HP 1200W Common Slot Silver Hot Plug Power Supply Kit							
Part Number	500172-B21						
Input Voltage Range (V rms)	100 to 240	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)	9.7	9.0	7.0	6.8	6.4	6.1	5.9
Maximum Rated Input Wattage Rating (Watts)	930	1034	1348	1348	1348	1348	1348
Maximum Rated VA (Volt-Amp)	970	1079	1406	1406	1406	1406	1406
Efficiency (%)	86	87	89	89	89	89	89
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)	3174	3530	4600	4600	4600	4600	4600

HP 1200W Common Slot Silver 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	38 28 19					
Maximum Rated Input Wattage Rating (Watts)	1380	1380 1350 1365					
Maximum Rated VA (Volt-Amp)	1380	1380 1350 1365					
Efficiency (%)	87	87 89 88					
Power Factor		N/A					
Leakage Current (mA)		N/A					
Maximum Inrush Current (A peak)	20	20 25 35					
Maximum Inrush Current duration (mS)	1	1 1 3					
Maximum British Thermal Unit Rating (BTU-Hr)	4713	4610	4662				

To review typical system power ratings use the HP Power Advisor which is available via the online tool located at URL: www.hp.com/go/proliant-energy-efficient or www.hp.com/go/hppoweradvisor





Technical Specifications

System Unit

Dimensions (H x W x D) 1.70 x 16.78 x 27.25 in (4.32 x 42.62 x 69.22 cm) (with bezel)

Weight Maximum 39.5 lb (17.92 kg)

(all hard drives, power (approximate) supplies, and processors

installed) Minimum

32 lb (14.51 kg)

100 to 240 VAC

(one hard drive, power

supply, and processor installed)

(for Standard 460W PSU, see power specifications Rated Input Current

Input Requirements

Rated Line Voltage

tables for detail on 460W,

Rated Input Frequency 50 to 60 Hz

750W and 1200W power supplies)

1773 BTU / hr (at 120 VAC), 1715 (at 240 Maximum

VAC)

Power Specifications

BTU Rating

To review typical system power ratings use the HP Power Advisor which is available via the online tool located at URL: www.hp.com/go/proliantenergy-efficient or www.hp.com/go/hppoweradvisor

- Click on the system of interest. Example: DL360 G7 - Follow the instructions of the next screens.

Power Supply Output (per power supply)

Rated Steady-State 460 W (at 100 VAC), 460 W (at 200 VAC) Power Maximum Peak Power

460 W (at 100 VAC), 460 W (at 200 VAC)

NOTE: See Power Supply Specifications tables for complete details on 460W PSU and optional 750W and 1200W Power Supply Options.

4.5 Amps (at 120VAC) to 2.2 Amps (at 240

System Inlet Temperature Operating

10° to 35° C (50° to 95° F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8° F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10° C/hr (18° F/hr). The upper limit may be limited by the type and number of options installed.

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

F).

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

of change is 20° C/hr (36° F/hr).

Relative Humidity (non-condensing)

Altitude

Acoustic Noise

Operating

Operating

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

F) maximum wet bulb temperature, non-

condensing. 5 to 95% relative humidity (Rh), 38.7° C

Non-operating (101.7° F) maximum wet bulb temperature,

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

by the type and number of options installed.

non-condensing.

Maximum allowable altitude change rate is 457

m/min (1500 ft/min).

9144 m (30,000 ft). Maximum allowable

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

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

and declared in accordance with ISO 9296 (ECMA 109).

Idle (Single Processor, Note 1)

4.3 B Average Bystander L WAd

L pAm 27 dBA

Operating

L WAd 4.8 B Average Bystander

L pAm 32 dBA Idle (Dual Processors, Note 2)

L WAd 4.9 B Average Bystander

33 dBA L pAm

Operating

L WAd 5.4 B Average Bystander

38 dBA L pAm

NOTES:

Note 1) Configuration tested included an Intel X5520 guad-core 2.27GHz processor, one 72GB SAS HDD, four 250GB 5400 rpm SATA hard drives, six system fans, three 4GB(2x2GB) DIMM's, and one power

Note 2) Configuration tested included two Intel X5520 quad-core 2.27GHz processors, one 72GB SAS HDD, four 250GB 5400 rpm SATA hard drives, eight system fans, six 4GB(2x2GB) DIMM's, and one power

supply (2P SKU). Note 3) Values are subject to change without notification and are for reference only. Note 4) Performance of system, options, and ancillary equipment will vary

depending on the system configuration. Note 5) Levels presented do not account for non-Hewlett-Packard

installed hardware.

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.

QuickSpecs

Technical Specifications

(iLO 3) integrated on system board

Integrated Lights-Out 3 Architecture PCI Express based health and remote management ASIC **Processor** PCI Express RISC processor core running at 250MHz Upgradeability Option firmware upgradeable via Flash ROM.

1600 x 1200 DVR max resolution

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

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

128-MB SDRAM with ECC Memory **Operating System** Microsoft Windows 2008 R2

Video Support

Interfaces

Support 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 Embedded 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

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 SupportSecure Shell and serial port access

Security Secure Socket Layer

Secure Shell version 2 (Password and certificate)

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 Active Directory v1.0 (Windows 2003)

Services

supported

Driver Support

HP ProLiant iLO 3 Management Controller Driver Package

iLO Management Channel Interface Driver

Management protocols 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 6Gb/s SAS (Serial Attached SCSI) **Enclosure Interface -**3Gb/s SATA (Serial ATA) Transfer rate 2 internal 4X connectors **SAS Connectors**

Cache Memory Speed DDR2-800MHz with 40 or 72-bit wide bus x4 PCIe 2.0 provides 2GB/s maximum bandwidth **Server Interface**

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

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

Logical Drives Supported Up to 64 logical drives with cache **Host Memory** 64-bit, supporting greater than 4GB server memory space

Addressing

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

RAID 5, 5+0 (Distributed Data Guarding)

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

support

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

Embedded NC382i Dual Network Interface Port Multifunction

Compatibility **Gigabit Server Adapter**

10Base-T/100Base-TX/1000Base-TX IEEE 802.3 10Base-T

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

Data Transfer Method PCI Express, four lanes (x4)

Controller BCM5709C

Network Transfer Rate 10Base-T (Half-Duplex) 10 Mb/s

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

Full-Duplex) Connector Two RJ-45

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

1000BaseTX Category 5 or higher UTP; up to 328 ft (100 m)



Technical Specifications

Environment-friendly End-of-life ManagementHewlett-Packard offers end-of-life HP product return, trade-in, and **Products and Approach and Recycling** 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.

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

