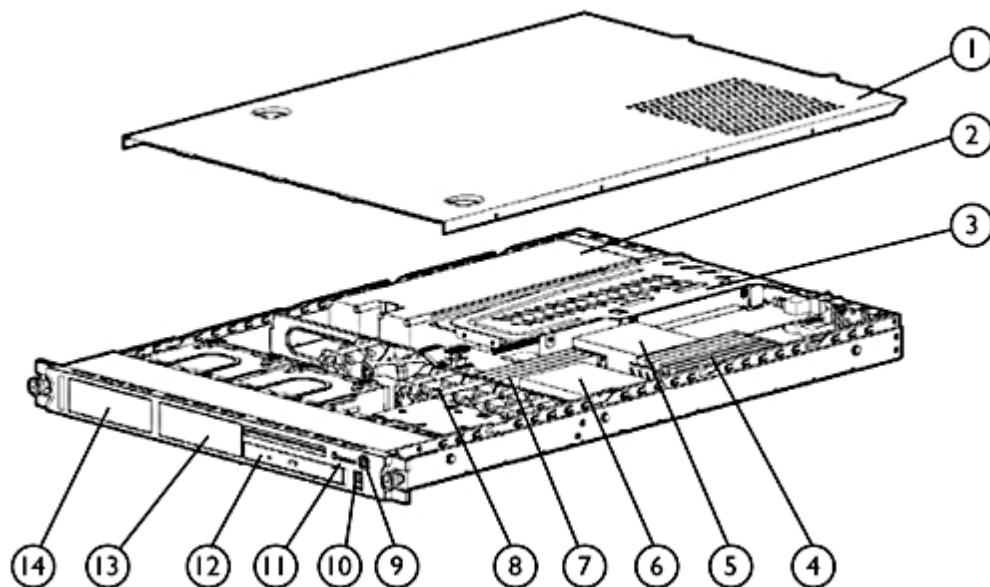


Overview



1. Access Panel
2. 500 Watt Power Supply
3. PCI-X I/O Expansion Assembly with (1) 133MHz Full Height, Full-Length PCI-X slot which supports PCI Express with optional riser board and (1) 133MHz Low-Profile, Half-Length PCI-X Slot.
4. Memory Bank 1A & 1B, supporting up to 8GB PC3200 DDR1 SDRAM
5. Processor 1
6. Processor 2
7. Memory Bank 2A & 2B, supporting up to 8GB PC3200 DDR1 SDRAM
8. System Fans
9. Power ON/OFF Button
10. Front USB Ports
11. System LEDs
12. Optional CD or DVD-ROM Drive
13. Non-Hot Plug SATA OR SCSI Hard Drive Bay
14. Non-Hot Plug SATA OR SCSI Hard Drive Bay

What's New

- Supports 1 or 2 AMD Opteron Rev. E processors with 1GHz HyperTransport Technology:
- AMD Opteron Model 280 (2.4GHz/1M L2) Dual Core with Integrated Memory Controller Running at Core Frequency supporting AMD PowerNow! Technology, Factory Integration Only
- AMD Opteron Model 254 (2.8GHz/1M L2) Single Core with Integrated Memory Controller Running at Core Frequency supporting AMD PowerNow! Technology, Factory Integration Only
- Supports both SATA and SCSI non-hot plug hard drives
- Embedded SATA Controller
- Includes one full-size and one low-profile 64-bit/133MHz PCI-X slot; optional PCI Express x16 in place of full-size slot
- IPMI 1.5 support at launch with future support for IPMI 2.0
- HP ProLiant Lights Out 100i Remote Management support standard
- 8 DIMM slots supporting up to 16GB PC3200 DDR1 400MHz memory
- Optional DVD- or CD-ROM drive

Overview

At A Glance

- AMD 8132 Chipset for PCI-X support and NVIDIA nForce Professional 2200 MCP for PCI Express
- AMD Opteron 2.2GHz/1M L2, 2.0GHz/1M L2 and 1.8GHz/1M L2 Dual Core with Integrated Memory Controller Running at Core Frequency
- AMD Opteron Model 2.6GHz/1M L2, 2.2GHz/1M L2 and 2.0GHz/1M L2 Single Core with Integrated Memory Controller Running at Core Frequency
- 1 or 2-GB of PC3200 DDR SDRAM running at 400MHz with Advanced ECC capabilities standard (depending on model), expandable to 16 GB
- Integrated Dual Broadcom 10/100/1000 5721 NICs (Wake on LAN and PXE capable)
- Integrated 10/100 NIC dedicated for server management
- Embedded SATA Controller
- Support for up to two 1" SATA/SCSI Non Hot Plug hard drives
- Two PCI-X 64-bit/133MHz PCI slots operating at 3.3 volts (one full-length/full-height, one low-profile); optional PCI Express x16 in place of full-size slot
- Internal storage capacity of up to 500 GB (2 x 250-GB non-hot plug 1" SATA HDDs), or 192GB (2 x 146GB NHP SCSI HDDs)
- Optional DVD- or CD-ROM drive
- Integrated NVIDIA GeForce2 GPU with 16MB DDR video memory
- 500W Power Supply (Non-Hot Plug, autoswitching)
- Four USB ports (two rear, two front)
- HP ProLiant Lights Out 100i Remote Management standard
- IPMI 1.5 support at launch with future support for IPMI 2.0
- ROM Setup Utility
- Protected by HP Services and a worldwide network of resellers and service providers. One-year Next Business Day, on-site limited global warranty. Certain restrictions and exclusions apply. Pre-Failure Notification on processors, memory, and SCSI hard drives - SATA hard drives have a one-year warranty.

Standard Features

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

Processor One of the following depending on Model	AMD Opteron Model 275 (2.2GHz/1MB) dual core processor supporting 1GHz HyperTransport Technology
	AMD Opteron Model 270 (2.0GHz/1MB) dual core processor supporting 1GHz HyperTransport Technology
	AMD Opteron Model 265 (1.8GHz/1MB) dual core processor supporting 1GHz HyperTransport Technology
	AMD Opteron Model 252 (2.6GHz/1MB) single core processor supporting 1GHz HyperTransport Technology
	AMD Opteron Model 248 (2.2GHz/1MB) single core processor supporting 1GHz HyperTransport Technology
	AMD Opteron Model 246 (2.0GHz/1MB) single core processor supporting 1GHz HyperTransport Technology

Memory Protection Advanced ECC capabilities

Memory One of the following depending on Model	Type	PC3200 DDR SDRAM running at 400MHz	
	Standard	1GB	(2 x 512MB)
		2GB	(2 x 1GB)
	Maximum	16GB	(8 x 2GB)

NOTE: Available with 2.0 & 2.2GHz single core models.

NOTE: Available with 2.6 single core models and all dual core models (1.8, 2.0, & 2.2).

Network Controller Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)

Expansion Slots	Slot #	Bus Speed	Hot Plug (Y/N)	Voltage/Connector	Notes
	1	64-bit/133MHz PCI-X	No	3.3 Volt	Full length, full height
	1	X16 PCI Express	No	3.3 Volt	Full length, full height
	2	64-bit/133MHz PCI-X	No	3.3 Volt	Low Profile

NOTE: For more information regarding PCI-X, please see the following URL:
<http://www.hp.com/servers/pci-x>.

NOTE: All slots can accept qualified universal keyed PCI cards.

Storage Controller Embedded SATA Controller

Standard Features

Storage	Diskette Drives	via USB only (optional)	
	DVD-ROM	8x IDE (ATAPI) DVD-ROM drive, slim (optional)	
	CD-ROM	24x IDE (ATAPI) CD-ROM drive (optional)	
	Hard Drives	80 GB, 160GB or 250GB SATA 7200 rpm 1" Drives, or 36GB 15K, 72GB 10K or 146GB 10K SCSI Drives (all non-hot plug)	

Maximum Internal Storage (Depending on model)	SATA	500 GB	2 x 250 GB
	SCSI	292 GB	2 x 146.8 GB

Interfaces	Parallel	None	
	Network RJ-45(Ethernet)	1-Dedicated for HP ProLiant Lights Out 100i Remote Management	
	Pointing Device (Mouse)	1	
	Graphics/Keyboard	1/1	
	Serial	1	
	USB	4 (two front; two rear)	
	Network RJ-45 (Ethernet)	2	

NOTE: Please see the following URL for additional information regarding USB support:
<http://h18004.www1.hp.com/products/servers/platforms/usb-support.html>.

Graphics	Integrated NVIDIA GeForce2 GPU with 16MB DDR video memory
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Form Factor	Rack Mount (1U)
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Industry Standard Compliance	ACPI V2.0 Compliant
	PCI 2.2 Compliant
	PXE Support
	WOL Support
	Microsoft® Logo certifications
	IPMI 1.5 Compliant

Manageability	HP ProLiant Lights Out 100i Remote Management integrated standard
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Security	Power-on password
	Setup password

Server Power Cords	One 10' Highline IEC Power cord ships standard (for connection to a Power Distribution Unit). Units shipped in Japan will have a 12' power cord.
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Standard Features

Power Supply 500 Watts, auto-switching, PFC (Power Factor Correcting)

System Fans 6 - Non-hot plug, Non-redundant system fans shipped standard

OS Support Microsoft Windows® 2000 Server (32-bit)
Microsoft Windows 2000 Advanced Server (32-bit)
Microsoft Windows 2003 Standard Edition (32-bit)
Microsoft Windows 2003 Enterprise Edition (32-bit)
Microsoft Windows 2003 Web Edition (32-bit)
Microsoft Windows 2003 for Extended Systems Standard Edition (64-bit)
Microsoft Windows 2003 for Extended Systems Enterprise Edition (64-bit)
Red Hat Linux AS/ES/WS 3 and 4 (32- and 64-bit)
SUSE Linux 8 (32- and 64-bit)
SUSE Linux 9 (32- and 64-bit)
VMware Virtualization Software

NOTE: For an up-to-date listing of the latest OS support matrix, please see:

<http://www.hp.com/go/supportos>

NOTE: For an up-to-date listing of the latest drivers available for the HP ProLiant DL145, please see:

<http://h18023.www1.hp.com/support/files/server/us/index.html>.

NOTE: For more complete and up-to-date information on how to buy server operating systems from HP please visit the OS product site at:

<http://h18004.www1.hp.com/products/servers/software/OEM.html>

NOTE: For more information on HP's Certified and Supported ProLiant Servers, please visit the VMware Server Support Matrix at:

<http://h18004.www1.hp.com/products/servers/software/vmware/hpvmwarecert.html>

NOTE: Drivers may also found on the base media for some Linux OS's. When configuring your server, please consult your base media driver base, or visit HP.com at:

<http://h18023.www1.hp.com/support/files/server/us/index.html>

ProLiant Essentials Foundation Pack Software Optional ProLiant Essentials Value Packs

Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs:

- Intelligent Networking Pack - detects and analyzes network bottlenecks or broken network linkages and steers traffic to the optimum route based on network conditions, plus it provides an extra layer of protection. The virus throttle feature of the solution slows the propagation of fast spreading virus.
- Vulnerability and Patch Management Pack - identifies and remediates software security vulnerabilities due to missing patches as well as operating system configurations that can be exploited by viruses, worms and other blended threats.

NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to

<http://www.hp.com/servers/proliantessentials>

or the various ProLiant Essentials Value Pack product QuickSpecs for more information.

NOTE: For more information regarding ProLiant Essentials Software, please see the following URL:

<http://www.hp.com/servers/proliantessentials>.

Standard Features

Telco Rack Support

Telco Rack Kit:

Support for all 2-post Telco racks requires the use of the standard rack kit and an additional option kit from Rack Solutions.

<http://www.racksolutions.com/hp>

HP Factory Express Capability

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

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSA1000, VA7xxx, EVA3000 & EVA5000, 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>.

Service and Support

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of resellers and service providers. 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. Additional support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services or customized service agreements.

NOTE: Limited warranty includes 1 year parts, 0 years Labor, 0 years on-site support

NOTE: SATA hard drives have a one-year warranty.

Care Pack services provide a range of life cycle support options that let you choose the service levels that meet your business requirements, from basic to mission-critical.

A full range of HP Care Pack hardware and software services are available including:

- Installation and start up
- Education courses
- Extended onsite hardware coverage hours from same business day 13 hours, 5 day to 24 hours, 7 days call window with options including 4-hour response or 6-hour Call To Repair
- Comprehensive range of software technical support for Microsoft, Linux and ProLiant Essentials solutions helping to deliver high level of application availability. Response times range from 30 mins for critical problems to 2 hours.
- System Management, Performance Services and Mission Critical Support Solution

HP Care Pack services include coverage for the HP branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as 22" and smaller external monitors and tower UPS options up to 3kVA; these items will be covered at the same service level and for the same coverage period as the server. Coverage of UPS Battery is not included, standard warranty terms & conditions apply. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack.

Standard Features

NOTE: For more information on HP Care Pack services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at:

<http://www.hp.com/hps/carepack>

NOTE: For more complete information on HP Services offerings, customers and resellers, please visit us at: <http://www.hp.com/hps>

NOTE: Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>

Models

ProLiant DL145 G2 2.2GHz /1MB Opteron DC 2GB 80GB NHP SATA 390846-xx1	Processor	AMD Opteron Model 275 (2.2GHz/1MB) processor (Dual Core)
	Cache Memory	1MB L2 cache
	Memory	2GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	Embedded SATA Controller
	Hard Drive	80 GB SATA (non-hot plug)
	Internal Storage	500 GB maximum (with optional hard drive)
Form Factor	Rack Mount (1U)	

ProLiant DL145 G2 2.2GHz/1MB Opteron DC 2GB 36GB NHP SCSI 390845-xx1	Processor	AMD Opteron Model 275 (2.2GHz/1MB) processor (Dual Core)
	Cache Memory	1MB L2 cache
	Memory	2GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	U320 Single Channel PCI-X controller (in low profile slot)
	Hard Drive	36GB 15k Ultra 320 NHP SCSI
	Internal Storage	292 GB maximum (with optional hard drive)
Form Factor	Rack Mount (1U)	

ProLiant DL145 G2 2.0GHz/1MB Opteron DC 2GB 80GB NHP SATA 393302-xx1	Processor	AMD Opteron Model 270 (2.0GHz/1MB) processor (Dual Core)
	Cache Memory	1MB L2 cache
	Memory	2GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	Embedded SATA Controller
	Hard Drive	80 GB SATA (non-hot plug)
	Internal Storage	500 GB maximum (with optional hard drive)
Form Factor	Rack Mount (1U)	

Models

ProLiant DL145 G2 2.0GHz/1MB Opteron DC 2GB 36GB NHP SCSI 393301-xx1	Processor	AMD Opteron Model 270 (2.0GHz/1MB) processor (Dual Core)
	Cache Memory	1MB L2 cache
	Memory	2GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	U320 Single Channel PCI-X controller (in low profile slot)
	Hard Drive	36GB 15k Ultra 320 NHP SCSI
	Internal Storage	292 GB maximum (with optional hard drive)
Form Factor	Rack Mount (1U)	

ProLiant DL145 G2 1.8GHz/1MB Opteron DC 2GB 80GB NHP SATA 390844-xx1	Processor	AMD Opteron Model 265 (1.8GHz/1MB) processor (Dual Core)
	Cache Memory	1MB L2 cache
	Memory	2GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	Embedded SATA Controller
	Hard Drive	80 GB SATA (non-hot plug)
	Internal Storage	500 GB maximum (with optional hard drive)
Form Factor	Rack Mount (1U)	

ProLiant DL145 G2 1.8GHz/1MB Opteron DC 2GB 36GB NHP SCSI 390838-xx1	Processor	AMD Opteron Model 265 (1.8GHz/1MB) processor (Dual Core)
	Cache Memory	1MB L2 cache
	Memory	2GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	U320 Single Channel PCI-X controller (in low profile slot)
	Hard Drive	36GB 15k Ultra 320 NHP SCSI
	Internal Storage	292 GB maximum (with optional hard drive)
Form Factor	Rack Mount (1U)	

Models

ProLiant DL145 G2 2.6GHz/1MB Opteron 2GB 80GB NHP SATA 377888-xx1	Processor	AMD Opteron Model 252 (2.6GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	2GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	Embedded SATA Controller
	Hard Drive	80 GB SATA (non-hot plug)
	Internal Storage	500 GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

ProLiant DL145 G2 2.6GHz/1MB Opteron 2GB 36GB NHP SCSI 377887-xx1	Processor	AMD Opteron Model 252 (2.6GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	2GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	U320 Single Channel PCI-X controller (in low profile slot)
	Hard Drive	36GB 15k Ultra 320 NHP SCSI
	Internal Storage	292 GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

ProLiant DL145 G2 2.2GHz/1MB Opteron 1GB 80GB NHP SATA 377886-xx1	Processor	AMD Opteron Model 248 (2.2GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	1GB (2 x 512MB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	Embedded SATA Controller
	Hard Drive	80 GB SATA (non-hot plug)
	Internal Storage	500 GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

Models

ProLiant DL145 G2 2.2GHz/1MB Opteron 1GB 36GB NHP SCSI 377885-xx1	Processor	AMD Opteron Model 248 (2.2GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	1GB (2 x 512MB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	U320 Single Channel PCI-X controller (in low profile slot)
	Hard Drive	36GB 15k Ultra 320 NHP SCSI
	Internal Storage	292 GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

ProLiant DL145 G2 2.0GHz/1MB Opteron 1GB 80GB NHP SATA 377884-xx1	Processor	AMD Opteron Model 246 (2.0GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	1GB (2 x 512MB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	Embedded SATA Controller
	Hard Drive	80 GB SATA (non-hot plug)
Internal Storage	500 GB maximum (with optional hard drive)	
Form Factor	Rack Mount (1U)	

ProLiant DL145 G2 2.0GHz/1MB Opteron 1GB 36GB NHP SCSI 377883-xx1	Processor	AMD Opteron Model 246 (2.0GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	1GB (2 x 512MB) PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities
	Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
	Storage Controller	U320 Single Channel PCI-X controller (in low profile slot)
	Hard Drive	36GB 15k Ultra 320 NHP SCSI
Internal Storage	292 GB maximum (with optional hard drive)	
Form Factor	Rack Mount (1U)	

Country Code Key	XX = 00	NA
	XX = 29	Japan
	XX = 20	Brazil
	XX = 37	AP
	XX = 42	EURO
	XX = AA	PRC

Configuration Information - Factory Integrated Models (North America only)

NOTE: For Configure to Order requirements within EMEA region, please consult local Sales Contact.

NOTE: HP does not allow factory integration of options into standard models listed above.

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

NOTE: This product offering does not support HP Factory Express Server Configuration Level 1.

Step 1: Base Configuration

SCSI Model	HP ProLiant DL145 G2 SCSI Rack Chassis	378024-405
	Factory Integrated Model ships with:	
	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)	
	HP U320 Internal SCSI Cable Kit	
	Two available 64-bit/133MHz PCI-X slots, including one full-length/full height and one low-profile/half height slot	
	NOTE: The low-profile/half height slot houses the SCSI HBA when installed.	
	500 Watt power supply	
	NOTE: Must select HP Low Profile U320 SCSI HBA, (P/N 390402-B21) in Step 2 when selecting the SCSI Rack Chassis, (P/N 378024-405)	
	NOTE: The selection of SCSI Model (P/N 376343-405), requires the selection of (1) SCSI Controller. Please see Step 3 of this section for compatible SCSI Controllers.	
SATA Model	HP ProLiant DL145 G2 SATA Rack Chassis	389695-405
	Factory Integrated Model ships with:	
	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)	
	Embedded SATA Controller	
	Two available 64-bit/133MHz PCI-X slots, including one full-length/full height and one low-profile/half height slot	
	500 Watt power supply	
	Rack Mount (1U)	

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

Configuration Information - Factory Integrated Models (North America only)

Base Processors	AMD O254 2.8GHz/1MB DL145 G2 FIO BASE	396861-L21
	NOTE: If 2 processors are desired, select one 396861-L21 and one 396861-B21.	
	AMD O252 2.6GHz/1MB DL145 G2 FIO BASE	378690-L21
	NOTE: If 2 processors are desired, select one 378690-L21 and one 378690-B21.	
	AMD O248 2.2GHz/1MB DL145 G2 FIO BASE	379259-L21
	NOTE: If 2 processors are desired, select one 379259-L21 and one 379259-B21.	
	AMD O246 2.0GHz/ 1MB DL145 G2 FIO BASE	378755-L21
	NOTE: If 2 processors are desired, select one 378755-L21 and one 378755-B21.	
	AMD O280 2.4GHz/1MB DL145 FIO BASE	399444-L21
NOTE: If 2 processors are desired, select one 399444-L21 and one 399444-B21.		
AMD O275 2.2GHz/ 1MB DL145 G2 FIO BASE	391782-L21	
NOTE: If 2 processors are desired, select one 391782-L21 and one 391782-B21.		
AMD O270 2.0GHz/1MB DL145 G2 FIO BASE	393300-L21	
NOTE: If 2 processors are desired, select one 393300-L21 and one 393300-B21.		
AMD O265 1.8GHz/1MB DL145 G2 FIO BASE	391781-L21	
NOTE: If 2 processors are desired, select one 391781-L21 and one 391781-B21.		

Base Memory	1GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 512 MB)	376638-B21
	2GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 1GB)	376639-B21
	4GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 2GB)	379300-B21

Base Hard Drives	Serial-ATA (SATA) Hard Drive (SATA Models only)	
	250-GB SATA 7,200 rpm Non-Hot Plug (1") FIO	399165-B21
	160-GB SATA 7,200 rpm Non-Hot Plug (1") FIO	399164-B21
	80-GB SATA 1.5Gb 7,200 rpm Hard Drive (1")	383410-B21
	Ultra320 Non-Hot Plug (SCSI Models only)	
	36.4 GB 15,000 rpm, U320 Non-Hot Plug Hard Drive (1")	357012-B21
	72.8 GB 10,000 rpm, U320 Non-Hot Plug Hard Drive (1")	332751-B21
146.8 GB 10,000 rpm, U320 Non-Hot Plug Hard Drive (1")	356990-B21	

Storage Controller	HP Low Profile U320 SCSI HBA, FIO	390402-B21
	NOTE: Must select this HBA when selecting the SCSI Rack Chassis, (P/N 378024-405)	

Step 3: Choose Additional Options for Factory Integration

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

Controllers	HP Low Profile U320 DL140 G2/DL145 G2 Controller, FIO	390402-B21
	HP Single Channel U320 SCSI Controller	374654-B21
	HP Dual Channel U320 SCSI Controller	268351-B21
	NOTE: Must choose one of the above listed Controllers when selecting the SCSI Model (P/N 376343-405) in step 1 of this section	

Options

ProLiant Essentials Licensing and Packaging	ProLiant Essentials Intelligent Networking Pack Windows Edition and Linux Edition	
	ProLiant Essentials Intelligent Networking Pack Windows Edition, Single Server License	372906-B21
	ProLiant Essentials Intelligent Networking Pack Linux Edition, Single Server License .	397004-B21
	<p>NOTE: For use with a single server. Contains one license with a unique license activation key and documentation</p> <p>NOTE: For additional ProLiant Intelligent Networking Pack License Kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12062_div/12062_div.HTML http://h18000.www1.hp.com/products/quickspecs/12327_div/12327_div.HTML</p>	
	ProLiant Essentials Vulnerability and Patch Management Pack	
	ProLiant Essentials Vulnerability and Patch Management Pack, Single-Server License	371645-B21
	<p>NOTE: For additional ProLiant Vulnerability and Patch Management Pack License Kits, please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12111_div/12111_div.HTML</p> <p>NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information.</p> <p>NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials.</p>	
Processor	AMD O280 2.4GHz/1MB Dual Core Processor Option Kit	399444-B21
	AMD O275 2.2GHz/1MB Dual Core Processor Option Kit	391782-B21
	AMD O270 2.0GHz/1MB Dual Core Processor Option Kit	393300-B21
	AMD O265 1.8GHz/1MB Dual Core Processor Option Kit	391781-B21
	AMD O254 2.8GHz/1MB Single Core Processor Option Kit	396861-B21
	AMD O252 2.6GHz/1MB Single Core Processor Option Kit	378690-B21
	AMD O248 2.2GHz/1MB Single Core Processor Option Kit	379259-B21
	AMD O246 2.0GHz/1MB Single Core Processor Option Kit	378755-B21
Memory (DIMMs)	1GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 512 MB)	376638-B21
	2GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 1GB)	376639-B21
	4GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 2GB)	379300-B21
Optical Drives	DVD-ROM Drive	361040-B21
	CD-ROM Drive	349046-B21

Options

Communications	HP NC150T PCI 4-port Gigabit 1000T Combo Switch Adapter	367132-B21
	HP NC310F PCI-X 1000SX Gigabit Server Adapter	368169-B21
	HP NC320T PCI Express 1000T Gigabit Server Adapter	367047-B21
	HP NC370F PCI-X Multifunction 1000SX Gigabit Server Adapter	374193-B22
	NOTE: A minimum of 1 GB of memory is required for NC370x adapters, with a maximum of two NC370x adapters permitted in a server.	
	HP NC370T PCI-X Multifunction 1000T Gigabit Server Adapter	374191-B22
	NOTE: A minimum of 1 GB of memory is required for NC370x adapters, with a maximum of two NC370x adapters permitted in a server.	
	HP NC1020 PCI 1000T Gigabit Server Adapter	353377-B21
	HP NC7170 PCI-X Dual Port 1000T Gigabit Server Adapter (full height)	313881-B21
	HP NC7170 PCI-X Dual Port, Low Profile 1000T Gigabit Server Adapter (low profile for half height slots)	383738-B21
	HP NC7771 PCI-X 1000T Gigabit Server Adapter	290563-B21
	HP NC570C PCI-X Dual-port 4x Fabric Adapter	376158-B21
	HP NC571C PCI Express Dual-port 4x Fabric Adapter	376160-B21
	HP 24-Port 4x Fabric Copper Switch	376227-B21
	HP 4x Fabric 1m Copper Cable	376232-B21
	HP 4x Fabric 3m Copper Cable	376232-B22
	HP 4x Fabric 5m Copper Cable	376232-B23
NOTE: For HPC interconnect adapters please refer to the HPC Interconnect section below.		

Rack Kits	1U Cable Management Arm	365403-B21
	NOTE: Package contains two cable management arms.	

Hard Drives	SATA - Non-Hot Plug	
	250-GB SATA 1.5Gb 7,200 rpm Hard Drive (1")*	349239-B21
	160-GB SATA 1.5Gb 7,200 rpm Hard Drive (1")*	349238-B21
	80-GB SATA 1.5Gb 7,200 rpm Hard Drive (1")	383410-B21
	U320 SCSI - Not-Hot Plug	
	36.4 GB 15,000 rpm, U320 Non-Hot Plug Hard Drive (1")	357012-B21
	72.8 GB 10,000 rpm, U320 Non-Hot Plug Hard Drive (1")	332751-B21
	146.8 GB 10,000 rpm, U320 Non-Hot Plug Hard Drive (1")	356990-B21
*NOTE: When deploying systems with either 160GB or 250 GB NHP SATA drives, you will need to remove the drive from the carrier shipped with the drive and install it into the drive carrier that ships with the server. Please see installation sheet for details.		

Options

Tape Drives

NOTE: The following tape drives are recommended for use with this HP ProLiant server. Additional HP tape drives are supported. For a complete listing of HP tape drive offerings supported with this HP ProLiant server, visit: <http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html>

USB Tape Drives

HP StorageWorks DAT 24 USB Tape Drive, External	DW070A
HP StorageWorks DAT 40 USB Tape Drive, External	DW023A
HP StorageWorks DAT 72 USB Tape Drive, External	DW027A

External and Rack-Mount DAT Drives

HP StorageWorks DAT 72 Tape Drive, External (Carbon)	Q1523B
HP StorageWorks 1U Rack-Mount Kit with one DAT 72 drive	A7443A

NOTE: Single drive installed in a 1U Rack-mount kit

External, Rack-Mount, and Array Module Ultrium Drives

HP StorageWorks Ultrium 232 Tape Drive, External	DW065A
HP StorageWorks Ultrium 448 External Tape Drive (carbonite)	DW017A
HP StorageWorks Ultrium 448 Rack-mount module (carbon)	DW028A
HP StorageWorks 1U Rack-Mount Kit with one Ultrium 215 drive	A7444A

NOTE: When attaching to an external tape drive, autoloader or jukebox, you must also purchase an HBA

Tape Autoloaders

NOTE: The following tape autoloaders and libraries are recommended for use with the HP ProLiant DL145 G2. Additional HP tape automation products are supported. For a complete listing of HP tape automation offerings supported with the HP ProLiant DL145 G2, visit <http://www.hp.com/go/automation> or <http://www.hp.com/go/ebs>

HP StorageWorks 1/8 Tape Autoloader

HP StorageWorks 1/8 Ultrium 448 Tape Autoloader	AF203A
HP StorageWorks 1/8 Ultrium 960 Tape Autoloader	AF204A
1/8 SDLT 320 Tape Autoloader, Tabletop	AA926A
1/8 DLT VS80 Tape Autoloader, Tabletop	C9264CB
1/8 Tape Autoloader Rack-mount Kit	C9268R

NOTE: Required to install the 1/8 tape autoloader in a standard 19-inch rack.

NOTE: Please reference the 1/8 Tape Autoloader QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

HP StorageWorks SSL1016 Tape Autoloader

HP StorageWorks SSL1016 Ultrium 460 Tape Autoloader	330821-B21
SSL1016 SDLT 320 Tape Autoloader	330816-B21

NOTE: Please reference the SSL1016 Tape Autoloader QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

NOTE: When attaching to an external tape autoloader or library, you must also purchase an HBA.

Options

Tape Libraries

HP StorageWorks MSL6000 Tape Library

Ultrium 960 technology

MSL6030, 1 drive, 30 slots, Ultrium 960 AD606A

MSL6030, 1 drive, 30 slots, Ultrium 960, with embedded FC router AD608A

MSL6060, 2 drive, 60 slots, Ultrium 960 AD610A

MSL6060, 2 drive, 60 slots, Ultrium 960, with embedded FC router AD611A

SDLT 600 technology

MSL6026, 1 drive, 26 slots, SDLT 600 AD582A

MSL6026, 1 drive, 26 slots, SDLT 600, with embedded FC router AD584A

MSL6052, 2 drive, 52 slots, SDLT 600 AD587A

MSL6052, 2 drive, 52 slots, SDLT 600, with embedded FC router AD588A

Ultrium 460 technology

MSL6030, 1 drive, 30 slots, Ultrium 460 AD598A

MSL6030, 1 drive, 30 slots, Ultrium 460, with embedded FC router AD600A

MSL6060, 2 drive, 60 slot Ultrium 460 AD603A

MSL6060, 2 drive, 60 slot Ultrium 460, with embedded FC router AD604A

NOTE: Please reference the MSL6000 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

HP StorageWorks ESL E-Series Tape Libraries

ESL Extended 712e Tape Library, 0 drive, 712 LTO slots AA934B

ESL Extended 630e Tape Library, 0 drive, 630 SDLT slots AA935B

ESL Extended 322e Tape Library, 0 drive, 322 LTO slots AA939B

ESL Extended 286e Tape Library, 0 drive, 286 SDLT slots AA940B

NOTE: Please reference the ESL E-Series Tape Libraries QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution. Reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks EML E-Series Tape Libraries

EML103eTape Library, 0 drive, 103 LTO slots AD560A

EML 245eTape Library, 0 drive, 245 LTO slots AD561A

NOTE: Please reference the EML E-Series Tape Libraries QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution. Reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks Virtual Library Systems

HP 6105 Virtual Library System AD728A

HP 6510 Virtual Library System AD729A

NOTE: Please reference the Virtual Library Systems QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution. Reference current compatibility information at <http://www.hp.com/go/ebs>.

Options

Magneto-Optical Jukeboxes	HP StorageWorks 9.1 GB Optical Jukeboxes 9100mx standalone drive NOTE: Please see the HP StorageWorks magneto-Optical Products data sheet for a listing of available jukeboxes at: http://www.hp.com/products1/storage/products/archivalprod/brochures/MO_family_pb.pdf NOTE: Please reference the Magneto-Optical Jukeboxes data sheets at: http://www.hp.com/go/optical for additional information needed to create a complete solution. NOTE: When attaching to an external optical drive or jukebox, you must also purchase an HBA.	C1114M
<hr/>		
Ultra Density Optical Jukeboxes	NOTE: The following ultra density optical drive and jukeboxes are recommended for use with the HP ProLiant DL145 G2. Additional HP optical products are supported. For a complete listing of HP optical offerings supported with the HP ProLiant DL145 G2, visit http://www.hp.com/go/optical HP StorageWorks 30ux standalone drive HP StorageWorks 700ux, 1 drive, 24 slot jukebox NOTE: Please see the HP StorageWorks Ultra Density Optical Jukeboxes QuickSpecs for a complete listing of available jukeboxes at: http://h18006.www1.hp.com/products/quickspecs/11944_div/11944_div.html NOTE: Please reference the Ultra Density Optical Jukebox QuickSpecs at http://www.hp.com/go/optical for additional information needed to create a complete solution NOTE: When attaching to an external optical drive or jukebox, you must also purchase an HBA.	AA961A AA962A
<hr/>		
Storage Controllers and I/O options	HP U320 Internal SCSI Cable Kit 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2 HP PL 100 SCSI RAID Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI HBA FCA2214 Single channel Fibre Channel HBA FCA2214DC Dual channel Fibre Channel HBA PCI Express Riser Board	385749-B21 374654-B21 355671-B21 268351-B21 281541-B21 321835-B21 378841-B21
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HP KVM Switch Options	HP 1x4 USB/PS2 KVM Switch, TT (NA/JPN) HP 1x4 USB/PS2 KVM Switch, TT (AU/NZ) HP 1x4 USB/PS2 KVM Switch, TT (UK) HP 1x4 USB/PS2 KVM Switch, TT (EU) HP 1x4 USB/PS2 KVM Switch, RM (ALL) HP PS2 KVM Cable with audio, 6', 2-pack HP USB KVM Cable with audio, 6', 2-pack	371301-D71 371301-011 371301-031 371301-A21 371302-B21 371730-B21 371729-B21

Options

USB Options	HP USB 2-Button Optical Scroll Mouse (Carbonite/Silver)	DC172B
	USB 1.44-MB External Diskette Drive	DC141B
	Multibay II DVD/CD-RW Combo Drive	PA850A
	NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (PN PA850A), the USB 2.0 Multibay II Cradle (PN PA509A) is required.	
	USB 2.0 Multibay II Cradle , External	PA509A
	NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive (P/N 850A), the USB 2.0 Multibay II Cradle (P/N PA509A) is required.	
	128MB HP Drive Key (USB 2.0)	DQ819B
256MB HP Drive Key II (USB 2.0)	PH657A	

Service and Support, HP Care Pack, and Warranty Information

Service and Support Offerings (HP Care Pack Services)	Hardware Services 4-Hour On-site Service	
	13-Hour x 5-Day Coverage, 3 Years, Electronic	U9509E
	24-Hour x 7-Day Coverage, 3 Years, Electronic	U9510E
	Hardware Services Next Business Day On-Site Service	
	9-Hour x 5-Day Coverage, 3 Years, Electronic	U9508E
	Hardware Services 6-Hour Call to Repair On-Site Service	
	6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	U9511E
	Hardware Installation, Electronic	U9520E
	NOTE: For more information, customer/resellers can contact http://www.hp.com/services/carepack .	

HPC Interconnects

HPTC Interconnect	InfiniBand	PCI-X and PCI-Express adapters
	Gigabit Ethernet	Use embedded ports
	Myrinet XP	PCI-X Rev D, Rev E and Rev F adapters
	Quadrics	PCI-X QSNNet II adapter

NOTE: High Performance Computing (HPC) interconnect technologies are available for the DL145 G2 under the Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPC Clusters with InfiniBand, Gigabit Ethernet or Myrinet Interconnects:

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

Memory

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

HP ProLiant DL145 G2 Single Processor Models

Standard Memory

1GB (2 x 512MB) or 2GB (2 x 1GB) of PC3200 DDR1 SDRAM running at 400MHz, with Advanced ECC capabilities Memory installed (depending on model).

Maximum Memory

Up to 16GB of memory is available with the removal of the standard 512MB or 1GB of memory and the optional installation of 2GB PC3200 Registered ECC DDR1 SDRAM DIMM Memory kits.

Memory Options

The server provides double data rate (DDR) synchronous dynamic RAM (SDRAM) that can improve memory clock speed to at least 400-MHz. It activates output on both the rising and falling edge of the system clock rather than on just the rising edge, potentially doubling output. The server features the following advanced memory technologies:

1. Support for up to 16 GB of industry-standard PC3200 registered ECC DDR1 SDRAM memory
2. Dual-Channel Memory Architecture

Memory Guidelines

1. Bank 1A must always be populated.
2. DIMMs must be installed in pairs and starting at the bank closest to the processor.
3. All DIMMs in a bank must have the same part number.
4. DIMMs on different banks can be of different sizes.
5. Processor 2 must be installed before banks 2A and 2B are populated.
6. If processor 2 is installed, it is recommended that bank 2A be populated before populating bank 1B.

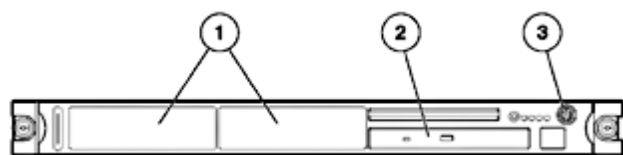
NOTE: Chart does not represent all possible memory configurations.

Memory	Slot							
	1	2	3	4	5	6	7	8
Standard (1GB)	512MB	512MB	Empty	Empty	Empty	Empty	Empty	Empty
Standard (2GB)	1GB	1GB	Empty	Empty	Empty	Empty	Empty	Empty
Maximum (16GB)	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB

Following are memory options available from HP:

1GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 512 MB)	376638-B21
2GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 1GB)	376639-B21
4GB of Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 2GB)	379300-B21

Storage



- 1 Two 1" Non-Hot Plug SATA or SCSI Hard Drive Bays
 - 2 Optional CD-ROM or DVD drive
 - 3 Power On/Off
- Number of drive positions to match table below.

Tape Drives, Tape Autoloaders, & Tape Libraries

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:

http://h18000.www1.hp.com/products/quickspecs/North_America/10233.html (North America)

<http://h18000.www1.hp.com/products/quickspecs/Division/10233.html> (Worldwide)

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Autoloaders and Tape Libraries listed below, please see the following:

http://h18000.www1.hp.com/products/quickspecs/North_America/10809.html (North America)

<http://h18000.www1.hp.com/products/quickspecs/Division/10809.html> (Worldwide)

NOTE: For complete listing of tape drive offerings see

<http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html>

For supported tape drive offerings for this ProLiant server see the following:

	Quantity Supported	Position Supported	Controller
HP StorageWorks Tape Drives, USB External DAT 24 USB DAT 40 USB DAT 72 USB	1	External	USB 2.0 port
HP StorageWorks Tape Drives, External Ultrium 215 Ultrium 230 Ultrium 232 Ultrium 448 Ultrium 460 DAT 24 DAT 40 DAT 72 DLT VS80 DLT VS160 SDLT 320	1 per SCSI channel	External	64-Bit/133MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2
HP StorageWorks Tape Drives, External Ultrium 960 SDLT 600	1	External	64-Bit/133MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2
HP StorageWorks Autoloaders, External DAT 72x6 Tape Autoloader	1 autoloader per SCSI channel	External	64-Bit/133MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2

Storage

HP StorageWorks Rack-mount Tape Drive Enclosures 1U Rack-Mount Kit 3U Rack-Mount Kit 5U Rack-Mount Kit	1 per SCSI channel	External	64-Bit/133MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2
HP StorageWorks ESL E-Series Tape Libraries ESL 712e ESL 630e ESL 322e ESL 286e	Please reference the ESL E-series Tape Libraries QuickSpecs to determine configuration requirements	External	Please reference the ESL E-series Tape Libraries QuickSpecs to determine configuration requirements
HP StorageWorks EML E-Series Tape Libraries EML 103e EML 245e	Please reference the EML E-Series Tape Libraries QuickSpecs to determine configuration requirements	External	Please reference the ESL E-series Tape Libraries QuickSpecs to determine configuration requirements
HP StorageWorks Virtual Library System 6105 VLS 6510 VLS	Please reference the ESL E-series Tape Libraries QuickSpecs to determine configuration requirements	External	Please reference the ESL E-series Tape Libraries QuickSpecs to determine configuration requirements

Power Specifications

Spare Kit	389322-001
Operational Input Voltage Range (Vrms)	90Vac to 264Vac full range at 25oC ambient
Frequency Range (Nominal) (Hz)	47 Hz to 63 Hz
Power Output	500W Nominal
Power Cords (Nema 5-15P to IEC320-C13)	
Standard Power Cord Part Number (US)	307348-B21
Optional Power Cord Part Number (US)	307372-001

Technical Specifications

System Unit	Dimensions (HxWxD)	1.70 x 16.78 x 26.75 in (4.32 x 42.62 x 67.95 cm)		
	Weight (approximate; fully configured)	35 lb (15.87 kg)		
	Input Requirements (per power supply)	Range Input Voltage	90 to 140 VAC/180 to 264 VAC	
		Normal Line Voltage	115 or 230 VAC	
	Line Frequency	47 to 63 Hz		
	Rated Input Current load	7.1A at 115VAC, 3.6A at 230VAC		
	BTU Rating	BTU-Hr (max configuration)	2371	
	Power Supply Output Power (per power supply)	Rated Steady-State Power	500W	
		Temperature Range	Operating	50° to 93° F (10° to 35° C)
	Shipping		-40° to 140° F (-40° to 60° C)	
	Relative Humidity (non-condensing)	Operating	10% to 80%	
		Non-operating	10% to 95%	
	Acoustic Noise	Idle (Fixed Disk Drives Spinning)	L WAd (BELS)	6.31
			Operating (Random Seeks to Fixed Disks)	L WAd (BELS)

Non-Hot Plug SATA Hard Drives	80 GB 7.2K 349237-B21	Capacity	80027 MB	
		Height	1.028 in (2.61 cm)	
		Width	4.0 in (10.16 cm)	
		Interface	SATA 100	
		Transfer Rate Synchronous (Maximum)	100 MB/s	
		Seek Time (typical reads, including settling)	Single Track	
			Average	
			Full-Stroke	
		Physical Configuration	Rotational Speed	
			Bytes/Sector	
	Logical Blocks			
	Operating Temperature	41° to 131° F (5° to 55° C)		

Technical Specifications

Non-Hot Plug U320 SCSI Hard Drive 36.4GB 15K 357012-B21

Capacity	36419.2 MB	
Height	1.0 in/2.54 cm	
Width	4.0 in/10.16 cm	
Interface	Ultra320 SCSI	
Seek Time (typical reads, including settling)	Single Track	0.4 ms
	Average	3.8 ms
	Full-Stroke	8ms
Physical Configuration	Rotational Speed	15,000 rpm
	Bytes/Sector	512
	Logical Blocks	71,132,000
Operating Temperature	50° to 95° F (10° to 35° C)	

Embedded SATA Controller

Drives Supported	Up to 2 SATA devices
Channels	2 (SATA Drives)
Storage Capacity	500 GB internal storage
Data Transfer Method	32-bit/33-MHz PCI bus-master
Maximum SATA Channel Transfer Rate	100 MB/s per channel
Maximum Transfer Rate per PCI Bus (peak)	266 MB/s per channel
Protocols	SATA
	PIO Mode[0-4]
Cable	SATA
Internal ATA Connectors	Two SATA Connectors (primary and secondary)

64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2 (SCSI Model Standard) 374654-B21

Drives Supported	Up to 14 SCSI devices (only supports 2 internal SCSI drives on DL145 G2)
Channels	1
Storage Capacity	292 GB internal storage
Data Transfer Method	64-bit/133-MHz PCI-X bus-master
Maximum Host Bus Transfer Rate	532 MB/s per channel
Maximum SCSI Transfer Rate	320 MB/s per channel
Protocols	Ultra320 SCSI
	Ultra3 SCSI
	Wide Ultra2 SCSI
	Ultra SCSI
External SCSI Connector	One 68-Pin VHDCI connectors
Internal SCSI Connector	HP U320 Internal SCSI Cable Kit (See Storage Controller and I/O Options)

Technical Specifications

Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)	Network Interface	10Base-T/100Base-TX/1000Base-TX	
	Compatibility	IEEE 802.3 10Base-T	
		IEEE 802.3 1000Base-T	
		IEEE 802.3 100Base-TX	
	Data Transfer Method	64-bit, 133MHz PCI(X)1.0	
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s
		10Base-T (Full-Duplex)	20 Mb/s
100Base-TX (Half-Duplex)		100 Mb/s	
100Base-TX (Full-Duplex)		200 Mb/s	
1000Base-TX (Half and Full-Duplex)		2000 Mb/s	
Connector	RJ-45		
Cable Support	10Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)	
	10/100/1000Base-TX	Category 5 UTP (2 Pair); up to 328 ft (100 m)	

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