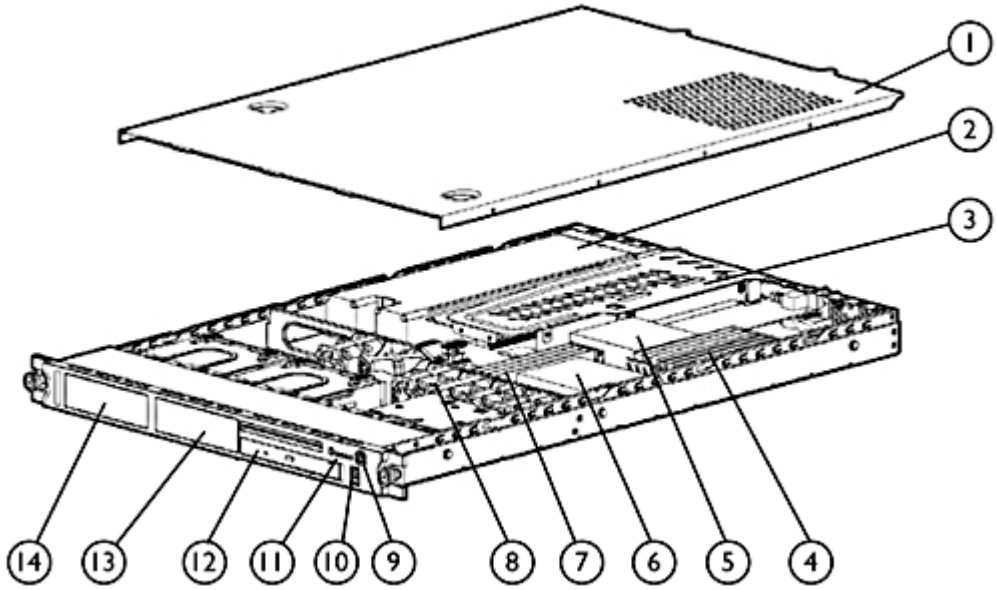
Overview



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 8 GB PC3200 DDR1 SDRAM
5. Processor 1
6. Processor 2
7. Memory Bank 2A & 2B, supporting up to 8 GB 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 1 GHz HyperTransport Technology

Overview

At A Glance

- Processors:
  - AMD 8132 Chipset for PCI-X support and NVIDIA nForce Professional 2200 MCP for PCI Express
- Memory:
  - 1 or 2 GB of PC3200 DDR SDRAM running at 400 MHz with Advanced ECC capabilities standard (depending on model), expandable to 16 GB
- Storage Controller:
  - Integrated Dual Broadcom 10/100/1000 5721 NICs (Wake on LAN and PXE capable)
  - Embedded SATA Controller
- Internal Drive Support:
  - Support for up to two SATA and or SCSI Non Hot Plug hard drives
  - Internal storage capacity of up to 1TB (2 x 500GB non-hot plug 2.5" SATA HDDs), or 292GB (2 x 146GB NHP SCSI HDDs)
- Network Controller:
  - Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)
- Expansion Slots:
  - 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
- USB Ports:
  - Four USB ports (two rear, two front)
- Optical Drives:
  - Optional DVD- or CD-ROM drive
- Power Supply:
  - 500W Power Supply (Non-Hot Plug, autoswitching)
- Form Factor:
  - Rack Mount (1U)
- Management:
  - HP ProLiant Lights Out 100i Remote Management standard
  - IPMI 2.0 support
  - ROM Setup Utility
- Warranty:
  - Protected by HP Services, including a one-year, limited warranty, Parts only 1 year limited Global warranty - Certain restrictions and exclusions apply.

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 285 (2.6 GHz/1MB) dual-core processor supporting 1 GHz HyperTransport Technology AMD Opteron Model 275 (2.2 GHz/1MB) dual-core processor supporting 1 GHz HyperTransport Technology AMD Opteron Model 252 (2.6 GHz/1MB) single-core processor supporting 1 GHz HyperTransport Technology AMD Opteron Model 248 (2.2 GHz/1MB) single-core processor supporting 1 GHz HyperTransport Technology AMD Opteron Model 246 (2.0 GHz/1MB) single-core processor supporting 1 GHz HyperTransport Technology		
Cache Memory	1MB Level 2 cache memory per core		
Upgradeability	Upgradeable to dual processing		
Chipset	AMD 8132 Chipset for PCI-X support and NVIDIA nForce Professional 2200 MCP for PCI Express		
Memory Protection	Advanced ECC capabilities		
Memory One of the following depending on Model	Type	PC3200 DDR SDRAM running at 400 MHz	
	Standard	1 GB NOTE: Available with 2.0 & 2.2GHz single core models.	(2 x 512 MB)
		2 GB NOTE: Available with 2.6 single core models and all dual core models (2.2 & 2.6).	(2 x 1 GB)
	Maximum	16 GB	(8 x 2 GB)
Network Controller	Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)		

Standard Features

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	
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 SATA (non-hot plug) 36-GB 15,000 rpm, Ultra NHP SCSI Drives (all non-hot plug)

Maximum Internal Storage (Depending on model)	SATA	1TB	2 x 500GB
	SCSI	292GB	2 x 146GB

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) NOTE: Please see the following URL for additional information regarding USB support: http://h18004.www1.hp.com/products/servers/platforms/usb-support.html.
	Network RJ-45 (Ethernet)	2

Graphics	Integrated NVIDIA GeForce2 GPU with 16MB DDR video memory
Form Factor	Rack Mount (1U)

Standard Features

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. • Rapid Deployment Pack (RDP) is an automated deployment and provisioning solution for all ProLiant servers. RDP includes the ProLiant Integration Module featuring ProLiant server pre-configured events for OS installation, and optimized software drivers, firmware and management agents. Every RDP disc includes 10-node trial licenses for evaluation purposes. RDP requires a license for each server deployed and is available for purchase with HP servers. For more information, visit: http://www.hp.com/servers/rdp. • 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.
Industry Standard Compliance	ACPI V2.0 Compliant PCI 2.2 Compliant PXE Support WOL Support Microsoft® Logo certifications IPMI 2.0 Compliant	
Manageability	HP ProLiant Lights Out 100i Remote Management integrated standard	
Security	Power-on password Setup password	
Server Power Cords	One 10' Highline IEC Power cord ships standard (for connection to a Power Distribution Unit). NOTE: Rack models ship standard with a 10' IEC cable.	

Standard Features

UPS and PDU Power Cord Matrix	Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and specifications for UPS and PDU units: ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.
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 Enterpise Linux SUSE Linux 8 Enterprise Server Solaris 10 32/64-bit 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: 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 NOTE: For more Linux OS support & certification information, please visit our the ProLiant & Bladesystem Server Linux matrix http://h18004.www1.hp.com/products/servers/linux/hpLinuxcert.html

Standard Features

Rack Airflow Requirements

Rack 10000 series Cabinets
The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 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 5,350 sq cm (830 square inches) 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 7 cm (2.75 inches)

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

NOTE: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: http://h18000.www1.hp.com/products/servers/proliantdl140/index.html

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, 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 eCo-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.

Standard Features

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: Server Warranty includes 1 year Parts only. Additional information regarding worldwide limited warranty and technical support is available at:
http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html

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.

HP services provide continuous care and support expertise with committed response designed to meet your IT and business needs.

To fully capitalizing on your HP ProLiant servers' capabilities requires a service partner who thoroughly understands your server technology and systems environment. HP Services, an industry leader in provision of multi vender support solutions provides a range of support services designed to meet the varying needs of business. Whether an SMB or large global corporation HP has a ProLiant server support offer to help you speedily deploy and maximize system uptime.

Enhanced Care – Minimum recommended service support offer designed to ensure customers have access to expert assistance, whenever they need it.

- *Next Business Day on site coverage, 3 Years*

Continuance Care – Recommended service, delivering cost-effective support options designed to extend HP Services committed response and guaranteed fix times, designed to speed problem identification and resolution.

- *4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years*

Total Care – Highest HP Support service level recommend to help increase IT performance and availability with comprehensive, integrated hardware and software services

- *4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years*

Deployment Services – HP Installation and Start Up services designed to take time, risk, and worry out of the deployment of ProLiant servers – and free customers IT support staff to focus on what they do best, their business.

- *Installation of a ProLiant server as per Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays*

For a complete listing of service offerings and information visit:
http://www.hp.com/services/proliantservices
http://www.hp.com/go/proliant/carepack

HPC Interconnects

NOTE: High Performance Computing (HPC) interconnect technologies are available for the DL145 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

HPC Interconnects	InfiniBand	PCI-X and PCI-Express adapters
	Gigabit Ethernet	Use embedded ports
	Myrinet XP	PCI-X Rev D and Rev E adapters

Models

Dual-Core Models

ProLiant DL145 G2 2.6GHz /1MB Opteron DC 2GB 80GB NHP SATA 411095-001	Processor	AMD Opteron Model 285 (2.6 GHz/1MB) processor (Dual-Core)
	Cache Memory	1MB L2 cache per core
	Memory	2 GB (2 x 1 GB) PC3200 DDR1 SDRAM running at 400 MHz, 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	80GB NHP SATA (non-hot plug)
	Internal Storage	1TB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)
ProLiant DL145 G2 2.6GHz /1MB Opteron DC 2GB 36GB NHP SCSI 411094-001	Processor	AMD Opteron Model 285 (2.6 GHz/1MB) processor (Dual-Core)
	Cache Memory	1MB L2 cache per core
	Memory	2 GB (2 x 1 GB) PC3200 DDR1 SDRAM running at 400 MHz, 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 15,000 Ultra 320 NHP SCSI
	Internal Storage	292GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)
ProLiant DL145 G2 2.2GHz /1MB Opteron DC 2GB 80GB NHP SATA 390846-001	Processor	AMD Opteron Model 275 (2.2 GHz/1MB) processor (Dual Core)
	Cache Memory	1MB L2 cache per core
	Memory	2 GB (2 x 1 GB) PC3200 DDR1 SDRAM running at 400 MHz, 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	80GB NHP SATA (non-hot plug)
	Internal Storage	1TB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

Models

ProLiant DL145 G2 2.2GHz/1MB Opteron DC 2GB 36GB NHP SCSI 390845-001	Processor	AMD Opteron Model 275 (2.2 GHz/1MB) processor (Dual-Core)
	Cache Memory	1MB L2 cache per core
	Memory	2 GB (2 x 1GB) PC3200 DDR1 SDRAM running at 400 MHz, 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 15,000 Ultra 320 NHP SCSI
	Internal Storage	292GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

Single-Core Models

ProLiant DL145 G2 2.6GHz/1MB Opteron 2GB 80GB NHP SATA 377888-001	Processor	AMD Opteron Model 252 (2.6 GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	2 GB (2 x 1 GB) PC3200 DDR1 SDRAM running at 400 MHz, 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	80GB NHP SATA (non-hot plug)
	Internal Storage	1TB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

ProLiant DL145 G2 2.6GHz/1MB Opteron 2GB 36GB NHP SCSI 377887-001	Processor	AMD Opteron Model 252 (2.6 GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	2 GB (2 x 1 GB) PC3200 DDR1 SDRAM running at 400 MHz, 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 15,000 rpm Ultra 320 NHP SCSI
	Internal Storage	292GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

Models

ProLiant DL145 G2 2.2GHz/1MB Opteron 1GB 80GB NHP SATA 377886-001	Processor	AMD Opteron Model 248 (2.2 GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	1 GB (2 x 512 MB) PC3200 DDR1 SDRAM running at 400 MHz, 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	80GB NHP SATA (non-hot plug)
	Internal Storage	1TB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)
ProLiant DL145 G2 2.2GHz/1MB Opteron 1GB 36GB NHP SCSI 377885-001	Processor	AMD Opteron Model 248 (2.2 GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	1 GB (2 x 512 MB) PC3200 DDR1 SDRAM running at 400 MHz, 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 15,000 rpm Ultra 320 NHP SCSI
	Internal Storage	292GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)
ProLiant DL145 G2 2.0GHz/1MB Opteron 1GB 80GB NHP SATA 377884-001	Processor	AMD Opteron Model 246 (2.0 GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	1 GB (2 x 512 MB) PC3200 DDR1 SDRAM running at 400 MHz, 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	80GB NHP SATA (non-hot plug)
	Internal Storage	1TB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

Models

ProLiant DL145 G2 2.0GHz/1MB Opteron 1GB 36GB NHP SCSI 377883-001	Processor	AMD Opteron Model 246 (2.0 GHz/1MB) processor
	Cache Memory	1MB L2 cache
	Memory	1 GB (2 x 512 MB) PC3200 DDR1 SDRAM running at 400 MHz, 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 15,000 rpm Ultra 320 NHP SCSI
	Internal Storage	292GB maximum (with optional hard drive)
	Form Factor	Rack Mount (1U)

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.
NOTE: FIO indicates that this option is a Factory Installable Option.

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)

Base Processors	AMD O285 2.6 GHz/1MB DL145 G2 FIO BASE NOTE: If 2 processors are desired, select one 411097-L21and one 411097-B21.	411097-L21
	AMD O280 2.4 GHz/1MB DL145 FIO BASE NOTE: If 2 processors are desired, select one 399444-L21and one 399444-B21.	399444-L21
	AMD O275 2.2 GHz/ 1MB DL145 G2 FIO BASE NOTE: If 2 processors are desired, select one 391782-L21and one 391782-B21.	391782-L21
	AMD O254 2.8 GHz/1MB DL145 G2 FIO BASE NOTE: If 2 processors are desired, select one 396861-L21and one 396861-B21.	396861-L21
	AMD O252 2.6 GHz/1MB DL145 G2 FIO BASE NOTE: If 2 processors are desired, select one 378690-L21and one 378690-B21.	378690-L21
	AMD O248 2.2 GHz/1MB DL145 G2 FIO BASE NOTE: If 2 processors are desired, select one 379259-L21and one 379259-B21.	379259-L21

Configuration Information - Factory Integrated Models

	AMD O246 2.0 GHz/ 1MB DL145 G2 FIO BASE NOTE: If 2 processors are desired, select one 378755-L21and one 378755-B21.	378755-L21
Base Memory	1 GB PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 512 MB)	376638-B21
	2 GB PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 1 GB)	376639-B21
	4 GB PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 2 GB)	379300-B21
Hard Drives	SATA Non-Hot Plug	
	HP 80GB 1.5G SATA 7.2K NHP 3.5" HDD	383410-B21
	HP 160GB 1.5G SATA 7.2K NHP 3.5" HDD	411275-B21
	HP 250GB 1.5G SATA 7.2K NHP 3.5" HDD	411276-B21
	HP 500GB 1.5G SATA 7.2K NHP 3.5" HDD, FIO*	404469-B21
	NOTE: * Factory Integrated Only	
	U320 SCSI Non-Hot Plug	
	HP 36GB U320 15K NHP HDD	357012-B21
	HP 72GB U320 10K NHP HDD	332751-B21
	HP 146GB U320 10K NHP HDD	356990-B21
Storage Controller	HP Low Profile U320 SCSI HBA, FIO NOTE: Must select this HBA when selecting the SCSI Rack Chassis, (P/N 378024-405)	390402-B21

Step 3: Choose Additional Options for Factory Integration

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

Controllers	HP Single Channel U320 SCSI Controller	374654-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 NOTE: For use with a single server. Contains one license with a unique license activation key and documentation.	372906-B21
	ProLiant Essentials Intelligent Networking Pack Linux Edition, Single Server License . NOTE: For use with a single server. Contains one license with a unique license activation key and documentation.	436229-B21
	NOTE: For additional ProLiant Intelligent Networking Pack License Kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12062_na/12062_na.HTML http://h18000.www1.hp.com/products/quickspecs/12327_na/12327_na.HTML	
	ProLiant Essentials Rapid Deployment Pack Windows	
	Rapid Deployment Pack, Single-Server License NOTE: This license allows 1 server to be deployed and managed via RDP.	267196-B21
	NOTE: For additional ProLiant Essentials Rapid Deployment Pack License Kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11053_na/11053_na.HTML	
	ProLiant Essentials Vulnerability and Patch Management Pack	
	ProLiant Essentials Vulnerability and Patch Management Pack, Single-Server License	371645-B21
	NOTE: For additional ProLiant Vulnerability and Patch Management Pack License Kits, please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12111_na/12111_na.HTML	
	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.	
Processor	AMD O285 2.6 GHz/1MB Dual-Core Processor Option Kit	411097-B21
	AMD O280 2.4 GHz/1MB Dual-Core Processor Option Kit	399444-B21
	AMD O275 2.2 GHz/1MB Dual-Core Processor Option Kit	391782-B21
	AMD O270 2.0 GHz/1MB Dual-Core Processor Option Kit	393300-B21
	AMD O254 2.8 GHz/1MB Single-Core Processor Option Kit	396861-B21
	AMD O252 2.6 GHz/1MB Single-Core Processor Option Kit	378690-B21
	AMD O248 2.2 GHz/1MB Single-Core Processor Option Kit	379259-B21
	AMD O246 2.0 GHz/1MB Single-Core Processor Option Kit	378755-B21
Memory (DIMMs)	1 GB Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 512 MB)	376638-B21
	2 GB Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 1 GB)	376639-B21
	4 GB Advanced ECC PC3200 DDR1 SDRAM DIMM Memory Kit (2 x 2 GB)	379300-B21

Options

Hard Drives	SATA - Non-Hot Plug	
	HP 80GB 1.5G SATA 7.2K NHP 3.5" HDD	383410-B21
	HP 160GB 1.5G SATA 7.2K NHP 3.5" HDD	411275-B21
	HP 250GB 1.5G SATA 7.2K NHP 3.5" HDD	411276-B21
	NOTE: When purchasing systems with the 500GB NHP SATA drives, please reference the Configuration Information Section of this QuickSpecs to order via Configuration to Order.	
	U320 SCSI - Not-Hot Plug	
	HP 36GB U320 15K NHP HDD	357012-B21
	HP 72GB U320 10K NHP HDD	332751-B21
	HP 146GB U320 10K NHP HDD	356990-B21
Optical Drives	DVD-ROM Drive	361040-B21
	CD-ROM Drive	349046-B21
	Multibay II DVD/CD-RW Combo Drive NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (PN PA850A), the USB 2.0 Multibay II Cradle (PN PA509A) is required.	PA850A
	USB 2.0 Multibay II Cradle , External 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.	PA509A
Storage Controllers and options	HP U320 Internal SCSI Cable Kit	385749-B21
	64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2	374654-B21
	HP 8 Internal Port SAS HBA with RAID NOTE: For use with SATA drives only	347786-B21
	HP SATA/SAS 1U Cable Kit NOTE: For use with SATA drives only	398307-B21
	HP PL 100 SCSI RAID Controller	355671-B21
	HP PCI Express Riser Board Kit	378841-B21

Options

Communications	HP NC150T PCI 4-port Gigabit Combo Switch Adapter	367132-B21
	HP NC310F PCI-X 1000SX Gigabit Server Adapter	368169-B21
	HP NC320T PCI Express Gigabit Server Adapter	367047-B21
	HP NC340T PCI-X Quad-Port Gigabit Server Adapter	391661-B21
	HP NC360T PCI Express Dual Port Gigabit Server Adapter	412648-B21
	HP NC370F PCI-X Multifunction Gigabit Server Adapter	374193-B22
	HP NC370T PCI-X Single Port Multifunction Gigabit Server Adapter	374191-B22
	HP NC373F PCI Express Multifunction Gigabit Server Adapter	394793-B21
	HP NC373T PCI Express Multifunction Gigabit Server Adapter	394791-B21
	HP NC380T PCI Express Dual Port Multifunction Gigabit Server Adapter	394795-B21
	HP NC510F PCIe 10 Gigabit Server Adapter NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.	414126-B21
	HP NC510C PCIe 10 Gigabit Server Adapter NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.	414129-B21
	HP NC1020 PCI Single Gigabit Server Adapter	353377-B21
	HP NC7170 PCI-X Dual Port Gigabit Server Adapter (full height)	313881-B21
	HP NC7170 PCI-X Dual Port, Low Profile Gigabit Server Adapter	383738-B21
	HP NC7771 PCI-X Single Gigabit Server Adapter	290563-B21
	NOTE: A minimum of 1 GB of memory per port is required for NC370x adapters, with a maximum of two NC370x ports permitted in a server. NOTE: For HPC interconnect adapters please refer to the HPC Interconnect section below.	
Rack Kits	1U Cable Management Arm NOTE: Package contains two cable management arms.	365403-B21
Tape Drives	NOTE: A separate SCSI Controller is required for connecting SCSI tape drives to this server. 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 External Tape Drive, (Carbonite)	DW070A
	HP StorageWorks DAT 40 USB External Tape Drive, (Carbonite)	DW023A
	HP StorageWorks DAT 72 USB External Tape Drive, (Carbonite)	DW027A
	DAT External Tape Drives	
	HP StorageWorks DAT 40 SCSI External Tape Drive (Carbon)	C5687D
	HP StorageWorks DAT 72 SCSI External Tape Drive (Carbon)	Q1523B
	Ultrium External Tape Drives	
	HP StorageWorks Ultrium 232 External Tape Drive (Carbonite)	DW065B

Options

	Rack-Mount Tape Drive	
	HP StorageWorks 1U Rack-mount kit NOTE: The 1U Rack-mount Kit (PN A7445A) can support up to (2) half-height tape drives and compatible with multiple Single-Ended and LVD SCSI tape drives including the DAT 24, DAT 40, DAT 72, DLT VS80, DLT VS160, Ultrium 215, Ultrium 232 and Ultrium 448 tape drives.	A7445B
	1U USB Cable Option Kit NOTE: Converts a 1U SCSI rack-mount kit to a USB interface to support the USB tape drives. NOTE: When attaching to an external tape drive, autoloader or jukebox, you must also purchase an HBA NOTE: For a complete listing of HP tape drive offerings supported with the DL145 G2, visit http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html	396114-B21
StorageWorks Options	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	
	HP StorageWorks FC2142SR 4Gb PCI-e HBA	A8002A
	HP StorageWorks FC2242SR Dual Channel 4 Gb PCI-e HBA	A8003A
	HP StorageWorks FC1142SR 4Gb PCI-e HBA	AE311A
	HP StorageWorks FC1242SR Dual Channel 4 Gb PCI-e HBA	AE312A
	HP StorageWorks FC2143 4Gb PCI-X 2.0 - to Fibre Channel HBA	AD167A
	HP StorageWorks FC2243 Dual Channel 4Gb PCI-X 2.0 HBA	AD168A
HP Data Protector Express Software	HP DP Express Backup Server Upgrade for ProLiant Software	BB117AP
	HP DP Express Package for Microsoft Small Business Server	BB118AA
	NOTE: Please see the HP Data Protector Express QuickSpecs for additional information regarding the purchase of HP Data Protector Express software: http://h18000.www1.hp.com/products/quickspecs/12337_na/12337_na.html NOTE: To obtain a free licensed copy of HP Data Protector Express for ProLiant edition software, please visit the "Protect Your Data" link accessible from your ProLiant server's System Management Homepage (SMH) software (SmartStart 7.5 or later).	
USB Options	HP USB 2-Button Optical Scroll Mouse (Carbonite/Silver)	DC172B
	HP USB 04 Standard Keyboard	DT528A#ABA
	USB 2.0 4-port HUB	DG954A
	HP 1GB Drive Key II – USB 2.0 Flash Drive	AG382AA
	HP 512MB DriveKey II – USB Flash Drive	ED516AA
	128MB HP Drive Key (USB 2.0)	DQ819B
	256MB HP Drive Key II (USB 2.0)	PH657A

Options

HP KVM Switch Options	HP 1x4 Server Console Switch	AF611A
	HP PS2 Server Console Cable, 6 foot, 2-Pack	AF612A
	HP USB Server Console Cable, 6 foot, 2-Pack NOTE: required for supporting USB peripherals.	AF613A
	NOTE: For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: http://www.hp.com/go/kvm	
HP Serial Console Server Options	HP 16 Port Serial Console Server	AF101A
	HP 48 Port Serial Console Server	AF102A
	Serial Adapter, RJ45-D89 DCE Female, 1-pack	AF103A
	Serial Adapter, RJ45-D89 DCE Female, 8-pack	AF110A
	NOTE: Cat5e cables are required to connect Interface Adapters to Console Switches. Cat5e cables can be found at the following URL: http://www.hp.com/go/kvm	
	2x1x16 IP Console Switch with Virtual Media	AF601A
	4x1x16 IP Console Switch with Virtual Media	AF602A
	2x16 Server Console Switch with Virtual Media	AF600A
	PS/2 Virtual Media Interface Adapter, 1 pack NOTE: Requires PS/2 and one USB port on server.	AF604A
	NOTE: For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: http://www.hp.com/go/kvm	

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.	

Memory

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

HP ProLiant DL145 G2 Single Processor Models

Standard Memory

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

Maximum Memory

Up to 16 GB of memory is available with the removal of the standard 512 MB or 1 GB of memory and the optional installation of 2 GB 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 farthest from the processor. Populate the SMALLEST DIMMs first.
3. If only installing 1 GB DIMMs, ensure that the Dual Rank DIMMs are installed closest to the processor. Dual Rank can be determined by looking for the "2R" or "2Rx8" wording on the label of the DIMM.
4. All DIMMs in a bank must have the same part number.
5. DIMMs on different banks can be of different sizes.
6. Processor 2 must be installed before banks 2A and 2B are populated.
7. If processor 2 is installed, it is recommended that bank 2A be populated before populating bank 1B.
8. For optimum performance it is recommended that a minimum of banks 1A and 1B be populated in a 2P configuration.

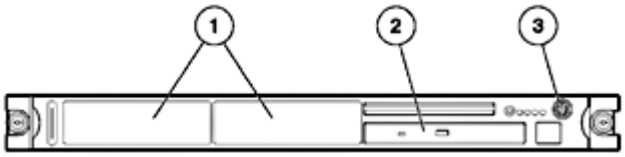
NOTE: Chart does not represent all possible memory configurations.

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

Following are memory options available from HP:

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

Drive Support

Removable Media

	Quantity Supported	Position Supported	Controller
DVD-ROM Drive	Up to 1	2	8x IDE (ATAPI) DVD-ROM drive, slim (optional)
CD-ROM Drive	Up to 1	2	24x IDE (ATAPI) CD-ROM drive (optional)
Multibay II DVD/CD-RW Combo Drive	Up to 1	2	24x IDE (ATAPI) CD-ROM drive (optional)

NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (PN PA850A), the USB 2.0 Multibay II Cradle (PN PA509A) is required.

Hard Drives (SCSI Models only)

Ultra320 SCSI

	Quantity Supported	Position Supported	Controller
36GB 72GB 146GB	Up to 2	1	U320 Single Channel PCI-X controller (in low profile slot)

Hard Drives (SATA Models)

7,200 rpm SATA

	Quantity Supported	Position Supported	Controller
80GB 160GB 250GB 500GB*	Up to 2	1	Embedded SATA Controller

NOTE: * Available via CTO only.

Storage

Maximum Storage Capacity – SCSI Models

Internal	292GB (2 x 146GB SCSI hard drives)
Total	292GB (2 x 146GB SCSI hard drives)

Maximum Storage Capacity – SATA Models

Internal	500GB (2 x 250GB SATA hard drives)
Total	500GB (2 x 250GB SATA hard drives) or 1TB (2 x 500GB SATA drives – via CTO only)

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

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

NOTE: For complete listing of tape drive offerings see
http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html

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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 232 DAT 40 DAT 72	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 Rack-mount Tape Drive Enclosures 1U 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

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	307348-B21
Optional Power Cord Part Number	307372-001

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)	6.32

NOTE: All temperature ratings shown are for sea level. An altitude derating of 1.8° F per 1,000 ft (1° C per 304.8 m) to 10,000 ft (3048 m) is applicable. No direct sunlight allowed. Upper operating limit is 10,000 ft (3048 m) or 70 Kpa/10.1 psia. Upper non-operating limit is 30,000 ft (9144 m) or 30.3KPa/4.4 psia. System performance may be reduced if operating with a fan fault or above 30° C.

NOTE: Storage maximum humidity of 90% is based on a maximum temperature of 113° F (45° C). Altitude maximum for storage corresponds to a pressure minimum of 70 KPa.

Non-Hot Plug SATA Hard Drives	80-GB 7.2K 383410-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
			Rotational Speed
		Physical Configuration	Bytes/Sector
			Logical Blocks
		Operating Temperature	41° to 131° F (5° to 55° C)

Non-Hot Plug U320 SCSI Hard Drive	36.4-GB 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
			Rotational Speed 15,000 rpm
		Physical Configuration	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	1 TB 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)

Technical Specifications

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)

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