Overview

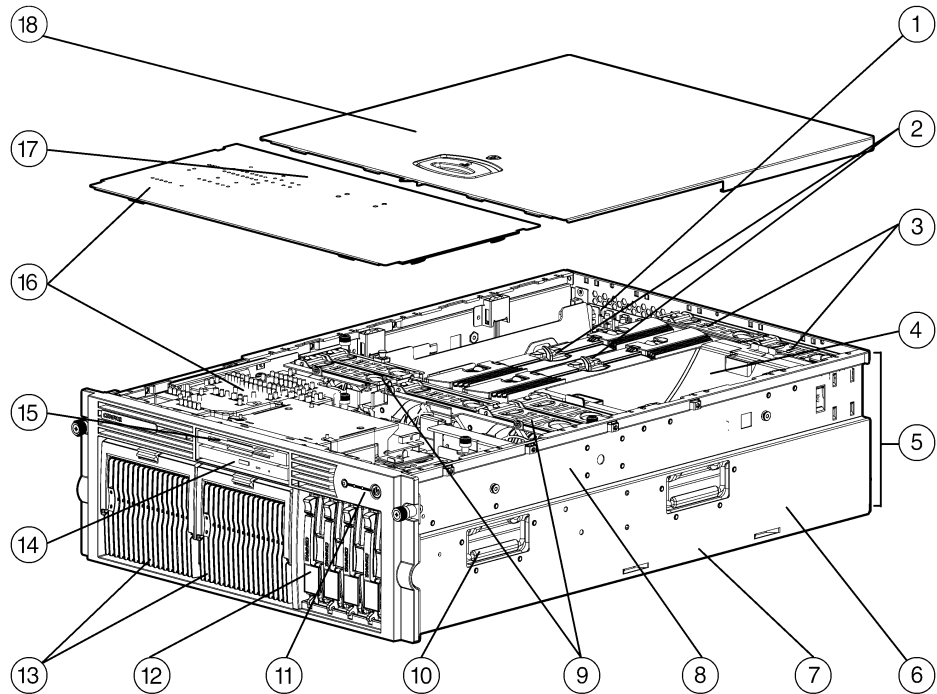### What's New
- Intel® Xeon™ Processors MP at 2.0 GHz/2MB or 1.5 GHz/1MB.

At A Glance
- Next generation DL580 G2 delivers maximum performance and unprecedented availability in a flexible, rack optimized form factor
- Intel Xeon Processors MP at 2.0 GHz/2M, 1.9GHz/1M, 1.5GHz/1M, 1.60 GHz/1MB or 1.40 GHz/512KB
- ServerWorks Grand Champion-HE chipset
- 4x1 interleaved memory, 200MHz DDR SDRAM Memory (PC1600 Registered SDRAM with Advanced ECC functionality)
- 2048 MB (2P Models) or 1024 MB (1P Model) standard memory, expandable to 32 GB
- HP Advanced Memory Protection (Online Spare, Single Board Mirrored Memory, Hot Plug Mirrored Memory)
- Six, full length 64-bit/100 MHz PCI-X slots, 4 Hot Pluggable
- Integrated Lights-Out Standard Management (iLO) on system board
- Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot
- Integrated Smart Array 5i Plus Controller (Dual Channel, Ultra3) with 64-MB total memory on 5i Plus Memory Module
- Battery-Backed Write Cache Enabler module on all 2P models (optional on 1P model)
- Internal Hot Plug Drive Storage of up to 587.2 GB (4 x 146.8-GB 1″ Wide Ultra3 SCSI hard drives)
- Redundant Cooling Zones for major subsystems (Memory, I/O, CPUs) assure 7x24 cooling
- Toolless and virtually cable-less internal design
- Innovative diagnostic lighting (QuickFind Diagnostic Display) for rapid response to service events
- Rapid Deployment racking solution (rack rails and cable management)
- Protected by HP Services, including a three-year, Next Business Day on-site, limited, Global warranty and extended Pre-Failure Warranty that covers processors, memory and disk drives — Certain restrictions and exclusions apply. Consult the HP Customer Support Center at 1-800-345-1518 for details.

1. Six 64-bit/100-MHz PCI-X I/O Slots (Four Hot Plug, two Non-Hot Plug)
2. Dual Memory Expansion Boards (8 DIMM slots each – one board standard on all DL580 G2 models, 2nd board is optional)
3. Hot Plug Redundant Fans
4. Processor Air Baffle
5. 4U (7" Height) Rack Form Factor
6. Up to 4 Intel Processors MP
7. Integrated Smart Array 5i Plus Controller (Battery Backed Write Cache standard on all 2P DL580 G2 models, optional on 1P model)
8. Tool-less "Snap In" rail solution
9. Additional Hot Plug Redundant Fans
10. Server Lifting Handle
11. Front Panel LED Display (internal and external health, Unit ID light) and Power Button
12. Wide Ultra3 Duplex Drive Cage (can be Simplex configured)
13. Dual 800-Watt Hot Plug Redundant Power Supplies (low line or high line), standard on all 2P DL580 G2 models (one ships standard on 1P model, requires optional RPS for redundancy)
14. Ejectable Slim Line Drives: Ejectable 24X (slim line) CD-ROM IDE Drive
15. Ejectable Slim Line Drives: Ejectable 1.44 MB (slim line) Diskette Drive
16. QuickFind Diagnostic Display (viewable through Front Access Panel)
17. Removable Front Access Panel
18. Removable Rear Access Panel

QuickSpecs

hp *ProLiant* DL580 Generation 2 (G2)

Standard Features

Processor *One or more of the following depending on Model*	Intel Xeon Processor MP at 2.00 GHz\2MB Intel Xeon Processor MP 1.90 GHz\1MB Intel Xeon Processor MP at 1.50 GHz\1MB Intel Xeon Processor MP at 1.60 GHz\1MB Intel Xeon Processor MP at 1.40 GHz\512KB
Cache Memory *One of the following depending on Model*	2-MB Integrated Level 3 Cache **NOTE**: 2.0 GHz Models only. 1-MB Integrated Level 3 Cache **NOTE**: 1.9GHz, 1.6GHz and 1.5GHz Models only. 512-KB Integrated Level 3 Cache **NOTE**: 1.40 MHz Models only.
Upgradability	Upgradable to quad processing
Chipset	ServerWorks Grand Champion-HE chipset **NOTE**: For more information regarding ServerWorks, please see the following URL: http://www.serverworks.com/products/overview.html.

Memory *One of the following depending on Model*	Standard	2048 MB 200-MHz Double Data Rate (DDR) SDRAM (PC1600 Registered SDRAM Memory with Advanced ECC functionality) (2P Models)
	Maximum	32 GB
	Standard	1024 MB 200-MHz Double Data Rate (DDR) SDRAM (PC1600-MHz Registered SDRAM Memory with Advanced ECC functionality) (1P Model)
	Maximum	32 GB

NOTE: Advanced ECC Memory Technology protects the data even in the event of an entire SDRAM component failure. Embedded in the chipset design, this feature allows the use of Industry-Standard Registered DIMMs.

NOTE: 32 GB achieved with use of 2nd, optional memory board and 2GB Registered DIMM sticks.

Network Controller	Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot		
Expansion Slots	I/O (6 Total, 5 Available)		PCI Voltage:
	64-bit/100-MHz PCI-X Hot Plug	3, 4, 5 and 6 available	3.3 Volt or Universal cards (3.3/5.0V) only
	64-bit/100-MHz PCI-X Non-Hot Plug	1, 2 (NIC in slot 1)	3.3 Volt or Universal (3.3/5.0V) cards only

Manageability	Integrated Lights-Out (iLO) Standard Management (ASIC on the System Board)
Storage Controller	Smart Array 5i Plus Controller (integrated on system board), Dual Channel, Ultra3 (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) with 64 MB of memory. • 64-MB total memory for code, transfer buffers, and read/write cache on the 5i Plus Memory Module • Connector for Battery Backed Write Cache (BBWC) Enabler **NOTE**: The Smart Array 5i Plus Controller is integrated on the system board and is designed to support the duplex/simplex drive cage. An external SCSI port is not available on the DL580 G2. External SCSI solutions require the addition of a PCI or PCI-X option card. **NOTE**: For complete list of devices supported the Smart Array 5i Controller see the following: http://www5.hp.com/products/quickspecs/10890_div/10890_div.HTML (Division/World Wide) http://www5.hp.com/products/quickspecs/10890_na/10890_na.HTML (North America)
Storage Data Protection	The Battery-Backed Write Cache (BBWC) Enabler protects up to 64-MB write cache memory from hard boot, power, controller, or system board failures. • Standard on DL580 G2 2P Models, optional on DL580 G2 1P Models • Battery charge/life: Up to 72 hours/ 3 years • Transportable data protection • Increases overall controller performance **NOTE**: Safely transport your write cache data to another DL580 G2 in the data center be removing the BBWC Enabler and 5i Plus Memory Module simultaneously (connected by short cable).

Standard Features

Storage	Diskette Drive	1.44 MB (slim line) – ejectable for security and serviceability
	CD-ROM	24x IDE CD-ROM Drive (slim line) – ejectable for security and serviceability
	Hard Drives	None
	Maximum Internal Storage	587.2 GB (4 x 146.8 GB Wide Ultra 320 1″ drives) (internal hot plug Ultra3 drive cage)
	Hard Disk Drive Backplane	Internal Wide Ultra3 backplane supports up to four 1″ hard disk drives and is easily configurable to support simplex (4x1) or duplex mode (2x2) Standard shipping configuration is the duplex mode.
		NOTE: Optional SCSI cable assembly 288874-B21 is required for connecting Smart Array Controller in a PCI slot to internal hard drive backplane. Duplex configuration requires two such kits.

Interfaces	Serial	1
	Pointing Device (Mouse)	1
	Graphics	1
	Keyboard	1
	Rear USB Ports	2
	iLO Remote Management	1
	Network RJ-45	1

Graphics	Integrated 1280 x 1024, 16M color on PCI local bus, 8-MB of SDRAM video memory

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

ProLiant™ Essentials Foundation Pack Software	*Insight Manager*™ 7	Insight Manager 7 helps maximize system uptime and performance and reduces the cost of maintaining the IT infrastructure by providing proactive notification of problems before those problems result in costly downtime and reduced productivity. Insight Manager 7 is easy to set up and provides rapid access to detailed fault and performance information gathered by the Management Agents. One-click-access to the Remote Insight Lights Out Edition board allows systems administrators to take full graphical control of ProLiant servers in remote locations or lights-out data centers. Finally, Insight Manager 7 in concert with the Version Control Agents and Version Control Repository Manager enables systems administrators to version manage and update system software across groups of ProLiant servers.
	SmartStart™	SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart website at http://www.hp.com/servers/smartstart.
		SmartStart version supported (minimum): SmartStart 5.40.
	Management Agents	The Management Agents form the foundation for HP's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into HP servers, workstations, desktops, and portables, and send alerts to Insight Manager 7 and other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management products from HP, please visit the management website at http://www.hp.com/servers/manage.
	ActiveUpdate™	ActiveUpdate is a web-based application that keeps IT managers directly connected to HP for proactive notification and delivery of the latest software updates.
	ROMPaq™, support software, and configuration utilities	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options.
	Survey Utility and diagnostics utilities	The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips.

Standard Features

ProLiant Essentials Foundation Pack Software *(continued)*	*Optional* ProLiant Essentials Value Packs	Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs:

- Rapid Deployment Pack – an automated solution for multi-server deployment and provisioning, enabling companies to quickly and easily adapt to changing business demands.
- Workload Management Pack – provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server.
- Integrated Lights-Out Advanced Pack – upgrades the Integrated Lights-Out processor to full virtual presence and control with graphical console and virtual media.
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- Recovery Server Option Pack – entry-level high availability software that will provide reliable protection and increased uptime against server hardware and operating system failures.
- Performance Management Pack – a performance management solution that identifies and explains hardware performance bottlenecks on ProLiant servers and attached options enabling users to better utilize their valuable resources.

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.

NOTE: These Web sites are available in English only.

Industry Standard Compliance	ACPI 2.0 Compliant
	PCI 2.2 Compliant
	PXE Support
	WOL Support
	Physical Address Extension (PAE) Support
	Microsoft® Logo certifications

Intelligent Manageability	Integrated Lights-Out (iLO) Standard Management

- Virtual Text Remote Console
- Virtual Power Button Control
- Dedicated LAN Connectivity
- Automatic IP Configuration via DHCP/DNS/WINS
- Industry Standard 128-bit Secure Sockets Layer (SSL) Security
- IML and iLO Event Logging
- Support for 12 user accounts with customizable access privileges

Integrated Lights-Out (iLO) Advanced Pack (supports Advanced features such as Graphical Remote Console and Virtual Floppy – available as a separate option)

Automatic Server Recovery-2 (ASR-2)

Insight Manager 7

Redundant ROM

Remote Flash ROM

ROM-Based Setup Utility (RBSU)

Integrated Management Log (IML)

Hot Spare Boot (**NOTE**: Upon the event of a failed processor or VRM in a multi-processing environment, the system will automatically reboot and use the remaining good processor(s).)

Dynamic sector repairing and drive parameter tracking (with Smart Array controllers)

Redundant/adaptive load balancing NIC Support

QuickSpecs

hp *ProLiant* DL580 Generation 2 (G2)

Standard Features

Availability	• Standard Advanced ECC functionality detects and corrects single bit and specific multi-bit memory errors (4bit and 8bit) while using industry standard registered DIMMS. Functionality is embedded in the chipset design.

• HP Advanced Memory Protection Technology – delivers unsurpassed memory protection and server availability:

  • Online Spare Memory

  Offers a higher level of memory protection than Advanced ECC alone. If the number of single-bit correctable errors on a bank exceeds the pre-defined error threshold, that bank will fail over to the online spare bank without intervention or server interruption. Online spare memory can be configured across one or two memory cards. The failed memory can then be replaced at the user's convenience during a scheduled maintenance window.

  • Single-Board Mirrored Memory

  Single-board mirrored memory provides a higher level of availability than Advanced ECC and Online Spare Memory because it protects against multi-bit errors. Single-board Mirrored Memory uses mirrored banks on a single memory board that is configured with one redundant bank of memory. The system writes to both banks, but reads from one. If a DIMM(s) has a multi-bit error, the system simply reads from the mirrored bank instead. This process occurs without intervention or server interruption, and the failed DIMM can be replaced during a regularly scheduled shutdown.

  • Hot Plug Mirrored Memory

  Hot Plug Mirrored Memory is a fault-tolerant memory feature that provides a higher level of availability than Advanced ECC, Online Spare Memory, or Single-Board Mirrored Memory because it protects against multi-bit errors and does not require any server downtime to replace failed DIMMs. Hot Plug Mirrored Memory requires that two memory boards be installed, one an exact mirror of the other, which run in parallel and provide protection against multi-bit memory errors. When configured for Hot Plug Mirrored Memory, the system writes to both memory boards, but reads from one. If a read error occurs, the system fails over to the redundant memory board. At that point the memory board containing the failed DIMMs can be hot replaced. Once the failed DIMMs are replaced and the memory board re-installed into the server, the system goes back to full mirrored status. All this occurs without bringing the server down.
  NOTE: Hot Plug Mirrored Memory and Dual-Board Online Spare Memory require the use of two memory cards. All DL580 G2 servers ship standard with a single memory board. The second memory board is optional (P/N 203320-B21).
  NOTE: All HP Advanced Memory Protection modes are user configurable through the ROM-Based Setup Utility (RBSU) and viewable through Insight Manager 7 and the Integrated Management Log (IML.).

• PCI-X Hot Plug Technology (Four 64bit/100-MHz PCI-X hot plug slots available)

• Smart Array 5i Plus Controller with standard Battery Backed Write Cache (BBWC) Enabler provides transportable data protection and increases overall controller performance. Up to 64MB Battery Backed Write Cache protection available on 2P DL580 G2 models (BBWC Enabler is optional on 1P model.)

• Redundant Cooling Zones across major server subsystems (Memory, I/O, CPU) provide 7x24 cooling. Each zone is independent of each other and is able to support n+1 redundancy, as indicated below:

• PCI-X expansion zone is 1+1 redundant (fans 1 and 2)

• Memory zone is 1+1 redundant (fans 3 and 4)

• CPU zone is 2+1 redundant (fans 5, 6, and 7)

This zone configuration enables the server to withstand up to three fan failures, provided that they are not within the same zone. Each fan is hot plug redundant and individually removable.

• Up to four Hot Plug Ultra3 Drive Bays

• Duplex or Simplex SCSI Backplane (Duplex configuration is standard)

• Dual Hot Plug Redundant Power Supplies (standard on 2P Models, one ships standard on 1P Models.)

Standard Features

Serviceability	
	• Innovative Diagnostic Lighting
	• *QuickFind*™ Diagnostic Display – precisely depicts all major subsystems of the server (PCI-X I/O, Memory, CPU, Redundant Cooling, Interlock, Thermtrip) and gives instant visual indication of fault status. Located on top front of server.
	• LED display on front panel indicates power, internal health, external health, Unit ID light.
	• LED display on Memory board indicates Memory status, health, and protection mode.
	• Tool-less, virtually cable-less interior design
	• Tool-less access to interior of server
	• Two ejectable, slim line media drives (diskette and CD-ROM standard with support for optional DVD-ROM drives) are removable without the use of tools
	• Front access power supplies
	• Spring-loaded memory board release latches prevent unseating incidents
	• PCI Card Guides locks full length PCI cards in place during transit
	• SCSI Duplex/Simplex Drive Cage connects directly to system board – no cables. **NOTE**: Configure your SCSI Duplex/Simplex Drive Cage by means of simple switch (duplex to simplex) located on the cage itself. System ships standard in Duplex mode.
	• Seven individually removable fans connect without cables to the system board
	• Processor/VRM Retention Cage securely locks both processor and VRM into their respective sockets
	• Tool-less removal of system board
	• Quick Deploy Rails
	• Tool-less design "snap in" rail

Security	
	Power-on password
	Keyboard password
	Diskette drive control
	Diskette boot control
	Network Server Mode
	Security Provision
	Serial interface control
	Administrator's password
	Disk configuration lock
	Hot plug access security
	Removable Diskette drive
	Removable CD-ROM drive

Power Supply	
	800-Watt (low line or high line) Hot Plug Power Supply
	NOTE: One 800-Watt Hot Plug Power Supply ships standard with 1P Models (optional Redundant Hot Plug Power Supply Option Kit).
	NOTE: Two 800-Watt Hot Plug Power Supplies ship standard with 2P Models.

System Fans		
	Standard	7 Hot plug, redundant fans (individually removable)
	Maximum	7 Hot plug, redundant fans (individually removable)
	• Redundant Cooling Zones across major server subsystems (Memory, I/O, CPU) provide 7x24 cooling. Each zone is independent of each other and is able to support n+1 redundancy, as indicated below:	
	- PCI-X expansion zone is 1+1 redundant (fans 1 and 2)	
	- Memory zone is 1+1 redundant (fans 3 and 4)	
	- CPU zone is 2+1 redundant (fans 5, 6, and 7)	
	• This zone configuration enables the server to withstand up to three fan failures, provided that they are not within the same zone. Each fan is hot plug redundant and individually removable.	

Required Cabling	
	For required cabling information, refer to the HP Web site at http://www.compaq.com/products/servers/proliantDL580/.

Standard Features

OS Support	Microsoft Windows NT® Server
	Microsoft Windows 2000
	Novell® NetWare®
	LINUX® (Red Hat®, SuSE®)
	Sun Solaris 8 Intel Platform Edition
	NOTE: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix at: ftp://ftp.HP.com/pub/products/servers/os-support-matrix-310.pdf.
	NOTE: For an up-to-date listing of the latest drivers available for the HP ProLiant DL580 G2, please see: http://www.HP.com/support/files/server/us/index.html.

Rack Airflow Requirements	• Rack 9000 and 10000 series Cabinets
	The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The Compaq 9000 Series Rack and the 10000 Series Racks provides enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.
	• Rack 7000 series Cabinets
	When installing a server with processors running at speeds of 550 MHz or greater in Compaq Rack 7000 series racks with glass doors (165753-001 (42U), and 163747-001 (22U)), the new processor technology requires the installation of Compaq's High Airflow Rack Door Inserts (327281-B21 (42U), 327281-B22 (42U 6 pack), or 157847-B21 (22U)) to promote enhanced airflow for maximum cooling.
	CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:
	- <u>Front and rear doors:</u> 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).
	- <u>Side:</u> 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://www5.HP.com/products/servers/proliantdl580/index.html.

Rack Kit	DL580 G2 rack models provide tool-free support for square hole racks (including Compaq/HP 7000, 9000, 10000 and H9 series) with an adjustment range from 28″ – 29″ in depth

Service and Support	HP Services provides a three-year, limited warranty, including Pre-Failure Warranty (coverage of hard drives, memory and processors) fully supported by a worldwide network of resellers and service providers. HP technical assistance is available 7x24, toll free in the United States and Canada. Telephone support services may be covered under warranty or available for an additional fee.
	NOTE: Limited Warranty includes 3 year Parts, 3 year Labor, 3-year on-site support.
	A full range of *CarePaq*™ packaged hardware and software services:
	• Installation and start up
	• Extended coverage hours and enhanced response times
	• System management and performance services
	• Availability and recovery services
	NOTE: For more information, customer/resellers can contact http://www.compaq.com/services.
	Please see the following URL regarding Warranty Information For Your HP Products: http://www.compaq.com/support/warranty_upgrades/web_statements/176738.html
	For additional information regarding Worldwide Limited Warranty and Technical Support, please see the following URL: ftp://ftp.compaq.com/pub/supportinformation/ejourney/176738.pdf
	NOTE: Certain restrictions and exclusions apply. Consult the Customer Support Center at 1-800-345-1518 for details.

Models

DL580R02 X2.0 GHz-2MB, 2048MB (2P)	Processor	(2) Intel Xeon Processors MP at 2.0 GHz standard (up to 4 supported)
	Cache Memory	2-MB Integrated Level 3 Cache
202176-xx1	Memory	2048 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum)
		(4x1 interleaved memory and HP Advanced Memory Protection Technology)
	Network Controller	Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot
	Storage Controller	Smart Array 5i Plus Controller (Dual Channel, Ultra3) with Battery-Backed Write Cache Enabler (integrated on system board)
	Manageability	Integrated Lights-Out (iLO) Standard management (integrated on system board)
	Hard Drive	None ship standard
	Internal Storage	587.2 GB maximum (with optional hard drives)
	Power Supply	Two 800W Hot Plug Redundant Power Supplies (low line or high line)
	Optical Drive	24x IDE slim-line CD-ROM Drive
	Form Factor	Rack 4U

DL580R02 X1900-1MB, 2048MB (2P)	Processor	(2) Intel Xeon Processors MP at 1.90 GHz standard (up to 4 supported)
	Cache Memory	1-MB Integrated Level 3 Cache
202175-xx1	Memory	2048 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum)
		(4x1 interleaved memory and HP Advanced Memory Protection Technology)
	Network Controller	Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot
	Storage Controller	Smart Array 5i Plus Controller (Dual Channel, Ultra3) with Battery-Backed Write Cache Enabler (integrated on system board)
	Manageability	Integrated Lights-Out (iLO) Standard management (integrated on system board)
	Hard Drive	None ship standard
	Internal Storage	587.2 GB maximum (with optional hard drives)
	Power Supply	Two 800W Hot Plug Redundant Power Supplies (low line or high line)
	Optical Drive	24x IDE slim-line CD-ROM Drive
	Form Factor	Rack 4U

DL580R02 X1600-1MB, 2048MB (2P)	Processor	(2) Intel Xeon Processors MP at 1.60 GHz standard (up to 4 supported)
	Cache Memory	1-MB Integrated Level 3 Cache
201203-xx1	Memory	2048 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum)
		(4x1 interleaved memory and HP Advanced Memory Protection Technology)
	Network Controller	Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot
	Storage Controller	Smart Array 5i Plus Controller (Dual Channel, Ultra3) with Battery-Backed Write Cache Enabler (integrated on system board)
	Manageability	Integrated Lights-Out (iLO) Standard management (integrated on system board)
	Hard Drive	None ship standard
	Internal Storage	587.2 GB maximum (with optional hard drives)
	Power Supply	Two 800W Hot Plug Redundant Power Supplies (low line or high line)
	Optical Drive	24x IDE slim-line CD-ROM Drive
	Form Factor	Rack 4U

Models

DL580R02 X1400-512KB, 2048MB (2P) *201202-xx1*	Processor	(2) Intel Xeon Processors MP at 1.40 GHz standard (up to 4 supported)
	Cache Memory	512-KB Integrated Level 3 Cache
	Memory	2048 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum)
		(4x1 interleaved memory and HP Advanced Memory Protection Technology)
	Network Controller	Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot
	Storage Controller	Smart Array 5i Plus Controller (Dual channel, Ultra3) with Battery-Backed Write Cache Enabler (integrated on system board)
	Manageability	Integrated Lights-Out (iLO) Standard management (integrated on system board)
	Hard Drive	None ship standard
	Internal Storage	587.2 GB maximum (with optional hard drives)
	Power Supply	Two 800W Hot Plug Power Supplies (low line or high line)
	Optical Drive	24x IDE slim-line CD-ROM Drive
	Form Factor	Rack 4U
DL580R02 X1500-1MB, 1024MB (1P) *202174-xx1*	Processor	(1) Intel Xeon Processor MP at 1.50 GHz standard (up to 4 supported)
	Cache Memory	1MB Integrated Level 3 Cache
	Memory	1024 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum)
		(4x1 interleaved memory and HP Advanced Memory Protection Technology)
	Network Controller	Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot
	Storage Controller	Smart Array 5i Plus Controller (Dual channel, Ultra3) (integrated on system board)
	Manageability	Integrated Lights-Out (iLO) Standard management (integrated on system board)
	Hard Drive	None ship standard
	Internal Storage	587.2 GB maximum (with optional hard drives)
	Power Supply	One 800W Power Supply (low line or high line)
	Optical Drive	24x IDE slim-line CD-ROM Drive
	Form Factor	Rack 4U
DL580R02 X1400-512KB, 1024MB (1P) *201201-xx1*	Processor	(1) Intel Xeon Processor MP at 1.40 GHz standard (up to 4 supported)
	Cache Memory	512-KB Integrated Level 3 Cache
	Memory	1024 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum)
		(4x1 interleaved memory and HP Advanced Memory Protection Technology)
	Network Controller	Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot
	Storage Controller	Smart Array 5i Plus Controller (Dual channel, Ultra3) (integrated on system board)
	Manageability	Integrated Lights-Out (iLO) Standard management (integrated on system board)
	Hard Drive	None ship standard
	Internal Storage	587.2 GB maximum (with optional hard drives)
	Power Supply	One 800W Power Supply (low line or high line)
	Optical Drive	24x IDE slim-line CD-ROM Drive
	Form Factor	Rack 4U
Country Code Key	XX=00	U.S.
	XX=01	Australia
	XX=42	Int'l, Europe, Germany, France
	XX=03	UK
	XX=37	APD
	XX=29	Japan
	XX=AA	PRC

Options

ProLiant DL580 Unique Options	8192MB PC1600 Registered ECC SDRAM Memory Kit (4 x 2048 MB)	202173-B21
	4096MB PC1600 Registered ECC SDRAM Memory Kit (4 x 1024 MB)	202172-B21
	2048MB PC1600 Registered ECC SDRAM Memory Kit (4 x 512 MB)	202171-B21
	1024MB PC1600 Registered ECC SDRAM Memory Kit (4 x 256 MB)	202170-B21
	Hot Plug Memory Expansion Board	203320-B21
	NOTE: The Hot Plug Memory Expansion Board provides 8 additional DIMM slots for powering memory-intensive applications.	
	800W Hot Plug Redundant Power Supply US	278535-001
	800W Hot Plug Redundant Power Supply AUST	278535-011
	800W Hot Plug Redundant Power Supply EURO	278535-021
	800W Hot Plug Redundant Power Supply UK	278535-031
	800W Hot Plug Redundant Power Supply JPN2	278535-291
	800W Hot Plug Redundant Power Supply -inc IEC	278535-B21
	DL580 G2 Third Party Racking Kit	287528-B21
	DL580 G2 Folding Cable Management Arm	289294-B21
	DL580 G2 Cable Assembly, SCSI, Ultra3, LVDS	288874-B21
	NOTE: All DL580 G2 models ship standard with the integrated Smart Array 5i Plus Controller, which has been designed to deliver maximum performance and availability across the internal SCSI Duplex backplane. • The Ultra3 SCSI cable is required only if the customer chooses to *bypass* the Smart Array 5i Plus Controller and connect slot-based SCSI adapters or RAID controllers to the internal SCSI Duplex backplane. • Two cables are required to maintain the standard, duplexed configuration of the backplane. • One cable is required if the simplex configuration is chosen. The backplane is easily configured to simplex mode by means of a simple switch duplex to simplex) located on the top of the backplane itself.	
	Cord, AC Line, 20A, 250V, US	235604-001
	Cable, 16A, IEC320-C20 to IEC320-C19	295633-B21
	NOTE: Power cord (295633-B21) connects ProLiant servers to PDUs or UPSs with IEC320-C19 output connections.	
	Cable, 10A, IEC320-C14 to IEC320-C19	291034-B21
	NOTE: Power cord (291034-B21) connects ProLiant DL580 G2 servers to PDUs or UPSs with IEC320-C13 output connections. This power cord has been specifically designed to work with the ProLiant DL580 G2 server. Please **NOTE** the following important precautions when deploying this power cord: • Use the cord only in conjunction with the ProLiant DL580 G2 server. • Use the cord to connect the ProLiant DL580 G2 server only to PDUs or UPSs with IEC320-C13 output connections. • Do not use the cord with any other ProLiant or third party server. • Do not use the cord with any other office equipment or computers. • Do not use the cord as an extension cord. • Do not plug the cord into a wall outlet. Failure to adhere to these precautions may invalidate the server warranty.	
ProLiant Essentials Value Pack Software	Rapid Deployment Pack, 1 User, V1.x	267196-B21
	NOTE: This license allows 1 server to be managed and deployed via the Deployment Server.	
	Rapid Deployment Pack, 1 User, V1.x (Japan)	267196-291
	NOTE: This license allows 1 server to be managed and deployed via the Deployment Server.	
	Rapid Deployment Pack, 10 Users, V1.x	269817-B21
	NOTE: This license allows 10 servers to be managed and deployed via the Deployment Server.	
	Rapid Deployment Pack, 10 Users, V1.x (Japan)	269817-291
	NOTE: This license allows 10 servers to be managed and deployed via the Deployment Server.	
	ProLiant Essentials Workload Management Pack (Featuring HP Resource Partitioning Manager version 2.0)	303284-B21

Options

ProLiant Essentials Value Pack Software *(continued)*	ProLiant Essentials Recovery Server Option Pack	280189-B21
	Integrated Lights-Out (iLO) Advanced Pack	263825-B21
	ProLiant Essentials Performance Management Pack v2.0, Single License	306696-B21

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.

NOTE: These Web sites are available in English only.

Software	HP digital asset protection	302316-001

Processor	Intel Xeon MP X2.0 GHz-2MB Processor Option Kit	307276-B21

NOTE: This processor option kit (PN 307276-B21) supports the ProLiant ML570 G2 and the DL580 G2.

	Intel Xeon MP X1.9 GHz-1MB Processor Option Kit	311228-B21

NOTE: This processor option kit (PN 311228-B21) supports the ProLiant ML570 G2 and the ProLiant DL580 G2.

	Intel Xeon MP X1.50 GHz-1MB Processor Option Kit	191220-B21

NOTE: This processor option kit (PN 191220-B21) supports the ProLiant ML570 G2 and the ProLiant DL580 G2.

	Intel Xeon MP X1.60 GHz-1MB Processor Option Kit	226776-B21

NOTE: This processor option kit (PN 226776-B21) supports the ProLiant DL580 G2 only.

	Intel Xeon MP X1.40 GHz-512KB Processor Option Kit	226775-B21

NOTE: This processor option kit (PN 226775-B21) supports the ProLiant ML570 G2 and the ProLiant DL580 G2.

Memory (DIMMs)	8192 MB PC1600 Registered ECC SDRAM Memory Kit (4 x 2048 MB)	202173-B21
	4096 MB PC1600 Registered ECC SDRAM Memory Kit (4 x 1024 MB)	202172-B21
	2048 MB PC1600 Registered ECC SDRAM Memory Kit (4 x 512 MB)	202171-B21
	1024 MB PC1600 Registered ECC SDRAM Memory Kit (4 x 256 MB)	202170-B21
	Hot Plug Memory Expansion Board	203320-B21

NOTE: The Hot Plug Memory Expansion Board provides 8 additional DIMM slots for powering memory-intensive applications.

Optical Drives	Slimline DVD-ROM Drive (8X/24X) Option Kit	264007-B21

Hard Drives	***Ultra320 – Universal Hot Plug***	
	146.8-GB 10,000 rpm U320 Universal Hard Drive (1″)	286716-B22
	72.8-GB 10,000 rpm U320 Universal Hard Drive (1″)	286714-B22
	36.4-GB 10,000 rpm U320 Universal Hard Drive (1″)	286713-B22
	72.8-GB 15,000 rpm U320 Universal Hard Drive (1″)	286778-B22
	36.4-GB 15,000 rpm U320 Universal Hard Drive (1″)	286776-B22
	18.2-GB 15,000 rpm U320 Universal Hard Drive (1″)	286775-B22

NOTE: All U320 Universal Hard Drives are backward compatible to U2 or U3 speeds. U320 drives require an optional U320 Smart Array Controller or U320 SCSI HBA to support U320 transfer rates.

NOTE: Please see the Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature:
U320 Hard Drive QS:
http://www5.compaq.com/products/quickspecs/11531_div/11531_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11531_na/11531_na.HTML (North America)

Options

Storage Controllers		
	Smart Array 532 Controller	225338-B21
	Smart Array 532 Controller (Japan)	225338-291
	Smart Array 5302/128 Controller	283552-B21
	Smart Array 5302/128 Controller (Japan)	283552-291
	Smart Array 5304/256 Controller	283551-B21
	Smart Array 5304/256 Controller (Japan)	283551-291
	Smart Array 5312 Controller	238633-B21
	Smart Array 5312 Controller (Japan)	238633-291
	Smart Array 641 Controller	291966-B21
	Smart Array 642 Controller	291967-B21
	Ultra3 Channel Expansion Module for Smart Array 5300 Controller	153507-B21
	128-MB Cache Module for Smart Array 5302 Controller	153506-B21
	256-MB Battery-Backed Cache Module	254786-B21
	NOTE: This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series controllers, MSA 1000 and the Smart Array Cluster Storage.	
	RAID ADG Upgrade for Smart Array 5302	288601-B21
	Battery-Backed Write Cache Enabler Option Kit	255514-B21
	NOTE: This Battery-Backed Write Cache Enable Option Kit (PN 255514-xx1) is optional for the DL580 G2 1P Model only.	
	Battery-Backed Write Cache Enabler Option Kit (Japan)	255514-291
	NOTE: This Battery-Backed Write Cache Enable Option Kit (PN 255514-xx1) is optional for the DL580 G2 1P Model only.	
	64 MB Battery Backed Write Cache Enabler	291969-B21
	NOTE: This 64 MB BBWC supports the Smart Array 641 Controller and Smart Array 642 Controller.	
	DL580 G2 Cable Assembly, SCSI, Ultra3, LVDS	288874-B21
	NOTE: All DL580 G2 models ship standard with the integrated Smart Array 5i Plus Controller, which has been designed to deliver maximum performance and availability across the internal SCSI Duplex backplane.	

- The Ultra3 SCSI cable is required only if the customer chooses to bypass the Smart Array 5i Plus Controller and connect slot-based SCSI adapters or RAID controllers to the internal SCSI Duplex backplane.
- Two cables are required to maintain the standard, duplexed configuration of the backplane.
- One cable is required if the simplex configuration is chosen.

The backplane is easily configured to simplex mode by means of a simple switch duplex to simplex) located on the top of the backplane itself.

	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	154457-B21
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
	64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter	268351-B21
	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS	284688-B21

NOTE: Please see the following Controller or SCSI Adapter QuickSpecs for Technical Specifications such as PCI Bus, PCI Peak Data Transfer Rate, SCSI Protocols supported, SCSI Peak Data Transfer Rate, Channels, SCSI Ports, Drives supported, Cache, RAID support, and additional information:
http://www5.compaq.com/products/quickspecs/11063_div/11063_div.HTML (Smart Array 5i Plus)
http://www5.compaq.com/products/quickspecs/10851_div/10851_div.HTML (Smart Array 532)
http://www5.compaq.com/products/quickspecs/10640_div/10640_div.HTML (Smart Array 5300 Series)
http://www5.compaq.com/products/quickspecs/11328_div/11328_div.HTML (Smart Array 5312)
http://www5.compaq.com/products/quickspecs/11563_div/11563_div.HTML (Smart Array 641)
http://www5.compaq.com/products/quickspecs/11563_div/11563_div.HTML (Smart Array 642)
http://www5.compaq.com/products/quickspecs/10429_div/10429_div.HTML (SCSI Adapter)
http://www5.compaq.com/products/quickspecs/11555_div/11555_div.HTML (U320 Adapter)

Options

Communications		
	Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21
	Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade Module for NC3134	138604-B21
	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134	338456-B23
	Compaq NC6136 Gigabit Server Adapter, 64-bit/66-MHz, PCI, 1000 SX	203539-B21
	Compaq NC7131 Gigabit Server Adapter, 64-bit/66-MHz, PCI, 10/100/1000-T	158575-B21
	Compaq NC7132 10/100/1000-T Upgrade Module for NC3134 and NC3131	153543-B21
	Compaq NC7770 PCI-X Gigabit Server Adapter	244948-B21

Redundant Options		
	800W Hot Plug Redundant Power Supply US	278535-001
	800W Hot Plug Redundant Power Supply AUST	278535-011
	800W Hot Plug Redundant Power Supply EURO	278535-021
	800W Hot Plug Redundant Power Supply UK	278535-031
	800W Hot Plug Redundant Power Supply JPN2	278535-291
	800W Hot Plug Redundant Power Supply -inc IEC	278535-B21

Management Options		
	Remote Insight Lights-Out Edition II (NA, LA)	227251-001
	Remote Insight Lights-Out Edition II (EMEA)	227251-021
	Remote Insight Lights-Out Edition II (ROW)	227251-371

Security		
	HP/Atalla AXL600L SSL Accelerator Card for ProLiant Servers	524545-B21
	Compaq AXL300 Accelerator PCI Card for ProLiant Servers	227933-B21

Monitors		
	Essential Series	
	Compaq S9500 CRT Monitor (19-inch, Carbon/Silver)	261615-XXX
	Compaq S7500 CRT Monitor (17-inch, Carbon/Silver)	261606-XXX
	Compaq S5500 CRT Monitor (15-inch Carbon/Silver)	261602-XXX
	Compaq TFT1501 Flat Panel Monitor (15-inch, Carbon/Silver, North America)	301042-003
	Compaq TFT1501 Flat Panel Monitor (15-inch, Carbon/Silver, Outside North America)	P4825D-XXX
	Compaq TFT1701 Flat Panel Monitor (17-inch, Carbon/Silver, North America)	292847-003
	Compaq TFT1701 Flat Panel Monitor (17-inch, Carbon/Silver, Outside North America)	P9019A-XXX
	Advantage Series	
	Compaq V7550 CRT Color Monitor (17-inch, Carbon/Silver)	261611-XXX
	Compaq TFT1720 Flat Panel Monitor (17-inch, Carbon/Silver, North America)	295926-003
	Compaq TFT1720 Flat Panel Monitor (17-inch, Carbon/Silver, outside North America)	D5064D-XXX
	Compaq FT1720M Flat Panel Monitor (17-inch, (Carbon/Silver, includes speaker, USB port, headphone, North America)	301958-003
	Compaq TFT1720M Flat Panel Monitor (17-inch, (Carbon/Silver, includes speaker, USB port, headphone, outside North America)	D5064P-XXX
	Compaq TFT1520 Flat Panel Monitor (15-inch, Carbon/Silver, North America)	295925-003
	Compaq TFT1520 Flat Panel Monitor (15-inch, Carbon/Silver, outside North America)	D5063D-XXX
	Compaq TFT1520M Flat Panel Monitor (15-inch, (Carbon/Silver includes speaker, USB port, headphone, North America)	301957-003
	Compaq TFT1520M Flat Panel Monitor (15-inch, (Carbon/Silver includes speaker, USB port, headphone, outside North America)	D5063P-XXX

Options

Monitors *(continued)*	Performance Series	
	HP P930 CRT Monitor (19-inch, Flat-screen, Carbon/Silver, North America)	302268-003
	HP P930 CRT Monitor (19-inch, Flat-screen, Carbon/Silver, Outside North America)	P909W-XXX
	HP P1130 CRT Monitor (21-inch, Flat-screen, Carbon/Silver, North America)	302270-003
	HP P1130 CRT Monitor (21-inch, Flat-screen, Carbon/Silver, Outside North America)	P4819-XXX
	HP L1825 Flat Panel Monitor (18-inch, Carbon/Silver, North America)	303486-003
	HP L1825 Flat Panel Monitor (18-inch, Carbon/Silver, Outside North America)	P9021W-XXX
	HP L2025 Flat Panel Monitor (20-inch, Carbon/Silver, North America)	303102-003
	HP L2025 Flat Panel Monitor (20-inch, Carbon/Silver, Outside North America)	P4831W-XXX
	Compaq TFT1825 Flat Panel Monitor (18-inch, Carbon/Silver, North America)	296751-003
	Compaq TFT1825 Flat Panel Monitor (18-inch, Carbon/Silver, Outside North America)	P9021A-XXX
	Compaq TFT2025 Flat Panel Monitor (20-inch, Carbon/Silver, North America)	285550-003
	Compaq TFT2025 Flat Panel Monitor (20-inch, Carbon/Silver, Outside North America)	P4831D-XXX
	Rackmount Flat Panel Monitors	
	TFT5110R Flat Panel Monitor (Carbon)	281683-B21
	TFT5010R Flat Panel Monitor (NA)	217248-001
	TFT5010R Flat Panel Monitor (Int'l)	217248-B31
	TFT5010R Flat Panel Monitor (Japan)	217248-291

Tape Drives	Internal and External DAT Tape Drives	
	HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Carbon) (NA)	157770-002
	HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Int'l) (Carbon)	157770-B32
	HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Japan) (Carbon)	157770-292
	HP StorageWorks Internal 20/40-GB DAT, Hot Plug (Carbon)	215488-B21
	HP StorageWorks 3U Rackmount Tape Drive Kit	274338-B21

NOTE: Please see the 20/40-GB DAT Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10426_div/10426_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10426_na/10426_na.HTML (North America)

	Internal and External AIT Tape Drives	
	HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon)	216885-001
	HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Int'l)	216885-B31
	HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Japan)	216885-291
	HP StorageWorks Internal AIT 35-GB, LVD, Hot Plug (Carbon)	216886-B21

NOTE: Please see the AIT 35 GB, LVD Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10712_div/10712_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10712_na/10712_na.HTML (North America)

	HP StorageWorks AIT 50-GB Tape Drive, External (Carbon) (NA)	157767-002
	HP StorageWorks AIT 50-GB Tape Drive, External (Int'l) (Carbon)	157767-B32
	HP StorageWorks AIT 50-GB Tape Drive, External (Japan) (Carbon)	157767-292
	Internal AIT 50-GB, Hot Plug (Carbon)	215487-B21
	HP StorageWorks Rackmount AIT 50-GB, 3U (Single Drive)	274333-B21
	HP StorageWorks 3U Rackmount Tape Drive Kit	274338-B21

NOTE: Please see the AIT 50-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10425_div/10425_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10425_na/10425_na.HTML (North America)

Options

Tape Drives *(continued)*	*Internal and External AIT Tape Drives* *(continued)*	
	HP StorageWorks External AIT 100-GB Tape Drive (Carbon)	249160-001
	HP StorageWorks External AIT 100-GB Tape Drive (Carbon) (Int'l)	249160-B31
	HP StorageWorks Internal AIT 100-GB, Hot-Plug (Carbon)	249161-B21

NOTE: Please see the AIT 100-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11062_div/11062_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11062_na/11062_na.HTML (North America)

NOTE: Internal Hot Plug AIT drives can be supported by the integrated Smart Array 5i Plus Controller.

External DLT Tape Drives	
HP StorageWorks External 20/40-GB DLT Drive (opal) (WW)	340744-B22
HP StorageWorks External 20/40-GB DLT Drive (opal) (Japan)	340744-292

NOTE: Please see the 20/40-GB DLT Drive QuickSpecs for additional options such as data and cleaning cartridges, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10234_div/10234_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10234_na/10234_na.HTML (North America)

HP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (NA)	146197-B22
HP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (Japan)	146197-293
HP StorageWorks Rackmount DLT 40/80, 3U (Single Drive)	274332-B21
HP StorageWorks Rackmount DLT 40/80, Dual-Drive, 3U (Two Drives)	274335-B21
HP StorageWorks Rackmount DLT 40/80 Tape Array III, 5U (Four Drives)	274337-B21

NOTE: Please see the 40/80-GB DLT Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10658_div/10658_div.HTML (Division/World Wide)
http://www5.compaqcom/products/quickspecs/10658_na/10658_na.HTML (North America)

External DLT VS Tape Drives	
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) All	280129-B22
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (WW)	280129-B31
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (Japan)	280129-291

NOTE: Please see the DLT VS 40/80 Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11403_div/11403_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11403_na/11403_na.HTML (North America)

External SDLT Tape Drives	
HP StorageWorks SDLT 110/220, External NA (carbon)	192103-002
HP StorageWorks SDLT 110/220, External WW (carbon)	192103-B32
HP StorageWorks SDLT 110/220, External Japan (carbon)	192103-292

NOTE: Please see the SDLT 110/220-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10772_div/10772_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10772_na/10772_na.HTML (North America)

HP StorageWorks SDLT 160/320, External NA (carbon)	257319-001
HP StorageWorks SDLT 160/320, External WW (carbon)	257319-B31
HP StorageWorks SDLT 160/320, External Japan (carbon)	257319-291

NOTE: Please see the SDLT 160/320-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11406_div/11406_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11406_na/11406_na.HTML (North America)

Tape Drives *(continued)*

External SDLT Tape Drives *(continued)*

HP StorageWorks Rackmount SDLT 110/220, 3U (Single Drive)	274331-B21
HP StorageWorks Rackmount SDLT 110/220, Dual-Drive, 3U (Two Drives)	274334-B21
HP StorageWorks Rackmount SDLT 110/220 Tape Array III, 5U (Four Drives)	274336-B21

NOTE: Please see the SDLT 110/220-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10772_div/10772_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10772_na/10772_na.HTML (North America)

External SuperLoader

DLT1 1280 SuperLoader	268664-B21

NOTE: Please see the StorageWorks DLT1 1280 SuperLoader QuickSpecs for additional options and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11330_div/11330_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11330_na/11330_na.HTML (North America)

External LTO Ultrium Tape Drives

HP StorageWorks LTO Ultrium 230 Tape Drive, External (Carbon) NA	Q1516A
HP StorageWorks LTO Ultrium 230 Tape Drive, External (Carbon) Int'l	Q1517A

NOTE: Please see the HP StorageWorks LTO Ultrium Tape Drive QuickSpecs for additional options such as controllers, and other related items, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11415_div/11415_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11415_na/11415_na.HTML (North America)

External HP StorageWorks Ultrium 460 tape drive for ProLiant

HP StorageWorks Ultrium 460 tape drive for ProLiant, external (Carbon) NA	Q1519A
HP StorageWorks Ultrium 460 tape drive for ProLiant, external (Carbon) Int'l	Q1520A

NOTE: Please see the HP StorageWorks Ultrium 460 Tape Drive QuickSpecs for additional options such as controllers, and other related items, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11530_div/11530_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11530_na/11530_na.HTML (North America)

1/8 Autoloader

HP Storage Works 1/8 Autoloader, DLT vs 80	C9264CB
HP Storage Works 1/8 Autoloader, Ultrium 230	C9572CB
Rackmount Kit for 1/8 Autoloader	C9268R

NOTE: Please see the 1/8 Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11496_div/11496_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11496_na/11496_na.HTML (North America)

Internal and External AIT Autoloader

HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (NA)	280349-001
HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (Int'l)	280349-B31

NOTE: Please see the AIT 35-GB Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11404_div/11404_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11404_na/11404_na.HTML (North America)

Options

Tape Drives *(continued)*	*Rackmount Tape Drive Kits*	
	3U Rackmount Kit	274338-B21
	NOTE: The 3U Rackmount Kit (PN 274338-B21) can support up to (2) full-height or (4) half-height tape drives and compatible with multiple Single-Ended and LVD SCSI Tape Drives including the 12/24-GB DAT, 20/40-GB DAT, 20/40-GB DAT DDS-4 8 Cassette Autoloader, AIT 35-GB LVD, AIT 50 GB, 20/40-GB DLT, 40/80-GB DLT, SDLT 110/220-GB, and Ultrium 230 Tape Drives.	
	5U Rackmount Kit	274339-B21
	NOTE: The 5U Rackmount Kit (PN 274339-B21) can support up to (4) full-height tape drives and is compatible with all DLT/SDLT tape drives including the 20/40-GB DLT, 35/70-GB DLT, 40/80-GB DLT, and SDLT 110/220-GB, and Ultrium 230 Tape Drives.	
	NOTE: Please see the Rackmount Tape Drive Kits QuickSpecs for additional information regarding these kits, please see the following: http://www5.compaq.com/products/quickspecs/10854_div/10854_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10854_na/10854_na.HTML (North America)	

	Rackmount Tape Drive Cable Kits	
	LVD Cable Kit, VHDCI/HD68	168048-B21
	NOTE: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	
	LVD Cable Kit, HD68/HD68	242381-B21
	NOTE: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	

Tape Automation	*StorageWorks ESL9000 Enterprise System Library*	
	ESL9322L1 – LTO Ultrium based enterprise library with up to 8 drives and 222, 322 slots	
	ESL9322L1 222 slot 2 DRV LTO1	301927-B22
	ESL9322L1 222 slot 8 DRV LTO1	301927-B28
	ESL9322L1 322 slot 2 DRV LTO1	301928-B22
	ESL9322L1 322 slot 8 DRV LTO1	301928-B28
	ESL9322S2 – SDLT160 based enterprise library with up to 8 drives and 222, 322 slots	
	ESL9322S2 222 slot 2 DRV SDLT2	293409-B22
	ESL9322S2 222 slot 8 DRV SDLT2	293409-B28
	ESL9322S2 322 slot 2 DRV SDLT2	293410-B22
	ESL9322S2 322 slot 8 DRV SDLT2	293410-B28
	NOTE: Please see the StorageWorks ESL9322S2 Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at: http://www5.compaq.com/proudcts/quickspecs/11437_na/11437_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11437_div/11437_div.HTML (World Wide)	
	ESL9322: Common Options	
	ESL9322, slot upgrade 222 to 322 slots	293588-B21
	ESL9595L1 – LTO Ultrium based enterprise library with up to 16 drives and 400, 500, 595 slots	
	ESL9595L1 400 slot 2 DRV LTO1	301929-B22
	ESL9595L1 400 slot 16 DRV LTO1	301929-B28
	ESL9595L1 500 slot 2 DRV LTO1	301931-B22
	ESL9595L1 500 slot 16 DRV LTO1	301931-B28
	ESL9595L1 595 slot 2 DRV LTO1	301932-B22
	ESL9595L1 595 slot 16 DRV LTO1	301932-B28
	NOTE: Please see the StorageWorks ESL9595L1 Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/11435_na/11435_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11435_div/11435_div.HTML (World Wide)	

Options

Tape Automation *(continued)*	*StorageWorks ESL9000 Enterprise System Library* *(continued)*	
	ESL9595S2 – SDLT160 based enterprise library with up to 16 drives and 400, 500, 595 slots	
	ESL9595S2 400 slot 2 DRV SDLT 160/320	293411-B22
	ESL9595S2 400 slot 16 DRV SDLT 160/320	293411-B28
	ESL9595S2 500 slot 2 DRV SDLT 160/320	293412-B22
	ESL9595S2 500 slot 16 DRV SDLT 160/320	293412-B28
	ESL9595S2 595 slot 2 DRV SDLT 160/320	293413-B22
	ESL9595S2 595 slot 16 DRV SDLT 160/320	293413-B28

NOTE: Please see the StorageWorks ESL9595S2 Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11436_na/11436_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11436_div/11436_div.HTML (World Wide)

	ESL9595SL – SDLT110 based enterprise library with up to 16 drives and 400, 500, 595 slots	
	ESL9595SL 400 slots, 2 DRV SDLT110/220	274672-B22
	ESL9595SL 400 slots, 16 DRV SDLT110/220	274672-B28
	ESL9595SL 500 slots, 2 DRV SDLT110/220	281627-B22
	ESL9595SL 500 slots, 16 DRV SDLT110/220	281627-B28
	ESL9595SL 595 slots, 2 DRV SDLT110/220	281628-B22
	ESL9595SL 595 slots, 16 DRV SDLT110/220	281628-B28

NOTE: Please see the StorageWorks ESL9595SL Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11332_na/11332_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11332_div/11332_div.HTML (World Wide)

	ESL9595: Common Options	
	ESL9595SL 400 to 500 slot upgrade	274674-B21
	ESL9595SL 500 to 595 slot upgrade	274674-B22
	ESL9595SL 400 to 595 slot upgrade	274674-B23

	Add-on drives & Accessories	
	ESL9000 LVD SDLT 160/320 Drive upgrade (ESL9595S2 and ESL9322S2 only)	293414-B21
	ESL9000 LTO1 drive upgrade (ESL9322L1 and ESL9595L1 only)	301930-B21
	ESL9000 Universal Load Port (support both LTO & SDLT cartridges) Not removable	302254-B21
	ESL9000 Pass-thru kit (graphite)	161268-B23

	Add-on drives & Accessories	
	ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL, ESL9595SL only)	234617-B21
	ESL9000 Field Upgrade SDLT 110/220, HVD Drive (for existing ESL9326D/DX customers)	234617-B22
	LVD Extender Kit for ESL9198DLX, ESL9198SL, ESL9326SL	221249-B21
	ESL 9000 Pass Through Kit for Multi Unit Connectivity	161268-B21
	64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21

NOTE: 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries.

Options

Tape Automation *(continued)*	**StorageWorks MSL5000 departmental libraries**	

MSL5060L1 – LTO Ultrium 1 based departmental library up to 4 drives and 60 slots

MSL5060L1, 0 DRV LTO1 RM Library	301899-B21
MSL5060L1, 2 DRV LTO1 RM Library	301899-B22
MSL5060L1, 2 DRV LTO1 TT Library	301900-B21
MSL5060L1FC, 2 DRV LTO1 RM-with integrated FC router	301899-B23

NOTE: Please see the StorageWorks MSL5060 LTO Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11438_na/11438_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11438_div/11438_div.HTML (Division/World Wide)

MSL5052S2 – SDLT160 based departmental library up to 4 drives and 52 slots

MSL5052S2, RM 0 DRV SDLT ALL	255102-B21
MSL5052S2, 2 DRV SDLT2 TT LIB	293476-B21
MSL5052S2, 2 DRV SDLT2 RM LIB	293474-B21
MSL5052S2FC 2 DRV SDLT2 RM- with integrated FC router	293474-B24

NOTE: Please see the StorageWorks MSL5052S2 Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11442_na/11442_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11442_div/11442_div.HTML (Division/World Wide)

MSL5030L1 – LTO Ultrium 1 mid-range library up to 2 drives and 30 slots

MSL5030L1, 0 DRV LTO1 RM Library	301897-B21
MSL5030L1, 1 DRV LTO1 RM Library	301897-B22
MSL5030L1, 2 DRV LTO1 RM Library	301897-B23
MSL5030L1, 1 DRV LTO1 TT Library	301898-B21
MSL5030L1, 2 DRV LTO1 TT Library	301898-B22
MSL5030L1FC, 1 DRV LTO1 RM- with integrated FC router	301897-B24
MSL5030L1FC, 2 DRV LTO1 RM- with integrated FC router	301897-B25

NOTE: Please see the StorageWorks MSL5030 LTO Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11439_na/11439_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11439_div/11439_div.HTML (Division/World Wide)

MSL5026S2 – SDLT160 based mid-range library up to 2 drives and 26 slots

MSL5026S2, 0 DRV SDLT2 RM Library	293472-B21
MSL5026S2, 1 DRV SDLT2 RM Library	293472-B22
MSL5026S2, 2 DRV SDLT2 RM Library	293472-B23
MSL5026S2, 1 DRV SDLT2 TT Library	293473-B21
MSL5026S2, 2 DRV SDLT2 TT Library	293473-B22
MSL5026S2FC, 1 DRV SDLT2 RM- with integrated FC router	293472-B24
MSL5026S2FC, 2 DRV SDLT2 RM- with integrated FC router	293472-B25

NOTE: Please see the StorageWorks MSL5026SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11453_na/11453_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11453_div/11453_div.HTML (Division/World Wide)

MSL5026SL Graphite – SDLT110 based mid-range library up to 2 drives and 26 slots

MSL5026SL, 1 DRV SDLT TT, graphite	302511-B21
MSL5026SL, 2 DRV SDLT TT, graphite	302511-B22
MSL5026SL, 1 DRV SDLT RM, graphite	302512-B21
MSL5026SL, 2 DRV SDLT RM, graphite	302512-B22

NOTE: Please see the StorageWorks MSL5026SL Graphite Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11440_na/11440_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11440_div/11440_div.HTML (Division/World Wide)

Options

Tape Automation *(continued)*	*StorageWorks MSL5000 departmental libraries* *(continued)*	
	MSL5026SL Opal – SDLT110 based mid-range library up to 2 drives and 26 slots	
	MSL5026, 0 DR, LVD, RM	231979-B21
	MSL5026DLX– 40/80GB DLT based mid-range library up to 2 drives and 26 slots	
	MSL5026DLX, 1 40/80GB DLT, LVD, TT	231821-B21
	MSL5026DLX, 2 40/80GB DLT, LVD, TT	231821-B22
	MSL5026DLX, 1 40/80GB DLT, LVD, RM	231891-B21
	MSL5026DLX, 2 40/80GB DLT, LVD, RM	231891-B22

NOTE: Please see the StorageWorks MSL5026DLX Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/10860_na/10860_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10860_div/10860_div.HTML (Division/World Wide)

MSL5000 Add-on drives & accessories	
MSL5000 SDLT 160/320 Upgrade DRV (MSL5052S2 & MSL5026S2 only)	293475-B21
MSL5000 LTO Ultrium 1 Upgrade DRV (MSL5060L1 & MSL5030L1 only)	301901-B21
MSL5000 SDLT 110/220 Upgrade DRV	231823-B22
MSL5000 40/80GB DLT Upgrade DRV	231823-B21
MSL5000 Dual Magazine LTO (2 X 15 slot magazines)	301902-B21
MSL5000 Dual Magazine DLT (2 X 13 slot magazines)	232136-B21
MSL5000 pass through mechanism 10 U (required for multi-unit scalability)	231824-B21
MSL5000, Pass through mechanism 10U (includes elevator mechanism and router, required to connect first two units in a stack)	231824-B21
MSL5026, 5U Pass through extender (required one for each unit connected to the stack, for third and additional units) – for MSL5026 & MSL5030	231824-B22
MSL5052, 10U Pass-Through Extender (required one for each unit connected to the stack, for third and additional units) – for MSL5052 & MSL5060	231824-B23

StorageWorks SSL2000 small system library	
SSL2020 – AIT50 based library with up to 2 drives and 20 slots	
SSL2020 AIT Mini-Library 1 drive, 20 slot Table Top	175195-B21
SSL2020 AIT Mini-Library 2 drive, 20 slot Table Top	175195-B22
SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount	175196-B21
SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount	175196-B22
SSL2020 AIT Library Pass Thru with Transport	175312-B21

Add-on drives and accessories	
SSL2020 AIT Library Pass Thru Extender	175312-B22
AIT 50GB Drive Add-On LVD Drive for SSL2020 AIT Library	175197-B21
19 Slot Magazine for SSL2020 AIT Library	175198-B21
AIT 50-GB Data Cassette (5 pack)	152841-001
AIT Cleaning Cassette	402374-B21

NOTE: Please see the SSL2020 Automated AIT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/10580_na/10580_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10580_div/10580_div.HTML (Division/World Wide)

Options

Cluster Options		
ProLiant Cluster HA/F100 for MSA1000 v2		252408-B22
ProLiant Cluster HA/F100 for MSA1000 v2 (Japan)		252408-292
ProLiant Cluster HA/F200 for MSA1000 v2		252409-B22
ProLiant Cluster HA/F200 for MSA1000 v2 (Japan)		252409-292
NOTE: For additional information regarding the ProLiant Cluster for HA/F100, HA/F200 for MSA1000 please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/11035_na/11035_na.html (North America) http://www5.compaq.com/products/quickspecs/11035_div/11035_div.html (Division/World Wide)		
ProLiant Cluster HA/F100 for Windows NT and 2000 Advanced Server		309816-B21
ProLiant Cluster HA/F200 Upgrade Kit (NT 4.0EE to W2K AS)		176848-B22
ProLiant Cluster HA/F200 for Windows NT and 2000 Advanced Server		380357-B23
ProLiant Cluster HA/F200 for Windows NT and 2000 Advanced Server (Japan)		380357-293
NOTE: For additional information regarding the ProLiant Cluster for HA/F100, HA/F200 for Windows NT and 2000 Advanced Server please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/10777_na/10777_na.html (North America) http://www5.compaq.com/products/quickspecs/10777_div/10777_div.html (Division/World Wide)		
ProLiant Cluster HA/F500 Basic Kit		103250-B24
ProLiant Cluster HA/F500 Enhanced Kit		379937-B24
ProLiant Cluster HA/F500 Enhanced DT Kit		164227-B22
NOTE: For additional information regarding the ProLiant Cluster for HA/F500 please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/10232_na/10232_na.html (North America) http://www5.compaq.com/products/quickspecs/10232_div/10232_div.html (Division/World Wide)		
ProLiant Cluster HA/F500 for Enterprise Virtual Array		254623-B21
NOTE: For additional information regarding the ProLiant Cluster HA/F500 for Enterprise Virtual Array please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/11055_na/11055_na.html (North America) http://www5.HP.com/products/quickspecs/11055_div/11055_div.html (Division/World Wide)		
ProLiant Cluster HA/L100 LifeKeeper for Linux		303523-B21
NOTE: For additional information regarding the ProLiant Cluster HA/L100 LifeKeeper for Linux, please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/11533_na/11533_na.html (North America) http://www5.compaq.com/products/quickspecs/11533_div/11533_div.html (Division/World Wide)		
HP Serviceguard for Linux ProLiant Cluster		305199-B21
NOTE: Kit includes 2 licenses, documentation and an Ethernet crossover cable.		
HP Serviceguard for Linux License		307554-B21
NOTE: Kit includes single license version and documentation.		
NOTE: For additional information regarding the HP Serviceguard for Linux License, please see the following QuickSpecs at: http://www5.compaq.com/products/quickspecs/11518_na/11518_na.html (North America) http://www5.compaq.com/products/quickspecs/11518_div/11518_div.html (Division/World Wide)		

External Storage - Rack		
StorageWorks Enclosure Model 4314R (rack-mountable)		190209-001
StorageWorks Enclosure Model 4314R (rack-mountable) (Int'l)		190209-B31
StorageWorks Enclosure Model 4314R (rack-mountable) (Japan)		190209-291
StorageWorks Enclosure Model 4354R (rack-mountable)		190211-001
StorageWorks Enclosure Model 4354R (rack-mountable) (Int'l)		190211-B31
StorageWorks Enclosure Model 4354R (rack-mountable) (Japan)		190211-291
NOTE: The StorageWorks Enclosure 4300 Family supports the Wide Ultra3, Ultra320 1″ Hot Plug Hard Drives.		
StorageWorks Enclosure 4200 Redundant Power Supply Option		119826-B21
StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option		190212-B21
StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option		190213-B21
StorageWorks Enclosure Tower to Rack Conversion Kit		150213-B21

Options

MSA1000	MSA 1000	201723-B22
	MSA 1000 Controller	218231-B22
	MSA Fibre Channel I/O Module	218960-B21
	MSA1000 Fabric Switch	218232-B21
	MSA 1000 Fibre Channel Adapter (FCA) 2101	245299-B21
	HP StorageWorks msa hub 2/3	286763-B21
	NOTE: Please see the HP StorageWorks modular SAN array 1000 QuickSpecs for additional options and configuration information at: http://www5.compaq.com/products/quickspecs/11033_na/11033_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11033_div/11033_div.HTML (Division/World Wide)	

StorageWorks Modular Array 8000/Enterprise Modular Array 12000	EMA12000 D14 60 Hz	175990-B21
	EMA12000 D14 50 Hz	175990-B22
	EMA12000 S14 60 Hz	175991-B21
	EMA12000 S14 50 Hz	175991-B22
	MA8000 60 Hz	175992-B21
	MA8000 50 Hz	175992-B22
	EMA12000 Blue 60 Hz	175993-B21
	EMA12000 Blue 50 Hz	175993-B22
	NOTE: Options include controller, solution kits, ACS. MA8000/EMA12000 includes controller shelf, drive shelves and cabinet. Packaging upgrade to RA8000/ESA12000.	
	NOTE: Please see the StorageWorks MA8000/EMA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10545_na/10545_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10545_div/10545_div.HTML (Division/World Wide)	

StorageWorks Enterprise Modular Array 16000 FC	EMA16000 D14 50Hz (opal)	238792-B22
	EMA16000 D14 60Hz (opal)	238792-B21
	EMA16000 S14 50Hz (opal)	238791-B22
	EMA16000 S14 60Hz (opal)	238791-B21
	NOTE: Models include: Dual HSG80 controllers in each Model 2200 enclosure (2 pairs per single bus configuration, 4 pairs per dual bus configuration) with 1GB cache per controller pair, and 12 14-bay drive enclosures with redundant power supplies. Configure-to-Order (CTO) builds are available. Options include ACS, platform kits and software by HP.	
	NOTE: Please see the StorageWorks EMA16000 QuickSpecs for FC switches, platform software, host adapters, disks and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10812_na/10812_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10812_div/10812_div.HTML (Division/World Wide)	

StorageWorks Options	StorageWorks SAN Switch 2/8-EL	258707-B21
	StorageWorks SAN Switch 2/16-EL	283056-B21
	StorageWorks SAN Switch 2/8-EL Upgrade Kit	288162-B21
	StorageWorks SAN Switch 2/16-EL Upgrade Kit	288250-B21
	StorageWorks SAN Director 64	254512-B21
	NOTE: Please see the StorageWorks SAN Director 64 QuickSpecs for additional information: http://www5.compaq.com/products/quickspecs/11003_na/11003_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11003_div/11003_div.HTML (Division/World Wide)	

Options

| 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.that lists cable descriptions, requirements, and specifications for UPS units.* ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf. | |

Uninterruptible Power Systems – Rack	Compaq UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA)	204404-001
	Compaq UPS R1500 XR (1500VA, 1340 Watt), High Voltage (Int'l)	204404-B31
	Compaq UPS R1500 XR (1500VA, 1340 Watt), Low Voltage (Japan)	204404-291
	Compaq UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA)	192186-001
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA)	192186-002
	Compaq UPS R3000 XR (2400VA, 2250 Watt), Low Voltage (Japan)	192186-291
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan)	192186-292
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord)	192186-B31
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug)	192186-B32
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug)	192186-B33
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug)	192186-AR1
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (NA)	347207-001
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Int'l)	347207-B31
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Japan)	347207-291
	Compaq UPS R12000 XR, N+x (12KVA, 12KW) High Voltage (WW)	207552-B22
	NOTE: UPS R6000 has a hardwired input; and the UPS R12000 XR has a hardwired input and output connection.	

UPS Options	SNMP Serial Port Card	192189-B21
	NOTE: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.	
	Six Port Card **NOTE**: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.	192185-B21
	High to Low Voltage Transformer (250VA) **NOTE**: Supports R6000 UPS series only. 2.5 amps @ 125 Volts max output across two NEMA 5-15.	388643-B21
	Extended Runtime Module, R1500 XR **NOTE**: 2U each, two ERM maximum.	218971-B21
	Extended Runtime Module, R3000 XR **NOTE**: 2U each, one ERM maximum.	192188-B21
	Extended Runtime Module, R6000 **NOTE**: 3U each, two ERM maximum.	347224-B21
	Extended Runtime Module, R12000 XR, 4U **NOTE**: 4U each, two ERM maximum.	217800-B21
	SNMP-EN Adapter **NOTE**: Supports R6000 UPS series only.	347225-B21
	Multi-Server UPS Card **NOTE**: Supports R6000 UPS series only.	123508-B21
	Scalable UPS Card **NOTE**: Supports R6000 UPS series only.	123509-B21
	Cable, 16A, IEC320-C20 to IEC320-C19	295633-B21
	NOTE: Power cord (295633-B21) connects ProLiant servers to PDUs or UPSs with IEC320-C19 output connections.	

Options

UPS Options *(continued)*	Cable, 10A, IEC320-C14 to IEC320-C19	291034-B21

NOTE: Power cord (291034-B21) connects ProLiant DL580 G2 servers to PDUs or UPSs with IEC320-C13 output connections. This power cord has been specifically designed to work with the ProLiant DL580 G2 server. Please **NOTE** the following important precautions when deploying this power cord:

- Use the cord only in conjunction with the ProLiant DL580 G2 server.
- Use the cord to connect the ProLiant DL580 G2 server only to PDUs or UPSs with IEC320-C13 output connections.
- Do not use the cord with any other ProLiant or third party server.
- Do not use the cord with any other office equipment or computers.
- Do not use the cord as an extension cord.
- Do not plug the cord into a wall outlet.

Failure to adhere to these precautions may invalidate the server warranty.

Rack-Mountable PDUs – 1U/0U (Up to 12 outlets) **NOTE**: 0U mounting brackets shipped with the unit (separate option kit for 1U mounting).	Compaq Power Distribution Unit-16A (200 to 240V) (WW) **NOTE**: The 16A PDU also connects to the high volt models of the UPS R3000 XR (need cable P/N 340653-001 for North America) and the UPS R6000 models. Cable P/N 340653-001 required if connecting to UPS R3000 XR (192186-002 NA-High Volt model only).	207590-B21
	Compaq Power Distribution Unit-24A (200 to 240V) (NA, Japan, LA) **NOTE**: This PDU may also be used to connect to the low volt UPS R3000 XR model.	207590-D72
	Compaq Power Distribution Unit-32A (200 to 240V) (Int'l)	207590-B31
	Compaq Power Distribution Unit-40A (200 to 240V) (WW) **NOTE**: Hardwire input required.	207590-B23
	Compaq Power Distribution Unit-24A (100 to 127V) (NA, Japan, LA) **NOTE**: L5-30 input.	207590-D71
	1U PDU Mounting Brackets Kit	215852-B21

NOTE: Please see the following Power Distribution Unit (Zero-U/1U PDU) QuickSpecs for additional options including cables:
http://www5.compaq.com/products/quickspecs/10838_na/10838_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10838_div/10838_div.HTML (Division/World Wide)

Modular PDUs 1U/0U (Up to 32 outlets) **NOTE**: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks)	Modular Power Distribution Units (mPDU), High Volt Model, 16A (200-240 VAC) (WW) **NOTE**: This model has a detachable input power cord and is adaptable to country specific requirements. The 16A PDU also connects to the high volt models of the UPS R3000 XR and R6000 models. Cable P/N 340653-001 required if connecting to UPS R3000 XR (192186-002 NA -High Volt model only).	252663-B24
	Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan) **NOTE**: This model has a detachable input power cord and is adaptable to country specific requirements. The 16A PDU also connects to the high volt models of the UPS R3000 XR and R6000 models. Cable P/N 340653-001 required if connecting to UPS R3000 XR (192186-002 NA -High Volt model only).	252663-D71
	Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan) **NOTE**: L6-30 input.	252663-D72
	Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l)	252663-B31
	Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW) **NOTE**: The 40A model has a hardwired input.	252663-B21

NOTE: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including cables:
http://www5.compaq.com/products/quickspecs/11041_na/11041_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11041_div/11041_div.HTML (Division/World Wide)

Rack Builder	*Rack Builder for configuration assistance at* http://www.compaq.com/rackbuilder/.

Options

Third Party Rack Kit	DL580 G2 rack model support:	287528-B21
	The DL580 G2 Third Party rack kit 287528-B21 provides support for any rack, square hole or round hole, (including HP Rack System /E and HP Systems), with an adjustment range from 23 1/2″– 34″ deep.	
	NOTE: The Third party rack kit is required for round hole racks or for square hole racks that do not conform to the adjustment range of the standard rail that ships with the server.	

Telco Rack Support	DL580 G2 rack model support:	287528-B21
	Support for all 2-post Telco racks requires the Third Party option kit 287528-B21, plus an additional option kit from Rack Solutions. The Rack Solutions brackets can be purchased at: http://www.racksolutions.com/hp	

HP Rack 10000 Series (Graphite Metallic)	HP Rack 10842 (42U, 800mm wide) – Pallet	257415-B21
	HP Rack 10842 (42U, 800mm wide) – Shock Pallet	257415-B22
	HP Rack 10647 (47U) – Pallet	245160-B21
	HP Rack 10647 (47U) – Shock Pallet	245160-B23
	HP Rack 10642 (42U) – Pallet	245161-B21
	HP Rack 10642 (42U) – Shock Pallet	245161-B22
	HP Rack 10642 (42U) – Crated	245161-B23
	HP Rack 10636 (36U) – Pallet	245162-B21
	HP Rack 10636 (36U) - Shock Pallet	245162-B22
	HP Rack 10636 (36U) – Crated	245162-B23
	HP Rack 10622 (22U) – Pallet	245163-B21
	HP Rack 10622 (22U) – Shock Pallet	245163-B22
	HP Rack 10622 (22U) – Crated	245163-B23

NOTE: -B21 (pallet) used to ship empty racks shipped on a truck
-B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels)
-B23 (crated) used for air shipments of empty racks

NOTE: Please see the Rack 10000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:
http://www5.compaq.com/products/quickspecs/10995_div/10995_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10995_na/10995_na.HTML (North America)

NOTE: For additional information regarding Rack Cabinets, please see the following URL:
http://www.compaq.com/racks

Options

Compaq Rack 9000 Series (opal)	Compaq Rack 9142 (42U) – Pallet	120663-B21
	Compaq Rack 9142 (42U) – Shock Pallet	120663-B22
	Compaq Rack 9142 (42U) – Crated	120663-B23
	Compaq Rack 9136 (36U) – Pallet	120664-B21
	Compaq Rack 9136 (36U) – Shock Pallet	120664-B22
	Compaq Rack 9136 (36U) – Crated	120664-B23
	Compaq Rack 9122 (22U) – Pallet	120665-B21
	Compaq Rack 9122 (22U) – Shock Pallet	120665-B22
	Compaq Rack 9122 (22U) – Crated	120665-B23
	Compaq Rack 9842 (800mm wide, 42U) – Pallet	222192-B21

NOTE: -B21 (pallet) used to ship empty racks shipped on a truck
-B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels)
-B23 (crated) used for air shipments of empty racks

NOTE: Please see the Rack 9000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:
http://www5.compaq.com/products/quickspecs/10366_div/10366_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10366_na/10366_na.HTML (North America)

NOTE: For additional information regarding Rack Cabinets, please see the following URL:
http://www.compaq.com/racks

Rack Options for HP Rack 10000 Series	Rack Blanking Panels – Graphite (Multi)	253214-B26
	NOTE: Contains one each of 1U, 2U, 3U, and 4U panel.	
	Rack Blanking Panels – Graphite (1U) **NOTE**: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (1U).	253214-B21
	Rack Blanking Panels – Graphite (2U) **NOTE**: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (2U).	253214-B22
	Rack Blanking Panels – Graphite (3U) **NOTE**: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (3U).	253214-B23
	Rack Blanking Panels – Graphite (4U) **NOTE**: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (4U).	253214-B24
	Rack Blanking Panels – Graphite (5U) **NOTE**: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (5U).	253214-B25
	800mm Wide Stabilizer Kit (Graphite)	255488-B21
	NOTE: Supported by the Rack 10842 cabinet only.	
	600mm Stabilizer Kit – Graphite	246107-B21
	Baying Kit for Rack 10000 series (Carbon)	248929-B21
	42U Side Panel – Graphite Metallic	246099-B21
	110V Fan Kit (Graphite)	257413-B21
	NOTE: Roof Mount Includes power cord with IEC320-C13 to Nema 5-15P.	
	220V Fan Kit (Graphite)	257414-B21
	NOTE: Roof Mount Includes power cord with IEC320-C13 to Nema 6-15P.	
	36U Side Panel - Graphite Metallic (for 10636 Rack only)	246102-B21
	47U Side Panel - Graphite Metallic (for 10647 Rack only)	255486-B21
	9000/10000 Series 42U Offset Baying Kit	248931-B21

NOTE: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.

NOTE: For additional information regarding Rack Cabinets, please see the following URL:
http://www.compaq.com/rackoptions

Options

Rack Options for Compaq Rack 9000 Series	Baying/Coupling Kit	120669-B21
	42U Side Panel	120670-B21
	NOTE: The 42U Side Panel (PN 120670-B21) supports the Compaq Rack 9142 and Compaq Rack 9842.	
	36U Side Panel	120671-B21
	NOTE: The 36U Side Panel (PN 120671-B21) supports the Compaq Rack 9136.	
	9142 Extension Kit	120679-B21
	NOTE: The 9142 Extension Kit (PN 120679-B21) supports the Compaq Rack 9142 only.	
	9142 Split Rear Door	254045-B21
	NOTE: The 9142 Split Rear Door (PN 254045-B21) supports the 600 mm wide, 42U 9000 series rack.	
	9136 Extension Kit	218216-B21
	9142 Short Rear Door	218217-B21
	NOTE: The 9142 Short Rear Door (PN 218217-B21) supports the Compaq Rack 9142 only.	
	9136 Short Rear Door	218218-B21
	9122 Short Rear Door (Opal)	218219-B21
	800mm Stabilizer Option Kit (Opal)	234493-B21
	NOTE: The 800mm Stabilizer Kit (PN 234493-B21) supports the Rack 9842 only.	
	600mm Stabilizer Option Kit	120673-B21
	Rack Blanking Panel (Multi)	169940-B21
	NOTE: Kit includes four panels in 1U, 2U, 4U, and 8U.	
	Rack Blanking Panels (1U)	189453-B21
	NOTE: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (1U).	
	Rack Blanking Panels (2U)	189453-B22
	NOTE: The Rack Blanking Panels (PN 189453-B22) contains 10 each of (2U).	
	Rack Blanking Panels (3U)	189453-B23
	NOTE: The Rack Blanking Panels (PN 189453-B23) contains 10 each of (3U).	
	Rack Blanking Panels (4U)	189453-B24
	NOTE: The Rack Blanking Panels (PN 189453-B24) contains 10 each of (4U).	
	Rack Blanking Panels (5U)	189453-B25
	NOTE: The Rack Blanking Panels (PN 189453-B25) contains 10 each of (5U).	
	9000/10000 Series 42U Offset Baying Kit	248931-B21
	NOTE: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.	
	NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://www.compaq.com/rackoptions	
Rack Options for Compaq Rack 7000 Series	High Air Flow Rack Door Insert for 7122	157847-B21
	High Air Flow Rack Door Insert for 7142	327281-B21
	High Air Flow Rack Door Insert for 7142 (six pack)	327281-B22
	Compaq Networking Cable Management Kit	292407-B21
	Compaq Rack Extension Kit for 7142	154392-B21
	NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://www.compaq.com/rackoptions	

Options

Rack Options for Rack 7000, 9000 and 100000 Series	Ballast Option Kit	120672-B21
	Rack Rail Adapter Kit (25-inch depth)	120675-B21
	Cable Management D-Rings Kit	168233-B21
	Monitor/Utility Shelf - Graphite	253449-B21
	Depth Adjustable Fixed Rail	332558-B21
	Input Device Adjustable Rails	287139-B21
	NOTE: Input Device Adjustable Rails (287139-B21) are for use ONLY with the TFT5110R, TFT5600RKM and integrated keyboard/drawer which is used in mounting into third party racks.	
	Input Device Telco Rails	287138-B21
	NOTE: Input Device Telco Rails (287138-B21) are for use ONLY with the TFT5110R, TFT5600RKM and integrated keyboard/drawer which is used in mounting into third party racks.	
	Console Management Controller (CMC) Option Kit	203039-B21
	Console Management Controller (CMC) Sensors Option Kit	203039-B22
	Console Management Controller (CMC) Locking Option Kit	203039-B23
	Console Management Controller (CMC) Smoke Sensors Option Kit	203039-B24
	Server Console Switch 1 x 2 port (100 to 230 VAC)	120206-001
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Int'l)	120206-B31
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Japan)	120206-291
	Server Console Switch 1 x 4 port (100 to 230 VAC)	400336-001
	Server Console Switch 1 x 4 port (100 to 230 VAC) (Int'l)	400336-B31
	Server Console Switch 1 x 4 port (100 to 230 VAC) (Japan)	400336-291
	Server Console Switch 1 x 8 port (100 to 230 VAC)	400337-001
	Server Console Switch 1 x 8 port (100 to 230 VAC) (Int'l)	400337-B31
	Server Console Switch 1 x 8 port (100 to 230 VAC) (Japan)	400337-291
	Server Console Switch 1 x 2 port (100 to 230 VAC)	400338-001
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Int'l)	400338-B31
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Japan)	400338-291
	Server Console Switch 2 x 8 port (48 VDC)	400542-B21
	KVM 9 PIN Adapter (4 Pack)	149361-B21
	CPU to Server Console Cable, 12′	110936-B21
	CPU to Server Console Cable, 20′	110936-B22
	CPU to Server Console Cable, 40′	110936-B23
	CPU to Server Console Cable, 3′	110936-B24
	CPU to Server Console Cable, 7′	110936-B25
	CPU to Server Console Cable (Plenum Rated) 20′	149363-B21
	CPU to Server Console Cable (Plenum Rated) 40′	149364-B21
	Switch Box Connector Kit (115 V)	144007-001
	Switch Box Connector Kit (230 V)	144007-002
	Switch Box Connector Kit (high voltage) (Int'l)	144007-B33
	TFT5600 RKM (Rack-mount Keyboard Monitor)	221546-xx1

Country Code Key (for TFT5600 RKM Rack Keyboard Monitor (PN 221546-xx1))

XX = 001	US	XX = 091	Norway
XX = 031	UK	XX = 101	Sweden/Finland
XX = 041	Germany	XX = 111	Switzerland
XX = 051	France	XX = 131	Portugal
XX = 061	Italy	XX = 181	Belgium
XX = 071	Spain	XX = 291	Japan
XX = 081	Denmark	XX = B31	International

Options

Rack Options for Rack 7000, 9000 and 10000 Series *(continued)*	Keyboard with Hot Keys and Trackball			158649-xx1
	Country Code Key (for 1U Rack Keyboard & Drawer (PN 257054-xxx))			

XX = 001	US	XX = 091	Norway
XX = 031	UK	XX = 101	Sweden/Finland
XX = 041	Germany	XX = 111	Switzerland
XX = 051	France	XX = 131	Portugal
XX = 061	Italy	XX = 181	Belgium
XX = 071	Spain	XX = 291	Japan
XX = 081	Denmark	XX = B31	International

NOTE: For additional information regarding Rack Cabinets, please see the following URL:
http://www.compaq.com/rackoptions

Service and Support Offerings (CarePaq Services)	*Hardware Services 4-Hour On-site Service*	
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for U.S.)	401783-002
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for Canada)	401783-122
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for EMEA)	324418-002
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for U.S.)	401782-002
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for Canada)	401782-122
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for EMEA)	376911-022
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for U.S.)	401783-002
	Installation & Start-up Services	
	Hardware Installation (2-5-2 Part Number for Canada)	FP-MIINS-IN
	Hardware Installation (6-3 Part Number for US)	401793-002
	Hardware Installation (6-3 Part Number for EMEA)	Quote
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Win NT Operating System plus up to I day start-up activity, configure print & network access services, and orientation (2-5-2 Part Number for Canada.)	FM-MSTEC-03
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Win NT Operating System plus up to I day start-up activity, configure print & network access services, and orientation (6-3 Part Number for U.S.)	240015-002
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Novell NetWare Operating System plus up to I day start-up activity, configure print & network access services, and orientation (2-5-2 Part Number for Canada)	FM-NSTEC-03
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Novell NetWare Operating System plus up to I day start-up activity, configure print & network access services, and orientation (6-3 Part Number for U.S.)	240010-002
	Server Installation and Set-Up (Installation of the server, installation of the appropriate service tools, check to ensure device SW and firmware is loaded and installation of the operating system software (6-3 Part Number for EMEA.)	204564-022

Options

Service and Support Offerings (CarePaq Services) *(continued)*		
	CarePaq Priority Services for ProLiant Servers – Priority Level	
	9x5 4-hour H/W, 9x5 2-hour O/S (NT & NetWare), 3 Years (6-3 Part Number for EMEA)	179836-022
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (2-5-2 Part Number for Canada)	FM-M01E3-36
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239936-002
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Novell NetWare Operating System, Next Available Specialist (2-5-2 Part Number for Canada)	FM-N01E3-36
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239976-002
	CarePaq Priority Services for ProLiant Servers – Priority 24 Level	
	24x7 4-hour H/W, 24x7 2-hour O/S (NT & NetWare), 3 years (6-3 Part Number for EMEA)	179841-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Bronze Software Support, 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239938-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Bronze Software Support, 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239978-002
	CarePaq Priority Services for ProLiant Servers - Priority Silver	
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review (2-5-2 Part Number for Canada)	FM-M04E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System Operating System, Technical Account Manager, Technical Newsletter, SW activity review (6-3 Part Number for U.S.)	239940-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239942-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)	FM-M24E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (2-5-2 Part Number for Canada)	FM-N04E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (6-3 Part Number for U.S.)	239980-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada.)	FM-N24E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239982-002

Options

Service and Support Offerings (CarePaq Services) *(continued)*	*CarePaq Priority Services for **ProLiant** Servers – Priority Gold*	
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (2-5-2 Part Number for Canada)	FM-M08E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (6-3 Part Number for U.S.)	239944-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)	FM-M28E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239946-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (2-5-2 Part Number for Canada)	FM-N08E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (6-3 Part Number for U.S.)	239984-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada)	FM-N28E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239986-002
	*CarePaq Priority Services for **ProLiant** Servers – Priority Gold Executive*	
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (2-5-2 Part Number for Canada)	FM-M09E3-36
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (6-3 Part Number for U.S.)	239948-002
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)	FM-M29E3-36
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239950-002
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (2-5-2 Part Number for Canada.)	FM-N09E3-36
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (6-3 Part Number for U.S.)	239988-002
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada)	FM-N29E3-36
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239990-002
	NOTE: For more information, customer/resellers can contact http://www.compaq.com/services.	

Memory

HP ProLiant DL580 G2 1.60 GHz 2P Models and 1.40 GHz 2P Models

STANDARD MEMORY

2048 MB 200MHz Double Data Rate (DDR) SDRAM (PC1600 Registered SDRAM Memory with Advanced ECC functionality)

STANDARD MEMORY PLUS OPTIONAL MEMORY AND OPTIONAL MEMORY BOARD

Up to 26,624-MB memory is available with the optional installation of PC1600 Registered ECC SDRAM Memory kits and a second, optional memory board.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY AND OPTIONAL MEMORY BOARD

Up to 32,768-MB of memory is available with the removal of the standard 2048-MB of memory, the optional installation of PC1600 Registered ECC SDRAM Memory kits, and a second, optional memory board.

NOTE: Memory must be added in banks of four DIMMS. This chart does not represent all possible memory configurations.

Memory		Standard Memory Board (Slots)								Optional 2nd Memory Board (Slots)							
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Standard	2048MB	512 MB	512 MB	512 MB	512 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	26,624 MB	512 MB	512 MB	512 MB	512 MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB
Maximum	32,768 MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB

The following memory options are available from HP:

- 1024-MB PC1600 Registered ECC SDRAM Memory Kit (4 x 256 MB)   202170-B21
- 2048-MB PC1600 Registered ECC SDRAM Memory Kit (4 x 512 MB)   202171-B21
- 4096-MB PC1600 Registered ECC SDRAM Memory Kit (4 x 1024 MB)   202172-B21
- 8192-MB PC1600 Registered ECC SDRAM Memory Kit (4 x 2048 MB)   202173-B21

Expand your memory capacity with the DL580 G2 Hot Plug Memory Expansion Board. Provides 8 additional DIMM slots for powering memory-intensive applications.

- Hot Plug Memory Expansion Board   203320-B21

Memory

HP ProLiant DL580 G2 1.40 GHz 1P Model

STANDARD MEMORY

1024 MB 200MHz Double Data Rate (DDR) SDRAM (PC1600 Registered SDRAM Memory with Advanced ECC functionality

STANDARD MEMORY PLUS OPTIONAL MEMORY AND OPTIONAL MEMORY BOARD

Up to 25,600-MB memory is available with the optional installation of PC1600 Registered ECC SDRAM Memory kits and a second, optional memory board.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY AND OPTIONAL MEMORY BOARD

Up to 32,768-MB of memory is available with the removal of the standard 1024-MB of memory, the optional installation PC1600 Registered ECC SDRAM Memory kits, and a second, optional memory board.

NOTE: Memory must be added in banks of four DIMMS. This chart does not represent all possible memory configurations.

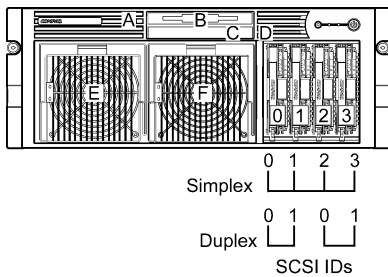| Memory		Standard Memory Board (Slots)								Optional 2nd Memory Board (Slots)							
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Standard	1024MB	256 MB	256 MB	256 MB	256 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	25,600 MB	256 MB	256 MB	256 MB	256 MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB
Maximum	32,768 MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB	2048MB

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Expand your memory capacity with the DL580 G2 Hot Plug Memory Expansion Board. Provides 8 additional DIMM slots for powering memory-intensive applications.

- Hot Plug Memory Expansion Board   203320-B21

Storage

A	Diskette Drive eject button
B	Ejectable: 24x IDE CD-ROM (Slimline)
C	Ejectable: 1.44-MB Diskette Drive (Slimline)
D	CD-ROM Drive eject button
E	800-Watt (low line or high line) Redundant Hot Plug Power Supply
F	800-Watt (low line or high line) Primary Hot Plug Power Supply
0-3	Wide Ultra3 Drive Cage (Duplex or Simplex configurable). Duplex is standard shipping configuration

DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Ejectable Slim Line Drives			
1.44-MB slim-line Diskette Drive	Up to 1	C	Integrated
IDE slim-line CD-ROM Drive	Up to 1	B	Integrated IDE
Slimline DVD-ROM Drive (8X/24X) Option Kit	Up to 1	B or C	Integrated IDE
Hard Drives			
Ultra320 Hot Pluggable Drives			
1-inch 146.8-GB 10,000 rpm 72.8-GB 10,000 rpm 36.4-GB 10,000 rpm 72.8-GB 15,000 rpm 36.4-GB 15,000 rpm 18.2-GB 15,000 rpm	Up to 4	0-3	Smart Array 5i Controller (integrated on system board) Smart Array 532 Controller Smart Array 5302/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller Smart Array 641 Controller Smart Array 642 Controller 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter

NOTE: All U320 Universal Hard Drives are backward compatible to U2 or U3 speeds. U320 drives require an optional U320 Smart Array Controller or U320 SCSI HBA to support U320 transfer rates.

External Storage			
StorageWorks Enclosure 4300 Family (supports Ultra2/Ultra3 drives only)	Up to 20 (using Smart Array 5300 Controller)	External	Smart Array 532 Controller Smart Array 5302/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller Smart Array 642 Controller 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
MSA 1000	Please see the MSA 1000 QuickSpecs below to determine configuration requirements	External	Please see the MSA 1000 QuickSpecs (URL below) for the latest list of supported HBAs

MSA 1000: http://www5.compaq.com/products/quickspecs/11033_div/11033_div.HTML

Storage

DRIVE SUPPORT *(continued)*

Maximum Storage Capacity – (External StorageWorks Enclosure Attached)

Internal	587.2 GB (4 x 146.8-GB Ultra320 SCSI 1″ Drives)
External	41.104 TB (20 x (14 x 146.8-GB 1″ Ultra320 SCSI Drives))
Total	41.691 TB

	Quantity Supported	Position Supported	Controller
Tape Drives			

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://www5.compaq.com/products/quickspecs/North_America/10233.html (North America)
      http://www5.compaq.com/products/quickspecs/Division/10233.html (Division/World Wide)

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Storage Systems listed below, please see the following:
      http://www5.compaq.com/products/quickspecs/North_America/10809.html (North America)
      http://www5.compaq.com/products/quickspecs/Division/10809.html (Division/World Wide)

	Quantity Supported	Position Supported	Controller
Internal AIT 100-GB, Hot Plug Internal AIT 50-GB, Hot Plug Internal AIT 35-GB, LVD, Hot Plug Internal 20/40-GB DAT, Hot Plug	Up to 1	0 & 1 or 2 & 3	Smart Array 5i Controller (integrated on system board) Smart Array 532 *NOTE: The Smart Array 532 Controller does not support the AIT 100-GB Hot Plug Tape Drive. Smart Array 5302/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller Smart Array 641 Controller Smart Array 642 Controller 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
External AIT 50-GB Tape Drive External AIT 35-GB, LVD Tape Drive	Up to 2	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
SDLT 110/220-GB, External SDLT 160/320-GB, External	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
DLT VS 40/80-GB, External External 40/80-GB DLT Enhanced External 20/40-GB DLT	Up to 3	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
HP StorageWorks AIT 35 GB Autoloader	Up to 1 (for a single HBA) Up to 2 (for a dual HBA)	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
SSL2020 AIT Mini-Library	2 drives per SCSI channel	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter SAN Access Module for Smart Array 5302 Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter
MSL5026DLX (40/80-GB DLT-based) and MSL5026SL (SDLT-based) Library	2 drives per SCSI channel	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
ESL9198SL ESL9326SL ESL9595SL	Please see the ESL Library QuickSpecs below to determine configuration requirements	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter

ESL9198SL: http://www5.compaq.com/products/quickspecs/10867_div/10867_div.HTML
ESL9326SL: http://www5.compaq.com/products/quickspecs/10868_div/10868_div.HTML
ESL9595SL: http://www5.compaq.com/products/quickspecs/11332_div/11332_div.HTML

Power Specifications

POWER SPECIFICATIONS

Part Number	278535-001
Spare Kit	192201-001
Operational Input Voltage Range (V rms)	90 to 264
Frequency Range (Nominal) (Hz)	47 to 63 (50/60)

Nominal Input Voltage (Vrms)	100	115	208	220	230	240
Max Rated Output Wattage Rating	800	800	800	800	800	800
Nominal Input Current (A rms)	11.7	9.9	5.2	4.9	4.7	4.5
Max Rated Input Wattage Rating (Watts)	1143	1111	1067	1067	1067	1053
Max. Rated VA (Volt-Amp)	1166	1134	1088	1088	1088	1074
Efficiency (%)	70	72	75	75	75	76
Power Factor	0.98	0.98	0.98	0.98	0.98	0.98
Leakage Current (mA)	0.43	0.50	.90	.96	1.00	1.04
Maximum Inrush Current (A peak)	25	25	25	25	25	25
Maximum Inrush Current duration (mS)	20	20	20	20	20	20

SYSTEM SPECIFICATIONS

DL580 G2 Fully Configured

Up to 4 Processors, 16 Memory Slots, 4 Hard Drives, 6 PCI Slots, and 2 Hot Plug Power Supplies

Nominal Input Voltage (Vrms)	100	115	208	220	230	240
Fully Loaded System Input Wattage (W)	954	928	890	890	890	879
Fully Loaded System Input AMPs (A rms)	10	8.5	4.4	4.1	4.0	3.7
Fully Loaded System Thermal (BTU-Hr)	3253	3163	3063	3063	3063	2996
Fully Loaded System VA (Volt-Amp)	1004	976	909	909	909	897
System Leakage with all power supplies loaded (mA)	.87	1.00	1.81	1.91	2.00	2.09
System Inrush Current with all power supplies loaded (A)	50	50	50	50	50	50
Power cord requirements	Nema 5-15P to IEC320-C19			Option no./Spare no: 235603-001/237457-001		
	PDU Jumper Cord IEC320-C19 to IEC320-C20			Option no./Spare no: 295633-B21/295508-001		
	PDU Jumper Cord IEC320-C14 to IEC320-C19			Option no./Spare no: 291034-B21/ 292241-001		

NOTES:

ActiveAnswers™ Power Calculation

Power calculator is LIVE on ActiveAnswers website. This is an external link.

Follow this link:

http://activeanswers.HP.com/aaconfiguratorcode/configurationUi.asp?HTMLFilename=Mainselections&UiLocalization=UnitedStates&DisplayCountry=United%20States

To drill down to calculators:

- Click on: "ProLiant Servers"
- Click on the Server of interest. Example: DL580 G2
- Click on: "Power Calculator" link (You may need to scroll down to see it.)

Technical Specifications

System Unit Rack			
	Chassis Footprint (HxWxD)	6.94 x 19 x 26.5 in/17.6 x 48.3 x 67.3 cm	
	Weight	66 lb/29.9 kg	
	No hard drives installed, one power supply		
	Input Requirements	Rated Input Voltage	100 to 120 VAC/200 to 240 VAC
		Rated Input Frequency	50 to 60 Hz
		Input Power	1135W @ 110 VAC/1125W @ 220 VAC
		Rated Input Current	12A (100 VAC), 9.8A (120 VAC), 4.9A (220 VAC)
	Max BTU Rating	4000 BTU	
	Power Supply Output Power (per power supply)	Rated Steady-State Power	800W/800W (lowline/highline)
		Maximum Peak Power	800W/800W (lowline/highline)
	Temperature Range	Operating	50° to 95° F/10° to 35° C
		Non-operating	-20° to 140° F/-29° to 60° C
		Shipping	-22° to 122° F/-30° to 50° C
	Relative Humidity (non-condensing)	Operating	10% to 70%
		Non-operating	5% to 95%
	Maximum Wet Bulb Temperature	101.7°F/38.7°C	
	Acoustic Noise	NOTE: Listed are the declared A-weighted sound power levels LWAd and the declared average bystander position sound pressure levels LpAm when operating in a 23° C ambient environment. Noise emissions were measured in accordance with ECMA 74 and declared in accordance with ECMA 109.	
		Idle (Steady State)	
		L_{WAd} (BELS)	7.0
		L_{pAm} (dBA)	54
		NOTE: These values apply to 4U rack configuration. Configuration tested included 2 processors, one 10, 000 rpm hard drive, 2 power supplies, 4 memory/IO fans and 3 CPU fans.	

1.44-MB Diskette Drive			
	Diskette Size	3.5 in	
	LED Indicators (front panel)	Green	
	Read/Write Capacity per Diskette (high/low density)	1.44 MB/720 KB	
	Drive Supported	One	
	Drive Height	One-third	
	Drive Rotation	300 rpm	
	Transfer Rate (high/low)	500/250 Kb/s	
	Bytes/Sector	512	
	Sectors/Track (high/low)	18/9	
	Tracks/Side (high/low)	80/80	
	Access Times	Track-to-Track (high/low)	3/6 ms
		Average (high/low)	169/94 ms
		Settling Time	15 ms
		Latency Average	100 ms
	Cylinders (high/low)	80/80	
	Read/Write Heads	Two	

QuickSpecs

Technical Specifications

24X Max (or higher) IDE CD-ROM Drive Slim Line	Disk	Applicable Disk	CD-ROM (Mode 1 and 2)
			CD-DA, CD-XA (Mode 2, Form 1 and 2)
			Photo CD (Single and Multi-session)
			Mixed Mode (Audio and Data combined)
		Capacity	540 MB (Mode 1, 12 cm)
			650 MB (Mode 2, 12 cm)
		Diameter	4.7 in, 3.15 in/12 cm, 8 cm
		Rotational Speed	4200 rpm maximum
		Center Hole	0.6 in/15 mm diameter
		Thickness	1.2 mm
		Track Pitch	1.6 µm
	Block Size	Mode 1	2,048
		Mode 2	2,340, 2,336, 1,024 bytes
		CD-DA	2,352 bytes
		CD-XA	2,328 bytes
	Interface	IDE (ATAPI)	
	Access Times (typical)	Random	100 ms
		Full-Stroke	2000 ms
	Audio Output Level	Line-Out	0.7 VRMS at 47 kOhms
		Headphone	0.6 VRMS at 32 kOhms (maximum volume)
	Data Transfer Rate	Sustained	150 KB/s (single)
		Burst	2100 to 3600 KB/s
	Cache Buffer	128 KB	
	Start-up Time (typical)	< 7 seconds	
	Stop Time	< 4 seconds	
	Laser Parameters	Type	Semiconductor Laser GaA1As
		Wave Length	780 ± 25 nm
		Divergence Angle	$53.5° \pm 1.5°$
		Output Power	0.14 mW
	Operating Conditions	Temperature	41° to 113°F/5° to 45°C
		Humidity	10% to 80%
	Dimensions	(HxWxD, maximum)	1.69 x 5.75 x 8.19 in/4.29 x 15 x 20.8 cm
		Weight	2.66 lb/1.2 kg

Technical Specifications

Integrated Lights-Out Standard (integrated on system board)	**Architecture**	32-bit PCI-based health and remote management ASIC (Application Specific Integrated Circuit)
	Processor	32-bit RISC processor core running at 66 MHz
	Upgradability	Option firmware upgradable via flash ROM.
	Video Support	Utilizes the host server's embedded video chip. Supports VGA/SVGA, 640 x 480 (256 to 16.7M colors), 800 x 600 (256 to 16.7M colors), 1024 x 768 (256 to 65K colors), 1280 x 1024 (256 colors)
	Interfaces	One Ethernet network connection (10/100 Mb/s)
	Memory	2-MB Flash ROM
		8-MB SDRAM
	Operating System Support	Microsoft Windows NT 4.0 Server
		Windows NT 4.0 Enterprise Edition
		Windows 2000 Server
		Windows 2000 Advanced Server
		Red Hat 7.x,
		SuSE 7.0,
		Novell NetWare 5.x, 6.x
	Client Browser Support	Microsoft Internet Explorer 5.5 or later.
	iLO Standard Features	Virtual Text Remote Console
		Virtual Power Button Control
		Dedicated LAN Connectivity
		Automatic IP Configuration via DHCP/DNS/WINS
		Industry Standard 128-bit Secure Sockets Layer (SSL) Security
		IML and iLO Event Logging
		Support for up to 12 user accounts with customizable access privileges
	iLO Advanced Features (optional)	Virtual Graphical Remote Console
		Virtual Floppy Drive

Technical Specifications

Integrated Smart Array 5i Plus Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI-X Bus	64-bit, 100 MHz (integrated on system board)
	PCI-X Peak Data Transfer Rate	800 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2
	SCSI Peak Data Transfer Rate	160 MB/s per channel
	NOTE: For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 320 MB/s total; 160 MB/s per channel and Channels is 2.	
	Channels	2
	NOTE: For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 320 MB/s total; 160 MB/s per channel and Channels is 2.	
	SCSI Ports (external/internal)	0/2
	NOTE: For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 320 MB/s total; 160 MB/s per channel and Channels is 2.	
	Drives Supported (maximum)	Maximum = total number of drives
	NOTE: Maximum is the total number of internal drives on each specific ProLiant server.	
	Cache	64 MB Read and/or Write Cache
	Battery-Backed Write Cache	Yes, with installation of Battery-Backed Write Cache Enabler, up to 64MB
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	Maximum = total number of drives
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Technical Specifications

Compaq NC7770 PCI-X Gigabit Server Adapter	**Network Interface**	10/100/1000-T	
	Compatibility	IEEE 802.3 10Base-T	
		IEEE 802.3ab 1000Base-T	
		IEEE 802.3u 100Base-TX	
	Data Transfer Method	64-bit/133MHz PCI-X	
	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-T (Half-Duplex)	1000 Mb/s
		1000Base-T (Full-Duplex)	2000 Mb/s
	Connector	RJ-45	
	Cable Support	10Base-T	Category 3,4 or 5 UTP up to 328 ft/100 m
		10/100/1000Base-T	Category 5 UTP (2 pair); up to 328 ft/100 m