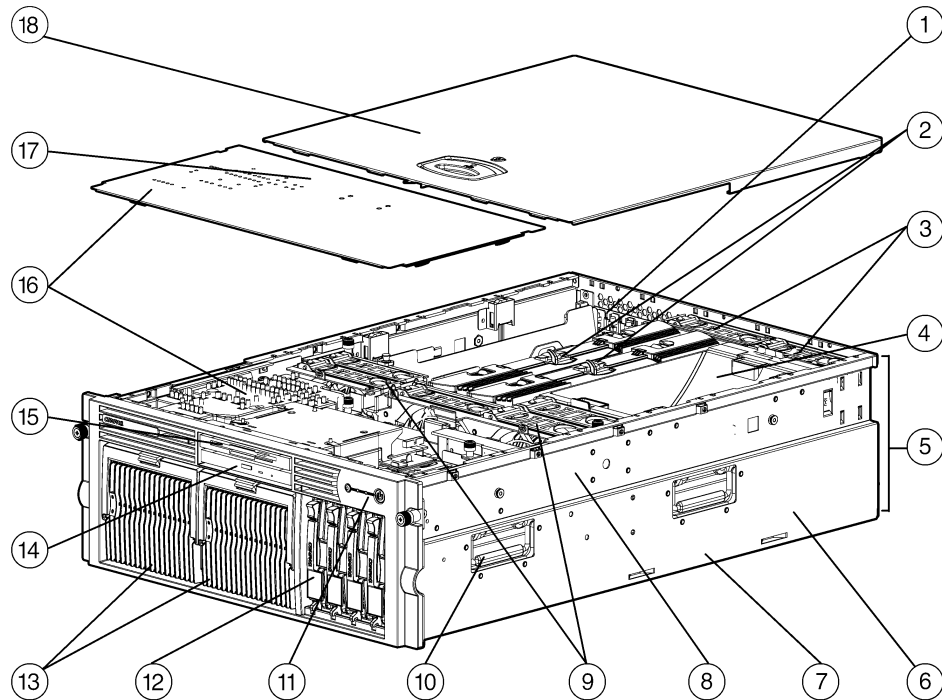


Overview

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 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
- Compaq 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 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)
- Wide Ultra3/Ultra4-ready Backplane, supports up to four 1" HDDs, Duplex or Simplex configurable
- Internal Hot Plug Drive Storage of up to 291.2 GB with 72.8-GB 1" Wide Ultra3 SCSI hard drives
- Redundant Cooling Zones for major subsystems (Memory, I/O, CPUs) assure 7x24 cooling
- 800W Hot Plug Redundant Power Supplies (1 std on 1P model)
- 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 Compaq Services, including a limited three-year parts, labor and on-site warranty with optional four-hour response. Pre-Failure Warranty and Compaq Service and Support Programs available on a Worldwide basis — Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.



- | | |
|--|--|
| <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 11. Front Panel LED Display (internal and external health, Unit ID light) and Power Button 12. Wide Ultra3/Ultra 4-ready 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. Multibay 1: Ejectable 24X (slim line) CD-ROM IDE Drive 15. Multibay 2: 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 |
|--|--|

Standard Features

Processor <i>One or more of the following depending on Model</i>	Intel Xeon Processor MP at 1.60 GHz\1MB Intel Xeon Processor MP at 1.40 GHz\512KB										
Cache Memory <i>One of the following depending on Model</i>	1-MB Integrated Level 3 Cache 512-KB Integrated Level 3 Cache										
Upgradability	Upgradable to quad processing										
Memory <i>One of the following depending on Model</i>	<table border="0"> <tr> <td>Standard</td> <td>2048 MB 200-MHz Double Data Rate (DDR) SDRAM (PC1600 Registered SDRAM Memory with Advanced ECC functionality) (2P Models)</td> </tr> <tr> <td>Maximum</td> <td>32 GB</td> </tr> <tr> <td>Standard</td> <td>1024 MB 200-MHz Double Data Rate (DDR) SDRAM (PC1600-MHz Registered SDRAM Memory with Advanced ECC functionality) (1P Model)</td> </tr> <tr> <td>Maximum</td> <td>32 GB</td> </tr> </table> <p>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.</p> <p>Note: 32 GB achieved with use of 2nd, optional memory board and 2GB Registered DIMM sticks.</p>	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		
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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										
Network Controller	Integrated Compaq NC7770 PCI-X Gigabit Server Adapter in a slot										
Expansion Slots	<table border="0"> <tr> <td>I/O (6 Total, 5 Available)</td> <td>PCI Voltage:</td> </tr> <tr> <td>64-bit/100-MHz PCI-X Hot Plug</td> <td>3, 4, 5 and 6 available 3.3 Volt or Universal cards (3.3/5.0V) only</td> </tr> <tr> <td>64-bit/100-MHz PCI-X Non-Hot Plug</td> <td>1, 2 (NIC in slot 2) 3.3 Volt or Universal (3.3/5.0V) cards only</td> </tr> </table>	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 2) 3.3 Volt or Universal (3.3/5.0V) cards only				
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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 2) 3.3 Volt or Universal (3.3/5.0V) cards only										
Manageability	Integrated Lights-Out (iLO) Management (ASIC on the System Board)										
Storage Controller	<p>Smart Array 5i Plus Controller, Dual Channel, Ultra3 (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) with 64 MB of memory.</p> <ul style="list-style-type: none"> 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 <p>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.</p> <p>Note: For complete list of devices supported the Smart Array 5i Controller see the following: http://www5.compaq.com/products/quickspecs/10890_div/10890_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10890_na/10890_na.HTML (North America)</p>										
Storage Data Protection	<p>The Battery-Backed Write Cache (BBWC) Enabler protects up to 64-MB write cache memory from hard boot, power, controller, or system board failures.</p> <ul style="list-style-type: none"> 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 <p>Note: Safely transport your write cache data to another DL580 G2 in the data center by removing the BBWC Enabler and 5i Plus Memory Module simultaneously (connected by short cable).</p>										
Storage	<table border="0"> <tr> <td>Diskette Drive (Multibay)</td> <td>1.44 MB (slim line) – ejectable for security and serviceability</td> </tr> <tr> <td>CD-ROM (Multibay)</td> <td>24x IDE CD-ROM Drive (slim line) – ejectable for security and serviceability</td> </tr> <tr> <td>Hard Drives</td> <td>None</td> </tr> <tr> <td>Maximum Internal Storage</td> <td>291.2 GB (4 x 72.8 GB Wide Ultra3 1" drives) (internal hot plug Ultra3/Ultra4-ready drive cage)</td> </tr> <tr> <td>Hard Disk Drive Backplane</td> <td>Internal Wide Ultra3/Ultra4-ready 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.</td> </tr> </table>	Diskette Drive (Multibay)	1.44 MB (slim line) – ejectable for security and serviceability	CD-ROM (Multibay)	24x IDE CD-ROM Drive (slim line) – ejectable for security and serviceability	Hard Drives	None	Maximum Internal Storage	291.2 GB (4 x 72.8 GB Wide Ultra3 1" drives) (internal hot plug Ultra3/Ultra4-ready drive cage)	Hard Disk Drive Backplane	Internal Wide Ultra3/Ultra4-ready 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.
Diskette Drive (Multibay)	1.44 MB (slim line) – ejectable for security and serviceability										
CD-ROM (Multibay)	24x IDE CD-ROM Drive (slim line) – ejectable for security and serviceability										
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Hard Disk Drive Backplane	Internal Wide Ultra3/Ultra4-ready 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.										

Standard Features

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	Compaq <i>Insight Manager 7™</i>	Compaq 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. Compaq Insight Manager 7 is easy to set up and provides rapid access to detailed fault and performance information gathered by the Compaq 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, Compaq Insight Manager 7 in concert with the Compaq Version Control Agents and Compaq Version Control Repository Manager enables systems administrators to version manage and update system software across groups of Compaq ProLiant servers.
	Compaq <i>SmartStart™</i>	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.compaq.com/smartstart . SmartStart version supported (minimum): SmartStart 5.40
	Compaq Management Agents	The Compaq Management Agents (http://www.compaq.com/products/servers/management/agents.html) form the foundation for Compaq's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into Compaq servers, workstations, desktops, and portables, and send alerts to Compaq Insight Manager 7 and other management consoles in case of subsystem or environmental failures. For additional information about the Compaq Management Agents and other management product from Compaq, please visit the management website at http://www.compaq.com/manage .
	Compaq <i>ActiveUpdate™</i>	Compaq ActiveUpdate is a web-based application that keeps IT managers directly connected to Compaq for proactive notification and delivery of the latest software updates.
	Compaq <i>ROMPac™</i> , support software, and configuration utilities	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options.
	Compaq Survey Utility and diagnostics utilities	The most advanced configuration analysis, reporting and troubleshooting utilities used by Compaq and at your fingertips.
	<i>Optional</i> ProLiant Essentials Value Packs	Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: <ul style="list-style-type: none"> • Rapid Deployment Pack – an automated Compaq 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.

Note: For more information regarding ProLiant Essentials Software, please see the following URL: <http://www.compaq.com/proliantessentials>.

Note: This Web site is available in English only.

Standard Features

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)

Compaq Insight Manager 7

Redundant ROM

Remote Flash ROM

ROM-Based Setup Utility (RBSU)

Integrated Management Log (IML)

Off-Line Backup Processor capability

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

Redundant/adaptive load balancing NIC Support

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.
- Compaq 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 Compaq Advanced Memory Protection modes are user configurable through the ROM-Based Setup Utility (RBSU) and viewable through Compaq Insight Manager 7 (CIM 7) and the Integrated Management Log (IML.)

- PCI-X Hot Plug Technology (Four 64bit/100MHz 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/Ultra4 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, multibay 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.
 - 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” rails

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

Required Cabling

For required cabling information, refer to the Compaq Web site at <http://www.compaq.com/products/servers/proliantDL580/>.
Note: This Web site is available in English only.

Standard Features

OS Support

Microsoft Windows NT® Server

Microsoft Windows 2000

Novell® NetWare®

LINUX® (RedHat®, SuSE®)

Note: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix at: <ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf>.

Note: For an up-to-date listing of the latest drivers available for the Compaq ProLiant DL580 G2, please see: <http://www.compaq.com/support/files/server/us/index.html>.

Service and Support

Compaq Services provides a wide range of service offerings, including a three-year, limited warranty that is fully supported by a worldwide network of resellers and service providers, lifetime, toll-free 7 x 24 hardware technical phone support and Pre-Failure Warranty coverage of hard drives, memory and processors. Disaster recovery services are available through partnership with Comdisco.

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.

Models

DL580R02 X1600-1MB, 2048MB (2P) <i>201203-xx1</i>	Processor	(2) Intel Xeon Processors MP at 1.60 GHz standard (up to 4 supported)
	Cache Memory	1-MB Integrated Level 3 Cache
	Memory	2048 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (4x1 interleaved memory and Compaq 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	291.2 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 X1400-512KB, 2048MB (2P) <i>201202-xx1</i>	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 Compaq 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	291.2 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 X1400-512KB, 1024MB (1P) <i>201201-xx1</i>	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 Compaq 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	291.2 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	Intel Xeon MP X1600-1MB Processor Option Kit	226776-B21
	Intel Xeon MP X1400-512KB Processor Option Kit	226775-B21
	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
	Hot Plug Memory Expansion Board	203320-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
	<i>Note: Ultra3 SCSI cables required to connect SCSI adapters and controllers to internal hard disk drives.</i>	
	Cord, AC Line, 20A, 250V, US	288875-B21
	Cable, 16A, IEC320-20 to IEC320-C19 <i>Note: Jumper Cable (295633-B21) for connecting servers to PDUs with IEC320 C19 output connections.</i>	295633-B21
ProLiant Essentials Value Pack Software	Rapid Deployment Pack, 1 User, V1.1 <i>Note: This license allows 1 server to be managed and deployed via the Deployment Server.</i>	267196-B21
	Rapid Deployment Pack, 10 Users, V1.1 <i>Note: This license allows 10 servers to be managed and deployed via the Deployment Server.</i>	269817-B21
	ProLiant Essentials Workload Management Pack (Featuring Compaq Resource Partitioning Manager version 1.1)	266988-B21
	Integrated Lights-Out (iLO) Advanced Pack	263825-B21
	<i>Note: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.compaq.com/proliantessentials. Note: This Web site is available in English only.</i>	
Processor	Intel Xeon MP X1600-1MB Processor Option Kit	226776-B21
	Intel Xeon MP X1400-512KB Processor Option Kit	226775-B21
	<i>Note: The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The Compaq 9000 and 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.</i>	
Memory (DIMMs)	8192MB PC1600 Registered ECC SDRAM Memory Kit (4 x 2048MB)	202173-B21
	4096MB PC1600 Registered ECC SDRAM Memory Kit (4 x 1024MB)	202172-B21
	2048MB PC1600 Registered ECC SDRAM Memory Kit (4 x 512MB)	202171-B21
	1024MB PC1600 Registered ECC SDRAM Memory Kit (4 x 256MB)	202170-B21
Optical Drives	Slimline DVD-ROM Drive (8X/24X) Option Kit	264007-B21
Hard Drives	Wide Ultra3 SCSI – Universal Hot Plug	
	72.8-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")	232432-B22
	36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")	176496-B22
	18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")	142673-B22
	36.4-GB Wide Ultra3 SCSI 15,000 rpm Drive (1")	232916-B22
	18.2-GB Wide Ultra3 SCSI 15,000 rpm Drive (1")	188122-B22

Options

Storage Controllers	Smart Array 431 Controller	127695-B21	
	Smart Array 431 Controller (Japan)	127695-291	
	Smart Array 532 Controller	225338-B21	
	Smart Array 532 Controller (Japan)	225338-291	
	Smart Array 5302/32 Controller	166207-B21	
	Smart Array 5302/32 Controller (Japan)	166207-291	
	Smart Array 5302/64 Controller	124992-B21	
	Smart Array 5302/64 Controller (Japan)	124992-291	
	Smart Array 5304/128 Controller	158939-B21	
	Smart Array 5304/128 Controller (Japan)	158939-291	
	Smart Array 5312 Controller	238633-B21	
	Smart Array 5312 Controller (Japan)	238633-291	
	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	
	<i>Note: This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series controllers, MSA 1000 and the Smart Array Cluster Storage</i>		
	Advanced Data Guarding Module for Smart Array 5302 Controller	199371-B21	
	Battery-Backed Write Cache Enabler Option Kit	255514-B21	
	<i>Note: This Battery-Backed Write Cache Enable Option Kit (PN 255514-xx1) is optional for the DL580 G2 1P Model only.</i>		
	Battery-Backed Write Cache Enabler Option Kit (Japan)	255514-291	
	<i>Note: This Battery-Backed Write Cache Enable Option Kit (PN 255514-xx1) is optional for the DL580 G2 1P Model only.</i>		
	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	154457-B21	
64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter (Japan)	154457-291		
64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21		
64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291		
Communications	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21	
	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 and NC3131	138604-B21	
	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134 and NC3131	338456-B23	
	Compaq NC6133 Gigabit Module 1000 LX Upgrade Module for NC3134 and NC3131	338456-B24	
	Compaq NC3133 Fast Ethernet Module 100 FX Upgrade Module for NC3134 and NC3131	338456-B25	
	Compaq NC6136 Gigabit Server Adapter, 64-bit/66-MHz, PCI, 1000 SX	203539-B21	
	Compaq NC7770 PCI-X Gigabit Server Adapter	244948-B21	
	Compaq NC7132 10/100/1000-T Upgrade Module for NC3134 and NC3131	153543-B21	
Security	Compaq AXL300 Accelerator PCI Card for ProLiant Servers	227933-B21	

Options

Monitors		
	Flat Panel TFT7020 Color Monitor Two-Tone (Carbon/Silver)	253216-xxx
	Flat Panel TFT5015 Color Monitor (Opal)	234043-xxx
	Flat Panel TFT5015 Color Monitor Two-Tone (Carbon/Silver)	234044-xxx
	Flat Panel TFT5030 Color Monitor Two-Tone (Carbon/Silver)	228134-xxx
	P720 CRT Monitor Two-Tone (Carbon/Silver)	244373-xxx
	V720 CRT Monitor (Opal)	232943-xxx
	V720 CRT Monitor Two-Tone (Carbon/Silver)	232944-xxx
	V570 CRT Monitor (opal)	228114-xxx
	V570 CRT Monitor Two-Tone (Carbon/Silver)	228113-xxx
	S720 CRT Monitor (Opal) (Lite-On)	239286-xxx
	Note: Available in North America, Canada, and Greater China only.	
	S720 CRT Monitor Two Tone (Carbon/Silver) (Lite-On)	239287-xxx
	Note: Available in North America, Canada, and Greater China only.	
	S720 CRT Monitor (Opal) (Samsung)	238992-xxx
	Note: Available in APD, Latin America, EMEA, and Japan only.	
	S720 CRT Monitor Two Tone (Carbon/Silver) (Samsung)	238993-xxx
	Note: Available in APD, Latin America, EMEA, and Japan only.	
	S710 Color Monitor	152991-xxx
	TFT5010R Flat Panel Monitor (NA)	217248-001
	TFT5010R Flat Panel Monitor (Int'l)	217248-B31
	TFT5010R Flat Panel Monitor (Japan)	217248-291

CRT Country Code Key

NORTH AMERICA (NA)/LATIN AMERICA (LA)

Dash #	Description
-001	NA Kit with U.S. Power Cord
-002	Carbon model with U.S. Power Cord
-003	Touch Screen model with US Power Cord
-004	NAFTA model with U.S. Power Cord (Made in Mexico)
-006	GSA model with U.S. Power Cord
-007	NH MPR model with U.S. power cord (Made in Mexico)
-B24	TCO model without power cord (Digital Classic)
-201	EH model for Brazil (older Brazil models used -B29)
-202	EH model for Brazil Carbon (older Brazil models used -B29)
-C91	EH model for Mercosur countries
-C92	EH model for Mercosur countries Carbon
-B29	EH/ALADI model for Latin America

[Note: All NA/LA models above are NH](#)

Options

CRT Country Code Key (continued)

EUROPE, MIDDLE EAST AND AFRICA (EMEA)

Dash #	Description
-021	NH/TCO with Eurocord (DCE Hub)
-022	NH/MPR with Eurocord (DCE Hub) (India)
-023	NH Carbon model with Eurocord (DCE Hub)
-024	NH Touch Screen model with Eurocord (DCE Hub)
-A91	NH/ CO without power cord (Dubai hub)
-A92	NH/ PR without power cord (Dubai hub)
-031	NH/TCO with UK Cord (UK Hub)
-032	NH/MPR with UK Cord (UK Hub)
-033	NH/TCO carbon with UK Cord
-B21	SH/MPR without power cord (S. Africa Hub)
-B23	SH/TCO without power cord (S. Africa Hub)
-B27	SH/TCO Carbon without power cord (S. Africa Hub)

PACIFIC/AUSTRALIA (APD)

Dash #	Description
-B22	NH/MPR without power cord
-B24	NH/TCO without power cord
-B25	EH Carbon model without power cord
-B26	NH Touch Screen model without power cord
-011	SH model with AUZ/NZ power cord
-012	SH Carbon model with AUZ/NZ power cord
-AD1	NH model for Korea
-AD2	NH Carbon model for Korea
-B28	EH model without power cord

GREATER CHINA (GCD)

Dash #	Description
-AA1	NH/China Kit with CCIB label (Local Sales)
-AA2	NH/ Carbon China Kit with CCIB label (Local Sales)
-KA1	NH/China Kit with CCIB label (External Sales/Bundles in HK)
-AB1	NH/Taiwan kit, mfg. in Taiwan

JAPAN (CKK)

Dash #	Description
-291	NH/Japan Kit with 3-2 pin adapter
-292	NH Carbon Japan Kit with 3-2 pin adapter

Options

TFT Country Code Key	EUROPE, MIDDLE EAST & AFRICA (EMEA)
Dash #	Description
-021	Europe
-031	UK
NORTH AMERICA	
Dash #	Description
-001	NA
-B24	All NA/LA models
APD	
Dash #	Description
-011	Australia/NZ
JAPAN (CKK)	
Dash #	Description
-291	Japan

Tape Drives

Internal and External DAT Tape Drives

External 20/40-GB DAT DDS-4 Tape Drive (Opal)	157770-001
External 20/40-GB DAT DDS-4 Tape Drive (Int'l) (Opal)	157770-B31
External 20/40-GB DAT DDS-4 Tape Drive (Japan) (Opal)	157770-291
Internal 20/40-GB DAT, Hot Plug (Carbon)	215488-B21
3U Rackmount Tape Drive Kit	274338-B21

Note: Please see the Compaq 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

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

Note: Please see the Compaq 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)

Internal AIT 50-GB, Hot Plug (Carbon)	215487-B21
External AIT 50-GB Tape Drive (Opal)	157767-001
External AIT 50-GB Tape Drive (Int'l) (Opal)	157767-B31
External AIT 50-GB Tape Drive (Japan) (Opal)	157767-291
Rackmount AIT 50-GB, 3U (Single Drive)	274333-B21
3U Rackmount Tape Drive Kit	274338-B21

Note: Please see the Compaq 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)

Internal AIT 100-GB, Hot-Plug (Carbon)	249161-B21
External AIT 100-GB Tape Drive (Carbon)	249160-001
External AIT 100-GB Tape Drive (Carbon) (Int'l)	249160-B31

Note: Please see the Compaq 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/SDLT Tape Drives

External 20/40-GB DLT Drive (opal)	340744-B22
External 20/40-GB DLT Drive (opal) (Japan)	340744-292

Note: Please see the Compaq 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)

External 40/80-GB DLT Enhanced Drive (Opal)	146197-B22
External 40/80-GB DLT Enhanced Drive (Japan) (Opal)	146197-292
External 40/80-GB DLT Enhanced Drive (Carbon)	146197-B31
External 40/80-GB DLT Enhanced Drive (Japan) (Carbon)	146197-293
Rackmount DLT 40/80, 3U (Single Drive)	274332-B21
Rackmount DLT 40/80, Dual-Drive, 3U (Two Drives)	274335-B21
Rackmount DLT 40/80 Tape Array III, 5U (Four Drives)	274337-B21

Note: Please see the Compaq 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.compaq.com/products/quickspecs/10658_na/10658_na.HTML (North America)

SDLT 110/220 External, NA (Opal)	192103-001
SDLT 110/220 External, Int'l (Opal)	192103-B31
SDLT 110/220 External, Japan (Opal)	192103-291
Rackmount SDLT 110/220, 3U (Single Drive)	274331-B21
Rackmount SDLT 110/220, Dual-Drive, 3U (Two Drives)	274334-B21
Rackmount SDLT 110/220 Tape Array III, 5U (Four Drives)	274336-B21

Note: Please see the Compaq 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
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Note: Please see the *StorageWorks*™ DLT1 1280 SuperLoader by Compaq 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)

Options

Tape Drives *(continued)*

External DAT Autoloader

20/40-GB DAT 8 Cassette Autoloader External (Opal)	166505-001
20/40-GB DAT 8 Cassette Autoloader External (Int'l) (Opal)	166505-B31
20/40-GB DAT 8 Cassette Autoloader External (Japan) (Opal)	166505-291

Note: Please see the Compaq 20/40-GB DAT DDS-4 8 Cassette 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/10518_div/10518_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10518_na/10518_na.HTML (North America)

Rackmount Tape Drive Kits

3U Rackmount Kit	274338-B21
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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, and the SDLT 110/220-GB Tape Drives.

5U Rackmount Kit	274339-B21
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Note: The 5U Rackmount Kit (PN 274339-B21) can support up to (4) full-height tape drives and is compatible with all Compaq DLT/SDLT tape drives including the 20/40-GB DLT, 35/70-GB DLT, 40/80-GB DLT, and the SDLT 110/220-GB tape drives.

Note: Please see the Compaq 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)

Tape Storage Enclosures and Arrays

Note: Compaq Tape Storage Enclosures and Arrays are compatible with Compaq Internal tape drive options. Please see the QuickSpecs for each Tape Enclosure and Array Model to check for tape drive compatibility. The URL's are provided below.

3U RM Storage Enclosure

3U RM Storage Enclosure, Model 0	230603-B21
3U RM Storage Enclosure, Model 2 AIT	230604-B21
3U RM Storage Enclosure, Model 2 DLT	230605-B21
3U RM Storage Enclosure, Model 2 SDLT	230606-B21

Note: Please see the Compaq 3U RM Storage Enclosure 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/10854_div/10854_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10854_na/10854_na.HTML (North America)

DLT Tape Array III

DLT Tape Array III Model 0	168047-001
DLT Tape Array III Model 0 (Japan)	168047-291
DLT Tape Array III Model 0 (Int'l)	168047-B31
DLT Tape Array III Model 40/80-4	161140-001
DLT Tape Array III Model 40/80-4 (Int'l)	161140-B31
DLT Tape Array III Model 40/80-4 (Japan)	161140-291

Options

Tape Storage Enclosures and Arrays (continued)	DLT Tape Array III SDLT-4 (NA)	229760-001
	DLT Tape Array III SDLT-4 (Int'l)	229760-B31
	DLT Tape Array III SDLT-4 (Japan)	229760-292

Note: Please see the *StorageWorks* DLT Tape Array III 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/10684_na/10684_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10684_div/10684_div.HTML (Division/World Wide)

Note: Please see the Compaq TA1000 AIT Tape Array 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/10591_na/10591_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10591_div/10591_div.HTML (Division/World Wide)

Tape Storage Enclosure 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

SSL2020 Automated AIT Mini-Library

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
SSL2020 AIT Library Pass Thru Extender	175312-B22
AIT 50-GB Drive Add-On LVD Drive for SSL2020 AIT Library	175197-B21

Required Adapters/Controllers for SSL2020 AIT Mini-Library

64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291
SAN Access Module for Smart Array 5302 Controller	216687-B21
SAN Access Module for Smart Array 5302 Controller (Japan)	216687-291
Smart Array 5302/FC Controller	216688-B21
Smart Array 5302/FC Controller (Japan)	216688-291

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)

MSL5026DLX DLT Library

MSL5026DLX, 1 40/80-GB DLT, LVD Rackmount	231891-B21
MSL5026DLX, 2 40/80-GB DLT, LVD Rackmount	231891-B22

MSL5026SL Library

MSL5026SL Library, SDLT 110/220, 1 Drive, LVD, Rackmount	231892-B21
MSL5026SL Library, SDLT 110/220, 2 Drives, LVD, Rackmount	231892-B22
MSL5K Field Upgrade SDLT 110/220 Drive, LVD	231823-B22

Required Adapters for MSL5026 Library

64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291

Note: Please see the *StorageWorks* MSL5026DLX or 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/10860_na/10860_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10860_div/10860_div.HTML (Division/World Wide)

Options

Tape Automation (continued)

Enterprise 9000 System Library

ESL9198SL

ESL9198 Enterprise Library LVD, 0 Drives	194993-B21
ESL9198SL Enterprise Library, LVD 4 110/220 SDLT Drives	234618-B21
ESL9198SL Enterprise Library, LVD 8 110/220 SDLT Drives	234618-B22
ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL, ESL9595SL only)	234617-B21

Note: Please see the *StorageWorks* ESL9198SL 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/10867_na/10867_na.HTML (North America)

http://www5.compaq.com/products/quickspecs/10867_div/10867_div.HTML (World Wide)

Required Adapters for ESL9198 Libraries

64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
Note: 64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9198DLX).	
64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291
Note: 64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9198DLX).	

ESL9326SL

ESL9326SL Enterprise Library LVD 0 Drives	234488-B21
ESL9326SL Enterprise Library LVD 6 110/220 DSLT Drives	234615-B21
ESL9326SL Enterprise Library LVD 8 110/220 DSLT Drives	234615-B22
ESL9326SL Enterprise Library LVD 16 110/220 DSLT Drives	234615-B26
ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL, ESL9595SL only)	234617-B21

Note: Please see the *StorageWorks* ESL9326SL 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/10868_na/10868_na.HTML (North America)

http://www5.compaq.com/products/quickspecs/10868_div/10868_div.HTML (World Wide)

ESL9595SL SDLT Library

ESL9595SL Enterprise Library, 400 slot, 2 Drive	274672-B21
ESL9595SL Enterprise Library, 400 slot, 16 Drive	274672-B22
ESL9595SL Enterprise Library, 500 slot, 2 Drive	281627-B22
ESL9595SL Enterprise Library, 500 slot, 16 Drive	281627-B24
ESL9595SL Enterprise Library, 595 slot, 2 Drive	281628-B25
ESL9595SL Enterprise Library, 595 slot, 16 Drive	281628-B26
ESL9595 500 Slot Upgrade	274674-B21
ESL9595 595 Slot Upgrade	274674-B22
ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL, ESL9595SL)	234617-B21

Required Adapters for ESL9595SL Libraries

64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
Note: 64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9595SL).	
64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291
Note: 64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9595SL).	

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)

Options

Smart Array Cluster Storage	Smart Array Cluster Storage	201724-B21
	Smart Array Cluster Storage Redundant Controller Option Kit	218252-B21
	Required Controllers for Smart Array Cluster Storage	
	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	
	Note: All 128-MB Cache modules must be removed when 256-MB cache modules are installed.	
	Note: Please see the Compaq Smart Array Cluster Storage QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/11050_na/11050_na.html (North America) http://www5.compaq.com/products/quickspecs/11050_div/11050_div.html (Division/World Wide)	
	<hr/>	
	Cluster Options	Compaq ProLiant Cluster HA/F100 for MSA1000
Compaq ProLiant Cluster HA/F100 for MSA1000 (Japan)		252408-291
Compaq ProLiant Cluster HA/F200 for MSA1000		252409-B21
Compaq ProLiant Cluster HA/F200 for MSA1000 (Japan)		252409-291
Note: For additional information regarding the Compaq 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)		
Compaq ProLiant Cluster HA/F100 for Windows NT and 2000 Advanced Server		309816-B21
Compaq ProLiant Cluster HA/F200 Upgrade Kit (NT 4.0EE to W2K AS)		176848-B22
Compaq ProLiant Cluster HA/F200 for Windows NT and 2000 Advanced Server		380357-B23
Compaq ProLiant Cluster HA/F200 for Windows NT and 2000 Advanced Server (Japan)		380357-293
Note: For additional information regarding the Compaq 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)		
Compaq ProLiant Cluster HA/F500 Basic Kit		103250-B24
Compaq ProLiant Cluster HA/F500 Enhanced Kit		379937-B24
Compaq ProLiant Cluster HA/F500 Enhanced DT Kit		164227-B22
Note: For additional information regarding the Compaq 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)		
Compaq ProLiant Cluster HA/F500 for Enterprise Virtual Array		254623-B21
Note: For additional information regarding the Compaq 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.compaq.com/products/quickspecs/11055_div/11055_div.html (Division/World Wide)		
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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 support the Wide Ultra2/Ultra3 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

StorageWorks Modular Data Router	<i>StorageWorks</i> Modular Data Router (MDR) (1FC x 2 HVD SCSI)	163082-B21
	<i>StorageWorks</i> Modular Data Router (MDR) (1FC x 2 LVD SCSI)	163083-B21
	<i>StorageWorks</i> Modular Data Router (MDR) (2FC x 4 HVD SCSI)	218240-B21
	<i>StorageWorks</i> Modular Data Router (MDR) (2FC x 4 LVD SCSI)	218241-B21
<p>Note: The Modular Data Router supports connections with any Compaq Hub, FC-AL Switch or SAN fabric switches. Connections are also supported for the SSL2020, TL891DLX, TL895, ESL9198DLX, and ESL9326DX. Please see the <i>StorageWorks</i> Modular Data Router QuickSpecs for additional supported options please see the following:</p> <p>http://www5.compaq.com/products/quickspecs/10660_na/10660_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10660_div/10660_div.HTML (Division/World Wide)</p>		
MSA1000	MSA 1000	201723-B21
	MSA 1000 Controller	218231-B21
	MSA Fibre Channel I/O Module	218960-B21
	MSA1000 Fabric Switch	218232-B21
	MSA 1000 Fibre Channel Adapter (FCA) 2101	245299-B21
<p>Note: Please see the <i>StorageWorks</i> by Compaq Modular SAN Array 1000 QuickSpecs for additional options and configuration information at:</p> <p>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)</p>		
StorageWorks RAID Array 4100	<i>StorageWorks</i> Raid Array 4100 (rack)	146013-001
	<i>StorageWorks</i> Raid Array 4100 (rack) (Int'l)	146013-B31
	<i>StorageWorks</i> Raid Array 4100 (rack) (Japan)	146013-291
	Fibre Channel Storage Hub 7	234453-001
	Fibre Channel Storage Hub 7 (Int'l)	234453-B31
	Fibre Channel Storage Hub 7 (Japan)	234453-291
	Compaq Storage Hub 7 Universal Rack Mount Kit	136127-B21
	<i>StorageWorks</i> Raid Array 4000 Redundant Array Controller	223187-B21
	<i>StorageWorks</i> Fibre Channel Arbitrated Loop Switch 8	177862-B21
	<i>StorageWorks</i> Fibre Channel Arbitrated Loop Switch 8 (Japan)	177862-291
	<i>StorageWorks</i> Fibre Channel Arbitrated Loop 3-Port Expansion Module	177863-B21
	<i>StorageWorks</i> Fibre Channel SAN Switch 8-EL	176219-B21
	<i>StorageWorks</i> Fibre Channel SAN Switch 16-EL	212776-B21
	Fibre Channel SAN Switch 8-port with Fabric Operating Software	158222-B21
	Fibre Channel SAN Switch 16-port with Fabric Operating Software	158223-B21
	64-bit/66-MHz Fibre Channel Host Adapter	120186-B21
	64-bit/66-MHz Fibre Channel Host Adapter (Japan)	120186-291
	Fibre Channel Host Adapter Redundancy Kit	174681-B21
	GBIC-SW Connector Kit (two each)	234459-B21
	GBIC-LW Connector Kit (two each)	340412-B21
	Fibre Channel Connection Kit, 3 SW GBICS, 2 Cables	380579-B21
	Fibre Channel Connection Kit, 2 SW GBICS, 2 Cables	380596-B21
	Fibre Channel short-wave GBIC	380561-B21
Fibre Channel long-wave GBIC	127508-B21	
2m Multi-Mode Fibre Channel Cable	234457-B21	
5m Multi-Mode Fibre Channel Cable	234457-B22	
15m Multi-Mode Fibre Channel Cable	234457-B23	

Options

StorageWorks RAID Array 4100 <i>(continued)</i>	30m Multi-Mode Fibre Channel Cable	234457-B24
	50m Multi-Mode Fibre Channel Cable	234457-B25
	Fibre Channel Array Controller 64-MB Cache Upgrade Kit	262398-B21
	Note: Please see the <i>StorageWorks</i> RAID Array 4100 QuickSpecs for FC Hubs, FC switches, software support, host adapters/controllers, disks, and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10435_na/10435_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10435_div/10435_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 <i>StorageWorks</i> 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 <i>SANworks</i> ™ software by Compaq. Note: Please see the <i>StorageWorks</i> 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	Fibre Channel SAN Switch/8 with Fabric Operating Software	158222-B21
	Fibre Channel SAN Switch/16 with Fabric Operating Software	158223-B21
	<i>StorageWorks</i> SAN Switches Integrated/32	230616-B21
	<i>StorageWorks</i> SAN Switches Integrated/64	230617-B21
	<i>StorageWorks</i> Fibre Channel SAN Switches 8-EL	176219-B21
	<i>StorageWorks</i> Fibre Channel SAN Switches 16-EL	212776-B21
	<i>StorageWorks</i> SAN Director 64	254512-B21
	Note: Please see the <i>StorageWorks</i> 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

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
UPS Options	SNMP Serial Port Card	192189-B21
	Note: Supports UPS XR series only.	
	Six Port Card	192185-B21
	Note: Supports UPS XR series only.	
	High to Low Voltage Transformer (250VA)	388643-B21
	Note: Supports R6000 UPS series only. 2.5 amps @ 125 Volts max output across two Nema 5-15.	
	Extended Runtime Module, R1500 XR	218971-B21
	Note: 2U each, two ERM maximum	
	Extended Runtime Module, R3000 XR	192188-B21
	Note: 2U each, one ERM maximum	
	Extended Runtime Module, R6000	347224-B21
Note: 3U each, two ERM maximum		
SNMP-EN Adapter	347225-B21	
Note: Supports R6000 UPS series only.		
Multi-Server UPS Card	123508-B21	
Note: Supports R6000 UPS series only.		
Scalable UPS Card	123509-B21	
Note: Supports R6000 UPS series only.		
Rack-Mountable PDU's – 1U/0U	Compaq Power Distribution Unit-16A (200 to 240V)	207590-B21
	Note: Requires input power cord (340653-001) when attached to high voltage R3000 XR (192186-002)	
	Compaq Power Distribution Unit-24A (200 to 240V) (NA, Japan, LA)	207590-D72
	Note: L6-30 input	
	Compaq Power Distribution Unit-32A (200 to 240V) (Int'l)	207590-B31
	Compaq Power Distribution Unit-40A (200 to 240V)	207590-B23
	Note: Hardwire input required	
	Compaq Power Distribution Unit-24A (100 to 127V) (NA, Japan, LA)	207590-D71
	Note: L5-30 input	
	Compaq Dual Input Power Distribution Unit-24A High Voltage (NA only)	191186-001
	Compaq Dual Input Power Distribution Unit-24A High Voltage (Int'l)	191186-B31
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)		

Options

Modular Power Distribution Unit	Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan) Note: L5-30 input	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: Hardwire input required	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	<i>Compaq Rack Builder for configuration assistance at</i> http://www.compaq.com/rackbuilder/ .	
Rack Options for Third Party Rack Cabinet	DL580 G2 Third Party Racking Kit	287528-B21
Compaq Rack 10000 Series (Carbon)	Compaq Rack 10647 (47U) – Pallet (Graphite)	245161-B21
	Compaq Rack 10647 (47U) - Crated (Graphite)	245161-B22
	Compaq Rack 10642 (42U) – Pallet	245161-B21
	Compaq Rack 10642 (42U) – Shock Pallet	245161-B22
	Compaq Rack 10642 (42U) – Crated	245161-B23
	Compaq Rack 10636 (36U) - Pallet (Graphite)	245162-B21
	Compaq Rack 10636 (36U) - Shock Pallet (Graphite)	245162-B22
	Compaq Rack 10636 (36U) - Crate (Graphite)	245162-B23
	Compaq Rack 10622 (22U) – Pallet	245163-B21
	Compaq Rack 10622 (22U) – Shock Pallet	245163-B22
	Compaq 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	
	Compaq Rack 9000 Series (opal)	Compaq Rack 9142 (42U) – Pallet
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		

Options

Rack Options for Compaq Rack 10000 Series	Rack Blanking Panels – Graphite (Multi)	253214-B26
	Rack Blanking Panels – Graphite (1U)	253214-B21
	Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (1U)	
	Rack Blanking Panels – Graphite (2U)	253214-B22
	Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (2U)	
	Rack Blanking Panels – Graphite (3U)	253214-B23
	Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (3U)	
	Rack Blanking Panels – Graphite (4U)	253214-B24
	Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (4U)	
	Rack Blanking Panels – Graphite (5U)	253214-B25
	Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (5U)	
	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	
Monitor/Utility Shelf Graphite	253449-B21	
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.	
	Fan (110 VAC) Roof Mount	120677-B21
	Note: Roof Mount Includes power cord with IEC320-C13 to Nema 5-15P.	
	Fan (220 VAC) Roof Mount	120678-B21
	Note: Roof Mount Includes power cord with IEC320-C13 to Nema 6-15P.	
	9142 Extension Kit	120679-B21
	Note: The 9142 Extension Kit (PN 120679-B21) supports the Compaq Rack 9142 only.	
	Stabilizer Option Kit	120673-B21
	Rack Blanking Panel Kit for Rack 9000 series (Opal) (U.S.)	169940-B21
	Note: The Rack Blanking Panel Kit (PN 169940-B21) contains 4 panels – one each of 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)		
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	

Options

Rack Options for Compaq Rack 7000 Series	When installing a server with Pentium® III Xeon processors running at speeds of 550 MHz or greater in Compaq Rack 7000 series racks (165753-xx1 (42U), and 163747-xx1 (22U)), the new processor technology requires the installation of Compaq's new High Airflow Rack Door Insert (327281-B21 (42U) or 157847-B21 (22U)).	
	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 Rack Extension Kit for 7142	154392-B21
Rack Options for Compaq Rack 7000, 9000 and 10000 Series	Monitor Utility Shelf	303606-B21
	Compaq Networking Cable Management Kit	292407-B21
	Compaq Networking Recessed Rail Management Kit	292406-B21
	Ballast Option Kit	120672-B21
	Rack Rail Adapter Kit (25-inch depth)	120675-B21
	Cable Management D-Rings Kit	168233-B21
	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) (US)	221546-001	
TFT5600 RKM (Rack-mount Keyboard Monitor) (UK)	221546-031	
TFT5600 RKM (Rack-mount Keyboard Monitor) (Germany)	221546-041	
TFT5600 RKM (Rack-mount Keyboard Monitor) (France)	221546-051	
TFT5600 RKM (Rack-mount Keyboard Monitor) (Italy)	221546-061	
TFT5600 RKM (Rack-mount Keyboard Monitor) (Spain)	221546-071	
TFT5600 RKM (Rack-mount Keyboard Monitor) (Denmark)	221546-081	
TFT5600 RKM (Rack-mount Keyboard Monitor) (Norway)	221546-091	

Options

Rack Options for Compaq Rack 7000, 9000 and 10000 Series (continued)		
TFT5600 RKM (Rack-mount Keyboard Monitor) (Sweden/Finland)		221546-101
TFT5600 RKM (Rack-mount Keyboard Monitor) (Swiss)		221546-111
TFT5600 RKM (Rack-mount Keyboard Monitor) (Portugal)		221546-131
TFT5600 RKM (Rack-mount Keyboard Monitor) (Belgium)		221546-181
TFT5600 RKM (Rack-mount Keyboard Monitor) (Japan)		221546-291
TFT5600 RKM (Rack-mount Keyboard Monitor) (Int'l)		221546-B31
Keyboard with Hot Keys and Trackball (US)		158649-001
Keyboard with Hot Keys and Trackball (UK)		158649-003
Keyboard with Hot Keys and Trackball (German)		158649-004
Keyboard with Hot Keys and Trackball (French)		158649-005
Keyboard with Hot Keys and Trackball (Italian)		158649-006
Keyboard with Hot Keys and Trackball (Spanish)		158649-007
Keyboard with Hot Keys and Trackball (Danish)		158649-008
Keyboard with Hot Keys and Trackball (Norwegian)		158649-009
Keyboard with Hot Keys and Trackball (Swedish)		158649-010
Keyboard with Hot Keys and Trackball (Swiss)		158649-011
Keyboard with Hot Keys and Trackball (Portuguese)		158649-013
Keyboard with Hot Keys and Trackball (Belgian)		158649-018
Keyboard with Hot Keys and Trackball (Japan)		158649-291
Keyboard with Hot Keys and Trackball (Int'l)		158649-B36
PCI KVM Management Card Kit		232983-B21
PCI KVM Remote Card Kit		232984-B21
Local Access Cable Kit		232985-B21
1U Rack Keyboard Drawer		338056-B21
Keyboard/Monitor/Mouse extension cables		169989-001
100kg Sliding Shelf		234672-B21
9000/10000 Series Offset Baying Kit		248931-B21
<p>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.</p>		

Options

Service and Support Offerings (CarePac™ Services)	<i>Hardware Services 4-Hour On-site Service</i>	
	4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (2-5-2 Part Number for US)	FM-MI4HR-36
	4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-MI4HR-36
	4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (6-3 Part Number for US)	401783-002
	4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (6-3 Part Number for EMEA)	324418-002
	4-Hour On-site Service, 24-Hour x 7-Day Coverage, 3 Years (2-5-2 Part Number for US)	FM-MI724-36
	4-Hour On-site Service, 24 Hour x 7 Day Coverage, 3 Years (2-5-2 for Canada)	FP-MI724-36
	4-Hour On-site Service, 24-Hour x 7-Day Coverage, 3 Years (2-5-2 Part Number for EMEA)	376911-022
	<i>Installation & Start-up Services</i>	
	Hardware Installation (2-5-2 Part Number for US)	FM-MIINS-IN
	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 2 days start-up activity, configure print & network access services, and orientation (2-5-2 Part Number for U.S.)	FP-MSTAR-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 2 days 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 2 days 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 2 days start-up activity, configure print & network access services, and orientation (2-5-2 Part Number for U.S.)	FP-NSTAR-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 2 days 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 2 days 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) <i>(continued)</i>	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 U.S.)	FP-M01C3-36
	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 (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 U.S.)	FP-N01C3-36
	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 (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 (2-5-2 Part Number for EMEA)	179841-022
	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 (2-5-2 Part Number for U.S.)	FP-M02C3-36
	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 (2-5-2 Part Number for U.S.)	FP-N02C3-36
	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, proactive patch notification, 1 System Healthcheck per year (2-5-2 Part Number for Canada)	FP-M04C3-36
	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, Technical Account Manager, Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck per year (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, Technical Account Manager, Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck per year (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 (2-5-2 Part Number for U.S.)	FP-M24C3-36

Options

Service and Support Offerings (CarePaq Services) <i>(continued)</i>	CarePaq Priority Services for ProLiant Servers - Priority Silver <i>(continued)</i>	
	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 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 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 U.S.)	FP-N04C3-36
	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 U.S.)	FP-N24C3-36
	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
	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 U.S.)	FP-M08C3-36
	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 (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 U.S.)	FP-M28C3-36
	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 (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 U.S.)	FP-N08C3-36
	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 (2-5-2 Part Number for Canada)	FM-N08E3-36

Options

Service and Support Offerings (CarePaq Services) <i>(continued)</i>	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 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 U.S.)	FP-N28C3-36
	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 U.S.)	FP-M09C3-36
	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 (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 U.S.)	FP-M29C3-36
	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 (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 U.S.)	FP-N09C3-36
	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 (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 U.S.)	FP-N29C3-36
	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>.

Note: This web site is available in English only.

Memory

Compaq ProLiant DL580 Generation 2 (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 14,336-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 16,384-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.

Note: Installations of up to 32-GB memory will be possible with release of 2-GB DIMM sticks in the latter half of 2002.

Memory		Standard Memory Board (Slots)								Optional 2 nd 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	14,336 MB	512 MB	512 MB	512 MB	512 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	16,384 MB	1024MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024MB

The following memory options are available from Compaq:

- 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

Compaq ProLiant DL580 Generation 2 (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 13,312-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 16,384-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.

Note: Installations of up to 32-GB memory will be possible with release of 2-GB DIMM sticks in the latter half of 2002.

Memory		Standard Memory Board (Slots)								Optional 2 nd 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	13,312 MB	256 MB	256 MB	256 MB	256 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024MB
Maximum	16,384 MB	1024MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024MB

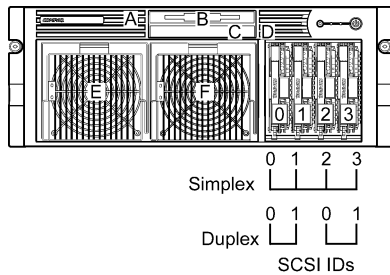
The following memory options are available from Compaq:

- 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

Storage



- A Diskette Drive eject button
- B Multibay: 24x IDE CD-ROM (Slimline)
- C Multibay: 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/Ultra4-ready Drive Cage (Duplex or Simplex configurable). Duplex is standard shipping configuration

DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Multibay Media 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

Wide Ultra3 Hot Pluggable Drives

Note: Wide Ultra3 SCSI drives require the purchase and installation of Wide Ultra3 Controllers or Adapters to run at Wide Ultra3 speeds.

1-inch	Up to 4	0-3	Smart Array 5i Controller (integrated on system board)
72.8-GB 10,000 rpm			Smart Array 532 Controller
36.4-GB 10,000 rpm			Smart Array 5312 Controller
18.2-GB 10,000 rpm			Smart Array 5302/32 Controller
36.4-GB 15,000 rpm			Smart Array 5302/64 Controller
18.2-GB 15,000 rpm			Smart Array 5304/128 Controller
			64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
			64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter

External Storage

<i>StorageWorks</i> Enclosure 4300 Family (supports Ultra2/Ultra3 drives only)	Up to 20 (using Smart Array 5300 Controller)	External	Smart Array 532 Controller Smart Array 5312 Controller Smart Array 5302/32 Controller Smart Array 5302/64 Controller Smart Array 5304/128 Controller 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
3U RM Storage Expander	Up to 1 DLT/SDLT Drive per SCSI channel; Up to 2 AIT/DAT Drives per SCSI channel	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 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			
<i>StorageWorks</i> RAID Array 4100 Kit	Up to 10 (with optional <i>StorageWorks</i> Hubs or Switches)	External	64-Bit/66-MHz Fibre Channel Host Adapter

Storage

DRIVE SUPPORT *(continued)*

Maximum Storage Capacity – (External StorageWorks Enclosure Attached)

Internal	291.2 GB (4 x 72.8-GB Wide Ultra3 SCSI 1" Drives)
External	20.384 TB (20 x (14 x 72.8-GB 1" Wide Ultra3 SCSI Drives))
Total	20.675 TB

Maximum Storage Capacity – (External RAID Array 4100 Attached)

Internal	291.2 GB (4 x 72.8-GB Wide Ultra3 SCSI 1" Drives)
External	8.736 TB (10 x (12 x 72.8-GB 1" Wide Ultra3 SCSI 1" Drives))
Total	9.027 TB

	Quantity Supported	Position Supported	Controller
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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)

Internal AIT 50-GB, Hot Plug	Up to 1	0 & 1 or 2 & 3	Smart Array 5i Controller (integrated on system board)
Internal AIT 35-GB, LVD, Hot Plug			Smart Array 5302/32 Controller
Internal 20/40-GB DAT, Hot Plug			Smart Array 5302/64 Controller Smart Array 5304/128 Controller 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
Internal AIT 100-GB, Hot Plug	Up to 1	0 & 1 or 2 & 3	Smart Array 5i Controller (integrated on system board) Smart Array 5302/32 Controller Smart Array 5302/64 Controller Smart Array 5304/128 Controller 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External AIT 50-GB Tape Drive	Up to 2	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
External AIT 35-GB, LVD Tape Drive			64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
DLT Tape Array III	1 to 4	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
SDLT 110/220-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
External 40/80-GB DLT Enhanced	Up to 3	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
External 20/40-GB DLT			64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
TA1000 AIT Tape Array	Up to 1	External	64-Bit/66-MHz -Bit Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 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 Smart Array 5302/FC Controller
MSL5MSL5026DLX (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	192147-001
Spare Kit	278535-B21
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)	12.0	10.2	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)	1203	1170	1088	1088	1088	1074
Efficiency (%)	70	72	75	75	75	76
Power Factor	0.95	0.95	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)	1068	1068	1025	1025	1025	1012
Fully Loaded System Input AMPs (A rms)	11.6	9.8	5.0	4.8	4.5	4.3
Fully Loaded System Thermal (BTU-Hr)	3746	3642	3496	3496	3496	3450
Fully Loaded System VA (Volt-Amp)	1156	1124	1046	1046	1046	1032
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		

Notes:

ActiveAnswers™ Power Calculation

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

Follow this link:

<http://activeanswers.compaq.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)

Power Specifications

Power Cords (13 Cord Sets)	Power Cord Part Number
Country	
APD	139867-006
APD	100613-003
APD	100614-003
Australia	100611-007
Europe	100614-003
France	100614-003
Germany	100614-003
Japan	139867-006
PRC	139867-006
PRC	100613-003
PRC	100661-007
UK	100613-003
US	163719-002

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	20% to 80%		
	Non-operating	5% to 90%		
Maximum Wet Bulb Temperature	101.7°F/38.7°C			
Acoustic Noise	Idle (Fixed Disk Drives Spinning)			
	L_{wAd} (BELS)	7.24		
	L_{pAm} (dBA)	60.7		
	Operating (Random Seeks to Fixed Disks)			
	L_{wAd} (BELS)	7.25		
	L_{pAm} (dBA)	60.8		
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			

Technical Specifications

Hot Plug Wide Ultra3 SCSI Hard Drives	72.8 GB10K 232432-B22	Capacity	72837.2 MB	
		Height	1 in/25.4 mm	
		Width	4 in/101.6 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.3 ms
			Average	4.5 ms
			Full-Stroke	11 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	142,264,000
		Operating Temperature	50° to 95°F/10° to 35°C	
		36.4 GB 10K 176496-B22	Capacity	36419.2 MB
		Height	1 in/25.4 mm	
		Width	4 in/101.6 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
	Seek Time (typical reads, including settling)	Single Track	0.9 ms	
		Average	5.7 ms	
		Full-Stroke	13 ms	
		Rotational Speed	10,000 rpm	
	Physical Configuration	Logical Blocks	71,132,000	
		Operating Temperature	50° to 95°F/10° to 35°C	
	18.2 GB 10K 142673-B22	Capacity	18209.3 MB	
		Height	1 in/25.4 mm	
		Width	4 in/101.6 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
	Seek Time (typical reads, including settling)	Single Track	0.9 ms	
		Average	5.5 ms	
		Full-Stroke	12 ms	
		Rotational Speed	10,000 rpm	
	Physical Configuration	Logical Blocks	35,565,080	
		Operating Temperature	50° to 95°F/10° to 35°C	

Technical Specifications

Hot Plug Wide Ultra3 SCSI Hard Drives <i>(continued)</i>	36.4 GB 15K	Capacity	36419.2 MB	
	232916-B22	Height	1 in/25.4 mm	
		Width	4 in/101.6 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.4 ms
			Average	3.8 ms
			Full-Stroke	7 ms
		Rotational Speed	15,000 rpm	
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	71,132,000
		Operating Temperature	50° to 95°F/10° to 35°C	
	18.2 GB 15K	Capacity	18209.3 MB	
	188122-B22	Height	1 in/25.4 mm	
		Width	4 in/101.6 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.7 ms
			Average	3.9 ms
			Full-Stroke	12 ms
		Rotational Speed	15,000 rpm	
		Physical Configuration	Logical Blocks	35,565,080
			Operating Temperature	50° to 95°F/10° to 35°C

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 μ m	
		Block Size	Mode 1 Mode 2 CD-DA CD-XA	2,048 2,340, 2,336, 1,024 bytes 2,352 bytes 2,328 bytes
		Interface	IDE (ATAPI)	
		Access Times (typical)	Random Full-Stroke	100 ms 2000 ms
	Audio Output Level	Line-Out Headphone	0.7 VRMS at 47 kOhms 0.6 VRMS at 32 kOhms (maximum volume)	
	Data Transfer Rate	Sustained Burst	150 KB/s (single) 2100 to 3600 KB/s	
	Cache Buffer	128 KB		
	Start-up Time (typical)	< 7 seconds		
	Stop Time	< 4 seconds		
	Laser Parameters	Type Wave Length Divergence Angle Output Power	Semiconductor Laser GaAlAs 780 \pm 25 nm 53.5 $^{\circ}$ \pm 1.5 $^{\circ}$ 0.14 mW	
	Operating Conditions	Temperature Humidity	41 $^{\circ}$ to 113 $^{\circ}$ F/5 $^{\circ}$ to 45 $^{\circ}$ C 10% to 80%	
	Dimensions	(HxWxD, maximum) Weight	1.69 x 5.75 x 8.19 in/4.29 x 15 x 20.8 cm 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
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
	<i>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.</i>	
	Channels	2
	<i>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.</i>	
	SCSI Ports (external/internal)	0/2
	<i>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.</i>	
	Drives Supported (maximum)	Maximum = total number of drives
	<i>Note: Maximum is the total number of internal drives on each specific ProLiant server.</i>	
	Cache	64MB 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 feet (100 meters)		
	10/100/1000Base-T	Category 5 UTP (2 pair); up to 328 feet (100 meters)		
Smart Array 5312 Controller	Data Compatible with all Smart Array Controllers	Yes		
	Instant Upgrades to other Smart Array Controllers	Yes		
	Consistent Software Manageability Tools	Yes		
	PCI Bus	64-bit, 133-MHz PCI-X		
	PCI Peak Data Transfer Rate	1066 MB/s		
	SCSI Protocols Supported	Ultra3, Ultra2		
	SCSI Peak Data Transfer Rate	320 MB/s total, 160 MB/s per channel		
	Channels	2, 4		
	SCSI Ports (external/internal)	2 channel model: 2/2		
	Drives Supported (maximum)	28		
	Cache	128-MB battery-backed read-write (optional 256 MB upgrade available)		
	RAID Support	0, 1, 1+0, 5		
	Logical Drives (maximum)	32		
	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

Smart Array 532 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66 MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2
	SCSI Peak Data Transfer Rate	160 MB/s
	Channels	2
	SCSI Ports (external/internal)	1/1
	Drives Supported (maximum)	14
	<i>Note: Drives Supported (maximum) is based on use of StorageWorks Enclosure 4300 family (14 hard disk drive enclosure).</i>	
	Cache	32-MB cache engine
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	32
	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

Smart Array 5300 Controller	Data Compatible with all Smart Array Controllers	Yes	
	Instant Upgrades to other Smart Array Controllers	Yes	
	Consistent Software Manageability Tools	Yes	
	PCI Bus	64-bit, 66MHz	
	PCI Peak Data Transfer Rate	533 MB/s	
	SCSI Protocols Supported	Ultra3, Ultra2, Wide-Ultra	
	SCSI Peak Data Transfer Rate	640 MB/s total, 160 MB/s per channel	
	Channels	2, 4	
	SCSI Ports (external/internal)	2 channel model: 2/2 4 channel model: 4/2	
	Drives Supported (maximum)	56	
	<i>Note: Drives Supported (maximum) is based on use of StorageWorks Enclosure 4300 family. (14 hard disk drive enclosure)</i>		
	Cache	128, 64 or 32-MB battery-backed read-write	
	RAID Support	0, 1, 1+0, 5, Advanced Data Guarding	
	<i>Note: For customers who have purchased the SA-5304/128 a quick firmware upgrades to enable the technology will be available from http://www.compaq.com/smartarray.</i>		
	<i>Note: RAID Support: Advanced Data Guarding (RAID ADG) is available with 128-MB versions of the SA-5300 only.</i>		
	Logical Drives (maximum)	32	
	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	
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	Drives Supported	Up to 28 SCSI devices (14 per channel)
		Storage Capacity	1.019 TB
Data Transfer Method		64-bit/66-MHz PCI bus-master	
Maximum SCSI Channel Transfer Rate		160 MB/s per channel	
Maximum Transfer Rate per PCI Bus (peak)		532 MB/s per channel	
SCSI Protocols		Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast SCSI-2	
Electrical Protocol		Low Voltage Differential (LVD)	
SCSI Termination		Active Termination	
External SCSI Connectors		Two 68-Pin VHDCI connectors	
Internal SCSI Connectors		Two 68-Pin Wide-Ultra SCSI-3 connectors One 50-Pin Narrow Ultra connector	

Technical Specifications

64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	Drives Supported	Up to 14 SCSI devices
	Storage Capacity	254.8 GB
	Data Transfer Method	64-bit/66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
	External SCSI Connectors	One 68-Pin Wide Ultra SCSI-3 connector
	Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors (one LVD and one SE) One 50-Pin Narrow Ultra connector

Compaq Rack 10647 (42U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	89.96 in/2285 mm	95.47 in/2,425 mm	
	Depth	39.691 in/1008.17 mm	48 in/1,219.2 mm	Graphite Metallic – doors
	Width	24 in/612.77 mm	32 in/812.8 mm	Carbon – frame
	Weight	245 lb/111 kg	284 lb/129 kg	

Compaq Rack 10642 (42U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	78.7 in/2,000 mm	86.22 in/2,190 mm	
	Depth	39.691 in/1,008.17 mm	48 in/1,219.2 mm	Graphite Metallic – doors
	Width	24 in/612.77 mm	32 in/812.8 mm	Carbon – frame
	Weight	253 lb/114.84 kg	325 lb/147.52 kg	

Compaq Rack 10636 (36U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	68.6 in/1,742 mm	75.25 in/1,911 mm	
	Depth	39.691 in/1008.17 mm	48 in/1219.2 mm	Graphite Metallic – doors
	Width	24 in/612.77	32 in/812.8 mm	Carbon – frame
	Weight	220 lb/100 kg	272 lb/123 kg	

Compaq Rack 10622 (22U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	43 in/1,092 mm	52.25 in/1,327.15 mm	
	Depth	39.691 in/1,008.17 mm	48 in/1,219.2 mm	Graphite Metallic – doors
	Width	24 in/612.77 mm	32 in/812.8 mm	Carbon – frame
	Weight	176 lb/79.89 kg	225 lb/102.13 kg	

Compaq Rack 9842 (42U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	78.7 in/2,000 mm	86.22 in/2,190 mm	
	Depth	35.8 in/909 mm	48 in/1219.2 mm	Opal
	Width	31.5 in/800 mm	38.8 in/985.52 mm	
	Weight	374 lb/170 kg	440 lb/200 kg	

Compaq Rack 9142 (42U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	78.7 in/2,000 mm	83.38 in/2,168.65 mm	
	Depth	35.8 in/909 mm	48 in/1219.2 mm	Opal
	Width	23.7 in/603 mm	32 in/812.8 mm	
	Weight	253 lb/114.84 kg	325 lb/147.52 kg	

Technical Specifications

Compaq Rack 9136 (36U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	68.6 in/1,742 mm	75.25 in/1,911.35 mm	
	Depth	35.8 in/909 mm	48 in/1219.2 mm	Opal
	Width	23.7 in/603 mm	32 in/812.8 mm	
	Weight	165 lb/75 kg	234 lb/106 kg	

Compaq Rack 9122 (22U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	43 in/1,092 mm	52.25 in/1,327.15 mm	
	Depth	35.8 in/909 mm	48 in/1219.2 mm	Opal
	Width	24 in/610 mm	32 in/812.8 mm	
	Weight	176 lb/79.89 kg	225 lb/102.13 kg	

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