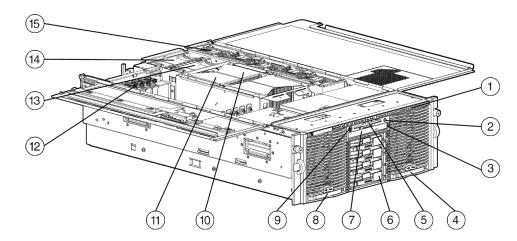
Overview



1. LED Diagnostic Display (system health and DIMM status)

- 2. Unit ID (UID) LED Switch (front and rear)
- 3. Universal Media Bay Ejector Button
- 4. Redundant Hot Plug Power Supply #2
- 5. 1.44MB Diskette Drive
- 6. Ultra3 Hard Disk Drive Bays (up to four)
- CD/DVD-ROM Drive in Universal Media Bay (hot pluggable)

- 8. Redundant Hot Plug Power Supply #1
- 9. System Power LED Switch
- 10. Processor Board #2
- 11. Processor Board #1
- 12. Six 100MHz/64-bit PCI-X slots
- 13. Redundant Hot Plug Fan #2
- 14. Redundant Hot Plug Fan #1
- 15. Hot Plug RAID Memory Cartridges (five total)

What's New

Intel® Xeon® Processor MP 3.0GHz/4MB, 2.7GHz/2MB, or 2.2GHz/2MB Processors (eight processor capability)

At a Glance

- Uncompromising 8-way performance and availability in an ultra dense, 4U form factor
- Intel Xeon Processor MP 3.0GHz/4MB, 2.7GHz/2MB, 2.2GHz/2MB, 2.8 GHz/2MB, 2.5GHz/1MB Processors (eight processor capability)
- HP developed F8 chipset
- 133 MHz SDRAM Memory, expandable to 64 GB addressable memory
- HP Hot Plug RAID Memory Technology
 - Hot Add, Hot Replace, and Hot Upgrade
 - Uses industry standard ECC-protected memory
- Six 64 bit/100MHz PCI-X slots, all hot pluggable
- Integrated Lights-Out Standard Management (iLO) on system board
- Two NC7781 PCI-X Gigabit NICs (embedded)
- Integrated Smart Array 5i Controller (Ultra3 support) (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives)
- Internal Hot Plug Drive Storage of 584.2 GB (4 x 1" 146.8-GB Ultra320 hard drives running Wide Ultra3)
- Tool less and modular chassis for enhanced serviceability
- Innovative diagnostic lighting for rapid response to service events
- Unit ID (UID) lighting, front and rear
- Front bezel system health/RAID memory LEDs
- Two 1100W/800W hot plug redundant power supplies standard
- Two hot plug redundant system fans standard
- Rapid deployment racking solution (rack rails and cable management)



| Intel Xeon Processor MP 3.0 GHz/4MB | | | |
|--|---|--|--|
| | | | |
| Intel Xeon Processor MP 2.2 GHz/2MB | | | |
| | | | |
| | | | |
| Intel Xeon Processors | s MP 2.0 GHz/1MB | | |
| - | rel 3 cache (per processor) | | |
| | · · | | |
| | h 2.0 GHz or 2.7 GHz, 2.2 GHz or 2.8 GHz models.) | | |
| 1-MB Integrated Level 3 cache (per processor) | | | |
| (NOTE: Available with 1.5 GHz, 2.5 GHz or 2.0 GHz models.) | | | |
| Upgradeable to eight processors | | | |
| HP developed F8 chi | pset | | |
| Standard | 4096 MB addressable protected 133MHz ECC SDRAM DIMMs | | |
| Maria | NOTE: Available with 3.0 GHz, 2.7 GHz, 2.8 GHz, or 2.5 GHz models. | | |
| | 64 GB addressable (80 GB total) | | |
| Standard | 2048MB addressable protected 133MHz ECC SDRAM DIMMs NOTE: Available with 2.2 GHz or 2.0 GHz models. | | |
| | | | |
| Maximum | 64 GB addressable (80 GB total) | | |
| Maximum NOTE: All models cor | 64 GB addressable (80 GB total) me standard with all five memory cartridges populated and Hot Plug RAID Memory enabled. | | |
| - | Intel Xeon Processor Intel Xeon Processor Intel Xeon Processor (NOTE: Available wit 2-MB Integrated Lev (NOTE: Available wit 1-MB Integrated Lev (NOTE: Available wit Upgradeable to eigh HP developed F8 chi Standard Maximum | | |

| Network Controller | Two NC/781 PCI-X Gigabit NICS (embedded) |
|--------------------|--|
| | |

| Slot Number | Bus Speed | Bus Number | Hot Plug | PCI Voltage | Notes |
|-------------|------------------------|--|---|--|--|
| 1 | 64-bit 100MHz PCI-X | 7 | Yes | 3.3V | |
| 2 | 64-bit 100MHz PCI-X | 7 | Yes | 3.3V | |
| 3 | 64-bit 100MHz PCI-X | 11 | Yes | 3.3V | |
| 4 | 64-bit 100MHz PCI-X | 11 | Yes | 3.3V | |
| 5 | 64-bit 100MHz PCI-X | 3 | Yes | 3.3V | |
| 6 | 64-bit 100MHz PCI-X | 3 | Yes | 3.3V | |
| | 1 2 3 4 5 | 1 64-bit 100MHz PCI-X 2 64-bit 100MHz PCI-X 3 64-bit 100MHz PCI-X 4 64-bit 100MHz PCI-X 5 64-bit 100MHz PCI-X 6 64-bit 100MHz | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1 64-bit 100MHz PCI-X 7 Yes 2 64-bit 100MHz PCI-X 7 Yes 3 64-bit 100MHz PCI-X 11 Yes 4 64-bit 100MHz PCI-X 11 Yes 5 64-bit 100MHz PCI-X 3 Yes 6 64-bit 100MHz 3 Yes | 1 $64-bit 100MHz PCI-X$ 7Yes $3.3V$ 2 $64-bit 100MHz PCI-X$ 7Yes $3.3V$ 3 $64-bit 100MHz PCI-X$ 11Yes $3.3V$ 4 $64-bit 100MHz PCI-X$ 11Yes $3.3V$ 5 $64-bit 100MHz PCI-X$ 11Yes $3.3V$ 6 $64-bit 100MHz PCI-X$ 3Yes $3.3V$ |



| Storage Controllers Storage | Smart Array 5i Controller (integrated on system board), one internal channel, Ultra3 (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) Optional support for Ultra3 or Ultra 320 storage controllers in an I/O slot to internal drives via array bypass cable | | |
|-----------------------------|---|--|--|
| | | | |
| | | Optical Drive (in the Universal Media Bay) | Integrated Slimline CD/DVD-ROM (8X/24X) Combo Drive Option Kit |
| | Hard Drives | None | |
| | Maximum Internal Storage | 587.2 GB (4 x 146.8 GB Ultra320 1" Drives) (internal hot plug cage only) | |
| Interfaces | Serial | 1 | |
| | Pointing Device (Mouse) | 1 | |
| | Graphics | 1 | |
| | Hot Plug Keyboard | 1 | |
| | USB (rear only) | 1 | |
| | iLO remote management port | 1 | |
| | Network RJ-45 | 2 | |
| Graphics | Integrated ATI RAGE XL Video | Controller with 8-MB SDRAM Video Memory | |
| Form Factor | 4U (7") Rack Form Factor; Ships with sliding rack rails and cable management system; Standard 19" rack-mountable | | |



| ProLiant Essentials Foundation Pack Software | HP Systems Insight Manager | HP's new HP Systems Insight Manager (HP SIM) helps maximize system uptime and performance and reduce system maintenance costs by providing proactive notification of problems before those problems result in unplanned downtime or reduced productivity. HP SIM are both easy to set up work with the Insight Management Agents, integrated Light-Out and Remote Insight Light-Outs Edition, and Version Control Agents to deliver robust fault, configuration, and asset management as well as remote administration. With HP SIM customers will also be able to take advantage of role-based security; the ability to manage ProLiant, Integrity, and HP 9000 systems; and plug-ins for storage, client, printer, and power management as well as server rapid deployment, performance management, and workload management. For more details on HP SIM visit http://www.hp.com/go/hpsim . |
|--|--|---|
| | SmartStart | SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart Web site at http://www.hp.com/servers/smartstart . SmartStart version supported (minimum): SmartStart 6.20. |
| | Management Agents | The Management Agents form the foundation for HP's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into HP servers, workstations, desktops, and portables, and send alerts to Insight Manager 7 and other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management products from HP, please visit the management Web site at http://www.hp.com/servers/manage . |
| | Subscriber's Choice | Subscriber's Choice Driver and Support Alerts/Notifications is a web-based email subscription service that provides automatic delivery of software and driver change notifications for ProLiant products. Sign up at <u>http://www.hp.com/go/subscriberschoice</u> and customize your profile to receive various new alerts as they become available, on a weekly or monthly basis. |
| | ROMPaq, support software, and configuration utilities | The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options available in SmartStart or downloadable from Software and Drivers download pages, linked from the SmartStart website at www.hp.com/servers/smartstart . |
| | Survey Utility and diagnostics utilities | The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips, available in SmartStart. |
| | Optional ProLiant Essentials Value Packs | Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: |
| | | Rapid Deployment Pack – an automated solution for multi-server deployment and provisioning, enabling companies to quickly and easily adapt to changing business demands. Workload Management Pack – provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server. Performance Management Pack – a performance management solution that identifies and explains hardware performance bottlenecks on ProLiant servers and attached options enabling users to better utilize their valuable resources. |
| | http://www.hp.com/servers/promore information. | antity license kits are available for ProLiant Essentials Value Packs. Refer to oliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for |
| | NOTE: For more information re http://www.hp.com/servers/pro | garding ProLiant Essentials Software, please see the following URL: oliantessentials |



| Industry Standard Compliance | ACPI 1.0b Compliant PCI-X and PCI 2.2 Compliant PAE Support PXE 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 Integrated Lights-Out (iLO) Advanced Pack (supports Advanced features such as Graphical Remote Console and Virtual Floppy - available as a separate option) Insight Manager 7 HP Systems Insight Manager Remote Insight Lights-Out Edition II (optional) ROM-Based Setup Utility (RBSU) Integrated Management Log (IML) Server Health logging Automatic Server Recovery-2 (ASR-2) System Interconnect Status Indicators Remote-Flash Redundant ROM Hot Spare Boot (NOTE: Upon the event of a failed processor or VRM in a multi-processing environment, the system will automatically reboot and use the remaining good processor(s).) Power Down Utility | | |
| | Pre-Failure Warranty (covers processors, as well as hard drives and memory) Dynamic sector repairing and drive parameter tracking (with Smart Array controllers) | | |
| Availability | Hot Plug RAID Memory - delivering unsurpassed memory protection and server availability: Uses industry standard ECC SDRAM DIMMs Fully redundant architecture, with no more performance overhead than is currently experienced with ECC protection. Same level of redundancy as achieved with memory mirroring, at only 25% of the additional memory expense when compared to mirroring. Customer can choose to run in non-RAID memory mode by populating only the first 4 memory cartridges. Hot Add Add a new bank of DIMMs while the server is running OS/Application enabled Hot Upgrade Upgrade from a lower capacity DIMM to a higher capacity DIMM while the server is running OS/Application enabled Hot Replace a failed DIMM while the server is running OS/Application transparent Six 64bit/100MHz PCI-X Hot Plug slots with push button functionality Dual Redundant Hot Plug Fans Smart Array 53xx Controller (optional) Dynamic sector repairing and drive parameter tracking (with Smart Array controllers) Fault Tolerant Processor Power Modules Redundant/adaptive load balancing NIC Support Dual Redundant Hot Plug Power Supplies | | |



| Serviceability | Innovative Diagnostic Lighting throughout server LED display on front bezel indicates system health and DIMM status LED display on memory cartridges indicates cartridge power and attention status Tool-less, virtually cable-less interior design Tool-less access to interior of server Hot pluggable universal media bay (CD/DVD-ROM drive ships standard) ejects without the use of tools Front access power supplies PCI Card Guides locks full length PCI cards in place during transit SCSI Drive Cage connects directly to system board – no cables. Modular mechanical design allows tool-less access to major subsystems for easy upgrades and servicing Host Module: Processor, Memory, and I/O Subsystems Power and Media Module: SCSI Backplane, Power Supplies, Universal Media Bay Quick Deploy Racking System Tool-less design "snap in" rails |
|--------------------|---|
| Security | Power-on password Diskette drive control Diskette boot control Network server mode Security provision Parallel and serial interface control Administrator's password Disk configuration lock Hot plug access security |
| Server Power Cords | Two IEC to IEC Highline power cords (PDU adapters) ship standard |
| Power Supply | Two Redundant Hot Plug 1100/800-Watt power supplies per system. Power supplies are load sharing and provide 1100 Watts of Redundant power for 220-volt input or 800 Watts of power for 115-volt input. NOTE: To ensure redundancy of server power, HP requires that 200-240 VAC power be used for all deployments. This will ensure that both power supplies can support up to their maximum configurations, and remain in a redundant power supply state. NOTE: A maximum of two power supplies are supported and ship standard with each server. Use of 110V power is not recommended. NOTE: Due to the increased power consumption of the new Intel Xeon MP processors, power redundancy may not be supported on all server configurations when using 115-120 VAC power. Please refer to the Power Supply Calculator http://activeanswers.compaq.com/ to determine if your configuration is redundant. NOTE: A maximum of two power supplies are supported (shipped standard with each server). |
| System Fans | Two Hot-Plug redundant fans ship standard. Two maximum supported. |
| Required Cabling | For required cabling information, refer to the HP Web site at: http://h18004.www1.hp.com/products/servers/proliantdl740/index.html. |



| OS Support | Microsoft Windows 2000 Microsoft Windows 2000 Advanced Server Microsoft Windows Server 2003 (Standard and Enterprise) LINUX (Red Hat, SuSE) |
|------------------------------------|--|
| | NOTE: For a more complete and up-to-date listing of supported OS's and versions, please visit our OS Support Matrix at: http://www.hp.com/go/supportos . NOTE: For an up-to-date listing of the latest drivers available for the HP ProLiant DL740, please see: http://h18023.www1.hp.com/support/files/server/us/index.html. NOTE: For a more complete and up-to-date information on Linux support, please visit HP Linux Web site at http://h18000.www1.hp.com/products/servers/linux/hpLinuxcert.html . NOTE: For more complete and up-to-date information on how to buy server operating systems from HP please visit the OS product site at: http://h18004.www1.hp.com/products/servers/software/OEM.html . |
| Rack Airflow Requirements | Rack 10000 series Cabinets The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors |
| | CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment: |
| | Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation). Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm). |
| | CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage. |
| | NOTE: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: http://www5.compaq.com/products/servers/ProLiantdl740/index.html. NOTE: Allow a minimum of 48 inches (121.92 cm) clearance beyond the front of your rack to permit server installation and removal. This applies to both individual rack installations as well as when aligning rack rows so that the front doors are facing each other. |
| HP Factory Express Capabilities | HP Factory Express gives you the flexibility to choose from a full menu of factory capabilities all in one manufacturing facility, in one process, with one touch giving you full control and access to HP's World class manufacturing facility anytime. This approach provides you the speed to deploy your IT needs, with total quality assurance, reliability, and predictability to lower your total cost of ownership by letting HP install, rack, and customize your software and hardware options for you. |



Standard Features

Service and Support

Three-year limited warranty, including hardware diagnostic support, pre-failure warranty (coverage of hard drives, memory and processors). The warranty is fully supported by HP Services and a worldwide network of resellers and service providers. In addition 90-day's getting started software telephone support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services.

NOTE: Limited warranty includes 3 year parts, 3 year labor, 3-year on-site support

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

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

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

HP Care Pack Services include HP branded hardware options qualified for the server, purchased at the same time or afterwards, internal to the enclosure, as well as 22" and smaller external monitors and tower UPS options up to 3KVA. 22" and smaller external monitors will be covered at the same service level and coverage period as the server. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack.

NOTE: For more information on HP Care Pack services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at: http://www.hp.com/hps/carepack

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

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



Models

| DL740R01 X3.0-4MB, | Processor(s) | (4) Intel Xeon Processors MP at 3.0 GHz standard (up to 8 supported) |
|--------------------|--------------------|--|
| 4096MB (4P) | Cache Memory | 4-MB integrated Level 3 cache (per processor) |
| 348445-xxx | Memory | 4096 MB (Standard) to 64 GB (Maximum) addressable protected 133MHz ECC SDRAM DIMM (5120 MB total) |
| | Network Controller | Two NC7781 PCI-X Gigabit NICs (embedded) |
| | Storage Controller | Integrated Smart Array 5i Controller (Ultra 3 support) (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) |
| | Hard Drives | None |
| | Internal Storage | 587.2 GB maximum (with optional hard drives) |
| | Cache Accelerator | 2-MB Cache coherency accelerator embedded on host board |
| | Optical Drive | Slimline CD/DVD-ROM Drive (8X/24X) |
| | Diskette Drive | 1.44 MB Diskette Drive |
| | I/O Slots | PCI-X |
| | Form Factor | 4U Rack Form Factor |
| DL740R01 X2.7-2MB, | Processor(s) | (4) Intel Xeon Processors MP at 2.7 GHz standard (up to 8 supported) |
| 4096MB (4P) | Cache Memory | 2-MB Integrated Level 3 cache (per processor) |
| 348446-xxx | Memory | 4096 MB (Standard) to 64 GB (Maximum) addressable protected 133MHz ECC SDRAM DIMM (5120 MB total) |
| | Network Controller | Two NC7781 PCI-X Gigabit NICs (embedded) |
| | Storage Controller | Integrated Smart Array 5i Controller (Ultra 3 support) (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) |
| | Hard Drives | None |
| | Internal Storage | 587.2 GB maximum (with optional hard drives) |
| | Cache Accelerator | 2-MB Cache coherency accelerator embedded on host board |
| | Optical Drive | Slimline CD/DVD-ROM Drive (8X/24X) |
| | Diskette Drive | 1.44 MB Diskette Drive |
| | I/O Slots | PCI-X |
| | Form Factor | 4U Rack Form Factor |
| DL740R01 X2.2-2MB, | Processor(s) | (4) Intel Xeon Processors MP at 2.2 GHz standard (up to 8 supported) |
| 2048MB (4P) | Cache Memory | 2-MB Integrated Level 3 cache (per processor) |
| 348447-xxx | Memory | 2048MB (Standard) to 64 GB (Maximum) addressable protected 133MHz ECC SDRAM DIMM (5120 MB total) |
| | Network Controller | Two NC7781 PCI-X Gigabit NICs (embedded) |
| | Storage Controller | Integrated Smart Array 5i Controller (Ultra 3 support) (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) |
| | Hard Drives | None |
| | Internal Storage | 587.2 GB maximum (with optional hard drives) |
| | Cache Accelerator | 2-MB Cache coherency accelerator embedded on host board |
| | Optical Drive | Slimline CD/DVD-ROM Drive (8X/24X) |
| | Diskette Drive | 1.44 MB Diskette Drive |
| | I/O Slots | PCI-X |
| | Form Factor | 4U Rack Form Factor |



Models

| DL740R01 X2.8-2MB, | Processor(s) | (4) Intel Xeon Processors MP at 2.8 GHz standard (up to 8 supported) |
|----------------------------------|--------------------|--|
| 4096MB (4P) | Cache Memory | 2-MB Integrated Level 3 cache (per processor) |
| 330531-xxx | Memory | 4096 MB (Standard) to 64 GB (Maximum) addressable protected 133MHz ECC SDRAM DIMM (5120 MB total) |
| | Network Controller | Two NC7781 PCI-X Gigabit NICs (embedded) |
| | Storage Controller | Integrated Smart Array 5i Controller (Ultra 3 support) (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) |
| | Hard Drives | None |
| | Internal Storage | 587.2 GB maximum (with optional hard drives) |
| | Cache Accelerator | 2-MB Cache coherency accelerator embedded on host board |
| | Optical Drive | Slimline CD/DVD-ROM Drive (8X/24X) |
| | Diskette Drive | 1.44 MB Diskette Drive |
| | I/O Slots | PCI-X |
| | Form Factor | 4U Rack Form Factor |
| DL740R01 X2.5-1MB, | Processor(s) | (4) Intel Xeon Processors MP at 2.5 GHz standard (up to 8 supported) |
| 4096MB (4P) 338975-xxx | Cache Memory | 1-MB Integrated Level 3 cache (per processor) |
| | Memory | 4096 MB (Standard) to 64 GB (Maximum) addressable protected 133MHz ECC SDRAM DIMM (5120 MB total) |
| | Network Controller | Two NC7781 PCI-X Gigabit NICs (embedded) |
| | Storage Controller | Integrated Smart Array 5i Controller (Ultra 3 support) (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) |
| | Hard Drives | None |
| | Internal Storage | 587.2 GB maximum (with optional hard drives) |
| | Cache Accelerator | 2-MB Cache coherency accelerator embedded on host board |
| | Optical Drive | Slimline CD/DVD-ROM Drive (8X/24X) |
| | Diskette Drive | 1.44 MB Diskette Drive |
| | I/O Slots | PCI-X |
| | Form Factor | 4U Rack Form Factor |
| DL740R01 X2.0-1MB, | Processor(s) | (4) Intel Xeon Processors MP at 2.0 GHz standard (up to 8 supported) |
| 2048MB (4P) | Cache Memory | 1-MB Integrated Level 3 cache (per processor) |
| 330501-xxx | Memory | 2048 MB (Standard) to 64 GB (Maximum) addressable protected 133MHz ECC SDRAM DIMM (2560 MB total) |
| | Network Controller | Two NC7781 PCI-X Gigabit NICs (embedded) |
| | Storage Controller | Integrated Smart Array 5i Controller (Ultra 3 support) (supports RAID 0, 1, 1+0, and 5 across internal hard disk drives) |
| | Hard Drives | None |
| | Internal Storage | 587.2 GB maximum (with optional hard drives) |
| | Cache Accelerator | 2-MB Cache coherency accelerator embedded on host board |
| | Optical Drive | Slimline CD/DVD-ROM Drive (8X/24X) |
| | Diskette Drive | 1.44 MB Diskette Drive |
| | I/O Slots | PCI-X |
| | Form Factor | 4U Rack Form Factor |



Models

Country Code Key

XXX=B21 XXX=292 XXX=AA2 Rack Code Key Worldwide Japan PRC



| ProLiant DL740 Unique Options | Low Line (115V) Cable Kit, C-13 to 5-15P DL740 Folding Metal Cable Management Arm *NOTE: The Low Line Cable Kit consists of a single, 9 foot, IEC C-13 to 5-15P, 10 Amp cord. HP highly recommends running your DL740 at high line (220V) voltage to ensure power redundancy for all of your robust, business-critical configurations. Because of the increasing power requirements of the memory and microprocessor subsystems, the DL740 does not support power redundancy for all configurations when running at low line voltage. Please refer to the Power Supply Calculator <u>http://activeanswers.compaq.com/</u> to determine if your low line configuration is redundant. | 317424-001 321716-B21 |
|--|---|--------------------------|
| ProLiant Essentials Value Pack Software | ProLiant Essentials Performance Management Pack Single Server License NOTE: This license allows 1 server to be managed by Performance Management Pack. | 306696-B21 |
| | Performance Management Pack, flexible license kit NOTE: A single pack is shipped with a single license key for the total number of licenses ordered. | 306697-B21 |
| | ProLiant Essentials Workload Management Pack (Featuring Compaq Resource Partitioning Manager version 2.0) | 303284-B21 |
| | ProLiant Essentials Integrated Lights-Out Advanced Pack | 263825-B21 |
| | NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to <u>http://www.hp.com/servers/proliantessentials</u> or the various ProLiant Essentials Value Pack product QuickSpecs for more information. NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: <u>http://www.hp.com/servers/proliantessentials</u> . | |
| HP NetServer integration Services | HP NetServer to ProLiant integration and assessment service NOTE: HP identifies current levels of NetServer support, services, and management. This service helps maximize customer's ability to add ProLiant platforms into their current environment. | 304164-002 |
| | HP TopTools to Insight Manager 7 installation and startup service NOTE: Provides on-site review, installation and configuration services for Insight Manager 7. HP will also re-create, as closely as possible, the views and reports from the customer's current TopTools configuration. This service assures a smooth transition to the ProLiant Essentials software. | 304163-002 |



| Processor | NOTE: Intel Xeon 3.0GHz/4MB, 2.7GHz/2MB, 2.2GHz/2MB, 2.8GHz/2MB, 2.0GHz/2MB, 2.5GHz/1MB, 2.0GHZ/1MB, and 1.5 GHz/1MB processors cannot be mixed in the same server. They all have to be of the same speed and cache size. | |
|---------------|---|------------|
| | (4) Intel Xeon MP 3.0GHz -4MB Processor Option Kit NOTE: This processor option kit (PN 351050-B21) supports the ProLiant DL760 G2 and the ProLiant DL740 servers. This option kit contains 4 x Intel Xeon MP 3.0GHz-4MB processors. | 351050-B21 |
| | (4) Intel Xeon MP 2.70GHz -2MB Processor Option Kit NOTE: This processor option kit (PN 351051-B21) supports the ProLiant DL760 G2 and the ProLiant DL740 servers. This option kit contains 4 x Intel Xeon MP 2.7GHz-2MB processors. | 351051-B21 |
| | (4) Intel Xeon MP 2.20GHz -2MB Processor Option Kit NOTE: This processor option kit (PN 351052-B21) supports the ProLiant DL760 G2 and the ProLiant DL740 servers. This option kit contains 4 x Intel Xeon MP 2.2GHz-2MB processors. | 351052-B21 |
| | Intel Xeon MP 2.80GHz -2MB Processor Option Kit (4P) NOTE: This processor option kit (PN 334037-B21) supports the ProLiant DL740 and the ProLiant DL760 G2 servers. This option kit contains 4 x Intel Xeon MP 2.8GHz-2MB processors. | 334037-B21 |
| | Intel Xeon MP 2.5GHz -1MB Processor Option Kit (4P) NOTE: This processor option kit (PN 339072-B21) supports the ProLiant DL740 and the ProLiant DL760 G2 servers. This option kit contains 4 x Intel Xeon MP 2.5GHz-1MB processors. | 339072-B21 |
| | Intel Xeon MP 2.0GHz -1MB Processor Option Kit (4P) NOTE: This processor option kit (PN 334036-B21) supports the ProLiant DL740 and the ProLiant DL760 G2 servers. This option kit contains 4 x Intel Xeon MP 2.0GHz-1MB processors. | 334036-B21 |
| | Intel Xeon MP 2.0GHz -2MB Processor Option Kit (4P) NOTE: This processor option kit (PN 287520-B21) supports the ProLiant DL740 and the ProLiant DL760 G2 servers. This option kit contains 4 x Intel Xeon MP 2.0GHz-2MB processors. | 287520-B21 |
| | Intel Xeon MP 1.50 GHz-1MB Processor Option Kit (4P) NOTE: This processor option kit (PN 287519-B21) supports the ProLiant DL740 and the ProLiant DL760 G2 servers. This option kit contains 4 x Intel Xeon MP 1.5GHz-1MB processors. | 287519-B21 |
| Memory | 2048MB 133MHz ECC SDRAM Memory Option Kit (1x2048MB) | 317093-B21 |
| (SDRAM DIMMs) | 1024MB 133MHz ECC SDRAM Memory Option Kit (1x1024MB) | 236854-B21 |
| | 512MB 133MHz ECC SDRAM Memory Option Kit (1x512MB) | 236853-B21 |
| | 256MB 133MHz ECC SDRAM Memory Option Kit (1x256MB) | 236852-B21 |
| | NOTE: Memory must be populated in banks of 10. (2 per memory cartridge x 5 cartridges) All DIMMs in a bank must be the same sku number. | |
| Hard Drives | Ultra 320 SCSI – Universal Hot Plug | |
| | 36.4GB 10,000 rpm, U320 Universal Hard Drive, 1" | 286713-B22 |
| | 72.8GB 10,000 rpm, U320 Universal Hard Drive, 1" | 286714-B22 |
| | 146.8GB 10,000 rpm, U320 Universal Hard Drive, 1" | 286716-B22 |
| | 18.2GB 15,000 rpm, U320 Universal Hard Drive, 1" | 286775-B22 |
| | 36.4GB 15,000 rpm, U320 Universal Hard Drive, 1" | 286776-B22 |
| | 72.8GB 15,000 rpm, U320 Universal Hard Drive, 1" | 286778-B22 |
| | NOTE: All U320 Universal Hard Drives are backward compatible to U2 or U3 speeds. U320 drives require an optional U320 Smart Array Controller or U320 SCSI HBA to support U320 transfer rates. | |
| | NOTE: Please see the Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature: | |
| | U320 Hard Drive QS: http://h18000.www1.hp.com/products/quickspecs/11531_div/11531_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/11531_na/11531_na.HTML (North America) | |



| Storage Controllers | Smart Array 532 Controller | 225338-B21 |
|---------------------|--|------------|
| | Smart Array 532 Controller (Japan) | 225338-291 |
| | Smart Array 5304/256 Controller | 283551-B21 |
| | Smart Array 5304/256 Controller (Japan) | 283551-291 |
| | Smart Array 6402/128 Controller | 273915-B21 |
| | Smart Array 6404/256 Controller | 273914-B21 |
| | Smart Array 641 Controller | 291966-B21 |
| | Smart Array 642 Controller | 291967-B21 |
| | 64MB BBWC Module for Smart Array 641/642 Controllers | 291969-B21 |
| | 128MB Battery-Backed Cache Enabler NOTE: This 128MB BBWC supports the Smart Array 641 Controller and Smart Array 642 Controller. | 351580-B21 |
| | 128-MB Cache Module for Smart Array 5302 Controller | 153506-B21 |
| | 256-MB Battery-Backed Cache Module NOTE: This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series controllers, HP StorageWorks Modular Smart Array 1000 and the HP StorageWorks Modular Smart Array 500. | 254786-B21 |
| | 256MB DDR, Battery-Backed Cache Upgrade Kit for SA-6400 NOTE: This 256-MB DDR, Battery-Backed Cache upgrade kit supports the Smart Array 6400 series controller only. | 273913-B21 |
| | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter (The 64-bit/133-MHz Dual Channel Wide Ultra320 SCSI Adapter (268351-B21) will default to Wide Ultra2 when not used with the Wide Ultra3 hard drives.) | 268351-B21 |
| | Ultra320 Expansion Module for SA-6402 | 273911-B21 |
| | NOTE: Please see the following Controller or SCSI Adapter QuickSpecs for Technical Specifications such as PCI Bus, PCI Peak Data Transfer Rate, SCSI Protocols supported, SCSI Peak Data Transfer Rate, Channels, SCSI Ports, Drives supported, Cache, RAID support, and additional information: http://h18000.www1.hp.com/products/quickspecs/10851_div/10851_div.HTML (Smart Array 532) http://h18000.www1.hp.com/products/quickspecs/10640_div/10640_div.HTML (Smart Array 5300 Series) http://h18000.www1.hp.com/products/quickspecs/1187_div/11587_div.HTML (Smart Array 6400 Series) | |
| | http://h18000.www1.hp.com/products/quickspecs/11563_div/11563_div.HTML (Smart Array | |
| | 641) http://h18000.www1.hp.com/products/quickspecs/11563_div/11563_div.HTML (Smart Array 642) | |
| | http://h18000.www1.hp.com/products/quickspecs/10429_div/10429_div.HTML | |
| | (SCSI Adapter) | |
| | http://h18000.www1.hp.com/products/quickspecs/11555_div/11555_div.HTML (U320 Adapter) | |
| Communications | NC6170 Dual Port PCI-X 1000SX Gigabit Server Adapter | 313879-B21 |
| | NC6770 PCI-X Gigabit Server Adapter, 1000-SX | 244949-B21 |
| | NC7170 Dual Port PCI-X 1000T Gigabit Server Adapter | 313881-B21 |
| | NC7771 PCI-X Gigabit Server Adapter | 290563-B21 |
| | NOTE: Any NIC on the option list can be used for redundancy with the embedded NC7781 Network Controller | |



| Management Options | Remote Insight Lights-Out Edition II (NA, LA) | 227251-001 |
|--------------------|--|------------|
| | Remote Insight Lights-Out Edition II (EMEA) | 227251-021 |
| | Remote Insight Lights-Out Edition II (ROW) | 227251-371 |
| Security | HP/Atalla AXL600L SSL Accelerator Card for ProLiant Servers | 524545-B21 |
| | Compaq AXL300 Accelerator PCI Card (HW SSL Encryption) for ProLiant Servers | 227933-B21 |
| Tape Drives | External, Rack-Mount, and Array Module Ultrium Tape Drives | |
| | HP StorageWorks Ultrium 215 Tape Drive, External (Carbon) | Q1545A |
| | HP StorageWorks Ultrium 215 rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit | 350544-B21 |
| | HP StorageWorks Ultrium 215 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | C7492B |
| | HP StorageWorks Ultrium 230 Tape Drive, External (Carbon) | Q1517A |
| | HP StorageWorks Ultrium 230, Rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit | 350545-B21 |
| | HP StorageWorks Ultrium 230 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | C7470B |
| | HP StorageWorks Ultrium 460 Tape Drive, External (Carbon) | Q1520A |
| | HP StorageWorks Ultrium 460, Rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit | 350546-B21 |
| | HP StorageWorks Ultrium 460 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | Q1512B |
| | NOTE: Please see the HP StorageWorks Ultrium 215, 230, and 460 Tape Drive QuickSpecs for additional options such as controllers, media, and other related items: | |
| | http://h18006.www1.hp.com/products/quickspecs/11739_div/11739_div.html (Worldwide) http://h18006.www1.hp.com/products/quickspecs/11739_na/11739_na.html | |
| | (North America) | |
| | For an up-to-date listing of the latest O/S and software support details for HP Ultrium tape drives, please visit: http://www.hp.com/go/connect | |
| | External, Hot-Plug, and Array Module DAT Drives | |
| | HP StorageWorks DAT 72 Tape Drive, External (Carbon) | Q1523A |
| | HP StorageWorks DAT 72 Tape Drive, Internal Hot-Plug (Carbon) | Q1529A |
| | HP StorageWorks DAT 72 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | Q1524B |
| | HP StorageWorks DAT 40 Tape Drive, External (Carbon) | C5687C |
| | HP StorageWorks DAT 40 Tape Drive, Internal Hot-Plug (Carbon) | Q1546A |
| | HP StorageWorks DAT 40 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | C7497B |
| | HP StorageWorks DAT 24e Tape Drive, External (Flint) | C1556D |
| | HP StorageWorks DAT 24 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | C7498A |
| | NOTE: Please see the DAT Tape Drive QuickSpecs for controllers, media, and other options: http://h18000.www1.hp.com/products/quickspecs/11883_div/11883_div.HTML (Worldwide) | |
| | http://h18000.www1.hp.com/products/quickspecs/11883_na/11883_na.HTML | |
| | (North America) | |
| | For an up-to-date listing of the latest O/S and software support details for HP DAT drives, please visit: http://www.hp.com/go/connect | |
| | External DLT VS Tape Drives | |
| | HP StorageWorks DLT VS80 Tape Drive, External (Carbon) NA | 337699-B22 |
| | HP StorageWorks DLT VS80 Tape Drive, External (Carbon) Int'l | 337699-B31 |
| | HP StorageWorks DLT VS80 Tape Drive, External (Carbon) Japan | 337699-291 |
| | NOTE: Please see the DLT VS80 Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, media, and other oprions: | |
| | http://h18006.www1.hp.com/products/quickspecs/11403_div/11403_div.HTML (Worldwide) http://h18006.www1.hp.com/products/quickspecs/11403_na/11403_na.HTML (North America) | |



| For an up-to-date listing of the latest O/S and software support details for the DLT VS80, please visit: http://www.hp.com/go/connect | |
|--|------------|
| External and Rack-mount SDLT Tape Drives | |
| HP StorageWorks SDLT 320 Tape Drive, External (Carbon) NA | 257319-001 |
| HP StorageWorks SDLT 320 Tape Drive, External (Carbon) Int'l | 257319-B31 |
| HP StorageWorks SDLT 320 Tape Drive, External (Carbon) Japan | 257319-291 |
| NOTE: Please see the SDLT 320 Tape Drive QuickSpecs for additional options such as | |
| adapters, controllers, and media. http://h18006.www1.hp.com/products/quickspecs/11406_div/11406_div.HTML (Worldwide) http://h18006.www1.hp.com/products/quickspecs/11406_na/11406_na.HTML (North America) | |
| For an up-to-date listing of the latest O/S and software support details for HP SDLT tape drives, please visit: http://www.hp.com/go/connect | |
| Rack-Mount Tape Drive Enclosures | |
| HP StorageWorks 3U Rack-Mount Kit | 274338-B21 |
| NOTE: The 3U Rack-Mount Kit 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 DAT, DLT VS80, SDLT 320, Ultrium 215, Ultrium 230, and Ultrium 460 Tape Drives. | |
| HP StorageWorks 5U Rack-Mount Kit | 274339-B21 |
| NOTE: The 5U Rack-Mount Kit can support up to 4 full-height tape drives and is compatible with SDLT 320, Ultrium 230, and Ultrium 460 tape drives. | |
| NOTE: Please see the Rack-Mount Tape Drive Kits QuickSpecs for additional information | |
| regarding these kits: | |
| http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/10854_na/10854_na.HTML | |
| (North America) | |
| HP StorageWorks Tape Array 5300 | C7508A |
| NOTE: The Tape Array 5300 is a 3U enclosure that supports up to 2 full-height or 4 half-height hot-swap array modules, including DAT and Ultrium tape drives. Cables and terminators are not included and must be ordered separately. NOTE: Please see the Tape Array 5300 QuickSpecs for additional information regarding this | |
| product. | |
| http://h18000.www1.hp.com/products/quickspecs/11878_div/11878_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/11878_na/11878_na.HTML | |
| (North America) | |
| Accessories for 3U & 5U Rack-mount Tape Drive Kits | |
| LVD Cable Kit, VHDCI/HD68 | 168048-B21 |
| NOTE: For use with the 3U Rack-mount Kit and 5U Rack-mount Kit only. | |
| LVD Cable Kit, HD68/HD68 NOTE: For use with the 3U Rack-mount Kit and 5U Rack-mount Kit only. | 242381-B21 |
| Accessories for 3U & 5U Rack-mount Tape Drive Kits | |
| PSU/Fan Upgrade Kit - Redundant hot-swap power supply unit and fan for Tape Array 5300. | |
| 68-pin HD multi-mode terminator | C2364A |
| 1.0m 68-pin VHDCI to 68-pin HD cable | C2361B |
| 2.5m 68-pin VHDCI to 68-pin HD cable | C2362B |
| 5.0m 68-pin VHDCI to 68-pin HD cable | C2365A |
| 10.0m 68-pin VHDCI to 68-pin HD cable | C2363B |
| 0.5m 68-pin HDI to 68-pin HD cable LVD/SE | C2978B |
| 1.5m 68-pin HDI to 68-pin HD cable LVD/SE | C2979B |
| 0.9m 68-pin HDI to 68-pin HD cable LVD/SE | C2911C |
| 2.5m 68-pin HDI to 68-pin HD cable LVD/SE | C2924C |
| NOTE: For use with Tape Array 5300 only | 020240 |
| Note. For use with rape Array 3500 only | |



| | DAT Autoloader HP StorageWorks DAT 72x6 External Autoloader | Q1567 |
|-------------|---|--|
| | | Q1567 |
| | NOTE: Please see the DAT 72x6 Tape Autoloader QuickSpecs for additional options such as host bus adapters, controllers and media: | |
| | http://h18000.www1.hp.com/products/quickspecs/11985_div/11985_div.HTML (Worldwide) | |
| | http://h18000.www1.hp.com/products/quickspecs/11985_na/11985_na.HTML | |
| | (North America) | |
| | HP StorageWorks DAT 40x6 Tape Autoloader, External (Flint) | C571 |
| | NOTE: Please see the DAT 40x6 Tape Autoloader QuickSpecs for additional options such as host bus adapters, controllers and media: | |
| | http://h18000.www1.hp.com/products/quickspecs/11882_div/11882_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/11882_na/11882_na.HTML | |
| | (North America) | |
| | HP StorageWorks 1/8 Tape Autoloader | |
| | 1/8 Ultrium 460 Tape Autoloader, Tabletop | AA92 |
| | 1/8 SDLT 320 Tape Autoloader, Tabletop | AA92 |
| | 1/8 Ultrium 230 Tape Autoloader, Tabletop | C9572 |
| | 1/8 DLT VS80 Tape Autoloader, Tabletop | C9264 |
| | 1/8 Tape Autoloader Rackmount Kit | C926 |
| | NOTE: Required to install the 1/8 tape autoloader in a standard 19-inch rack. | |
| | NOTE: Please reference the 1/8 Tape Autoloader QuickSpecs at <u>http://www.hp.com/go/automation</u> for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs. | |
| | HP StorageWorks SSL1016 Tape Autoloader | |
| | SSL1016 Ultrium 460 Tape Autoloader | 330821-E |
| | SSL1016 SDLT 320 Tape Autoloader | 330816-E |
| | NOTE: Please reference the SSL1016 Tape Autoloader QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs. | |
| | | |
| e Libraries | HP StorageWorks MSL6000 Tape Library MSL6030, 1 drive, 30 slots, Ultrium 460, RM | 330731-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM | |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM | 330731-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router | 330731-Е 330731-Е |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router | 330731-E 330731-E 330731-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router | 330731-E 330731-E 330731-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router | 330731-E 330731-E 330731-E 330788-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 1 drive, 30 slots, Ultrium 460, TT | 330731-E 330731-E 330731-E 330788-E 330788-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 1 drive, 30 slots, Ultrium 460, TT MSL6030, 2 drive, 30 slots, Ultrium 460, TT | 330731-E 330731-E 330731-E 330788-E 330788-E 331196-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 1 drive, 30 slots, Ultrium 460, TT MSL6030, 2 drive, 30 slots, Ultrium 460, TT MSL6060, 2 drive, 60 slot, Ultrium 460, RM | 330731-E 330731-E 330731-E 330788-E 330788-E 331196-E 331196-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 1 drive, 30 slots, Ultrium 460, TT MSL6030, 2 drive, 30 slots, Ultrium 460, TT MSL6060, 2 drive, 60 slot, Ultrium 460, RM MSL6060, 2 drive, 60 slot, Ultrium 460, RM | 330731-E 330731-E 330731-E 330788-E 330788-E 331196-E 331196-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 1 drive, 30 slots, Ultrium 460, TT MSL6030, 2 drive, 30 slots, Ultrium 460, TT MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router MSL6060, 2 drive, 60 slot, Ultrium 460, RM MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router MSL6060, 2 drive, 60 slot, Ultrium 460, TT NOTE: Please reference the MSL6000 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/automation for additional information at http://www.hp.com/go/ebs. HP StorageWorks MSL5026S2 Tape Library | 330731-E 330731-E 330788-E 330788-E 331196-E 331195-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 1 drive, 30 slots, Ultrium 460, TT MSL6030, 2 drive, 30 slots, Ultrium 460, TT MSL6060, 2 drive, 60 slot, Ultrium 460, RM MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router MSL6060, 2 drive, 60 slot, Ultrium 460, RM MSL6060, 2 drive, 60 slot, Ultrium 460, TT NOTE: Please reference the MSL6000 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs. | 330731-E 330731-E 330731-E 330788-E 330788-E 331196-E 331196-E 331195-E |
| e Libraries | MSL6030, 1 drive, 30 slots, Ultrium 460, RM MSL6030, 2 drive, 30 slots, Ultrium 460, RM MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router MSL6030, 1 drive, 30 slots, Ultrium 460, TT MSL6030, 2 drive, 30 slots, Ultrium 460, TT MSL6060, 2 drive, 60 slot, Ultrium 460, RM MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router MSL6060, 2 drive, 60 slot, Ultrium 460, RM MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router MSL6060, 2 drive, 60 slot, Ultrium 460, TT NOTE: Please reference the MSL6000 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs. HP StorageWorks MSL5026S2 Tape Library MSL5026S2, 1 drive, 26 slots, SDLT 320, RM | 330731-B 330731-B 330731-B 330731-B 330788-B 330788-B 331196-B 331196-B 331195-B 293472-B 293472-B 293472-B |



| MSL5026S2, 1 drive, 26 slots, SDLT 320, TT | 293473-B21 |
|--|--------------------------|
| MSL5026S2, 2 drive, 26 slots, SDLT 320, TT | 293473-B22 |
| NOTE: Please reference the MSL5026S2 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs . | |
| | 293474-B21 |
| MSL5052S2, 2 drive, 52 slots, SDLT 320, RM | |
| MSL5052S2, 2 drive, 52 slots, SDLT 320, RM with embedded FC router | 293474-B24 293476-B21 |
| MSL5052S2, 2 drive, 52 slots, SDLT 320, TT NOTE: Please reference the MSL5052S2 Tape Library QuickSpecs at <u>http://www.hp.com/go/automation</u> for additional information needed to create a complete solution; reference current compatibility information at <u>http://www.hp.com/go/ebs</u> . HP StorageWorks MSL5030 Tape Library | 293470-021 |
| MSL5030, 1 drive, 30 slots, Ultrium 230, RM | 301897-B22 |
| MSL5030, 2 drive, 30 slots, Ultrium 230, RM | 301897-B23 |
| MSL5030, 1 drive, 30 slots, Ultrium 230, RM with embedded FC router | 301897-B24 |
| MSL5030, 2 drive, 30 slots, Ultrium 230, RM with embedded FC router | 301897-B25 |
| MSL5030, 1 drive, 30 slots, Ultrium 230, TT | 301898-B21 |
| MSL5030, 2 drive, 30 slots, Ultrium 230, TT | 301898-B22 |
| NOTE: Please reference the MSL5030 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs . HP StorageWorks MSL5060 Tape Library | |
| MSL5060, 2 drive, 60 slots, Ultrium 230, RM | 301899-B22 |
| MSL5060, 2 drive, 60 slots, Ultrium 230, RM with embedded FC router | 301899-B23 |
| MSL5060, 2 drive, 60 slots, Ultrium 230, TT | 301900-B21 |
| NOTE: Please reference the MSL5060 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at <u>http://www.hp.com/go/ebs</u> . HP StorageWorks ESL E-Series Tape Libraries | |
| ESL Extended 712e Tape Library, 0 drive, 712 LTO slots | AA934A |
| ESL Extended 630e Tape Library, 0 drive, 630 SDLT slots | AA935A |
| ESL E Ultrium 460 drive kit | AA937A |
| ESL E SDLT 320 drive kit | AA936A |
| NOTE: Please reference the ESL E-Series Tape Libraries QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs HP StorageWorks ESL9000 Series Tape Libraries | |
| ESL9595 Extended Tape Library, 0 drive, 400 slots (card cage, Interface Mgr card, Command | 343378-B21 |
| View license) ESL9322 Extended Tape Library, 0 drive, 222 slots (card cage, Interface Mgr card, Command View license) | 343377-B21 |
| ESL9000 Ultrium 460 drive kit | 330834-B21 |
| ESL9000 Ultrium 230 drive kit | 301930-B21 |
| ESL9000 SDLT 320 drive kit | 293414-B21 |
| | |



Options

http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs.

| Magneto-Optical | HP StorageWorks 9.1 GB Mid-range Optical Jukeboxes | |
|------------------|---|------------|
| Jukeboxes | 300mx, 2 drive, 32 slot jukebox | C1150M |
| | 600mx, 4 drive, 64 slot jukebox | C1160M |
| | 700mx, 2 drive, 76 slot jukebox | C1170N |
| | NOTE: Please reference the Magneto-Optical Jukebox data sheets at http://www.hp.com/go/optical for additional information needed to create a complete solution. HP StorageWorks 9.1 GB High-end Optical Jukeboxes | |
| | 1200mx, 4 drive, up to 128 slots | C1104M |
| | 1200mx, 6 drive, up to 128 slots | C1105M |
| | 2200mx, 4 drive, up to 238 slots | C1111M |
| | 2200mx, 6 drive, up to 238 slots | C1107M |
| | 2200mx, 10 drive, up to 238 slots | C1110M |
| | NOTE: Please reference the Magneto-Optical Jukebox data sheets at <u>http://www.hp.com/go/optical</u> for additional information needed to create a complete solution. | |
| External Storage | HP StorageWorks Modular Smart Array 20 NOTE: Rack-mountable 12 (SATA) drive enclosure with U320 Host connectivity, redundant power supplies. | 335921-B21 |
| | HP StorageWorks Modular Smart Array 20 Starter Kit NOTE: Rack-mountable 12 (SATA) drive enclosure with U320 Host connectivity, redundant power supplies. Includes Smart Array 6402/128 Controller. | 366172-B21 |
| | NOTE: The Modular Smart Array Enclosure 20 Family supports the SATA 1.5Gb/s 1" Hot Plug Hard Drives. | |
| | HP StorageWorks Modular Smart Array 30 SB NOTE: Rack-mountable 14 drive enclosure with single bus, redundant power supplies. | 302969-B21 |
| | HP StorageWorks Modular Smart Array 30 DB NOTE: Rack-mountable 14 drive enclosure with dual bus, redundant power supplies. | 302970-B21 |
| | NOTE: The Modular Smart Array Enclosure 30 Family supports the Wide Ultra3, Ultra320 1" Hot Plug Hard Drives. | |
| | Redundant Power Supply 499W | 338296-B21 |
| | Ultra320 Dual Bus I/O Module for MSA30 | 287483-B2 |
| | Ultra320 Single Bus I/O Module for MSA30 | 287484-B21 |



| HP StorageWorks Modular | HP StorageWorks Modular Smart Array 500 Generation 2 | 335880-B21 |
|-------------------------|---|------------|
| Smart Array 500 | NOTE: Please see the Modular Smart Array 500 Generation 2 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/11956_na/11956_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11956_div/11956_div.HTML (Worldwide) | |
| | HP StorageWorks Modular Smart Array 500 | 201724-B21 |
| | NOTE: Please see the Modular Smart Array 500 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/11050_na/11050_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11050_div/11050_div.HTML (Worldwide) | |



| Cluster Options | ProLiant Cluster Starter Kit | 364023-B21 |
|-----------------|---|------------|
| | NOTE: For additional information regarding the ProLiant Cluster Starter Kit please see the | |
| | following QuickSpecs at: | |
| | http://h18000.www1.hp.com/products/quickspecs/11935_na/11935_na.html (North America) | |
| | http://h18000.www1.hp.com/products/quickspecs/11935_div/11935_div.html (Worldwide) | |
| | ProLiant Cluster Kit with OpenView Storage Mirroring | 364025-B21 |
| | NOTE: For additional information regarding the ProLiant Cluster Kit with OpenView Storage | |
| | Mirroring please see the following QuickSpecs at: | |
| | http://h18000.www1.hp.com/products/quickspecs/11934_na/11934_na.html | |
| | (North America) http://h18000.www1.hp.com/products/quickspecs/11934_div/11934_div.html (Worldwide) | |
| | ProLiant Cluster HA/F200 for the Entry Level SAN | 364026-B21 |
| | ProLiant Cluster HA/F200 for the Entry Level SAN (Japan) | 364026-291 |
| | NOTE: For additional information regarding the ProLiant Cluster for Entry Level SAN please see | 304020-291 |
| | the following QuickSpecs at: | |
| | http://h18000.www1.hp.com/products/quickspecs/11932_na/11932_na.html | |
| | (North America) | |
| | http://h18000.www1.hp.com/products/quickspecs/11932_div/11932_div.html (Worldwide) | |
| | ProLiant Cluster HA/F500 for the Enterprise SAN | 364024-B21 |
| | NOTE: For additional information regarding the ProLiant Cluster HA/F500 for Enterprise SAN please see the following QuickSpecs at: | |
| | http://h18000.www1.hp.com/products/quickspecs/11933_na/11933_na.html | |
| | (North America) | |
| | http://h18000.www1.hp.com/products/quickspecs/11933_div/11933_div.html (Worldwide) | |
| | HP Serviceguard for Linux ProLiant Cluster (2 node license cluster kit for Red Hat AS 2.1) | 305199-B22 |
| | A.11.14 NOTE: Kit includes 2 licenses, documentation and an Ethernet crossover cable. | |
| | HP Serviceguard for Linux ProLiant Cluster (2 node license cluster kit) A.11.15 | 305199-B24 |
| | NOTE: Kit includes 2 licenses, documentation and an Ethernet crossover cable. | 000100 024 |
| | HP Serviceguard for Linux (single license version for ordering flexibility and to ease ordering for | 307754-B22 |
| | larger cluster for Red Hat AS 2.1) A.11.14 | |
| | NOTE: Kit includes single license version and documentation. | _ |
| | HP Serviceguard for Linux (single license version for ordering flexibility and to ease ordering for | 307754-B24 |
| | larger cluster) A.11.15 NOTE: Kit includes single license version and documentation. | |
| | NOTE: For additional information regarding the HP Serviceguard for Linux License, please see | |
| | the following QuickSpecs at: | |
| | http://h18000.www1.hp.com/products/quickspecs/11518_na/11518_na.html | |
| | (North America) http://h18000.www1.hp.com/products/quickspecs/11518_div/11518_div.html (Worldwide) | |
| | HP Parallel Database Cluster Model PDC/O2000-MSA1000 for Oracle Real Application Cluster on | 279406-B24 |
| | Windows | 210400 024 |
| | NOTE: For additional information regarding the HP Parallel Database Cluster Model PDC/O2000- | |
| | MSA1000, please see the following QuickSpecs at: | |
| | http://h18000.www1.hp.com/products/quickspecs/10889_na/10889_na.html | |
| | (North America) http://h18000.www1.hp.com/products/quickspecs/10889_div/10889_div.html (Worldwide) | |
| | ProLiant Parallel Database Cluster for Linux - Oracle9i Real Application Cluster | 308225-B22 |
| | NOTE: For additional information regarding the ProLiant Parallel Database Cluster for Linux, | |
| | please see the following QuickSpecs at: | |
| | http://www5.compaq.com/products/quickspecs/11688_na/11688_na.html | |
| | (North America) | |
| | http://www5.compaq.com/products/quickspecs/11688_div/11688_div.html (Worldwide) | 252170 004 |
| | PDC/O5000-EVA Windows RAC Cluster Kit | 252478-B24 |



Options

| Smart Array 1500 | r Modular Smart Array 1500 Controller Shelf NOTE: Please see the StorageWorks Modular SAN Array 1500 QuickSpecs for additional options and configuration information at: <u>http://www.hp.com/go/MSA1500cs</u> | AA986A |
|--|---|--|
| HP StorageWorks Modular | r HP StorageWorks Modular Smart Array 1000 | 201723-B22 |
| Smart Array 1000 | NOTE: Please see the Modular Smart Array 1000 QuickSpecs for additional options and | |
| | configuration information at | |
| | http://h18000.www1.hp.com/products/quickspecs/11033_na/11033_na.HTML | |
| | (North America) http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML (Worldwide) | |
| StorageWorks Options | StorageWorks SAN Switch 2/8-EL | 322120-B21 |
| | StorageWorks SAN Switch 2/16 | 322118-B21 |
| | StorageWorks SAN Switch 2/8-EL Upgrade Kit | 325888-B21 |
| | StorageWorks SAN Switch 2/16-EL Upgrade Kit | 325889-B21 |
| | StorageWorks Director 2/64 | 286809-B21 |
| | NOTE: Please see the StorageWorks Director 2/64 QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/11003_na/11003_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11003_div/11003_div.HTML (Worldwide) | |
| UPS and PDU Power | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, an | d specifications |
| UPS and PDU Power Cord Matrix | | |
| | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. | <u>f.</u> |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf | f204404-001 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf | f. 204404-001 192186-001 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) | f. 204404-001 192186-001 192186-002 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) | f. 204404-001 192186-001 192186-002 192186-292 |
| Cord Matrix | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) | f. 204404-001 192186-001 192186-002 192186-292 192186-B31 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord) | f. 204404-001 192186-001 192186-002 192186-292 192186-B31 192186-B32 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug) | f. 204404-001 192186-002 192186-002 192186-831 192186-B32 192186-B32 192186-B33 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. [tp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug) | f. 204404-001 192186-001 192186-002 192186-292 192186-B31 192186-B33 192186-B33 192186-AR1 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (2800VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A S5-546 Plug) | f. 204404-001 192186-001 192186-002 192186-B31 192186-B32 192186-B33 192186-AR1 326529-D71 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and for UPS and PDU units. ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'I - detachable cord) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A S-546 Plug) HP UPS R3000 XR (3000VA, 4500 Watt), High Voltage (NA/Jpn) | f. 204404-001 192186-002 192186-002 192186-B31 192186-B32 192186-B33 192186-B33 192186-AR1 326529-D71 326529-B31 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, an for UPS and PDU units. [tp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'I - detachable cord) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A SS-546 Plug) HP UPS R5500 XR, (5000VA, 4500 Watt), High Voltage (NA/Jpn) HP UPS R5500 XR, (6000VA, 5400 Watt), High Voltage (Int'I) Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (NA) | f. 204404-001 192186-001 192186-002 192186-B31 192186-B33 192186-B33 192186-AR1 326529-D71 326529-B31 347207-001 |
| Cord Matrix Uninterruptible Power Systems – Rack | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, an for UPS and PDU units. [tp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug) HP UPS R5500 XR, (5000VA, 4500 Watt), High Voltage (NA/Jpn) HP UPS R5500 XR, (6000VA, 5400 Watt), High Voltage (Int'l) Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (NA) NOTE: The UPS R6000 (6000VA, 6000 Watt) High Voltage (Int'l) | f. 204404-001 192186-002 192186-292 192186-B31 192186-B32 192186-B33 |

Custom Builder

Please see the Enterprise Configurator for configuration assistance at: http://www.hp.com/products/configurator.



DC168B#

Options

| Modular Power Distribution Units - 1U0U (Up to 32 outlets) NOTE: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks). | HP Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan) NOTE: This mPDU (252663-D71) may also be used to connect the low volt model of the UPS R3000 XR. | 252663-D71 |
|---|--|--|
| | HP Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan) HP Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l) HP Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW) NOTE: This mPDU (252663-B21), 40A model has a hardwired input. | 252663-D72 252663-B31 252663-B21 |
| | HP Modular Power Distribution Units (mPDU), High Volt Model, 16A (200-240 VAC) (WW) NOTE: This PDU has a detachable input power cord and allows for adaptability to country specific power requirements. This model may also be used with the high volt UPSs R3000 XR and R6000 For North America, need to order cable PN 340653-001. | 252663-B24 |
| | NOTE: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including shorter jumper cables and country specific power cords: http://h18000.www1.hp.com/products/quickspecs/11041_na/11041_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.HTML (Worldwide) | |

USB Options

USB Easy Access Keyboard (Carbonite/Silver)

USB Easy Access Keyboard (Carbonite) Country Key Code

| Dash # | Description | Dash # | Description | |
|-------------------|-----------------------------------|--------|-------------|--------|
| A2M | ICELAND | ABT | HE | |
| AB0 | TAWA | ABU | UK | |
| AB1 | KOR | ABV | ARA | |
| AB2 | PRC | ABX | FIN | |
| AB6 | FRA | ABY | DEN | |
| AB7 | GRK | ABZ | ITL | |
| AB8 | TURK | AC0 | BEL | |
| AB9 | PORT | AC4 | BRZ | |
| ABA | US | ACB | RUSS | |
| ABB | EURO | AKB | CZE | |
| ABC | FCAN | AKC | HUNG | |
| ABD | GR | AKD | POL | |
| ABE | SP | AKL | THAI | |
| ABF | FR | AKN | BHCSY | |
| ABH | NL | AKR | SLOV | |
| ABJ | Japan | ARK | ICELAND | |
| ABM | LA | B15 | KAZ | |
| ABN | NOR | UUZ | SWISS | |
| ABS | SW | | | |
| USB 2-Button Opti | cal Scroll Mouse (Carbonite/Silve | er) | | DC172B |
| USB 1.44-MB Exte | ernal Diskette Drive (Carbonite) | | | DC141B |



HP ProLiant DL740

| Third Party Rack Kit | Third Party Rack Kit NOTE: The Third party rack kit supports the ML530 G2, ML570 G2, DL740, and DL760 G2. Provides support for any rack, square hole or round hole (including HP Rack System /E and HP Systems) with an adjustment range from 23 ½" – 34" deep. NOTE: The Third Party Rack Kit is required for round hole racks or for square hole racks that do not conform to the adjustment range of the standard rail that ships with the server. Telco Rack Support: NOTE: Support for all 2-post Telco racks requires the Third Party Rack Kit (PN 274739-B21) kit plus an additional option kit from Rack Solutions. The Rack Solutions brackets can be purchased at: <u>http://www.racksolutions.com/hp</u> . Rack Adapter Kit | 274739-B21 332815-B21 |
|----------------------|--|--------------------------|
| | NOTE: This kit allows HP rack servers to fit in racks that are 24" wide. | 332013-D21 |
| | | |
| HP Rack 10000 Series | HP Rack S10614 (14U) Rack Cabinet– Shock Pallet | 292302-B22 |
| (Graphite Metallic) | HP Rack 10842 (42U, 800mm wide) – Pallet | 257415-B21 |
| | HP Rack 10842 (42U, 800mm wide) – Shock Pallet | 257415-B22 |
| | HP Rack 10647 (47U) – Pallet | 245160-B21 |
| | HP Rack 10647 (47U) – Crated | 245160-B23 |
| | HP Rack 10642 (42U) – Pallet | 245161-B21 |
| | HP Rack 10642 (42U) – Shock Pallet | 245161-B22 |
| | HP Rack 10642 (42U) – Crated | 245161-B23 245162-B21 |
| | HP Rack 10636 (36U) – Pallet HP Rack 10636 (36U) – Shock Pallet | 245162-B21 245162-B22 |
| | HP Rack 10636 (360) – Shock Pallet HP Rack 10636 (360) – Crated | 245162-B22 245162-B23 |
| | HP Rack 10622 (22U) – Pallet | 245163-B21 |
| | HP Rack 10622 (220) – Shock Pallet | 245163-B22 |
| | HP Rack 10622 (22U) – Crated | 245163-B23 |
| | HP Rack 10614 (14U) – Shock Pallet | 292303-B22 |
| | NOTE: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks NOTE: It is mandatory to use a shock pallet in order to ship racks with equipment installed. Not all HP equipment is qualified to be shipped in the Rack 10000 series NOTE: For additional information regarding Rack Options, please see the following URL: | |
| | http://h18000.www1.hp.com/products/servers/proliantstorage/rack-ptions/index.html. | |



| Deals Ontions for UD | 4011 Cide Denel - Oren | hite Matellie | | | 040000 004 | | | |
|--|--|--------------------------|--------------------------|-------------------|------------|--|--|--|
| Rack Options for HP Rack 10000 Series | 42U Side Panel – Graph | | 246099-B21 246102-B21 | | | | | |
| | 36U Side Panel – Graphite Metallic 47U Side Panel – Graphite Metallic | | | | | | | |
| | | | k Optional places and th | o following LIPL: | 255486-B21 | | | |
| | NOTE: For additional information regarding Rack Options, please see the following URL: http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html. | | | | | | | |
| | KVM USB Interface Adapter | | | | | | | |
| | Server Console Switch 1 x 4 port (100-230 VAC) | | | | | | | |
| | Server Console Switch, 0 x 1 x 8 port | | | | | | | |
| | Server Console Switch | n, 0 x 2 x 16 port | | | 336045-B21 | | | |
| | Server Console Switch | n 1 x 4 port (100-230 VA | C) (Int'l) | | 400336-B31 | | | |
| | Server Console Switch | 1 x 4 port (100-230 VA | C) (Japan) | | 400336-291 | | | |
| | IP Console Switch Box | x, 1 x 1 x 16 | | | 262585-B21 | | | |
| | IP Console Switch Box | x, 3 x 1 x 16 | | | 262586-B21 | | | |
| | IP Console Interface A | dapter, 8 pack | | | 262587-B21 | | | |
| | IP Console Interface A | dapter, 1 pack | | | 262588-B21 | | | |
| | IP Console Expansion N | Module | | | 262589-B21 | | | |
| | CPU to Server Console | | 110936-B21 | | | | | |
| | CPU to Server Console | | 110936-B24 | | | | | |
| | CPU to Server Console | | 110936-B25 | | | | | |
| | IP CAT5 Cable 3', 4 pag | | 263474-B21 | | | | | |
| | IP CAT5 Cable 6', 8 pac | | 263474-B22 | | | | | |
| | IP CAT5 Cable 12', 8 pa | | 263474-B23 | | | | | |
| | IP CAT5 Cable 20', 4 pa | | 263474-B24 | | | | | |
| | IP CAT5 Cable 40', 1 pack | | | | | | | |
| | Switch Box Connector Kit (high voltage) (Int'I) | | | | | | | |
| | TFT5600 Rack Keyboard Monitor | | | | | | | |
| | Country Code Key (for TFT5600 Rack Keyboard Monitor (PN 221546-xx1)) | | | | | | | |
| | XX = 001 | US | XX = 091 | Norway | | | | |
| | XX = 031 | UK | XX = 101 | Sweden/Finland | | | | |
| | XX = 041 | Germany | XX = 111 | Switzerland | | | | |
| | XX = 051 | France | XX = 131 | Portugal | | | | |
| | XX = 061 | Italy | XX = 181 | Belgium | | | | |
| | XX = 071 | Spain | XX = 291 | Japan | | | | |
| | XX = 081 | Denmark | XX = B31 | International | | | | |
| | 1U Rack Keyboard & Drawer (Carbon) | | | | | | | |
| | Country Code Key (for 1U Rack Keyboard & Drawer (PN 257054-xx1)) | | | | | | | |
| | XX = 001 | US | XX = 091 | Norway | | | | |
| | XX = 031 | UK | XX = 101 | Sweden/Finland | | | | |
| | XX = 041 | Germany | XX = 111 | Switzerland | | | | |
| | XX = 051 | France | XX = 131 | Portugal | | | | |
| | XX = 061 | Italy | XX = 181 | Belgium | | | | |
| | XX = 071 | Spain | XX = 291 | Japan | | | | |
| | XX = 081 | Denmark | XX = B31 | International | | | | |
| | NOTE: For additional information regarding Rack Options, please see the following URL: | | | | | | | |
| | http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html. | | | | | | | |



Options

| HP Factory Express | Factory Installation, Racking, and Customization Services | |
|--------------------|---|------------|
| | Factory Express Server Configuration Level 1 | 293355-888 |
| | NOTE : Free Installation of HP Options - Installation of HP Options memory, NICs, hard drives, controllers, processors, I/O cards, pre-install standard OEM OS image, and tape drives. Installation fees will apply to all non-HP certified hardware and asset tags. | |
| | Factory Express Server Configuration Level 2 | 266326-888 |
| | NOTE : Includes Level 1 Customer Intent of a ProLiant server and options configuration, OS installation, custom image download, IP addressing, network setting, and custom packaging. Customer unique requirements (quick restore creation, cd duplication, test reports, real-time reporting of server MAC address, password, and RILOE). Customer access, validation and control through VPN (price/server). | |
| | Factory Express Rack Integration Level 3 with 1 – 3 servers or storage enclosures | 325736-888 |
| | Factory Express Rack Integration Level 3 with 4 – 9 servers or storage enclosures | 232539-888 |
| | Factory Express Rack Integration Level 3 with 10 or more servers or storage enclosures | 325735-888 |
| | NOTE: Includes Level 1 Customer Intent for standard mounted servers and storage units plus standard cable mgmt, RAID configuration, servers & storage, power distribution, networking gear and accessories (price/ra520ck). | |
| | Factory Express Rack Integration Level 4 with 1 – 3 servers or storage enclosures | 325734-888 |
| | Factory Express Rack Integration Level 4 with 4 – 9 servers or storage enclosures | 232540-888 |
| | Factory Express Rack Integration Level 4 with 10 or more servers or storage enclosures | 325733-888 |
| | NOTE: Includes Level 2 Customer Intent plus customer defined cable management and naming convention, customer furnished image download, IP addressing, cluster configurations (SQL, External storage RAID). Quick restore creation, cd duplication, test reports, real-time reporting of server MAC address, password, RILOE). Customer access and validation through VPN (price/rack). | |
| | Factory Express Rack Integration Level 5 with 1 – 3 servers or storage enclosures | 325732-888 |
| | Factory Express Rack Integration Level 5 with 4 – 9 servers or storage enclosures | 232541-888 |
| | Factory Express Rack Integration Level 5 with 10 or more servers or storage enclosures | 325731-888 |
| | NOTE : Includes Level 4 Customer Intent plus Custom SW layering and extended test, Customer access, validation and control through VPN, Clustered racks with networking gear and/or external storage array, Start-up installation services custom quote. (price/rack). NOTE: Factory Express Engineered Solution Level 6 is a custom solutions available through Factory Express. Please contact a your local reseller or Account Manager. | |

Service and Support NOTE: The Service and Support Offerings specifying Microsoft O/S in the description cover Offerings Windows NT, Windows 2000 Server/Advanced Server or Novell NetWare Operating System. (HP Care Pack Services) Hardware Services On-site Service 4-Hour On-site Service 5-Day x 13-Hour Coverage, 3 Years FP-HE3EC-36 (Canadian Part Number) 4-Hour On-site Service, 5-Day x 13-Hour, 3 Years 331104-002 (U.S. Part Number) 4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years U4713A 4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic U4713E 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years FP-HE7EC-36 (Canadian Part Number) 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years 401784-002 (U.S. Part Number) U4714A 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic U4714E Installation & Start-up Services **FP-HEINS-EC**

Hardware Installation (U.S. Part Number) Hardware Installation (U.S. Part Number)



401794-002

HP ProLiant DL740

QuickSpecs

| Hardware Installation | U4723A |
|--|-------------|
| Hardware Installation, Electronic | U4723E |
| Installation & Start-Up of a ProLiant server and Microsoft O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. (U.S. Part Number) | 240016-002 |
| Installation & Start-Up of a ProLiant server and Microsoft O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. (Canadian Part Number) | FM-MSTEC-04 |
| Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. | U4724A |
| Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays, Electronic | U4724E |
| Installation & Start-Up of a ProLiant server and Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. (U.S. Part Number) | 331110-002 |
| Installation & Start-Up of a ProLiant server and Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. (Canadian Part Number) | FM-LSTEC-04 |
| Support Plus | |
| Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays. (U.S. Part Number) | 239937-002 |
| Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays. (Canadian Part Number) | FM-M01E4-36 |
| Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays. | U4725A |
| Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays, Electronic | U4725E |
| Onsite HW support, 8am-9pm, M-F, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays. (U.S. Part Number) | 331108-002 |
| Onsite HW support, 8am-9pm, M-F, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays. (Canadian Part Number) | FM-L01E4-36 |
| Onsite HW support, 8am-9pm, M-F, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays | U4727A |
| Onsite HW support, 8am-9pm, M-F, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays, Electronic | U4727E |
| Support Plus 24 | |
| Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays. (U.S. Part Number) | 239939-002 |
| Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays. (Canadian Part Number) | FM-M02E4-36 |
| Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays. | U4726A |
| Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic | U4726E |
| Onsite HW support 24x7, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays. (U.S. Part Number) | 331099-002 |
| Onsite HW support 24x7, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays. (Canadian Part Number) | FM-L02E4-36 |
| Onsite HW support 24x7, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's | U4728A |



| discretion, 24x7 2hr response time incl. HP holidays. | |
|---|---------|
| Dnsite HW support 24x7, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic | U47 |
| HP Care Pack Priority Service Plan - 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, Fechnical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck ber year | 239941- |
| 6-3 Part Number for U.S.) | |
| 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 ber year (2-5-2 Part Number for Canada) | FM-M04E |
| 24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Nindows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 | 239943- |
| Part Number for U.S.) | |
| 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-M24E |
| 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.) | 239981 |
| 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-N04E |
| 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.) | 239983 |
| 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-N24E |
| HP Care Pack Priority Service Plan - 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 (6-3 Part Number for U.S.) | 239945 |
| 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, Fechnical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (2-5-2 Part Number for Canada) | FM-N08E |
| 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.) | 239987 |
| 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-N28E |
| HP Care Pack Priority Service Plan - 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 (6-3 Part Number for U.S.) | 239949 |
| 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 | FM-M09E |



Options

| Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (2-5-2 Part Number for Canada) | |
|--|-------------|
| 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.) | 239951-002 |
| 24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada) | FM-M29E4-36 |
| 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.) | 239989-002 |
| 24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (2-5-2 Part Number for Canada) | FM-N09E4-36 |
| 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.) | 239991-002 |
| 24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada) | FM-N29E4-36 |
| NOTE: For more information, customer/resellers can contact | |

http://www.hp.com/services/carepack



Memory

HP ProLiant DL740 2.2GHz/2MB or 2.0GHz/1MB, 2048 MB (4P)

Standard Memory

2048-MB addressable protected ECC SDRAM DIMM memory (2 x 256-MB DIMMs x 5 Hot-Plug RAID Memory Cartridges. The 5th cartridge is populated for redundancy.)

Standard Memory Plus Optional Memory

Up to 51,200-MB of addressable ECC SDRAM DIMM memory is available with the installation of optional ECC SDRAM DIMM memory expansion kits.

Standard Memory Replaced with Optional Memory

Up to 65,536-MB of addressable ECC SDRAM DIMM memory is available with the removal of standard memory and the installation of optional ECC SDRAM DIMM memory expansion kits.

NOTE: 8 slots per Hot-Plug RAID Memory Cartridge. Memory must be added in banks of two DIMMs per cartridge across all five (four if running in a non-redundant mode) Hot-Plug RAID Memory Cartridges. Tables do not represent all possible configurations.

| | | Bank 1 (Standard Memory) | | Bank 2 | | Bank 3 | | Bank 4 | |
|---------------------|----------|-----------------------------|---------|---------|---------|---------|---------|---------|---------|
| Men | nory | | | | Sle | ots | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Quertai dans d | Standard | 256 MB | 256 MB | | | | | | |
| Cartridge 1 (C1) | Optional | 256MB | 256 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Standard | 256 MB | 256 MB | | | | | | |
| Cartridge 2 (C2) | Optional | 256 MB | 256 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Standard | 256MB | 256 MB | | | | | | |
| Cartridge 3 | Optional | 256 MB | 256 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| (C3) | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Standard | 256 MB | 256 MB | | | | | | |
| Cartridge 4 | Optional | 256 MB | 256 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| (C4) | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Our statistics E | Standard | 256 MB | 256 MB | | | | | | |
| Cartridge 5 | Optional | 256 MB | 256 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| (C5) | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |

Following are memory options available from HP:

- 2048MB 133MHz ECC SDRAM Memory Option Kit (1 x 2048MB)
- 1024MB 133MHz ECC SDRAM Memory Option Kit (1 x 1024MB)
- 512MB 133MHz ECC SDRAM Memory Option Kit (1x512MB)
- 256MB 133MHz ECC SDRAM Memory Option Kit (1x256MB)

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Memory

HP ProLiant DL740 3.0 GHz/4MB, 2.7GHz/2MB, 2.8GHz/2MB or 2.5GHz/1MB 4096 MB (4P)

Standard Memory

4096-MB addressable protected ECC SDRAM DIMM memory (2 x 512-MB DIMMs x 5 Hot-Plug Memory Cartridges. The 5th cartridge is populated for redundancy.)

Standard Memory Plus Optional Memory

Up to 53,248MB of SDRAM DIMM memory is available with the installation of optional SDRAM DIMM memory expansion kits.

Standard Memory Replaced with Optional Memory

Up to 65,536-MB of SDRAM DIMM memory is available with the removal of standard memory and the installation of optional SDRAM DIMM memory expansion kits.

NOTE: 8 slots per Hot-Plug RAID Memory Cartridge. Memory must be added in banks of two DIMMs per cartridge across all five (four if running in a non-redundant mode) Hot-Plug RAID Memory Cartridges. Tables do not represent all possible configurations.

| | | Bank 1 (Standard Memory) | | Bank 2 | | Bank 3 | | Bank 4 | |
|-------------|----------|-----------------------------|---------|---------|---------|---------|---------|---------|---------|
| Men | nory | | | | SI | ots | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Standard | 512 MB | 512 MB | | | | | | |
| Cartridge 1 | Optional | 512 MB | 512 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| (C1) | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Standard | 512 MB | 512 MB | | | | | | |
| Cartridge 2 | Optional | 512 MB | 512 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| (C2) | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Standard | 512 MB | 512 MB | | | | | | |
| Cartridge 3 | Optional | 512 MB | 512 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| (C3) | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Standard | 512 MB | 512 MB | | | | | | |
| Cartridge 4 | Optional | 512 MB | 512 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| (C4) | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| | Standard | 512 MB | 512 MB | | | | | | |
| Cartridge 5 | Optional | 512 MB | 512 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| (C5) | Maximum | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |

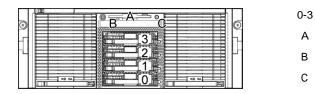
Following are memory options available from HP:

- 2048MB 133MHz ECC SDRAM Memory Option Kit (1 x 2048MB)
- 1024MB 133MHz ECC SDRAM Memory Option Kit (1 x 1024MB)
- 512MB 133MHz ECC SDRAM Memory Option Kit (1x512MB)
- 256MB 133MHz ECC SDRAM Memory Option Kit (1x256MB)

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Storage



| 1" Ultra3 Hot Plug Drive Bays |
|-------------------------------|
|-------------------------------|

1.44-MB Floppy Drive

Slimline CD/DVD-ROM Drive, Hot Pluggable, in Universal Media Bay

Universal Media Bay Eject Button

Drive Support

| | Quantity Supported | Position Supported | Controller |
|---------------------------------------|-----------------------|-----------------------|----------------|
| Integrated Media | | | |
| Integrated 1.44-MB Diskette Drive | Up to 1 | A | Integrated |
| Slimline CD/DVD-ROM Drive (8X/24X) | Up to 1 | В | Integrated IDE |

Hard Drives

Ultra320 Hot Pluggable Drives

| | Quantity Supported | Position Supported | Controller |
|---------------------|-----------------------|-----------------------|--|
| 1-inch | Up to 4 | 0-3 | Integrated Smart Array 5i Controller |
| 146.8-GB 10,000 rpm | | | Smart Array 532 Controller |
| 72.8-GB 10,000 rpm | | | Smart Array 5304/256 Controller |
| 36.4-GB 10,000 rpm | | | Smart Array 641 Controller |
| 72.8-GB 15,000 rpm | | | Smart Array 642 Controller |
| 36.4-GB 15,000 rpm | | | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter |
| 18.2-GB 15,000 rpm | | | |

А

В

С

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



Storage

External Storage

| - | Quantity Supported | Position Supported | Host Controller or Adapter |
|---|---|-----------------------|---|
| Modular Smart Array 30 Family | Up to 13 | External | Smart Array 5304/256 Controller Smart Array 6402/128 Controller Smart Array 6404/256 Controller Smart Array 642 Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |
| Modular Smart Array 500 System | 1 | External | Smart Array 532 Controller (used as Host Bus Adapter) Please see the Modular Smart Array 500 QuickSpecs for the latest list of supported HBAs: <u>http://www.hp.com/go/msa500</u> |
| Modular Smart Array 1000 | Please see the Modular Smart Array 1000 QuickSpecs below to determine configuration requirements | External | Please see the Modular Smart Array 1000 QuickSpecs (URL below) for the latest list of supported HBAs |
| Modular Smart Array 1500 cs | Please see the Modular Smart Array 1500 cs QuickSpecs below to determine configuration requirements | External | Please see the Modular Smart Array 1500 cs QuickSpecs (URL below) for the latest list of supported HBAs |
| Modular Smart Array 1000: http://h18000.www1.hp.com/ http://h18000.www1.hp.com/ Modular Smart Array 1500: ht | products/quickspecs/ | /11033_na/11033_ | , |

Maximum Storage Capacity - (StorageWorks Enclosure SCSI Attached)

| Internal | 587.2 GB (4 x 146.8-GB Ultra320 1" Drives) |
|----------|---|
| External | 49.325 TB hot plug SCSI storage (24 x (14 x 146.8-GB Ultra320 1" Drives)) |
| Total | 49.912 TB |

Tape Drives, Tape Autoloaders, & Tape Libraries

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following: http://www5.compaq.com/products/quickspecs/North_America/10233.html (North America) http://www5.compaq.com/products/quickspecs/Division/10233.html (Worldwide)

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Autoloaders & Tape Libraries 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 (Worldwide)

| | Quantity Supported | Position Supported | Controller |
|--|-----------------------|-----------------------|--|
| HP StorageWorks DAT 40 Tape Drive, Internal Hot-Plug HP StorageWorks DAT 72 Tape Drive, Internal Hot-Plug | | 0+ 1 or 2+ 3 | Smart Array 5i Controller (integrated on system board) Smart Array 532 Smart Array 5304/256 Controller Smart Array 6402/128 Controller Smart Array 6404/256 Controller Smart Array 642 Controller Smart Array 641 Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |



Storage

| Ultrium 215, External Ultrium 230, External Ultrium 460, External | Up to 2 per controller | External | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |
|---|---|----------|---|
| HP StorageWorks DAT 72 Tape Drive, External HP StorageWorks DAT 40 Tape Drive, External HP StorageWorks DAT 24 Tape Drive, External | Up to 3 per controller | External | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |
| HP StorageWorks DLT VS80 Tape Drive, External | Up to 3 per controller | External | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |
| HP StorageWorks SDLT 320 Tape Drive, External |) Up to 2 drives per controller | External | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |
| HP StorageWorks DAT 72x6 Tape Autoloader, External HP StorageWorks DAT 40x6 Tape Autoloader, External 1/8 Ultrium 460 Tape Autoloader 1/8 SDLT 320 Tape Autoloader 1/8 Ultrium 230 Tape Autoloader 1/8 DLT VS80 Tape Autoloader SSL1016 Ultrium 460 Tape Autoloader SSL1016 SDLT320 Tape Autoloader SSL1016 DLT1 Tape Autoloader | SCSI channel | External | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |
| MSL6000 (Ultrium 460 - based) Tape Library MSL5026S2 (SDLT 320- based) Tape Library MSL5052S2 (SDLT 320- based) Tape Library MSL5030 (Ultrium 230 - based) Tape Library MSL5060 (Ultrium 230 - based) Tape Library | Please reference the MSL Tape Library QuickSpecs to determine configuration requirements | External | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |
| ESL712e ESL630e ESL9322 ETLA ESL9595 ETLA | Please reference the ESL e-series & ESL9000 Series Tape Libraries QuickSpecs to determine configuration requirements | External | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |



Technical Specifications

System

| n Unit | Dimensions (HxWxD) Weight | 7.00 x 17.5 x 28.7 in (17.78 x 44.45 x 72.90 cm) 105 lb (47.63 kg) | | |
|--------|---|---|---|--|
| | No hard drives installed, two power supplies | | | |
| | Input Requirements | Rated Input Voltage | 115 to 120 VAC/200 to 240 VAC (lowline/highline) | |
| | (per power supply) | Rated Input Frequency | 47 to 63 Hz (lowline/highline) | |
| | | Input Power | 1060W/1440W (lowline/highline) | |
| | | Rated Input Current | 10A at 115 VAC/8A at 200 VAC (lowline/highline) | |
| | BTU Rating (Maximum output) (NOTE that the maximum heat output by the server is equal to the electrical power input.) | Use of 110 volt power | Please refer to the Power Calculator at: http://h30099.www3.hp.com/configurator/ powercalcs.asp. | |
| | Power Supply Output | Rated Steady-State Power | 800W/1100W (lowline/highline) | |
| | Power (per power supply) | Maximum Peak Power | 800W/1100W (lowline/highline) | |
| | Temperature Range | Operating | 50° to 95° F at sea level, altitude de-rating of 1.8° F per 1,000 ft to 10,000 ft (10° to 35° C at sea level, altitude de-rating of 1° C per 300 m to 3,000 m). Maximum rate of change is 18° F/Hr (10° C/Hr) | |
| | | Non-operating | -22° to 140 ° F (-30° to 60° C). Maximum rate of change is 36°F/Hr (20°C/Hr) | |
| | | Shipping | 5% to 95% relative humidity, non-condensing | |
| | Relative Humidity (non-condensing) | Operating | 10 to 90% relative humidity, 82.4° F (28° C) maximum wet bulb temperature, non-condensing | |
| | | Non-operating | 5 to 95% relative humidity, 101.7° F (38.7° C) maximum wet bulb temperature, non-condensing | |
| | Maximum Wet Bulb Temperature | 101.7° F(38.7° C) | | |
| | Acoustic Noise | ldle (Fixed Disk Drives Spinning) | | |
| | | L WAd (BELS) | 7.6 | |
| | | L pAm (dBA) | 59 | |
| | | | | |



Technical Specifications

| Power Supply 1100/800W, Hot Plug Redundant (2 standard) One Redundant Power Supply (optimized to provide full redundant Power Supply Normal Line Voltage 115 to 127 VAC/200 to 240 VAC Input Specifications Normal Line Voltage 115 to 132 VAC/180 to 265 VAC Range Input Line 115 to 132 VAC/180 to 265 VAC Frequency Range 47 to 63 Hz Power Factor 0.95 Input Current 100 A at 115 VAC/8 A at 200 VAC Inrush Current 100 A Holdup Time 21 ms from zero crossing at 120 VAC Full Output Rating To 104° F (40° C) and 5,000 ft (1524 m) To 89.6° F (32° C) and 10,000 ft (3,048 m) (derate linearly) To 89.6° F (32° C) and 10,000 ft (3,048 m) Minimum Load 1 A on + 5 V output; 2 A on + 12 V output; |
|---|
| Input SpecificationsNormal Line Voltage115 to 127 VAC/200 to 240 VACRange Input Line115 to 132 VAC/180 to 265 VACFrequency Range47 to 63 HzPower Factor0.95Input Current10 A at 115 VAC/8 A at 200 VACInrush Current100 AHoldup Time21 ms from zero crossing at 120 VACGeneral SpecificationsFull Output RatingTo 104° F (40° C) and 5,000 ft (1524 m)To 89.6° F (32° C) and 10,000 ft (3,048 m)(derate linearly) |
| Range Input Line115 to 132 VAC/180 to 265 VACFrequency Range47 to 63 HzPower Factor0.95Input Current10 A at 115 VAC/8 A at 200 VACInrush Current100 AHoldup Time21 ms from zero crossing at 120 VACGeneral SpecificationsFull Output RatingTo 104° F (40° C) and 5,000 ft (1524 m)To 89.6° F (32° C) and 10,000 ft (3,048 m)(derate linearly) |
| Frequency Range47 to 63 HzPower Factor0.95Input Current10 A at 115 VAC/8 A at 200 VACInrush Current100 AHoldup Time21 ms from zero crossing at 120 VACGeneral SpecificationsFull Output RatingTo 104° F (40° C) and 5,000 ft (1524 m)To 89.6° F (32° C) and 10,000 ft (3,048 m)(derate linearly) |
| Power Factor0.95Input Current10 A at 115 VAC/8 A at 200 VACInrush Current100 AHoldup Time21 ms from zero crossing at 120 VACGeneral SpecificationsFull Output RatingTo 104° F (40° C) and 5,000 ft (1524 m)To 89.6° F (32° C) and 10,000 ft (3,048 m)(derate linearly) |
| Inrush Current100 AHoldup Time21 ms from zero crossing at 120 VACGeneral SpecificationsFull Output RatingTo 104° F (40° C) and 5,000 ft (1524 m)To 89.6° F (32° C) and 10,000 ft (3,048 m) (derate linearly) |
| Inrush Current100 AHoldup Time21 ms from zero crossing at 120 VACGeneral SpecificationsFull Output RatingTo 104° F (40° C) and 5,000 ft (1524 m)To 89.6° F (32° C) and 10,000 ft (3,048 m) (derate linearly) |
| Holdup Time21 ms from zero crossing at 120 VACGeneral SpecificationsFull Output RatingTo 104° F (40° C) and 5,000 ft (1524 m)To 89.6° F (32° C) and 10,000 ft (3,048 m) (derate linearly)To 89.6° F (32° C) and 10,000 ft (3,048 m) |
| General SpecificationsFull Output RatingTo 104° F (40° C) and 5,000 ft (1524 m)To 89.6° F (32° C) and 10,000 ft (3,048 m)(derate linearly) |
| To 89.6° F (32° C) and 10,000 ft (3,048 m) (derate linearly) |
| |
| 1 A on + 3.3 V output |
| Ambient TemperatureOperating41° to 109° F (5° to 43° C) (End use system maximum ambient of 35°C, plus a maximum of 8° C due to rack effect) |
| Non-operating -40° to 185° F (-40° 85° C) |
| Dielectric Voltage Input to Output 3,000 VAC/min |
| Withstand Input to Ground 1,500 VAC/min |
| Input Transient Common and Differential Mode ± 1kV line on AC power port for 1 minute; |
| Susceptibility (superimposed on AC line) ± 0.5kV on signal/control lines |
| Slimline CD/DVD-ROMShipping Dimensions13.88 x 11.38 x 9.25 in (35.26 x 28.91 x 23.50 cm)Combo Drive (8X/24X)Shipping Weight5 lb (2.27 kg)Multibay)Diricities and the problem of the |
| Disk Applicable Disk DVD-ROM |
| DVD-R (Read Only) |
| 2.6 GB/side DVD-RAM (Read Only) |
| 5.2 GB/side DVD-RAM (Read Only) |
| CD-ROM Mode-1 data disc |
| CD-ROM Mode-2 data disc |
| CD Audio disc |
| CD-Extra |
| CD-R CD Text |
| CD Text |
| PhotoCD |
| PhotoCD CD-1 (mode 2) |
| CD-I (mode 2) |
| CD-I (mode 2) CD-I Ready |
| CD-I (mode 2) CD-I Ready CD-Bridge |
| CD-I (mode 2) CD-I Ready CD-Bridge |
| CD-I (mode 2) CD-I Ready CD-Bridge Capacity DVD-ROM DVD-SL 4.7 GB/side |
| CD-I (mode 2) CD-I Ready CD-Bridge Capacity DVD-ROM DVD-SL 4.7 GB/side DVD-DL 8.5 GB/side |
| CD-I (mode 2) CD-I Ready CD-Bridge Capacity DVD-ROM DVD-SL 4.7 GB/side DVD-DL 8.5 GB/side Double Side 9.40 GB/side |
| CD-I (mode 2) CD-I Ready CD-Bridge CD-Bridge VD-ROM DVD-SL 4.7 GB/side DVD-DL 8.5 GB/side Double Side 9.40 GB/side DVD-R DVD-R |
| CD-I (mode 2) CD-I Ready CD-Bridge Capacity DVD-ROM DVD-SL 4.7 GB/side 4.7 GB/side 0VD-DL 8.5 GB/side 0uble Side 9.40 GB/side 0VD-RM 2.6 GB/side and 5.2 GB/ |
| CD-I (mode 2) CD-I Ready CD-Bridge Capacity DVD-ROM DVD-SL DVD-DL NOVD-DL S.5 GB/side D0uble Side 1.40 GB/side DVD-RAM 2.6 GB/side and 5.2 GB/ CD-ROM Mode-1 Mode-1 MOB S.5 MB (550 MB) |
| CD-1 (mode 2) CD-1 Ready CD-Bridge CD-Bridge DVD-ROM DVD-SL 4.7 GB/side DVD-DL 8.5 GB/side Double Side 9.40 GB/side DVD-RAM DVD-RAM 2.6 GB/side and 5.2 GB/ CD-ROM Mode-1 650 MB (550 MB) Mode-2 742 MB (640 MB) |



Technical Specifications

| | | | | bytes (Mode-1) | | |
|------------------------------------|--|--|-----------------------------------|---|--|--|
| | | | | 2352, 2340, 2336, 2048 bytes (Mode-2) | | |
| | | Diameter | 120 mm, 80 mm (with adap mode) | oter at vertical mounting | | |
| | Loading Mechanism | Tray type | | | | |
| | Interface | EIDE (ATAPI) | | | | |
| Access Times (typical) | Random | DVD-ROM < 120 ms, CD-R | OM < 110 ms | | | |
| | | Full-Stroke | DVD-ROM < 240 ms, CD-R | OM < 160 ms | | |
| | Audio Output Level (typical) | Line-out | CD 0.7 Vrms at 47 Kohms Load | | | |
| | Data Transfer Rate | DVD-ROM | Single Layer | 10.8 MB/sec. Max. | | |
| | (sustained) | DVD-RAM | 2.77 MB/sec. Max | | | |
| | | CD-ROM | 7.2 MB/sec. Max. | | | |
| | Cache Buffer | 2 MB | | | | |
| | Spin-up Time (typical) | less than 10 seconds | | | | |
| | MTBF | 120,000 Power On Hours (POH) | | | | |
| | Ambient Temperature | Operating -22° to 140° F (-30° to 60° C) | | C) | | |
| | Relative Humidity | Operating | 10% to 80% | | | |
| | | Storage/Transportation | 5% to 95% | | | |
| | Dimensions | (HxWxD, maximum) | 0.5 x 5.04 x 5.1 in (12.7x1) | 28x129.4 mm) | | |
| | Option Kit Contents | DVD-ROM drive with installa | ation guide, warranty card, re | e, warranty card, registration card | | |
| Smart Array 5i Controller Protocol | | Wide Ultra3 SCSI | | | | |
| (integrated on system board) | Processor | 32-bit RISC | | | | |
| | XOR engine | Hardware RAID | | | | |
| | Electrical interface | Low Voltage Differential (LVD) | | | | |
| | Simultaneous Drive Transfer Channels | 2 | | | | |
| | Channel Transfer Rate | 320 MB/s total; 160 MB/s per channel | | | | |
| | SCSI Port Connectors | One external and one internal SCSI port | | | | |
| | Memory | 32 MB of DRAM used for code, transfer buffers, and non-battery-backed read cache | | | | |
| | Peak transfer rate | 160 MB/s | | | | |
| | Logical Drives Supported | 32 | | | | |
| | Software Upgradeable Firmware | Yes | | | | |
| | RAID Support | RAID 5 (Distributed Data Guarding RAID 1+0 (Striping and Mirroring) RAID 1 (Mirroring) RAID 0 (Stripping) | | | | |
| | Disk Drive and Enclosure Protocol Support | Ultra2 and Ultra3 | | | | |



Technical Specifications

| Two NC7781 PCI-X Gigabit NICs (embedded) | Network Interface | 10/100/1000-T | |
|--|-----------------------|--|--|
| | Compatibility | EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 80.3u 100Base-TX | |
| | Data Transfer Method | 64-bit/66MHz PCI-X | |
| | Network Transfer Rate | 10Base-T (Half-Duplex), 10Base-2 | 10 Mb/s |
| | | 10Base-T (Full-Duplex) | 20 Mb/s |
| | | 100Base-TX (Half-Duplex) | 100 Mb/s |
| | | 100Base-TX (Full-Duplex) | 200 Mb/s |
| | | 1000Base-TX (Half Duplex) | 1000 Mb/s |
| | | 1000Base-T (Full Duplex) | 2000 Mb/s |
| | Connector | RJ-45 | |
| | Cable Support | 10Base-T | Categories 3, 4 or 5 UTP up to 328 ft (100 m) |
| | | 100Base-TX | Category 5 UTP up to 328 ft (100 m) |

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