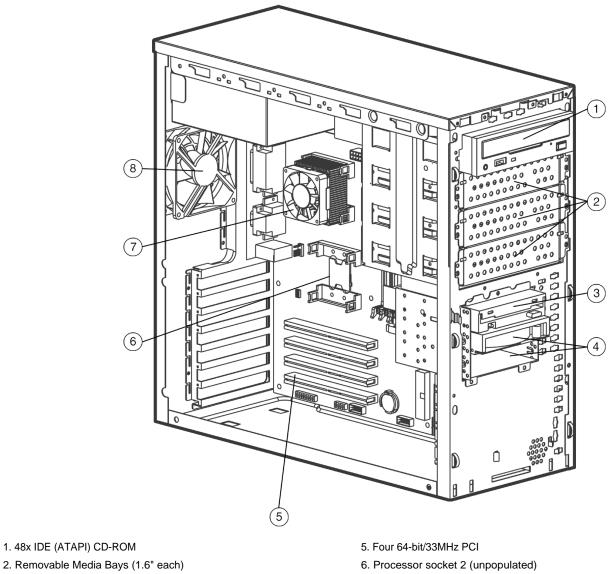
#### Overview



- 3. 1.44 MB Floppy Drive
- 4. Two 1" Non-plug Hard Drive Bays

- 7. Processor 1 (populated) 8. System Fan

#### What's New

• Supports up to 2 Intel® Xeon 2.8 GHz or 2.4 GHz PGA (Pin Grid Array) processors



#### Overview

#### At A Glance

- Two USB ports
- ROM Based Setup Utility (RBSU) and PXE support
- ServerWorks GC-SL Chipset with 533-MHz Front Side Bus
- 512-KB second level ECC cache standard (full speed)
- 256-MB PC2100 ECC DDR SDRAM Memory, expandable to 4 GB
- Four total slots: (three available) in SCSI models)
- 64-bit/33MHz, 3.3v PCI
- NC7760 PCI Gigabit Server Adapter (embedded)
- Integrated Dual Channel Ultra ATA/100 Adapter with Integrated ATA RAID 0, 1, & 1+0 (ATA Models) or Integrated Single Channel Wide Ultra3 SCSI Adapter in a PCI slot (SCSI Models)
- Support for up to five 1" Wide Ultra3 NHP SCSI hard drives or four 1" ATA NHP Drives (depending on Model)
- Internal storage capacity of up to 402.8 GB (3 x 36.4-GB non-hot-plug + 2 x 146.8-GB hot plug 1" HD (SCSI Models) with optional Drive Cage
   Internal storage capacity of up to 640 GB (4 x 160-GB 1<sup>2</sup> ATA/100 drives) (ATA Models)
- **NOTE:** 160GB ATA HDDs only available for large volume orders through the Specials process. Please contact your local product manager for more information.
- Integrated ATI Rage XL with 8MB SDRAM video
- 300W Power Supply
- Insight Manager, SmartStart and Automatic Server Recovery-2 (ASR-2)
- Protected by HP Services, including a one-year, limited warranty, Next Business Day 1 year on-site limited Global warranty and Pre-Failure Warranty, which covers processors, memory, and hard drives - Certain restrictions and exclusions apply. Consult the HP Customer Support Center at 1-800-345-1518 for details.



### Standard Features

| <b>Processor</b><br>One of the following<br>depending on<br>Model |  | Hz/533-512KB (Supports up t<br>Hz/533-512KB (Supports up tr                             |   |
|---|--|---|---|
| Cache Memory  | Integrated 512-KB Level 2 E  | ECC cache (full speed)  |   |
| Chipset   |  | ion SL Chipset with 533-MHz<br>regarding ServerWorks, plea<br>m/products/overview.html. |   |
| Memory  | Standard 256MB<br>capabil<br>Maximum 4 GB  |   | DR SDRAM running at 266MHz, with Advanced ECC   |
| Network Controller  | NC7760 PCI Gigabit Server  | Adapter (embedded)  |   |
| Expansion Slots   | I/O (4 Total, 3 Available)<br>64-bit/33MHz PCI   | 4   | PCI Voltage:<br>3.3 volts   |
| Storage Controller  | • •  | ide Ultra3 SCSI Adapter in a P<br>ra ATA 100 IDE Adapter with I                         | CI slot (SCSI Models only)<br>ntegrated ATA RAID 0, 1, & 1+0 (ATA Models)   |
| Storage   | Diskette Drives<br>CD-ROM<br>Hard Drives   |   | SCSI 10,000 rpm 1" Drive (SCSI Models only)<br>pm 1" Drive (ATA Models only)  |
|   | Maximum Internal Storage<br>with Optional Hot Plug Drive<br>Cage (SCSI Models)<br>Maximum Internal Storage<br>(ATA Models) | optional hot plug drive cag<br>640 GB (4 x 160.0 GB) (in                                | n-hot-plug + 2 x 146.8 GB hot plug) (internal drive bays, and<br>e)<br>ternal drive bays and removable media bays)<br>only available for large volume orders through the Specials |
|   | (ATA Models)   |   | our local product manager for more information.   |
| Interfaces  | Parallel<br>Serial<br>Pointing Device (Mouse)<br>Graphics<br>Keyboard<br>USB   | 1<br>1<br>1<br>1<br>2<br>NOTE: Please see the follo                                     | wing LIPL for additional information recording LICP automatic   |
|   | Network RJ-45 (Ethernet)   |   | wing URL for additional information regarding USB support:<br>pm/products/servers/platforms/usb-support.html.   |



### Standard Features

| Graphics   | Integrated ATI RAGE XL Vide                           | o Controller with 8MB SDRAM Video Memory   |
|--|---|--|
| Form Factor  | Tower (5U) (Tower to Rack Er                          | nabling Option Kit (PN 238547-B22) available)  |
| ProLiant Essentials<br>Foundation Pack<br>Software | Insight Manager 7                                     | Insight Manager 7 helps maximize system uptime and performance and reduces the cost of maintaining the IT infrastructure by providing proactive notification of problems before those problems result in costly downtime and reduced productivity. Insight Manager 7 is easy to set up and provides rapid access to detailed fault and performance information gathered by the Management Agents. One-click-access to the Remote Insight Lights Out Edition board allows systems administrators to take full graphical control of ProLiant servers in remote locations or lights-out data centers. Finally, Insight Manager 7 in concert with the Version Control Agents and Version Control Repository Manager enables systems administrators to version manage and update system software across groups of Compaq ProLiant servers.  |
|  | 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 <a href="http://www.hp.com/servers/manage">http://www.hp.com/servers/manage</a> .   |
|  | 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.<br>SmartStart version supported (minimum): SmartStart 6.30   |
|  | ActiveUpdate  | ActiveUpdate is a web-based application that keeps IT managers directly connected to HP for proactive notification and delivery of the latest software updates.  |
|  | ROMPaq, support software, and configuration utilities | The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options.  |
|  | Survey Utility and diagnostics utilities              | The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips.   |
|  | Optional Proliant Essentials<br>Value Packs           | Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs:   |
|  |   | <ul> <li>Rapid Deployment Pack – an automated solution for multi-server deployment<br/>and provisioning, enabling companies to quickly and easily adapt to changing<br/>business demands.</li> <li>Workload Management Pack – provides easier management of complex<br/>environments, improving overall server utilization and enabling Windows 2000<br/>customers for the first time to confidently deploy multiple applications on a<br/>single multiprocessor ProLiant Server.</li> <li>Recovery Server Option Pack – entry-level high availability software that will<br/>provide reliable protection and increased uptime against server hardware and<br/>operating system failures.</li> <li>Performance Management Pack – a performance management solution that<br/>identifies and explains hardware performance bottlenecks on ProLiant servers<br/>and attached options enabling users to better utilize their valuable resources</li> <li>antity license kits are available for ProLiant Essentials Value Packs. Refer to<br/>opliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for</li> </ul> |

**NOTE:** For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials.



### Standard Features

| Industry Standard<br>Compliance | ACPI V1.0b Compliant<br>PCI 2.2 Compliant<br>PXE Support<br>WOL Support<br>Microsoft® Logo certifications   |
|---------------------------------|---|
| Manageability                   | Insight Manager 7<br>Redundant ROM<br>Remote Flash ROM<br>Automatic Server Recovery-2 (ASR-2)<br>Remote Insight Lights-Out Edition II (optional)<br>Drive Parameter Tracking (with Smart Array Controller)<br>Dynamic Sector Repairing (with Smart Array Controller)<br>Pre-Failure Warranty (covers processors, memory and hard drives)  |
| Security                        | Power-on password<br>Setup password<br>Diskette boot control<br>Power switch security   |
| Server Power Cords              | One Lowline power cord ships standard   |
| Power Supply                    | 300 Watts, PFC (Power Factor Correcting)  |
| System Fans                     | 1 non-hot plug; non-redundant system fan shipped standard. 1 non-hot-plug CPU fan/heatsink assembly shipped standard. 2 fan supported standard. 3 fans supported with CPU option kit.   |
| Required Cabling                | For required cabling information, refer to the HP Web site at<br>http://h18000.www1.hp.com/products/servers/ProLiantML330/.   |
| OS Support                      | Microsoft Windows 2000<br>Microsoft BackOffice Small Business Server 2000<br>Windows Server 2003<br>Novell NetWare<br>Novell NetWare Small Business Suite 6.0<br>LINUX (Red Hat, United Linux)<br>NOTE: For a more complete and up-to-date listing of supported OS's and versions, please visit our OS Support Matrix<br>at: <a href="http://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf">http://ftp.com/support</a><br>NOTE: For an up-to-date listing of the latest drivers available for the HP ProLiant ML330, please see:<br><a href="http://http://http://http.com/support/files/server/us/index.html">http://http://http://http.com/support/files/server/us/index.html</a> . |



### Standard Features

| Rack Airflow<br>Requirements       | <ul> <li>Rack 9000 and 10000 series Cabinets<br/>The increasing power of new high-performance processor technology requires increased cooling efficiency<br/>for rack-mounted servers. The 9000 and 10000 Series Racks provide enhanced airflow for maximum cooling,<br/>allowing these racks to be fully loaded with servers using the latest processors.</li> <li>Rack 7000 series Cabinets<br/>When installing a server with processors running at speeds of 550 MHz or greater in Rack 7000 series racks<br/>with glass doors (165753-001 (42U), and 163747-001 (22U)), the new processor technology requires the<br/>installation of High Airflow Rack Door Inserts (327281-B21 (42U), 327281-B22 (42U 6 pack), or 157847-B21<br/>(22U)) to promote enhanced airflow for maximum cooling.</li> </ul> |
|------------------------------------|---|
|                                    | <b>CAUTION:</b> If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:   |
|                                    | <ul> <li>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).</li> <li>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).</li> </ul>  |
|                                    | <b>CAUTION:</b> 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.   |
|                                    | <b>NOTE:</b> 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: <a href="http://h18000.www1.hp.com/products/servers/ProLiantml330/index.html">http://h18000.www1.hp.com/products/servers/ProLiantml330/index.html</a> .  |
| HP Factory Express<br>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.   |
| Service and Support                | HP Services provides a one-year, limited warranty, including Pre-Failure Warranty (coverage of hard drives, memory and processors) fully supported by a worldwide network of resellers and service providers. HP technical assistance is available 7x24, toll free in the United States and Canada. Telephone support services may be covered under warranty or available for an additional fee.  |
|                                    | NOTE: Limited Warranty includes 1 year Parts, 1 year Labor, 1-year on-site support.   |
|                                    | A full range of HP Care Pack packaged hardware and software services:   |
|                                    | <ul> <li>Installation and start up</li> <li>Extended coverage hours and enhanced response times</li> <li>System management and performance services</li> <li>Availability and recovery service</li> </ul>   |
|                                    | NOTE: For more information, customer/resellers can contact http://www.hp.com/hps/.  |
|                                    | Please see the following URL regarding Warranty Information For Your HP Products:<br>http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.  |
|                                    | For additional information regarding Worldwide Limited Warranty and Technical Support, please see the following URL: <a href="http://ftp.compaq.com/pub/supportinformation/ejourney/176738.pdf">http://ftp.compaq.com/pub/supportinformation/ejourney/176738.pdf</a> .  |
|                                    | <b>NOTE:</b> Certain restrictions and exclusions apply. Consult the HP Customer Support Center at 1-800-345-1518 for details.   |



### Models

| ML330T03 X2.80-512KB/533 | Processor          | (1) Intel Xeon Processor 2.80 GHz Processor standard   |
|--------------------------|--------------------|--|
| 256MB, 40GB, ATA         | Cache Memory       | Integrated 512-KB Level 2 cache (full speed)   |
| 317817-xx2               | Memory             | 256 MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (Standard) to 4 GB (Maximum)   |
|                          | Network Controller | NC7760 PCI Gigabit Server Adapter (embedded)   |
|                          | Storage Controller | Integrated Dual Channel Ultra ATA-100 IDE Adapter with Integrated ATA RAID 0,1, & 1+0  |
|                          | Hard Drive         | 40 GB Ultra ATA/100  |
|                          | Internal Storage   | 640 GB maximum (with optional hard drives)<br>NOTE: 160GB ATA HDDs only available for large volume orders through the Specials<br>process. Please contact your local product manager for more information.     |
|                          | Optical Drive      | 48x IDE (ATAPI) CD-ROM Drive   |
|                          | Form Factor        | Tower (5U) (Tower to Rack Enabling Kit available)  |
| ML330T03 P2.40-512KB/533 | Processor          | (1) Intel Xeon Processor 2.40 GHz Processor standard   |
| 256MB, 40GB, ATA         | Cache Memory       | Integrated 512-KB Level 2 cache (full speed)   |
| 323137-xx2               | Memory             | 256 MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (Standard) to 4 GB (Maximum)   |
|                          | Network Controller | NC7760 PCI Gigabit Server Adapter (embedded)   |
|                          | Storage Controller | Integrated Dual Channel Ultra ATA-100 IDE Adapter with Integrated ATA RAID 0,1, & 1+0  |
|                          | Hard Drive         | 40 GB Ultra ATA/100  |
|                          | Internal Storage   | 640 GB maximum (with optional hard drives)<br><b>NOTE:</b> 160GB ATA HDDs only available for large volume orders through the Specials process. Please contact your local product manager for more information. |
|                          | Optical Drive      | 48x IDE (ATAPI) CD-ROM Drive   |
|                          | Form Factor        | Tower (5U) (Tower to Rack Enabling Kit available)  |
| ML330T03 P2.8-512KB/533  | Processor          | (1) Intel Xeon Processor 2.8 GHz Processor standard  |
| 256MB, 36GB, SCSI        | Cache Memory       | Integrated 512-KB Level 2 cache (full speed)   |
| 317821-xx2               | Memory             | 256 MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (Standard) to 4 GB (Maximum)   |
|                          | Network Controller | NC7760 PCI Gigabit Server Adapter (embedded)   |
|                          | Storage Controller | Integrated Single Channel Ultra3 SCSI Adapter in a PCI slot  |
|                          | Hard Drive         | (1) 36.4 GB Wide Ultra320 SCSI 10,000 rpm 1" Drive   |
|                          | Internal Storage   | 402.8 GB maximum (with optional hot plug drive cage and optional hard drives)  |
|                          | Optical Drive      | 48x IDE (ATAPI) CD-ROM Drive   |
|                          | Form Factor        | Tower (5U) (Tower to Rack Enabling Kit available)  |
|                          |                    |  |



#### Models

| ML330T03 P2.4-512KB/533 | Processor  | (1) Intel Xeon Processor 2.4 GHz Processor standard                                  |
|-------------------------|--|--|
| 256MB, 36GB, SCSI       | Cache Memory   | Integrated 512-KB Level 2 cache (full speed)   |
| 323138-xx2              | Memory   | 256 MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (Standard) to 4 GB (Maximum) |
|                         | Network Controller   | NC7760 PCI Gigabit Server Adapter (embedded)   |
|                         | Storage Controller   | Integrated Single Channel Ultra3 SCSI Adapter in a PCI slot                          |
|                         | Hard Drive   | (1) 36.4 GB Wide Ultra320 SCSI 10,000 rpm 1" Drive                                   |
|                         | Internal Storage   | 402.8 GB maximum (with optional hot plug drive cage and optional hard drives)        |
|                         | Optical Drive  | 48x IDE (ATAPI) CD-ROM Drive   |
|                         | Form Factor  | Tower (5U) (Tower to Rack Enabling Kit available)                                    |
| Country Code Key        | XX=00<br>XX=01<br>XX=03<br>XX=04<br>XX=34<br>XX=05<br>XX=29<br>XX=29<br>XX=37<br>XX=42 | NA<br>Australia<br>UK<br>Germany<br>Austria<br>France<br>Japan<br>AP<br>Euro         |
|                         | XX=AA  | PRC  |
|                         |  |  |



| ProLiant Essentials<br>Value Pack Software | Rapid Deployment Pack, 1 User, V1.x<br><b>NOTE</b> : This license allows 1 server to be managed and deployed via the Deployment Server.  | 267196-B21 |
|--|--|------------|
|  | Rapid Deployment Pack, 1 User, V1.x (Japan)<br><b>NOTE:</b> This license allows 1 server to be managed and deployed via the Deployment Server.   | 267196-291 |
|  | Rapid Deployment Pack, 10 Users, V1.x<br><b>NOTE</b> : This license allows 10 servers to be managed and deployed via the Deployment Server.  | 269817-B21 |
|  | Rapid Deployment Pack, 10 Users, V1.x (Japan)<br><b>NOTE</b> : This license allows 10 servers to be managed and deployed via the Deployment Server.  | 269817-291 |
|  | Flexible Quantity License Kit  | 302127-B21 |
|  | License-Only - for use with a Master License Agreement   | 302128-B21 |
|  | ProLiant Essentials Workload Management Pack 2.0 (Featuring Compaq Resource Partitioning<br>Manager version 2.0)   | 303284-B21 |
|  | ProLiant Essentials Recovery Server Option Pack  | 280189-B21 |
|  | ProLiant Essentials Performance Management Pack Flexible License   | 306697-B21 |
|  | <b>NOTE:</b> Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials   |            |
|  | Value Pack product QuickSpecs for more information.<br>NOTE: For more information regarding ProLiant Essentials Software, please see the following   |            |
|  | URL: http://www.hp.com/servers/proliantessentials./td>   |            |
| Software                                   | HP digital asset protection  | 302316-001 |
| NetServer to ProLiant                      | HP NetServer to ProLiant integration and assessment service  | 304164-002 |
| integrations services                      | <b>NOTE:</b> 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.   |            |
|  | HP TopTools to Insight Manager 7 installation and startup service  | 304163-002 |
|  | <b>NOTE:</b> 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. |            |
|  | HP NetServer to ProLiant Essentials Rapid Deployment Pack installation and startup service   | 304162-002 |
|  | <b>NOTE:</b> Install and configure Rapid Deployment Pack in a test environment, then deploy a server image to a maximum of 250 systems in the production environment. This service helps to assure successful system deployment.   |            |
| Processors                                 | Intel Xeon 2.80 GHz-512KB Processor Option Kit<br>NOTE: The Intel Xeon 2.80 GHz-512KB Processor Option Kit is supported by the ProLiant ML330<br>Generation 3 (G3) servers only.   | 317823-B21 |
|  | Intel Xeon 2.40 GHz-512KB Processor Option Kit<br><b>NOTE:</b> The Intel Xeon 2.40 GHz-512KB Processor Option Kit is supported by the ProLiant ML330<br>Generation 3 (G3) servers only.  | 323139-B21 |
| Memory (DIMMs)                             | 128MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 128 MB)  | 287494-B21 |
|  | 256MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 256 MB)  | 287495-B21 |
|  | 512MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 512 MB)  | 287496-B21 |
|  | 1024MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 1024 MB)  |            |



| Optical Drives   | CD-RW/DVD-ROM Combo Drive Option Kit   | 331346-B21 |
|------------------|--|------------|
| Internal Storage | ML3xx Two Bay Hot Plug SCSI Drive Cage<br>NOTE: This Drive Cage has one 1" drive bay and one 1.6"drive bay.  | 244059-B21 |
| Hard Drives      | Ultra320 SCSI – Universal Hot Plug   |            |
|                  | <b>NOTE:</b> These Hot Plug Drives are for use in conjunction with the ML3xx Two Bay Hot Plug SCSI Drive Cage (PN 244059-B21).   |            |
|                  | 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 |
|                  | Ultra320 SCSI – Non-Hot Plug   |            |
|                  | 36.4GB 10,000 rpm, U320 Non-Hot Plug Hard Drive, 1"  | 271832-B21 |
|                  | <b>NOTE:</b> 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.                           |            |
|                  | ATA 100 - Non-Hot Plug   |            |
|                  | 80-GB ATA/100 7,200 rpm Drive (1")   | 278424-B21 |
|                  | 40-GB ATA/100 7,200 rpm Drive (1")   | 230534-B21 |
|                  | <b>NOTE:</b> Please see the Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature:<br>U320 Hard Drive QS: |            |
|                  | http://h18000.www1.hp.com/products/quickspecs/11531_div/11531_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11531_na/11531_na.HTML (North America)<br>SCSI Hard Drive QS:                              |            |
|                  | http://h18000.www1.hp.com/products/quickspecs/10260_div/10260_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/10260_na/10260_na.HTML (North America)<br>ATA100 Hard Drive QS:                            |            |
|                  | http://h18000.www1.hp.com/products/quickspecs/11361_div/11361_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11361_na/11361_na.HTML (North America)   |            |



| Storage Controllers – | NOTE: The following Storage Controllers are qualified for SCSI drives only.   |            |
|-----------------------|---|------------|
| SCSI Drives           | HP RAID LC2 Controller  | 188044-B21 |
|                       | HP RAID LC2 Controller (Japan)  | 188044-291 |
|                       | Smart Array 532 Controller  | 225338-B21 |
|                       | Smart Array 532 Controller (Japan)  | 225338-291 |
|                       | Smart Array 5302/128 Controller   | 283552-B21 |
|                       | Smart Array 5302/128 Controller (Japan)   | 283552-291 |
|                       | Smart Array 6402/128 Controller   | 273915-B21 |
|                       | Smart Array 641 Controller  | 291966-B21 |
|                       | Smart Array 642 Controller  | 291967-B21 |
|                       | Smart Array 5312 Controller   | 238633-B21 |
|                       | Smart Array 5312 Controller (Japan)   | 238633-291 |
|                       | 64 MB Battery Backed Write Cache Enabler  | 291969-B21 |
|                       | <b>NOTE:</b> This 64 MB BBWC supports the Smart Array 641 Controller and Smart Array 642 Controller.  |            |
|                       | 128-MB Cache Module for Smart Array 5302 Controller   | 153506-B21 |
|                       | RAID ADG Upgrade for Smart Array 5302   | 288601-B21 |
|                       | 256-MB Battery-Back Cache Module<br>NOTE: This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series<br>controllers, MSA 1000 and the Smart Array Cluster Storage.  | 254786-B21 |
|                       | 256MB DDR, Battery-Backed Cache Upgrade Kit for SA-6400<br>NOTE: This 256-MB Battery-Backed Cache Module upgrade kit supports the Smart Array 6400<br>series controller only.   | 273913-B21 |
|                       | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter   | 268351-B22 |
|                       | 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS   | 284688-B21 |
|                       | NOTE: Please see the following Controller or SCSI Adapter QuickSpecs for Technical<br>Specifications such as PCI Bus, PCI Peak Data Transfer Rate, SCSI Protocols supported, SCSI<br>Peak Data Transfer Rate, Channels, SCSI Ports, Drives supported, Cache, RAID support, and<br>additional information:<br>http://h18000.www1.hp.com/products/quickspecs/10652_div/10652_div.HTML (RAID LC2)<br>http://h18000.www1.hp.com/products/quickspecs/10851_div/10851_div.HTML (Smart Array |            |
|                       | 532)<br>http://h18000.www1.hp.com/products/quickspecs/10640_div/10640_div.HTML (Smart Array<br>5300 Series)   |            |
|                       | http://h18000.www1.hp.com/products/quickspecs/11328_div/11328_div.HTML (Smart Array 5312)   |            |
|                       | http://h18000.www1.hp.com/products/quickspecs/11587_div/11587_div.HTML (Smart Array 6402)   |            |
|                       | http://h18000.www1.hp.com/products/quickspecs/11563_div/11563_div.HTML (Smart Array<br>641)<br>http://h18000.www1.hp.com/products/quickspecs/11563_div/11563_div.HTML (Smart Array  |            |
|                       | 642)<br>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)   |            |



| Wireless HAP Solution | WL410 Wireless SI                   | MB Access Point (US)                         |                           |                 | 191811-001             |
|-----------------------|-------------------------------------|--|---------------------------|-----------------|------------------------|
|                       | WL410 Wireless S                    | MB Access Point (Australia)                  |                           |                 | 191811-011             |
|                       | WL410 Wireless SI                   | MB Access Point (Europe)                     |                           |                 | 191811-021             |
|                       | WL410 Wireless SI                   | MB Access Point (UK)                         |                           |                 | 191811-031             |
|                       | WL410 Wireless SI                   | MB Access Point (Japan)                      |                           |                 | 191811-291             |
|                       | WL410 Wireless SI                   | MB Access Point (China)                      |                           |                 | 191811-AA1             |
|                       | WL410 Wireless Sl                   | MB Access Point (Korea)                      |                           |                 | 191811-AD1             |
|                       | WL410 Wireless S                    | MB Access Point (S. Africa)                  |                           |                 | 191811-AR1             |
|                       | HP ProCurve WL52                    | 20 Wireless Access Point                     |                           |                 | J8133A                 |
| Communications        | NC3123 Fast Etherr                  | net NIC PCI 10/100 WOL                       |                           |                 | 174830-B21             |
|                       | NC3134 Fast Etherr                  | net NIC 64 PCI Dual Port 10/100              |                           |                 | 138603-B21             |
|                       | NC3135 Fast Ether                   | net Module Dual 10/100 Upgrade N             | Module for NC3134 and NC  | 23131           | 138604-B2              |
|                       | NC6132 1000 SX U                    | pgrade Module                                |                           |                 | 338456-B23             |
|                       | NC6170 Dual Port F                  | PCI-X 1000SX Gigabit Server Adap             | oter                      |                 | 313879-B2              |
|                       | NC6770 PCI-X Giga                   | abit Server Adapter, 1000-SX                 |                           |                 | 244949-B2 <sup>-</sup> |
|                       | NC7132 Gigabit Up                   | grade Module 10/100/1000-T                   |                           |                 | 153543-B2 <sup>-</sup> |
|                       | NC7170 Dual Port F                  | PCI-X 1000T Gigabit Server Adapte            | er                        |                 | 313881-B2              |
|                       | NC7770 PCI-X Giga                   | abit Server Adapter                          |                           |                 | 244948-B2              |
|                       | NOTE: Any NC31X<br>NC3163 Network C | X, NC61XX, or NC71XX NIC can b<br>ontroller. | be used for redundancy wi | th the embedded |                        |
|                       | 56K v.90 PCI Moder                  | n  |                           |                 | 239137-xx2             |
|                       | Country Key Cod                     | e  |                           |                 |                        |
|                       | XX = 00                             | US   | XX = 15                   | Greece          |                        |
|                       | XX = 01                             | Austria                                      | XX = 16                   | S. America      |                        |
|                       | XX = 03                             | UK   | XX = 17                   | ARAB            |                        |
|                       | XX = 04                             | Germany                                      | XX = 18                   | Belgium         |                        |
|                       | XX = 05                             | France                                       | XX = 24                   | Poland          |                        |
|                       | XX = 06                             | Italy  | XX = 28                   | Thailand        |                        |
|                       | XX = 07                             | Spain  | XX = 29                   | Japan           |                        |
|                       | XX = 08                             | Denmark                                      | XX = 33                   | Netherlands     |                        |
|                       | XX = 09                             | Norway                                       | XX = 35                   | Finland         |                        |
|                       | XX = 10                             | Sweden/Finland                               | XX = 37                   | APD             |                        |
|                       | XX = 11                             | Switzerland                                  | XX = AB                   | Taiwan          |                        |
|                       | XX = 12                             | French Canadian                              | XX = AD                   | Korea           |                        |
|                       | XX = 13                             | Portugal                                     | XX = BB                   | HE              |                        |
|                       | XX = 14                             | Turkey                                       | XX = C9                   | LA MERCO        |                        |
| Management Options    | Remote Insight Ligh                 | ts-Out Edition II (NA, LA)                   |                           |                 | 227251-001             |
|                       | Remote Insight Ligh                 | ts-Out Edition II (EMEA)                     |                           |                 | 227251-021             |
|                       | Remote Insight Ligh                 | ts-Out Edition II (ROW)                      |                           |                 | 227251-371             |



#### Options

| Monitors |  |
|----------|--|
|          |  |

#### **Essential Series** Compaq S9500 CRT Monitor (19-inch, Carbon/Silver) 261615-XXX Compaq S7500 CRT Monitor (17-inch, Carbon/Silver) 261606-XXX Compaq S5500 CRT Monitor (15-inch Carbon/Silver) 261602-XXX Compaq TFT1501 Flat Panel Monitor 301042-003 (15-inch, Carbon/Silver, North America) Compag TFT1501 Flat Panel Monitor P4825D-XXX (15-inch, Carbon/Silver, Outside North America) Compag TFT1701 Flat Panel Monitor 292847-003 (17-inch, Carbon/Silver, North America) Compag TFT1701 Flat Panel Monitor P9019A-XXX (17-inch, Carbon/Silver, Outside North America) Advantage Series Compaq V7550 CRT Color Monitor 261611-XXX (17-inch, Carbon/Silver) Compaq TFT1720 Flat Panel Monitor 295926-003 (17-inch, Carbon/Silver, North America) Compag TFT1720 Flat Panel Monitor D5064D-XXX (17-inch, Carbon/Silver, outside North America) Compag FT1720M Flat Panel Monitor 301958-003 (17-inch, Carbon/Silver, includes speaker, USB port, headphone, North America) Compaq TFT1720M Flat Panel Monitor D5064P-XXX (17-inch, Carbon/Silver, includes speaker, USB port, headphone, outside North America) Compaq TFT1520 Flat Panel Monitor 295925-003 (15-inch, Carbon/Silver, North America) Compag TFT1520 Flat Panel Monitor D5063D-XXX (15-inch, Carbon/Silver, outside North America) Compag TFT1520M Flat Panel Monitor 301957-003 (15-inch, Carbon/Silver includes speaker, USB port, headphone, North America) Compaq TFT1520M Flat Panel Monitor D5063P-XXX (15-inch, Carbon/Silver includes speaker, USB port, headphone, outside North America) Performance Series HP P930 CRT Monitor (19-inch, Flat-screen, Carbon/Silver, North America) 302268-003 HP P930 CRT Monitor (19-inch, Flat-screen, Carbon/Silver, Outside North America) P909W-XXX HP P1130 CRT Monitor (21-inch, Flat-screen, Carbon/Silver, North America) 302270-003 HP P1130 CRT Monitor (21-inch, Flat-screen, Carbon/Silver, Outside North America) P4819-XXX HP L1825 Flat Panel Monitor (18-inch, Carbon/Silver, North America) 303486-003 HP L1825 Flat Panel Monitor (18-inch, Carbon/Silver, Outside North America) P9021W-XXX HP L2025 Flat Panel Monitor (20-inch, Carbon/Silver, North America) 303102-003 P4831W-XXX HP L2025 Flat Panel Monitor (20-inch, Carbon/Silver, Outside North America) Compag TFT1825 Flat Panel Monitor 296751-003 (18-inch, Carbon/Silver, North America) Compaq TFT1825 Flat Panel Monitor P9021A-XXX (18-inch, Carbon/Silver, Outside North America) Compag TFT2025 Flat Panel Monitor 285550-003 (20-inch, Carbon/Silver, North America) Compaq TFT2025 Flat Panel Monitor P4831D-XXX (20-inch, Carbon/Silver, Outside North America) TFT5110R Flat Panel Monitor (Carbon) 281683-B21



| Tape Drives |
|-------------|
|-------------|

| <b>NOTE:</b> To run any external SCSI-based devices, the customer needs to purchase an Internal to External Cable Option kit for SCSI models or a SCSI controller for ATA Models. IDE Tape Drives should be connected to the IDE ports on the Mother Board not the Server Feature Board.<br><b>NOTE:</b> The SCSI Cable Kit (PN 273463-B21) is required when installing an internal tape drive and a SCSI Controller.   |         |
|---|---------|
| Internal AIT IDE Tape Drives  |         |
| AIT 35 GB, IDE Tape Drive, Internal   | 246627- |
| <b>NOTE:</b> The AIT 35 GB, IDE Tape Drive (246627-B22) ships bundled with the following software<br>"AIT 35 GB, IDE Tape Drive with Retrospect Backup Software Bundle".<br><b>NOTE:</b> Please see the AIT 35-GB IDE Tape Drive QuickSpecs for additional options such as<br>cassettes and for an up-to-date listing of the latest O/S Support details, please see the<br>following:   |         |
| http://h18000.www1.hp.com/products/quickspecs/11013_div/11013_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11013_na/11013_na.HTML (North America)  |         |
| Internal and External DAT 72 Tape Backup Drive  |         |
| HP StorageWorks DAT 72i Internal 5th generation DDS Tape Drive (Carbon)   | Q15     |
| HP StorageWorks DAT 72e External 5th generation DDS Tape Drive, External (US) (Carbon)  | Q15     |
| HP StorageWorks DAT 72e External 5th generation DDS Tape Drive, External (International) (Carbon)   | Q15     |
| <b>NOTE:</b> Please see the DAT 72 Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:<br>http://h18000.www1.hp.com/products/quickspecs/11597_div/11597_div.HTML (Worldwide)  |         |
| http://h18000.www1.hp.com/products/quickspecs/11597_na/11597_na.HTML (North America)  |         |
| Internal and External DAT Tape Drives   | 457700  |
| HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, Internal (Carbon) (WW)   | 157769  |
| HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Carbon) (NA)   | 157770  |
| HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Int'I) (Carbon)  | 157770  |
| HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Japan) (Carbon)  | 157770  |
| <b>NOTE:</b> Please see the 20/40-GB DAT Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:   |         |
| http://h18000.www1.hp.com/products/quickspecs/10426_div/10426_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/10426_na/10426_na.HTML (North America)  |         |
| External LTO Ultrium Tape Drives  |         |
| HP StorageWorks Ultrium 215 Tape Drive for ProLiant, External (Carbon) NA   | Q1      |
| HP StorageWorks Ultrium 215 Tape Drive for ProLiant, External (Carbon) Int'l  | Q1      |
| <b>NOTE:</b> Please see the HP StorageWorks Ultrium 215 Tape Drive QuickSpecs for additional options such as controllers, and other related items, and for an up-to-date listing of the latest O/S Support details, please see the following:   |         |
| http://h18006.www1.hp.com/products/quickspecs/11678_div/11678_div.html (Worldwide)<br>http://h18006.www1.hp.com/products/quickspecs/11678_na/11678_na.html (North America)<br>For an up-to-date listing of the latest O/S and backup software support, please visit our   |         |
| compatibility Web site at: http://www.hp.com/go/connect.  |         |
| HP StorageWorks Ultrium 230 Tape Drive, external (Carbon) NA  | Q1      |
| HP StorageWorks Ultrium 230 Tape Drive, external (Carbon) Int'l   | Q1      |
| NOTE: Please see the HP StorageWorks Ultrium 230 QuickSpecs for additional options such as<br>host bus adapters, controllers, and data cartridges, and for an up-to-date listing of the latest<br>O/S Support details, please see the following:<br>http://h18006.www1.hp.com/products/quickspecs/11415_div/11415_div.html (Worldwide)<br>http://h18006.www1.hp.com/products/quickspecs/11415_na/11415_na.html (North America)<br>For an up-to-date listing of the latest O/S and backup software support, please visit our |         |
| compatibility Web site at: http://www.hp.com/go/connect.  | •       |
| HP StorageWorks Ultrium 460 Tape Drive, external (Carbon) NA  | Q1      |
| HP StorageWorks Ultrium 460 Tape Drive, external (Carbon) Int'l   | Q1      |



### HP ProLiant ML330 Generation 3 (G3)

### QuickSpecs

### Options

| ate listing of the latest O/S Support details, please see the following:   |                        |
|--|------------------------|
| ttp://h18006.www1.hp.com/products/quickspecs/11530_div/11530_div.html (Worldwide)  |                        |
| ttp://h18006.www1.hp.com/products/quickspecs/11530_na/11530_na.html (North America)<br>or an up-to-date listing of the latest O/S and backup software support, please visit our  |                        |
| ompatibility Web site at: http://www.hp.com/go/connect.  |                        |
| nternal and External AIT Tape Drives   |                        |
| IP StorageWorks Internal AIT 35-GB, LVD Tape Drive (Carbon)  | 216884-B2 <sup>2</sup> |
| IP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (NA)   | 216885-007             |
| IP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Int'I)  | 216885-B31             |
| IP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Japan)  | 216885-291             |
| <b>OTE:</b> Please see the AIT 35-GB, LVD Tape Drive QuickSpecs for additional options such as dapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support etails, please see the following:<br>ttp://h18000.www1.hp.com/products/quickspecs/10712_div/10712_div.HTML (Worldwide)   |                        |
| ttp://h18000.www1.hp.com/products/quickspecs/10712_na/10712_na.HTML (North America)  |                        |
| IP StorageWorks AIT 50-GB Tape Drive, Internal (Carbon) (WW)   | 157766-B22             |
| IP StorageWorks AIT 50-GB Tape Drive, External (Carbon) (NA)   | 157767-002             |
| IP StorageWorks AIT 50-GB Tape Drive, External (Int'I) (Carbon)  | 157767-B3              |
| IP StorageWorks AIT 50-GB Tape Drive, External (Japan) (Carbon)<br>IP StorageWorks Rackmount AIT 50-GB, 3U (Single Drive)  | 157767-29<br>274333-B2 |
| <b>OTE:</b> Please see the AIT 50-GB Tape Drive QuickSpecs for additional options such as dapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support etails, please see the following:<br>ttp://h18000.www1.hp.com/products/quickspecs/10425_div/10425_div.HTML (Worldwide) ttp://h18000.www1.hp.com/products/quickspecs/10425_na/10425_na.HTML (North America)  |                        |
| IP StorageWorks Internal AIT 100-GB Tape Drive (Carbon)  | 249189-B2 <sup>2</sup> |
| IP StorageWorks External AIT 100-GB Tape Drive (Carbon)  | 249160-00              |
| IP StorageWorks External AIT 100-GB Tape Drive (Carbon) (Int'I)  | 249160-B3              |
| <b>OTE:</b> Please see the AIT 100-GB Tape Drive QuickSpecs for additional options such as dapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support etails, please see the following:<br>ttp://h18000.www1.hp.com/products/quickspecs/11062_div/11062_div.HTML (Worldwide) ttp://h18000.www1.hp.com/products/quickspecs/11062_na/11062_na.HTML (North America) |                        |
| external DLT/SDLT Tape Drives  |                        |
| P StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (NA)   | 146197-B22             |
| IP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (Japan)   | 146197-293             |
| IP StorageWorks Rackmount DLT 40/80, 3U (Single Drive)   | 274332-B2              |
| IP StorageWorks Rackmount DLT 40/80, Dual-Drive, 3U (Two Drives)   | 274335-B2              |
| IP StorageWorks Rackmount DLT 40/80, Tape Array III, 5U (Four Drives)  | 274337-B2              |
| <b>OTE:</b> Please see the 40/80-GB DLT Drive QuickSpecs for additional options such as host bus dapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, lease see the following:  |                        |

http://h18000.www1.hp.com/products/quickspecs/10658\_na/10658\_na.HTML (North America)



| Internal and External DLT VS Tape Drives  |            |
|---|------------|
| HP StorageWorks DLT VS 40/80 Tape Drive, Internal (carbon) WW   | 280129-B21 |
| HP StorageWorks DLT VS 40/80 Tape Drive, External (carbon) NA   | 280129-B22 |
| HP StorageWorks DLT VS 40/80 Tape Drive, External (carbon) INTL   | 280129-B31 |
| HP StorageWorks DLT VS 40/80 Tape Drive, External (carbon) Japan  | 280129-291 |
| NOTE: Please see the 40/80-GB DLT VS Drive QuickSpecs for additional options such as host<br>bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support<br>details, please see the following:<br>http://h18000.www1.hp.com/products/quickspecs/11403_div/11403_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11403_na/11403_na.HTML (North America)                              |            |
|   |            |
| External DLT/SDLT Tape Drives<br>HP StorageWorks Rackmount SDLT 110/220, 3U (Single Drive)  | 274331-B21 |
| HP StorageWorks Rackmount SDLT 110/220, Dual-Drive, 3U (Two Drives)   | 274334-B21 |
| HP StorageWorks Rackmount SDLT 110/220, Tape Array III, 5U (Four Drives)  | 274336-B21 |
| <b>NOTE:</b> Please see the SDLT 110/220-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following:   | 274330-021 |
| http://h18000.www1.hp.com/products/quickspecs/10772_div/10772_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/10772_na/10772_na.HTML (North America)  |            |
| HP StorageWorks SDLT 160/320, External NA (carbon)  | 257319-001 |
| HP StorageWorks SDLT 160/320, External WW (carbon)  | 257319-B31 |
| HP StorageWorks SDLT 160/320, External Japan (carbon)   | 257319-291 |
| <b>NOTE:</b> Please see the SDLT 160/320-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following:   |            |
| http://h18000.www1.hp.com/products/quickspecs/11406_div/11406_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11406_na/11406_na.HTML (North America)  |            |
| External DAT Autoloader   |            |
| 20/40-GB DAT 8 Cassette Autoloader External (Opal)  | 166505-001 |
| 20/40-GB DAT 8 Cassette Autoloader External (Opal) (Int'I)  | 166505-B31 |
| 20/40-GB DAT 8 Cassette Autoloader External (Opal) (Japan)  | 166505-291 |
| <b>NOTE:</b> Please see the 20/40-GB DAT DDS-4 8 Cassette Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:<br><u>http://h18000.www1.hp.com/products/quickspecs/10518_div/10518_div.HTML</u> (Worldwide)<br><u>http://h18000.www1.hp.com/products/quickspecs/10518_na/10518_na.HTML</u> (North America) |            |
| AIT Autoloader  |            |
| HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (NA)   | 280349-001 |
| HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (Int'I)  | 280349-B31 |
| HP StorageWorks AIT 35 GB Autoloader Tabletop (Carbon) (NA)   | 292355-001 |
| HP StorageWorks AIT 35 GB Autoloader, Tabletop (Carbon) (Int'I)   | 292355-B31 |
| <b>NOTE:</b> Please see the AIT 35-GB Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:   |            |
| http://h18000.www1.hp.com/products/quickspecs/11404_div/11404_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11404_na/11404_na.HTML (North America)  |            |



| HP StorageWorks 1/8 Autoloader   |            |
|--|------------|
| HP StorageWorks 1/8 Autoloader, Tabletop, Ultrium 230  | C9572CB    |
| HP StorageWorks 1/8 Autoloader, Tabletop, DLT VS80   | C9264CB    |
| HP StorageWorks 1/8 Autoloader, Rackmount kit  | C9268R     |
| SSL1016 tape autoloader  |            |
| SSL1016 DLT1 tape autoloader (includes two 8-cartridge magazines and a barcode reader)   | 330815-B21 |
| <b>NOTE:</b> Please see the SSL1016 DLT1 tape autoloader Quick Specs for additional information:<br>http://h18000.www1.hp.com/products/quickspecs/11626_div/11626_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11626_na/11626_na.HTML (North America)   |            |
| SSL1016 SDLT160/320 tape autoloader (includes 2 8-cartridge magazines and a barcode reader)  | 330816-B21 |
| <b>NOTE:</b> Please see the SSL1016 SDLT160/320 tape autoloader Quick Specs for additional information:  |            |
| http://h18000.www1.hp.com/products/quickspecs/11609_div/11609_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11609_na/11609_na.HTML (North America)   |            |
| Add-on drives and accessories  |            |
| SSL1016 DLT/SDLT 8-cartridge magazine  | 268664-B22 |
| HP Super DLT tape Data Cartridge   | C7980A     |
| HP SDLT Cleaning Cartridge   | C7982A     |
| <b>NOTE:</b> Please see the SSL1016 tape autoloader Quick Specs for additional information:<br>http://h18000.www1.hp.com/products/quickspecs/11626_div/11626_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/11626_na/11626_na.HTML (North America)  |            |
| Rackmount Tape Drive Kits  |            |
| 3U Rackmount Kit   | 274338-B21 |
| <b>NOTE:</b> The 3U Rackmount Kit (PN 274338-B21) can support up to (2) full-height or (4) half-height tape drives and compatible with multiple Single-Ended and LVD SCSI Tape Drives including the 12/24-GB DAT, 20/40-GB DAT, 20/40-GB DAT DDS-4 8 Cassette Autoloader, AIT 35-GB LVD, AIT 50 GB, 20/40-GB DLT, 40/80-GB DLT, and the SDLT 110/220-GB Tape Drives. |            |
| 5U Rackmount Kit   | 274339-B21 |
| <b>NOTE:</b> The 5U Rackmount Kit (PN 274339-B21) can support up to (4) full-height tape drives and is compatible with all Compaq DLT/SDLT tape drives including the 20/40-GB DLT, 35/70-GB DLT, 40/80-GB DLT, and the SDLT 110/220-GB tape drives.  |            |
| <b>NOTE:</b> Please see the Rackmount Tape Drive Kits QuickSpecs for additional information regarding these kits, please see the following:<br>http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/10854_na/10854_na.HTML (North America)  |            |
| Rackmount Tape Drive Cable Kits  |            |
| LVD Cable Kit, VHDCI/HD68<br>NOTE: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.   | 168048-B21 |
| LVD Cable Kit, HD68/HD68<br>NOTE: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.  | 242381-B21 |
|  |            |



| Tape Automation | Entry Level Tape Libraries   |            |
|-----------------|--|------------|
| -               | SSL2020 Automated AIT Library  |            |
|                 | SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount  | 175196-B21 |
|                 | SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount  | 175196-B22 |
|                 | SSL2020 AIT Library Pass Thru with Transport   | 175312-B21 |
|                 | SSL2020 AIT Library Pass Thru Extender   | 175312-B22 |
|                 | AIT 50-GB Drive Add-On LVD Drive for SSL2020 AIT Library   | 175197-B21 |
|                 | Add-on drives and accessories  |            |
|                 | SSL2020 AIT Library Pass Thru Extender   | 175312-B22 |
|                 | AIT 50GB Drive Add-On LVD Drive for SSL2020 AIT Library  | 175197-B21 |
|                 | 19 Slot Magazine for SSL2020 AIT Library   | 175198-B21 |
|                 | AIT 50-GB Data Cassette (5 pack)   | 152841-001 |
|                 |  | 402374-B21 |
|                 | AIT Cleaning Cassette  | 402374-D21 |
|                 | <b>NOTE:</b> Please see the SSL2020 Automated AIT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: |            |
|                 | http://h18000.www1.hp.com/products/quickspecs/10580_na/10580_na.HTML (North America)   |            |
|                 | http://h18000.www1.hp.com/products/quickspecs/10580_div/10580_div.HTML (Worldwide)   |            |
|                 | StorageWorks MSL6000 and MSL5000 Departmental tape libraries   |            |
|                 | MSL6060L1 - Ultrium 460 1 based departmental library up to 4 drives and 60 slots   |            |
|                 | MSL6060L1, 0 DRV Ultrium 460 RM Library  | 331196-B23 |
|                 | MSL6060L1, 2 DRV Ultrium 460 RM Library  | 331195-B21 |
|                 | MSL6060L1, 2 DRV Ultrium 460 TT Library  | 331196-B21 |
|                 | MSL6060L1FC, 2 DRV Ultrium 460 embedded Fibre RM Library   | 331196-B22 |
|                 | NOTE: Please see the StorageWorks MSL6060 LTO Library QuickSpecs for additional  |            |
|                 | information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options  |            |
|                 | needed for a complete solution at:<br>http://h18000.www1.hp.com/products/quickspecs/11608_na/11608_na.HTML (North America)   |            |
|                 | http://h18000.www1.hp.com/products/quickspecs/11608_div/11608_div.HTML (Worldwide)   |            |
|                 | MSL5060 LTO Library  |            |
|                 | MSL5060L1, Rackmount, 0 Drive Library  | 301899-B21 |
|                 | MSL5060L1, Rackmount, 2 Drives, LTO1 Library   | 301899-B22 |
|                 | MSL5060L1FC, Rackmount, 2 Drives, LTO1 Library   | 301899-B23 |
|                 | MSL5060L1, Tabletop, 2 Drives, LTO1 Library  | 301900-B21 |
|                 | <b>NOTE:</b> Please see the StorageWorks MSL5060 LTO Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options   |            |
|                 | needed for a complete solution at:   |            |
|                 | http://h18000.www1.hp.com/products/quickspecs/11438_na/11438_na.HTML (North America)<br>http://h18000.www1.hp.com/products/quickspecs/11438_div/11438_div.HTML (Worldwide)   |            |
|                 | MSL5052S2 - SDLT160 based departmental library up to 4 drives and 52 slots   |            |
|                 | MSL5052S2, RM 0 DRV SDLT ALL   | 255102-B21 |
|                 | MSL5052S2, 2 DRV SDLT2 TT LIB  | 293476-B21 |
|                 | MSL5052S2, 2 DRV SDLT2 RM LIB  | 293474-B21 |
|                 | MSL5052S2FC 2 DRV SDLT2 RM- with integrated FC router  | 293474-B24 |
|                 | NOTE: Please see the StorageWorks MSL5052S2 Library QuickSpecs for additional information  |            |
|                 | including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:   |            |
|                 | http://h18000.www1.hp.com/products/quickspecs/11442_na/11442_na.HTML (North America)<br>http://h18000.www1.hp.com/products/quickspecs/11442_div/11442_div.HTML (Worldwide)   |            |



#### Options

| MSL6030 - LTO U    | ltrium 460 mid-range library up to 2 drives and 30 slots |
|--------------------|--|
| MSI 6030 0-drive 1 | TO LVDS RM   |

| MSL0030 - LTO Uttruin 400 mid-range ibrary up to 2 drives and 30 slots  |            |
|---|------------|
| MSL6030 0-drive, LTO, LVDS, RM  | 330731-B21 |
| MSL6030 1-drive, LTO Gen2, LVDS, RM   | 330731-B22 |
| MSL6030 2-drive, LTO Gen2, LVDS, RM   | 330731-B23 |
| MSL6030 1-drive, LTO Gen2, Fibre, RM  | 330731-B24 |
| MSL6030 2-drive, LTO Gen2, Fibre, RM  | 330731-B25 |
| MSL6030 1-drive, LTO Gen2, LVDS, TT   | 330788-B21 |
| MSL6030 2-drive, LTO Gen2, LVDS, TT   | 330788-B22 |
| MSL5030 LTO Library   |            |
| MSL5030L1, 0 DRV LTO1 RM Library  | 301897-B21 |
| MSL5030L1, 1 DRV LTO1 RM Library  | 301897-B22 |
| MSL5030L1, 2 DRV LTO1 RM Library  | 301897-B23 |
| MSL5030L1FC, 1 DRV LTO1 RM- with integrated FC router   | 301897-B24 |
| MSL5030L1FC, 2 DRV LTO1 RM- with integrated FC router   | 293472-B25 |
| MSL5030L1, 1 DRV LTO1 TT Library  | 301898-B21 |
| MSL5030L1, 2 DRV LTO1 TT Library  | 301898-B22 |
| <b>NOTE:</b> Please see the StorageWorks MSL5030 LTO Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:<br><u>http://h18000.www1.hp.com/products/quickspecs/11439_na/11439_na.HTML (North America)</u><br><u>http://h18000.www1.hp.com/products/quickspecs/11439_div/11439_div.HTML (Worldwide)</u> |            |
|   |            |
| MSL5026SL Graphite - SDLT110 based mid-range library up to 2 drives and 26 slots  |            |
| MSL5026SL, 1 DRV SDLT TT, graphite  |            |
| MSL5026SL, 2 DRV SDLT TT, graphite  |            |
| MSL5026SL, 1 DRV SDLT RM, graphite  |            |
| MSL5026SL, 2 DRV SDLT RM, graphite  |            |
| <b>NOTE:</b> Please see the StorageWorks MSL5026SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:   |            |
| http://h18000.www1.hp.com/products/quickspecs/11440_na/11440_na.HTML (North America)<br>http://h18000.www1.hp.com/products/quickspecs/11440_div/11440_div.HTML (Worldwide)  |            |
| MSL5026S2 - SDLT160 based mid-range library up to 2 drives and 26 slots   |            |
| MSL5026S2, 0 DRV SDLT2 RM Library   | 293472-B21 |
| MSL5026S2, 1 DRV SDLT2 RM Library   | 293472-B22 |
| MSL5026S2, 2 DRV SDLT2 RM Library   | 293472-B23 |
| MSL5026S2FC, 1 DRV SDLT2 RM- with integrated FC router  | 293472-B24 |
| MSL5026S2FC, 2 DRV SDLT2 RM- with integrated FC router  | 293472-B25 |
| MSL5026S2, 1 DRV SDLT2 TT Library   | 293473-B21 |
| MSL5026S2, 2 DRV SDLT2 TT Library   | 293473-B22 |
|   |            |

NOTE: Please see the StorageWorks MSL5026S2 Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:

http://h18000.www1.hp.com/products/quickspecs/11453\_na/11453\_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11453\_div/11453\_div.HTML (Worldwide)



| Options                        |   |            |
|--------------------------------|---|------------|
|                                | MSL5026SL Opal - SDLT110 based mid-range library up to 2 drives and 26 slots  |            |
|                                | MSL5026. 0 DR, LVD, RM  | 231979-B21 |
|                                | MSL5026DLX DLT Library  |            |
|                                | MSL5026DLX, 1 40/80GB DLT, LVD, TT  | 231821-B21 |
|                                | MSL5026DLX, 2 40/80GB DLT, LVD, TT  | 231821-B22 |
|                                | MSL5026DLX, 1 40/80GB DLT, LVD, RM  | 231891-B21 |
|                                | MSL5026DLX, 2 40/80GB DLT, LVD, RM  | 231891-B22 |
|                                | NOTE: Please see the StorageWorks MSL5026DLX Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:<br>http://h18000.www1.hp.com/products/quickspecs/10860_na/10860_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/10860_div/10860_div.HTML (Worldwide)  |            |
|                                | MSL6000 and MSL5000 Add-on drives & accessories   |            |
|                                | MSL SDLT 160/320 Upgrade DRV  | 293475-B21 |
|                                | MSL Ultrium 460 upgrade drive in hot plug canister  | 330729-B21 |
|                                | MSL5000 SDLT 110/220 Upgrade DRV  | 231823-B22 |
|                                | MSL5000 40/80GB DLT Upgrade DRV   | 231823-B21 |
|                                | MSL Dual Magazine DLT (2 X 13 slot magazines)   | 232136-B21 |
|                                | MSL Universal passthrough mechanism   | 304825-B21 |
|                                | MSL 5U passthrough extender   | 231824-B22 |
|                                | MSL 10U passthrough extender  | 231824-B23 |
|                                | MSL Dual Magazine - Ultrium   | 301902-B21 |
| Smort Arroy Cluster            | Smort Arroy Cluster Stores  | 201724 821 |
| Smart Array Cluster<br>Storage | Smart Array Cluster Storage   | 201724-B21 |
| otorago                        | Smart Array Cluster Storage Redundant Controller Option Kit   | 218252-B21 |
|                                | 4-Port Shared Storage Module with Smart Array Multipath Software for Smart Array Cluster<br>Storage   | 292944-B21 |
|                                | 128-MB Cache Module for Smart Array 5302 Controller   | 153506-B21 |
|                                | 256-MB Battery-Backed Cache Module  | 254786-B21 |
|                                | NOTE: 128-MB Cache Module for Smart Array 5302 Controller (PN 153506-B21) is an upgrade cache module (128 MB Standard) for Smart Array Cluster Storage Controller.<br>NOTE: Please see the Compaq Smart Array Cluster Storage QuickSpecs for additional information including OS support for the ML330 G2, configuration steps and additional options needed for a complete solution at:<br>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 HA/L100 LifeKeeper for Linux   | 303523-B22 |
|                                | <b>NOTE:</b> For additional information regarding the ProLiant Cluster HA/L100 LifeKeeper for Linux, please see the following QuickSpecs at:  |            |
|                                | http://h18000.www1.hp.com/products/quickspecs/11533_na/11533_na.html (North America)<br>http://h18000.www1.hp.com/products/quickspecs/11533_div/11533_div.html (Worldwide)  |            |



| External Storage – Tower & Rack | <b>NOTE:</b> To run any external SCSI-based devices, the customer needs to purchase an Internal to External Cable Option kit for SCSI models or a SCSI controller for ATA Models.  |  |
|---------------------------------|--|--|
|                                 | StorageWorks Enclosure Model 4314T (tower)   | 190210-001   |
|                                 | StorageWorks Enclosure Model 4314T (tower) (Int'I)   | 190210-B31   |
|                                 | StorageWorks Enclosure Model 4314T (tower) (Japan)   | 190210-291   |
|                                 | StorageWorks Enclosure Model 4314R (rack-mountable)  | 190209-001   |
|                                 | StorageWorks Enclosure Model 4314R (rack-mountable) (Int'I)  | 190209-B31   |
|                                 | StorageWorks Enclosure Model 4314R (rack-mountable) (Japan)  | 190209-291   |
|                                 | StorageWorks Enclosure Model 4354R (rack-mountable)  | 190211-001   |
|                                 | StorageWorks Enclosure Model 4354R (rack-mountable) (Int'I)  | 190211-B31   |
|                                 | StorageWorks Enclosure Model 4354R (rack-mountable) (Japan)  | 190211-291   |
|                                 | <b>NOTE:</b> The StorageWorks Enclosure 4300 Family support the Wide Ultra2/Ultra3 1"Hot Plug Hard Drives.   |  |
|                                 | StorageWorks Enclosure 4200 Redundant Power Supply Option  | 119826-B21   |
|                                 | StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option  | 190212-B21   |
|                                 | StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option  | 190213-B21   |
|                                 |  |  |
| UPS Power Cord Matrix           | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and specifications for UPS and PDU units.<br>ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.  |  |
| UPS Power Cord Matrix           | specifications for UPS and PDU units.  | 136386-001   |
|                                 | specifications for UPS and PDU units.<br>ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.   | 136386-001<br>136386-B31   |
| Uninterruptible Power           | specifications for UPS and PDU units.<br>ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.<br>Compaq Pro UPS 500 (300 Watt) 120V (NA)  |  |
| Uninterruptible Power           | specifications for UPS and PDU units.<br>ttp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.<br>Compaq Pro UPS 500 (300 Watt) 120V (NA)<br>Compaq Pro UPS 500 (300 Watt) 120V (Int'I)  | 136386-B31   |
| Uninterruptible Power           | specifications for UPS and PDU units.<br>ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.<br>Compaq Pro UPS 500 (300 Watt) 120V (NA)<br>Compaq Pro UPS 500 (300 Watt) 120V (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (NA)   | 136386-B31<br>204015-001   |
| Uninterruptible Power           | specifications for UPS and PDU units.<br>ttp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.<br>Compaq Pro UPS 500 (300 Watt) 120V (NA)<br>Compaq Pro UPS 500 (300 Watt) 120V (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (NA)<br>HP UPS Model T700 (700VA, 500 Watt), High Voltage (Int'I)  | 136386-B31<br>204015-001<br>204015-B31   |
| Uninterruptible Power           | specifications for UPS and PDU units.<br>ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.<br>Compaq Pro UPS 500 (300 Watt) 120V (NA)<br>Compaq Pro UPS 500 (300 Watt) 120V (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (NA)<br>HP UPS Model T700 (700VA, 500 Watt), High Voltage (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (Japan)  | 136386-B31<br>204015-001<br>204015-B31<br>204015-291   |
| Uninterruptible Power           | specifications for UPS and PDU units.<br>ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.<br>Compaq Pro UPS 500 (300 Watt) 120V (NA)<br>Compaq Pro UPS 500 (300 Watt) 120V (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (NA)<br>HP UPS Model T700 (700VA, 500 Watt), High Voltage (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (Japan)<br>HP UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (NA)  | 136386-B31<br>204015-001<br>204015-B31<br>204015-291<br>204155-001                             |
| Uninterruptible Power           | specifications for UPS and PDU units.<br>ttp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.<br>Compaq Pro UPS 500 (300 Watt) 120V (NA)<br>Compaq Pro UPS 500 (300 Watt) 120V (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (NA)<br>HP UPS Model T700 (700VA, 500 Watt), High Voltage (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (Japan)<br>HP UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (NA)<br>HP UPS Model T1000 XR (1000VA, 700 Watt), High Voltage (Int'I)  | 136386-B31<br>204015-001<br>204015-B31<br>204015-291<br>204155-001<br>204155-B31               |
| Uninterruptible Power           | specifications for UPS and PDU units.<br>ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf.<br>Compaq Pro UPS 500 (300 Watt) 120V (NA)<br>Compaq Pro UPS 500 (300 Watt) 120V (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (NA)<br>HP UPS Model T700 (700VA, 500 Watt), High Voltage (Int'I)<br>HP UPS Model T700 (700VA, 500 Watt), Low Voltage (Japan)<br>HP UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (Int'I)<br>HP UPS Model T1000 XR (1000VA, 700 Watt), High Voltage (Int'I)<br>HP UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (Int'I)<br>HP UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (Int'I) | 136386-B31<br>204015-001<br>204015-B31<br>204015-291<br>204155-001<br>204155-B31<br>312803-291 |



| UPS Options           | SNMP Serial Port Card<br>NOTE: Supports tower and rack UPS XR models ranging from 1000 – 3000VA | 192189-B21               |
|-----------------------|---|--------------------------|
|                       | <b>NOTE:</b> UPS R12000 XR has a hardwired input and output connection.                         |                          |
|                       | UPS R12000 XR N+ x (200-240V) (WW-hardwired)  | 207552-B22               |
|                       | NOTE: UPS R6000 has a hardwired input   | 547207-291               |
|                       | Rack-Mountable UPS R6000 (200V) (Japan)   | 347207-291               |
|                       | Rack-Mountable UPS R6000 (230V) (Int'I)<br>NOTE: UPS R6000 has a hardwired input                | 347207-B31               |
|                       | NOTE: UPS R6000 has a hardwired input   | 347207-001               |
|                       | HP UPS R3000 XR (230V) (16A BS-546 Plug)<br>Rack-Mountable UPS R6000 (208V) (NA)                | 192186-AR1<br>347207-001 |
|                       | HP UPS R3000 XR (230V) (16A CEE 7/7 SCHUKO Plug)  | 192186-B33               |
|                       | HP UPS R3000 XR (230V) (16A IEC309 Plug)  | 192186-B32               |
|                       | HP UPS R3000 XR (230V) (Int'l - detachable cord)  | 192186-B31               |
|                       | HP UPS R3000 XR (208V) (Japan) Compaq UPS R3000 XR (200V) (Japan)                               | 192186-292               |
|                       | HP UPS R3000 XR (100V) (Japan)  | 192186-291               |
|                       | HP UPS R3000 XR (208V) (NA)   | 192186-002               |
|                       | HP UPS R3000 XR (120V) (NA)   | 192186-001               |
|                       | HP UPS R1500 XR (100 to 127) (Japan)  | 204404-291               |
| Systems – Rack        | HP UPS R1500 XR (208 to 480) (Int'I)  | 204404-B31               |
| Uninterruptible Power | HP UPS R1500 XR (100 to 127) (NA)   | 204404-001               |

| SNMP Serial Port Card<br>NOTE: Supports tower and rack UPS XR models ranging from 1000 – 3000VA   | 19218 |
|---|-------|
| Six Port Card<br>NOTE: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.  | 19218 |
| High to Low Voltage Transformer (250VA)<br><b>NOTE</b> : Supports R6000 UPS series only. 2.5A @ 125 Volts max output across two NEMA 5-15 | 38864 |
| Extended Runtime Module, T1000 XR   | 21896 |
| Extended Runtime Module, T1500 XR/T2200 XR  | 21896 |
| Extended Runtime Module, R1500 XR<br>NOTE: 2U each, two ERM maximum.  | 21897 |
| Extended Runtime Module, R3000 XR<br>NOTE: 2U each, one ERM maximum.  | 19218 |
| Extended Runtime Module, R6000<br>NOTE: 3U each, two ERM maximum.   | 34722 |
| Extended Runtime Module, R12000 XR, 4U<br>NOTE: 4U each, two ERM maximum.   | 21780 |
| R12000 XR BackPlate Receptacle Kit, (2) L6-30R (NA)<br>NOTE: The R12000 XR BackPlate Kit has a hardwired input.                           | 32536 |
| R12000 XR BackPlate Receptacle Kit, (2) IEC-309R (WW)<br>NOTE: The R12000 XR BackPlate Kit has a hardwired input.                         | 32536 |
| SNMP-EN Adapter<br>NOTE: Supports R6000 UPS series only.  | 34722 |
| Multi-Server UPS Card<br>NOTE: Supports R6000 UPS series only.  | 12350 |
| Scalable UPS Card<br>NOTE: Supports R6000 UPS series only.  | 12350 |



| Modular PDUs – 1U/0U (up   | HP Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan)   | 252663-D71 |
|--|---|------------|
| to 32 outlets)<br>NOTE: 1U/0U mounting<br>brackets shipped with the unit<br>(optimized for 10000 | <b>NOTE:</b> The above mPDU may also be used to connect to the low volt model of the UPS R3000 XR.  |            |
|  | HP Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan)  | 252663-D72 |
|  | NOTE: L6-30 input.  |            |
| and 9000 series racks).  | HP Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'I)  | 252663-B31 |
|  | HP Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW)   | 252663-B21 |
|  | NOTE: The 40A model has a hardwired input.  |            |
|  | HP Modular Power Distribution Units (mPDU), High Volt Model, 16A (200-240 VAC) (WW)   | 252663-B24 |
|  | <b>NOTE:</b> 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.   |            |
|  | NOTE: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs)<br>QuickSpecs for additional options including shorter jumper cables and country specific power<br>cords:<br>http://h18000.www1.hp.com/products/quickspecs/11041_na/11041_na.HTML (North America)<br>http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.HTML (Worldwide) |            |
| Modular PDU Options  | Third Party Modular PDU Mounting Kit<br><b>NOTE:</b> This kit allows you to mount the Modular PDUs in (1U configuration only) in racks other<br>than the 9000/10000 Series racks (any racks using the standard 19" rail, including the 7000<br>Series racks). For more details please refer the Modular PDU QuickSpecs.   | 310777-B21 |
|  | 4.5' IEC C 13 to IEC C14 PDU Jumper Cable (1 per pack)  | 142257-006 |
|  | 4.5' IEC C 13 to IEC C14 PDU Jumper Cable (15 per pack)   | 142257-007 |
| USB Options  | USB Optical Scroll Mouse (Carbonite)  | DD441B     |
| •  | USB 1.44-MB External Diskette Drive (Carbonite)   | DC141B     |
|  | USB Easy Access Keyboard (Carbonite/Silver)   | DC168B#    |



### Options

|                            | USD Lasy Acces  | s Keyboard (Carbonite) Country  |  |   |
|----------------------------|---|---|--|---|
|                            | 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  | 002  | 30033   |
| ack Enabling Kit           | ProLiant ML310/ML<br>DL360 Telco Rack   | .330 Rack Enabling Kit<br>Option Kit  |  |   |
| Rack Enabling Kit<br>Dther | DL360 Telco Rack<br>Enhanced Keyboa   | Option Kit<br>rd (Carbon)   |  | 238547-B2<br>251243-B2<br>296435-xx   |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI 0   | Option Kit  | ed when installing an intern   | 251243-B2<br>296435-xx<br>273463-B2   |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.   | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require   | -  | 251243-B2<br>296435-xx<br>273463-B2<br>al tape drive and  |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML   | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit  | 251243-B2<br>296435-xx<br>273463-B2   |
|                            | DL360 Telco Rack<br>Enhanced Keyboar<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo  | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br>pard (Carbon) Country Key Code   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e   | 251243-B2<br>296435-xx<br>273463-B2<br>al tape drive and<br>159547-B2<br>333370-B2  |
|                            | DL360 Telco Rack<br>Enhanced Keyboar<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #  | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br>pard (Carbon) Country Key Code<br>Description  | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #   | 251243-B2<br>296435-xx<br>273463-B2<br>al tape drive and<br>159547-B2<br>333370-B2<br>Description   |
|                            | DL360 Telco Rack<br>Enhanced Keyboar<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005  | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br>pard (Carbon) Country Key Code<br>Description<br>US  | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175   | 251243-B2<br>296435-xx<br>273463-B2<br>al tape drive and<br>159547-B2<br>333370-B2<br>Description<br>Arabic   |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035   | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br>Deard (Carbon) Country Key Code<br>Description<br>US<br>UK   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185   | 251243-B2<br>296435-xx<br>273463-B2<br>333370-B2<br>333370-B2<br><b>Description</b><br>Arabic<br>Belgium  |
|                            | DL360 Telco Rack<br>Enhanced Keyboar<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005  | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br>pard (Carbon) Country Key Code<br>Description<br>US  | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175   | 251243-B2<br>296435-xx<br>273463-B2<br>al tape drive and<br>159547-B2<br>333370-B2<br>Description<br>Arabic   |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035   | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br><b>pard (Carbon) Country Key Code</b><br><b>Description</b><br>US<br>UK<br>Germany<br>France   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185   | 251243-B2<br>296435-xx<br>273463-B2<br>159547-B2<br>333370-B2<br><b>Description</b><br>Arabic<br>Belgium<br>Hungary<br>Czech  |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035<br>-045   | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br>bard (Carbon) Country Key Code<br>Description<br>US<br>UK<br>Germany   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185<br>-215   | 251243-B2<br>296435-xx<br>273463-B2<br>333370-B2<br>333370-B2<br>Description<br>Arabic<br>Belgium<br>Hungary  |
|                            | DL360 Telco Rack<br>Enhanced Keyboar<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035<br>-045<br>-055  | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br><b>pard (Carbon) Country Key Code</b><br><b>Description</b><br>US<br>UK<br>Germany<br>France   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185<br>-215<br>-225   | 251243-B2<br>296435-xx<br>273463-B2<br>333370-B2<br>333370-B2<br>Description<br>Arabic<br>Belgium<br>Hungary<br>Czech   |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035<br>-045<br>-055<br>-065   | Option Kit<br>rd (Carbon)<br>330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>350/ML310 Internal to External HD6<br>350/ML310 Internal to External VHD<br>bard (Carbon) Country Key Code<br>Description<br>US<br>UK<br>Germany<br>France<br>Italy   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185<br>-215<br>-225<br>-235   | 251243-B2<br>296435-xx<br>273463-B2<br>333370-B2<br>333370-B2<br>Description<br>Arabic<br>Belgium<br>Hungary<br>Czech<br>Slovac   |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035<br>-045<br>-055<br>-065<br>-075                                 | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br>bard (Carbon) Country Key Code<br>Description<br>US<br>UK<br>Germany<br>France<br>Italy<br>Spain   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185<br>-215<br>-225<br>-225<br>-235<br>-245                                       | 251243-B2<br>296435-xx<br>273463-B2<br>333370-B2<br>333370-B2<br><b>Description</b><br>Arabic<br>Belgium<br>Hungary<br>Czech<br>Slovac<br>Polish  |
|                            | DL360 Telco Rack<br>Enhanced Keyboar<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035<br>-045<br>-055<br>-065<br>-075<br>-085                        | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br><b>bard (Carbon) Country Key Code</b><br><b>Description</b><br>US<br>UK<br>Germany<br>France<br>Italy<br>Spain<br>Denmark  | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185<br>-215<br>-225<br>-235<br>-245<br>-255                                       | 251243-B2<br>296435-xx<br>273463-B2<br>333370-B2<br>333370-B2<br>Description<br>Arabic<br>Belgium<br>Hungary<br>Czech<br>Slovac<br>Polish<br>Russian                                    |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035<br>-045<br>-055<br>-065<br>-075<br>-085<br>-085                 | Option Kit<br>rd (Carbon)<br>330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>350/ML310 Internal to External HD6<br>350/ML310 Internal to External VHD<br>bard (Carbon) Country Key Code<br>Description<br>US<br>UK<br>Germany<br>France<br>Italy<br>Spain<br>Denmark<br>Norway   | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185<br>-215<br>-225<br>-235<br>-245<br>-245<br>-255<br>-295                       | 251243-B2<br>296435-xx<br>273463-B2<br>159547-B2<br>333370-B2<br><b>Description</b><br>Arabic<br>Belgium<br>Hungary<br>Czech<br>Slovac<br>Polish<br>Russian<br>Japan                    |
|                            | DL360 Telco Rack<br>Enhanced Keyboa<br>ProLiant ML310/ML<br>NOTE: This SCSI C<br>a SCSI Controller.<br>ProLiant ML330/ML<br>ProLaint ML330/ML<br>Enhanced Keybo<br>Dash #<br>-005<br>-035<br>-045<br>-055<br>-065<br>-075<br>-085<br>-085<br>-085<br>-105 | Option Kit<br>rd (Carbon)<br>330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>350/ML310 Internal to External HD6<br>350/ML310 Internal to External VHD<br>bard (Carbon) Country Key Code<br>Description<br>US<br>UK<br>Germany<br>France<br>Italy<br>Spain<br>Denmark<br>Norway<br>Sweden/Finland                                     | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br>e<br>Dash #<br>-175<br>-185<br>-215<br>-215<br>-225<br>-235<br>-245<br>-245<br>-255<br>-295<br>-335       | 251243-B2<br>296435-xx<br>273463-B2<br>333370-B2<br>333370-B2<br><b>Description</b><br>Arabic<br>Belgium<br>Hungary<br>Czech<br>Slovac<br>Polish<br>Russian<br>Japan<br>Dutch           |
|                            | DL360 Telco Rack  | Option Kit<br>rd (Carbon)<br>.330 G2 SCSI Cable Kit<br>Cable Kit (PN 273463-B21) is require<br>.350/ML310 Internal to External HD6<br>.350/ML310 Internal to External VHD<br><b>bard (Carbon) Country Key Code</b><br><b>Description</b><br>US<br>UK<br>Germany<br>France<br>Italy<br>Spain<br>Denmark<br>Norway<br>Sweden/Finland<br>French Canadian | 8 SCSI Cable Option Kit<br>CI SCSI Cable Option Kit<br><b>e</b><br><b>Dash #</b><br>-175<br>-185<br>-215<br>-225<br>-235<br>-245<br>-255<br>-295<br>-335<br>-355 | 251243-B2<br>296435-xx<br>273463-B2<br>333370-B2<br>333370-B2<br><b>Description</b><br>Arabic<br>Belgium<br>Hungary<br>Czech<br>Slovac<br>Polish<br>Russian<br>Japan<br>Dutch<br>Finish |



### Options

Rack Builder

Please see the Rack Builder for configuration assistance at http://www.compaq.com/rackbuilder/.

| HP Rack 10000 Series<br>(Graphite Metallic) | HP Rack S10614 (14U) Rack Cabinet – Shock Pallet  | 292302-B22 |
|---|---|------------|
|   | 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 |
|   | HP Rack 10636 (36U) – Pallet  | 245162-B21 |
|   | HP Rack 10636 (36U) – Shock Pallet  | 245162-B22 |
|   | HP Rack 10636 (36U) – Crated  | 245162-B23 |
|   | HP Rack 10622 (22U) – Pallet  | 245163-B21 |
|   | HP Rack 10622 (22U) – Shock Pallet  | 245163-B22 |
|   | HP Rack 10622 (22U) – Crated  | 245163-B23 |
|   | HP Rack 10614 (14U) – Shock Pallet  | 292303-B22 |
|   | NOTE: -B21 (pallet) used to ship empty racks shipped on a truck<br>-B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and<br>Channels)<br>-B23 (crated) used for air shipments of empty racks   |            |
|   | <b>NOTE:</b> It is mandatory to use a shock pallet in order to ship racks with equipment installed. Not all Compaq equipment is qualified to be shipped in the Rack 10000 series  |            |
|   | NOTE: Please see the Rack 10000 QuickSpecs for Technical Specifications such as height,<br>width, depth, weight, and color:<br>http://h18000.www1.hp.com/products/quickspecs/10995_div/10995_div.HTML (Worldwide)<br>http://h18000.www1.hp.com/products/quickspecs/10995_na/10995_na.HTML (North America) |            |
|   | <b>NOTE:</b> For additional information regarding Rack Cabinets, please see the following URL:<br>http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html.   |            |



| Rack Options for HP Rack<br>10000 Series | Rack Blanking Panels – Graphite (Multi)   | 253214-B26 |
|--|---|------------|
|  | NOTE: Contains one each of 1U, 2U, 4U and 8U.   |            |
|  | Rack Blanking Panels – Graphite (1U)  | 253214-B21 |
|  | NOTE: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (1U).  |            |
|  | Rack Blanking Panels – Graphite (2U)  | 253214-B22 |
|  | NOTE: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (2U).  |            |
|  | Rack Blanking Panels – Graphite (3U)  | 253214-B23 |
|  | NOTE: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (3U).  |            |
|  | Rack Blanking Panels – Graphite (4U)  | 253214-B24 |
|  | NOTE: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (4U).  |            |
|  | Rack Blanking Panels – Graphite (5U)  | 253214-B25 |
|  | NOTE: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (5U).  |            |
|  | 800mm Wide Stabilizer Kit (Graphite)  | 255488-B21 |
|  | NOTE: Supported by the Rack 10842 cabinet only.   |            |
|  | 600mm Stabilizer Kit – Graphite   | 246107-B21 |
|  | Baying Kit for Rack 10000 series (Carbon)   | 248929-B21 |
|  | 42U Side Panel – Graphite Metallic  | 246099-B21 |
|  | 110V Fan Kit (Graphite)   | 257413-B21 |
|  | NOTE: Roof Mount Includes power cord with IEC320-C13 to Nema 5-15P.   |            |
|  | 220V Fan Kit (Graphite)   | 257414-B21 |
|  | NOTE: Roof Mount Includes power cord with IEC320-C13 to Nema 6-15P.   |            |
|  | 36U Side Panel – Graphite Metallic  | 246102-B21 |
|  | 47U Side Panel – Graphite Metallic  | 255486-B21 |
|  | 9000/10000 Series Offset Baying Kit (42U)   | 248931-B21 |
|  | <b>NOTE:</b> This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks. |            |
|  | <b>NOTE:</b> For additional information regarding Rack Cabinets, please see the following URL: http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html.  |            |



### HP ProLiant ML330 Generation 3 (G3)

## QuickSpecs

| Rack Options for<br>Rack 9000 Series | Baying/Coupling Kit<br>42U Side Panel  | 120669-B21  |            |  |
|--------------------------------------|--|---|------------|--|
|                                      | <b>NOTE:</b> The 42U Side Panel (PN 120670-B21) supports the Compaq Rack 9142 and Compaq Rack 9842.  | 120670-B21  |            |  |
|                                      | 36U Side Panel   | 120671-B21  |            |  |
|                                      | <b>NOTE:</b> The 36U Side Panel (PN 120671-B21) supports the Compaq Rack 9136.   |   |            |  |
|                                      | 800mm Stabilizer Option Kit (Opal)   | 234493-B21  |            |  |
|                                      | NOTE: The 800mm Stabilizer Kit (PN 234493-B21) supports the Rack 9842 only.  |   |            |  |
|                                      | 600mm Stabilizer Option Kit  | 120673-B21  |            |  |
|                                      | 9142 Extension Kit<br>NOTE: The 9142 Extension Kit (PN 120679-B21) supports the Compaq Rack 9142 only.   | 120679-B21  |            |  |
|                                      | 9142 Split Rear Door (Opal)<br>NOTE: The 9142 Split Rear Door (PN 254045-B21) supports the 600 mm wide, 42U 9000 series rack.  | 254045-B21  |            |  |
|                                      | 9136 Extension Kit   | 218216-B21  |            |  |
|                                      | 9142 Short Rear Door<br>NOTE: The 9142 Short Rear Door (PN 218217-B21) supports the Compaq Rack 9142 only.   | 218217-B21  |            |  |
|                                      | 9136 Short Rear Door   | 218218-B21  |            |  |
|                                      | Rack Blanking Panel (Multi)<br>NOTE: Kit includes four panels in 1U, 2U, 4U, and 8U.   | 169940-B21  |            |  |
|                                      | Rack Blanking Panels (1U)<br>NOTE: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (1U).  | 189453-B21  |            |  |
|                                      | Rack Blanking Panels (2U)<br>NOTE: The Rack Blanking Panels (PN 189453-B22) contains 10 each of (2U).<br>Rack Blanking Panels (3U)<br>NOTE: The Rack Blanking Panels (PN 189453-B23) contains 10 each of (3U). |   |            |  |
|                                      |  |   |            |  |
|                                      | Rack Blanking Panels (5U)<br>NOTE: The Rack Blanking Panels (PN 189453-B25) contains 10 each of (5U).  | 189453-B25  |            |  |
|                                      |  | 9000/10000 Series Offset Baying Kit<br><b>NOTE:</b> This kit can be used to connect 9000 and 10000 series racks of the same U height<br>together. Kit contents include hardware for connecting racks and a panel to cover the 100 mm<br>gap at the rear of the two racks. | 248931-B21 |  |
|                                      | <b>NOTE:</b> For additional information regarding Rack Cabinets, please see the following URL:<br>http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html.                          |   |            |  |
| Rack Options for                     | High Air Flow Rack Door Insert for the 7122 Rack   | 157847-B21  |            |  |
| Rack 7000 Series                     | High Air Flow Rack Door Insert for the 7142 Rack (single)  | 327281-B21  |            |  |
|                                      | High Air Flow Rack Door Insert for the 7142 Rack (6-pack)  | 327281-B22  |            |  |
|                                      | Compaq Networking Cable Management Kit   | 292407-B21  |            |  |
|                                      | Compaq Rack Extension Kit for 7142   | 154392-B21  |            |  |
|                                      | <b>NOTE:</b> For additional information regarding Rack Cabinets, please see the following URL:<br>http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html.                          |   |            |  |
| Rack Options for Rack                | Monitor Utility Shelf  | 303606-B21  |            |  |
| 7000, 9000 and 10000                 | Ballast Option Kit   | 120672-B21  |            |  |
| Series                               | 100kg Sliding Shelf  | 234672-B21  |            |  |
|                                      | Rack Rail Adapter Kit (25-inch depth)  | 120675-B21  |            |  |
|                                      | Cable Management D-Rings Kit   | 168233-B21  |            |  |
|                                      | Monitor/Utility Shelf - Graphite   | 253449-B21  |            |  |



### Options

| Depth Adjustable Fixed Rail  | 332558-B21 |
|--|------------|
| Console Management Controller (CMC) Option Kit   | 203039-B21 |
| Console Management Controller (CMC) Sensors Option Kit   | 203039-B22 |
| Console Management Controller (CMC) Locking Option Kit   | 203039-B23 |
| Console Management Controller (CMC) Smoke Sensors Option Kit   | 203039-B24 |
| Server Console Switch 1 x 2 port (100 to 230 VAC)  | 120206-001 |
| Server Console Switch 1 x 2 port (100 to 230 VAC) (Int'I)  | 120206-B31 |
| Server Console Switch 1 x 2 port (100 to 230 VAC) (Japan)  | 120206-291 |
| Server Console Switch 1 x 4 port (100 to 230 VAC)  | 400336-001 |
| Server Console Switch 1 x 4 port (100 to 230 VAC) (Int'I)  | 400336-B31 |
| Server Console Switch 1 x 4 port (100 to 230 VAC) (Japan)  | 400336-291 |
| Server Console Switch 1 x 8 port (100 to 230 VAC)  | 400337-001 |
| Server Console Switch 1 x 8 port (100 to 230 VAC) (Int'I)  | 400337-B31 |
| Server Console Switch 1 x 8 port (100 to 230 VAC) (Japan)  | 400337-291 |
| Server Console Switch 2 x 8 port (100 to 230 VAC)  | 400338-001 |
| Server Console Switch 2 x 8 port (100 to 230 VAC) (Int'I)  | 400338-B31 |
| Server Console Switch 2 x 8 port (100 to 230 VAC) (Japan)  | 400338-291 |
| Server Console Switch 2 x 8 port (48 VDC)  | 400542-B21 |
| IP Console Switch Box, 1x1x16  | 262585-B21 |
| IP Console Switch Box, 3x1x16  | 262586-B21 |
| IP Console Interface Adapter, 8 pack   | 262587-B21 |
| IP Console Interface Adapter, 1 pack   | 262588-B21 |
| IP Console Expansion Module  | 262589-B21 |
| KVM 9 PIN Adapter (4 Pack)   | 149361-B21 |
| CPU to Server Console Cable, 12'   | 110936-B21 |
| CPU to Server Console Cable, 20'   | 110936-B22 |
| CPU to Server Console Cable, 40'   | 110936-B23 |
| CPU to Server Console Cable, 3'  | 110936-B24 |
| CPU to Server Console Cable, 7'  | 110936-B25 |
| IP CAT5 Cable 3', 4 pack   | 263474-B21 |
| IP CAT5 Cable 6', 8 pack   | 263474-B22 |
| IP CAT5 Cable 12', 8 pack  | 263474-B23 |
| IP CAT5 Cable 20', 4 pack  | 263474-B24 |
| IP CAT5 Cable 40', 1 pack  | 263474-B25 |
| Switch Box Connector Kit (115 V)   | 144007-001 |
| Switch Box Connector Kit (230 V)   | 144007-002 |
| Switch Box Connector Kit (High Voltage) (Int'I)  | 144007-B33 |
| Keyboard/Monitor/Mouse extension cables  | 169989-001 |
| 1U Rack Keyboard & Drawer (Carbon)   | 257054-xx1 |
| <b>NOTE:</b> The 1U Rack Keyboard & Drawer (PN 257054-xx1) is to be used with the Keyboards for Backs with Trackboll (DN 459640 ymp) |            |
| Keyboards for Racks with Trackball (PN 158649-xxx).  |            |

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                         |            |
|                    | TFT5600 Rack K  | eyboard Monitor        |  |                                       | 221546-xx1 |
|                    | Country Code I  | Key (for TFT5600 RKM F | Rack Keyboard Monitor (P                               | N 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                         |            |
|                    | PCI KVM Manage  | 232983-B21             |  |                                       |            |
|                    | PCI KVM Remote  |                        |  |                                       | 232984-B21 |
|                    | Local Access Ca   | 232985-B21             |  |                                       |            |
|                    | Input Device Adju<br><b>NOTE:</b> Input Devi<br>TFT5600RKM ar   | 287139-B21             |  |                                       |            |
|                    | Input Device Telc<br><b>NOTE:</b> Input Devi<br>TFT5600RKM ar   | 287138-B21             |  |                                       |            |
|                    | Keyboard/Monito   | 169989-001             |  |                                       |            |
|                    |   |                        | g Rack Cabinets, please s<br>rvers/proliantstorage/rac | · · · · · · · · · · · · · · · · · · · |            |
| HP Factory Express | Factory Install   | ation, Racking, and C  | ustomization Services                                  | 5                                     |            |
|                    | Factory Express   | 293355-888             |  |                                       |            |
|                    | <b>NOTE</b> : 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   | 266326-888             |  |                                       |            |
|                    | <b>NOTE</b> : 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). |                        |  |                                       |            |



| Service and Support                  | Hardware Services On-site Service  |                  |
|--------------------------------------|--|------------------|
| Offerings (HP Care Pack<br>Services) | Next Business Day On-site Service, 5-Day x 9-Hour Coverage, 3 Years (Canadian Part Number)   | FP-ELXEC-36      |
|                                      | Next Business Day On-site Service, 5-Day x 9-Hour Coverage, 3 Years (U.S. Part Number)   | 102407-002       |
|                                      | Next Business Day On-site Service, 5-Day x 9-Hour Coverage, 3 Years (AP/EMEA Part<br>Numbers)  | U4462A<br>U4462E |
|                                      | 4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years (Canadian Part Number)   | FP-EL3EC-36      |
|                                      | 4-Hour On-site Service, 5-Day x 13-Hour, 3 Years (U.S. Part Number)  | 331045-002       |
|                                      | 4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years (AP/EMEA Part Numbers)   | U4463A<br>U4463E |
|                                      | 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (Canadian Part Number)   | FP-EL7EC-36      |
|                                      | 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (U.S. Part Number)   | 162675-002       |
|                                      | 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (AP/EMEA Part Numbers)   | U4464A<br>U4464E |
|                                      | 6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years (Canadian Part<br>Number)  | FP-ELCEC-36      |
|                                      | 6-Hour Call to Repair, On-site Service 7-Day x 24-Hour Coverage, 3 Years (U.S. Part Number)  | 331046-002       |
|                                      | 6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years (AP/EMEA Part Numbers)   | U4465A<br>U4465E |
|                                      | Installation & Start-up Services   |                  |
|                                      | Hardware Installation (Canadian Part Number)   | FP-ELINS-EC      |
|                                      | Hardware Installation (U.S. Part Number)   | 401791-002       |
|                                      | Hardware Installation (AP/EMEA Part Numbers)   | U4473A<br>U4473E |
|                                      | 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)                    | 240013-002       |
|                                      | Installation & Start-Up of a ProLiant server and Microsoft O/S per the Customer Description<br>and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays.<br>(Canadian Part Number)          | FM-MSTEC-01      |
|                                      | Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer<br>Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP<br>holidays. (AP/EMEA Part Numbers) | U4474A<br>U4474E |
|                                      | Installation & Start-Up of a ProLiant server and Linux O/S per the Customer Description and/or<br>Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. (U.S. Part<br>Number)                  | 331051-002       |
|                                      | Installation & Start-Up of a ProLiant server and Linux O/S per the Customer Description and/or<br>Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. (Canadian<br>Part Number)              | FM-LSTEC-01      |
|                                      | 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)                                   | 239928-002       |
|                                      | 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-M01E1-36      |
|                                      | Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite,<br>onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays. (AP/EMEA Part<br>Numbers)                         | U4475A<br>U4475E |
|                                      | 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)                                       | 331049-002       |
|                                      | 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-L01E1-36      |
|                                      | 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. (AP/EMEA Part Numbers)                                   | U4477A<br>U4477E |



### Options

#### Support Plus 24

| Support Flus 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)  | 239930-002       |
| 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-M02E1-36      |
| 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. (AP/EMEA Part Numbers)  | U4476A<br>U4476E |
| 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)  | 331050-002       |
| 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-L02E1-36      |
| 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. (AP/EMEA Part Numbers)  | U4478A<br>U4478E |
| CarePaq Priority Services for ProLiant Servers - Priority Silver   |                  |
| 24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response,<br>Monday - Friday, 8AM - 5PM local time, 2-hr response after hours for Windows NT, Windows<br>2000, Professional, Server or Advanced Server Operating System, Technical Account Manager,<br>Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck<br>per year (2-5-2 Part Number for Canada) | FM-M04E1-36      |
| 24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)   | FM-M24E1-36      |
| 24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response,<br>Monday - Friday, 8AM - 5PM local time, 2-hr response after hours for Novell NetWare Operating<br>System, Technical Account Manager, Technical Newsletter, SW activity review (2-5-2 Part<br>Number for Canada)  | FM-N04E1-36      |
| 24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada)  | FM-N24E1-36      |
| 24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response,<br>Monday - Friday, 8AM - 5PM local time, 2-hr response after hours for Windows NT, Windows<br>2000, Professional, Server or Advanced Server Operating System, Technical Account Manager,<br>Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck<br>per year (6-3 Part Number for U.S.)     | 239932-002       |
| 24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)   | 239934-002       |
| 24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response,<br>Monday - Friday, 8AM - 5PM local time, 2-hr response after hours for Novell NetWare Operating<br>System, Technical Account Manager, Technical Newsletter, SW activity review (6-3 Part<br>Number for U.S.)  | 239972-002       |
| 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.)  | 239974-002       |
| NOTE: For more information, customer/resellers can contact<br>http://www.hp.com/services/carepack  |                  |
|  |                  |



#### Memory

#### HP ProLiant ML330 G3 Models

#### **Standard Memory**

256-MB (expandable to 4GB) of non interleaved PC2100 DDR SDRAM running at 266MHz, with Advanced ECC capabilities (1x 256MB)

#### **Standard Memory Plus Optional Memory**

Up to 3328-MB memory is available with the optional installation of PC2100 DDR SDRAM memory kits.

#### Standard Memory Replaced with Optional Memory

Up to 4096-MB memory is available with the removal of the standard 256-MB of memory and the optional installation of PC2100 DDR SDRAM DIMM memory kits.

#### NOTE: Charts do not represent all possible memory configurations.

| Men      | nory     | Slot    |         |         |         |
|----------|----------|---------|---------|---------|---------|
|          |          | 1 2 3   |         | 4       |         |
| Standard | 256 MB   | 256 MB  | Empty   | Empty   | Empty   |
| Optional | 3,328 MB | 256 MB  | 1024 MB | 1024 MB | 1024 MB |
| Maximum  | 4,096 MB | 1024 MB | 1024 MB | 1024 MB | 1024 MB |

Following are memory options available from HP:

 • 128MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 128 MB)
 287494-B21

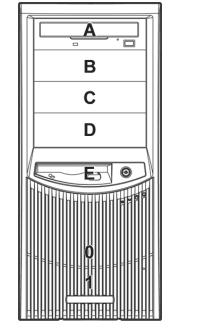
 • 256MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 256 MB)
 287495-B21

 • 512MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 512 MB)
 287496-B21

 • 1024MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 1024 MB)
 287497-B21



### Storage



A48x IDE (ATAPI) CD-ROME3.5 in. Diskette DriveB, C, DRemovable Media Bays (1.6" each)0,1Two 1" Non-Hot Plug Drive Bays

#### **Drive Support**

|                          | Quantity<br>Supported | Position<br>Supported | Controller             |
|--------------------------|-----------------------|-----------------------|------------------------|
| Removable Media          |                       |                       |                        |
| 1.44-MB Diskette Drive   | Up to 1               | E                     | Integrated             |
| IDE (ATAPI) CD-ROM Drive | Up to 2               | A, B, C, or D         | Integrated IDE (ATAPI) |
| DVD-ROM Drive Option Kit | Up to 2               | A, B, C, or D         | Integrated IDE (ATAPI) |
|                          |                       |                       |                        |



#### Storage

#### Hard Drives

Hard Drives (SCSI Models only)

Ultra320 Hot Pluggable Drives (NOTE: For use with the ML3xx Two Bay Hot Plug SCSI Drive Cage (PN 244059-B21) ONLY.)

|  | Quantity<br>Supported  | Position<br>Supported   | Controller  |
|--|--|---|---|
| 1-inch           146.8-GB 10,000 rpm           72.8-GB 10,000 rpm           36.4-GB 10,000 rpm           72.8-GB 15,000 rpm           36.4-GB 15,000 rpm           36.4-GB 15,000 rpm           18.2-GB 15,000 rpm           Ultra320 – Non-Hot Plug | Up to 2<br>(With optional<br>ML3xx Two Bay<br>Hot Plug SCSI Drive<br>Cage) | Α&Β   | Integrated Single Channel Wide Ultra3 SCSI Adapter in a PCI slot<br>Compaq RAID LC2 Controller<br>Smart Array 532 ControllerSmart Array 5302/128 Controller<br>Smart Array 641 Controller<br>Smart Array 642 Controller<br>64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter                                    |
| <u>1-inch</u><br>36.4-GB 10,000 rpm  | Up to 5  | 0, 1, A, B, C, D<br>(Using the A<br>position requires<br>the removal or<br>re-positioning of<br>CD-ROM) | Integrated Single Channel Wide Ultra3 SCSI Adapter in a PCI slot<br>Compaq RAID LC2 Controller<br>Smart Array 532 Controller<br>Smart Array 5302/128 Controller<br>Smart Array 5312 Controller<br>Smart Array 641 Controller<br>Smart Array 642 Controller<br>64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |

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

#### Hard Drives (ATA Models only)

#### ATA/100 IDE - Non-Hot Plug

| <b>1-inch</b><br>160.0-GB ( <b>NOTE</b> : 160GB<br>ATA HDDs only available for<br>large volume orders through<br>the Specials process. Please<br>contact your local product<br>manager for more<br>information.) | Up to 4 | 0, 1, A, B, C, D<br>(Using the A<br>position requires<br>the removal or<br>re-positioning of<br>CD-ROM) | Integrated Dual Channel Ultra ATA-100 Adapter with support for Integrated ATA RAID 0, 1, & 1+0 (ATA Models) |
|--|---------|---|---|
| 80.0-GB  |         |   |   |

#### **External Storage**

40.0-GB

|  | Quantity<br>Supported                                | Position<br>Supported | Controller   |
|--|--|-----------------------|--|
| StorageWorks Enclosure<br>4300 Family<br>(supports Ultra2/Ultra3<br>1"drives only) | Up to 7<br>(6 with RAID<br>protection, 1<br>without) | External              | Smart Array 532 Controller<br>Smart Array 5312 Controller<br>Smart Array 642 Controller<br>64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |
| 3U Rackmount Kit<br>5U Rackmount Kit   | Up to 2  | External              | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter  |



#### Storage

| Maximum Storage Capacity - ATA Models (SCSI Attached (StorageWorks Enclosure))                               |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Internal   | 640.0 GB (4 x 160.0 GB) (ATA only)   |  |  |  |  |  |
| External 14.386 TB (14 x 146.8 GB) x 7 (Requires additional SCSI controllers in slots)                       |  |  |  |  |  |  |
| Total  | 15.026 TB  |  |  |  |  |  |
| NOTE: 160GB ATA HDDs only information.   | <b>NOTE:</b> 160GB ATA HDDs only available for large volume orders through the Specials process. Please contact your local product manager for more information. |  |  |  |  |  |
| Maximum Storage Capacity SCSI Models (SCSI Attached (StorageWorks Enclosure) + Optional Hot Plug Drive Cage) |  |  |  |  |  |  |
| Internal   | 402.8 GB ((3 x 36.4 GB non-hot-plug hard drives) + (2 x 146.8 GB hot plug hard drives))  |  |  |  |  |  |
| External 14.386 TB (14 x 146.8 GB) x 7 (Requires additional SCSI controller in slots)                        |  |  |  |  |  |  |
| Total  | 14.789 TB  |  |  |  |  |  |

#### **Tape Drives**

**NOTE:** A SCSI controller and a SCSI cable needs to be purchased to operate internal or external SCSI devices in the ATA Models. Please see the ML330 G3 cabling matrix for more information:

ftp://ftp.compaq.com/pub/products/servers/proliantml330/ML330%20G3%20SCSI%20Cabling%20Matrix.pdf.

NOTE: The DLT vs 40/80 tape drive may only be installed in bay A or B and can not be installed together with the ML3xx two-bay hot plug drive cage.

**NOTE:** For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following: http://h18000.www1.hp.com/products/quickspecs/North\_America/10233.html (North America)

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

|   | Quantity<br>Supported  | Position<br>Supported   | Controller  |
|---|--|---|---|
| Internal AIT 35-GB IDE Tape<br>Drive  | Up to 2  | B, C, D (if installed<br>in system with CD-<br>ROM, should be<br>installed in media<br>bay below CD-<br>ROM)  | Integrated IDE (ATAPI)  |
| HP DLT vs 40/80 Tape Drive  | Up to 2  | A, B (Using the A position requires the removal or repositioning of CD-ROM; may not be installed together with the ML3xx two-bay hot plug hard drive cage). | Integrated Single Channel Wide Ultra3 SCSI Adapter in a PCI slot<br>64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |
| HP StorageWorks DAT 72<br>Tape Drive Internal<br>20/40-GB DAT DDS-4 Tape<br>Drive | Up to 2  | B, C, D   | Integrated Single Channel Wide Ultra3 SCSI Adapter in a PCI slot<br>64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |
| AIT 100-GB, Internal<br>AIT 50-GB Internal<br>AIT 35-GB, LVD Internal             | Up to 2  | C, D  | Integrated Single Channel Wide Ultra3 SCSI Adapter in a PCI slot<br>64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |
| HP StorageWorks AIT 35 GB<br>Autoloader   | Up to 1 (for a single<br>HBA)<br>Up to 2 (for a dual<br>HBA) | e External  | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter   |
| Ultrium 215, External<br>Ultrium 230, External<br>Ultrium 460, External           | Up to 2  | External  | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter   |
| SDLT 110/220-GB, External SDLT 160/320-GB, External                               | Up to 2  | External  | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter   |
| AIT 100-GB, External<br>AIT 50-GB External  | Up to 2  | External  | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter   |



### Storage

| AIT 35-GB, LVD External   |                              |          |   |
|---|------------------------------|----------|---|
| SSL2020 AIT Mini-Library  | Up to 5                      | External | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |
| MSL5026DLX (40/80GB DLT-<br>based)<br>MSL5026SL (SDLT-based)<br>Library<br>MSL5052SL (SDLT-based)<br>Library<br>MSL5052S2 (SDLT-based)<br>Library<br>MSL5030L1 (LTO-based)<br>Library<br>MSL5060L1 (LTO-based)<br>Library<br>MSL6060L1 (Ultrium 460 -<br>based) Library<br>MSL6030 (LTO Ultrium -<br>based) Library | 2 drives per SCSI<br>channel | External | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |
| 20/40-GB DAT 8 Cassette<br>Autoloader External  | Up to 1                      | External | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |
|   |                              |          |   |



### **Power Specifications**

| Part Number                                | 319640-001        |
|--|-------------------|
| Spare Kit                                  | 324714-001        |
| Operational Input Voltage Range (V<br>rms) | 90-264            |
| Frequency Range (Nominal) (Hz)             | 47 - 63 (50 / 60) |

| Nominal Input Voltage (Vrms)           | 100  | 115  | 208  | 220  | 230  | 240  |
|--|------|------|------|------|------|------|
| Max Rated Output Wattage Rating        | 300  | 300  | 300  | 300  | 300  | 300  |
| Nominal Input Current (A rms)          | 4.6  | 3.9  | 2.1  | 2.0  | 1.9  | 1.8  |
| Max Rated Input Wattage Rating (Watts) | 435  | 429  | 423  | 423  | 417  | 411  |
| Max. Rated VA (Volt-Amp)               | 458  | 451  | 445  | 445  | 439  | 433  |
| Efficiency (%)                         | 69   | 70   | 71   | 71   | 72   | 73   |
| Power Factor                           | 0.95 |      |      |      |      |      |
| Leakage Current (mA)                   | 0.70 | 0.81 | 1.47 | 1.55 | 1.62 | 1.69 |
| Maximum Inrush Current (A peak)        | 42   | 48   | 81   | 92   | 96   | 100  |
| Maximum Inrush Current duration (mS)   |      |      | 2    | 2    |      |      |

#### **System Specifications**

|  | Processor                | Memory | HDD  | PCI  | PS   |      |
|--|--------------------------|--------|--|--|------|------|
| ML330 G3 Fully Configured                                | 2                        | 4      | 5  | 4  | 1    |      |
| Fully Loaded System Input Wattage (W)                    | 425                      | 419    | 413  | 413  | 408  | 402  |
| Fully Loaded System Input Current (A rms)                | 4.5                      | 3.8    | 2.1  | 2.0  | 1.9  | 1.8  |
| Fully Loaded System Thermal (BTU-Hr)                     | 1450                     | 1429   | 1409                                       | 1409                                       | 1390 | 1371 |
| Fully Loaded System VA (Volt-Amp)                        | 448                      | 441    | 435  | 435  | 429  | 423  |
| System Leakage with all power supplies loaded (mA)       | 0.70                     | 0.81   | 1.47                                       | 1.55                                       | 1.62 | 1.69 |
| System Inrush Current with all power supplies loaded (A) | 42                       | 48     | 87   | 92   | 96   | 100  |
| Power cord requirements                                  | Nema 5-15P to IEC320-C13 |        | Option no./Spare no: 227099-001/187335-001 |  |      |      |
|  | IEC320-C13 to IEC320-C14 |        |  | Option no./Spare no: 142257-001/142258-B21 |      |      |

Example of real input watts consumed versus rated watts consumed is available via the online tool located at url: http://inline.compaq.com/pg/ecg/issd/power/psupply.asp

select system calculator for one of the systems and reference the green fields at the bottom of the calculator.

#### NOTES:

\* To review typical system power ratings use the Active Answers Power Calculator which is available via the online tool located at URL: http://h30099.www3.hp.com/configurator/powercalcs.asp.

To drill down to calculators:

- Click on: "ProLiant Servers"
- Click on the Server of interest. Example: ML330 G3

- Click on: "Power Calculator" link (You may need to scroll down to see it.)



### **Power Specifications**

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



### TechSpecs

| System Unit | Dimensions (HxWxD)                       | 16.8 x 7.5 x 20.25 in (41.91 x 19.05 x 51.44 cm)   |                                |  |  |  |
|-------------|--|--|--------------------------------|--|--|--|
|             | (with feet)                              | 10 lb (10 10 kg)   |                                |  |  |  |
|             | Weight                                   | 40 lb (18.18 kg)   |                                |  |  |  |
|             | Input Requirements<br>(per power supply) | Range Input Voltage  | 100 to 199 VAC/200 to 240 VAC  |  |  |  |
|             |  | Normal Line Voltage  | 115 to 230 VAC                 |  |  |  |
|             | Line Frequency                           | 50 to 60 Hz  |                                |  |  |  |
|             | Rated Input Current                      | <6A 100VAC to 199VAC   |                                |  |  |  |
|             |  | <3A 200VAC to 240VAC   |                                |  |  |  |
|             | BTU Rating                               | 1,560 BTU  |                                |  |  |  |
|             | SCSI Connectors                          | One internal HD68 connector  | s                              |  |  |  |
|             |  | <b>NOTE:</b> Support for either one internal, or one external is available. Internal cabling is included with the server. External SCSI cabling from the integrated SCSI controller is achieved using an internal to external SCSI cable option kit (PN 159547-B22 or 333370-B21). |                                |  |  |  |
|             | Power Supply Output                      | Rated Steady-State Power   | 300W                           |  |  |  |
|             | Power<br>(per power supply)              | Maximum Peak Power   | 400W                           |  |  |  |
|             | Temperature Range                        | Operating  | 50° to 93° F (10° to 35° C)    |  |  |  |
|             |  | Shipping   | -40° to 150° F (-40° to 66° C) |  |  |  |
|             | Relative Humidity                        | Operating  | 20% to 80%                     |  |  |  |
|             | (non-condensing)                         | Non-operating  | 5% to 90%                      |  |  |  |
|             | Acoustic Noise                           | ldle<br>(Fixed Disk Drives Spinning)   |                                |  |  |  |
|             |  | L WAd (BELS)   | 5.1                            |  |  |  |
|             |  | L pAm (dBA)  | 34                             |  |  |  |
|             |  | Operating<br>(Random Seeks to Fixed<br>Disks)  |                                |  |  |  |
|             |  | L WAd (BELS)   | 5.5                            |  |  |  |
|             |  | L pAm (dBA)  | 38                             |  |  |  |



### TechSpecs

| 1.44-MB Diskette Drive    | Diskette Size  | 3.5 in (8.89 cm)                          |                             |            |
|---------------------------|--|---|-----------------------------|------------|
|                           | LED Indicators<br>(front panel)                        | Green                                     |                             |            |
|                           | Read/Write Capacity per<br>Diskette (high/low density) | 1.44 MB/720 KB                            |                             |            |
|                           | Drive Supported  | One                                       |                             |            |
|                           | Drive Height   | One-third                                 |                             |            |
|                           | Drive Rotation   | 300 rpm                                   |                             |            |
|                           | <b>Transfer Rate</b><br>(high/low)                     | 500 K/250 K bits/s                        |                             |            |
|                           | Bytes/Sector   | 512                                       |                             |            |
|                           | Sectors/Track (high/low)                               | 18/9                                      |                             |            |
|                           | Tracks/Side (high/low)                                 | 80/80                                     |                             |            |
|                           | Access Times   | Track-to-Track (high/low)                 | 3/6 ms                      |            |
|                           |  | Average (high/low)                        | 169/94 ms                   |            |
|                           |  | Settling Time                             | 15 ms                       |            |
|                           |  | Latency Average                           | 100 ms                      |            |
|                           | Cylinders (high/low)                                   | 80/80                                     |                             |            |
|                           | Read/Write Heads                                       | Two                                       |                             |            |
| Non-Hot Plug Wide         | 36.4 GB 10K  | Capacity                                  | 36,419.2 MB                 |            |
| Ultra320 SCSI Hard Drives | 271832-B21   | Height                                    | 1 in (2.54 cm)              |            |
|                           |  | Width                                     | 4 in (10.16 cm)             |            |
|                           |  | Interface                                 | Wide Ultra320 SCSI          |            |
|                           |  | Transfer Rate<br>Synchronous<br>(Maximum) | 320 MB/s                    |            |
|                           |  | Seek Time (typical reads,                 | Single Track                | 0.7 ms     |
|                           |  | including settling)                       | Average                     | 5.4 ms     |
|                           |  |   | Full-Stroke                 | 11 ms      |
|                           |  |   | Rotational Speed            | 10,000 rpm |
|                           |  | Physical Configuration                    | Bytes/Sector                | 512        |
|                           |  |   | Logical Blocks              | 71,132,000 |
|                           |  | Operating Temperature                     | 50° to 95° F (10° to 35° C) |            |
|                           |  |   |                             |            |



### TechSpecs

| 48X Max IDE<br>CD-ROM Drive                     | Disk                    | Applicable Disk          | CD-ROM (modes 1 and 2); mixed mode (audio and data combined) |
|---|-------------------------|--------------------------|--|
|   |                         |                          | CD-DA  |
|   |                         |                          | Photo CD (Single- and Multi-session)                         |
|   |                         |                          | CD-XA (mode 2, forms 1 and 2)                                |
|   |                         |                          | CDI ready ; CD-WO  |
|   |                         | Capacity                 | 650 MB   |
|   | Block Size              | Mode 1                   | 2,048 bytes, 1024 bytes                                      |
|   |                         | Mode 2                   | 2,340 bytes, 2,336 bytes, 1024 bytes                         |
|   |                         | CD-DA                    | 2,352 bytes  |
|   |                         | CD-XA                    | 2,328 bytes  |
|   | Interface               | IDE (ATAPI)              | _, ,   |
|   | Access Times (typical)  | Random                   | <100 ms  |
|   |                         | Full-Stroke              | <150 ms  |
|   | Audio Output Level      | Line-Out                 | 0.7 VRMS at 47 kOhms   |
|   | Data Transfer Rate      | Sustained                | 150 KB/s (single), 1,500 to 7,200 KBps<br>(10x to 48x)       |
|   |                         | Burst                    | 150 KB/s to 7,200 KB/s                                       |
|   | Cache Buffer            | 128 KB                   |  |
|   | Start-up Time (typical) | <7seconds                |  |
|   | Stop Time               | <4seconds                |  |
|   | Laser Parameters        | Туре                     | Semiconductor Laser GaA1As                                   |
|   |                         | Wave Length              | $780 \pm 25 \text{ nm}$                                      |
|   | Operating Conditions    | Temperature              | 41° to 113° F (5° to 45° C)                                  |
|   | operaning containence   | Humidity                 | 10% to 80%   |
|   | Dimensions              | (HxWxD, maximum)         | 1.7 x 5.85 x 8.11 in (42.9 x 150 x 208 cm)                   |
|   |                         | Weight                   | 2.09 lb (0.95 kg)  |
| NC7760 PCI Cigabit Server                       | Notwork Interface       | 10Base-T/100Base-TX/1000 | Pose TY  |
| NC7760 PCI Gigabit Server<br>Adapter (embedded) |                         | IEEE 802.3 10Base-T      | Dase-1A  |
| • ( )   | Compatibility           | IEEE 802.3ab 1000Base-T  |  |
|   |                         | IEEE 80.3u 100Base-TX    |  |
|   | Data Transfer Method    | 32-bit bus-master PCI    |  |
|   | Network Transfer Rate   | 10Base-T (Half-Duplex)   | 10 Mb/s  |
|   | Network fransier Rate   | 10Base-T (Full-Duplex)   | 20 Mb/s  |
|   |                         | ,                        | 100 Mb/s   |
|   |                         | 100Base-TX (Half-Duplex) | 200 Mb/s   |
|   |                         | 100Base-TX (Full-Duplex) | 200 Mb/s<br>1000Mb/s   |
|   | Connector               | 1000Base-TX              | 1000100/5  |
|   | Connector               | RJ-45                    |  |
|   | Cable Support           | 10Base-T                 | Categories 3, 4 or 5 UTP; up to 328 ft (100 m)               |
|   |                         | 10/100/1000Base-TX       | Category 5 UTP; up to 328 ft (100 m)                         |



### **TechSpecs**

| Integrated Single Channel | Drives Supported                            | Up to 14 SCSI devices Wide Ultra320, Wide Ultra3 and Wide Ultra2 SCSI hard drives  |  |  |  |  |
|---------------------------|---|--|--|--|--|--|
| Wide Ultra3 SCSI Adapter  | Data Transfer Method                        | 64-bit/33-MHz PCI bus-master   |  |  |  |  |
| in PCI Slot 1             | SCSI Channel Transfer<br>Rate               | 160 MB/s per channel   |  |  |  |  |
|                           | Maximum Transfer Rate<br>per PCI Bus (peak) | 267 MB/s per channel   |  |  |  |  |
|                           | SCSI Protocols                              | Wide Ultra 3 SCSI and Wide Ultra2 SCSI   |  |  |  |  |
|                           | Electrical Protocol                         | Low Voltage Differential (LVD)   |  |  |  |  |
|                           | SCSI Termination                            | Active Termination   |  |  |  |  |
|                           | External SCSI Connectors                    | External SCSI cabling from the integrated SCSI controller is achieved using an internal to external SCSI cable option kit (PN 159547-B22 or 333370-B21). |  |  |  |  |
|                           | Internal SCSI Connectors                    | One 68-Pin Wide Ultra SCSI-3 connectors  |  |  |  |  |
|                           |   |  |  |  |  |  |
| Video Controlle           | Controller Chip                             | ATI RAGE XL  |  |  |  |  |
|                           | Video DRAM                                  | 8 MB Video SDRAM   |  |  |  |  |
|                           | Data Transfer Method                        | 32-bit PCI   |  |  |  |  |
|                           | Support Resolution                          | Supported Color Depths:  |  |  |  |  |
|                           | 640 x 480                                   | 16.7M, 64K, 256, 16  |  |  |  |  |
|                           | 800 x 600                                   | 16.7M, 64K, 256, 16  |  |  |  |  |
|                           | 1024 x 768                                  | 16.7M, 64K, 256, 16  |  |  |  |  |
|                           | 1152 x 864                                  | 16.7M, 64K, 256, 16  |  |  |  |  |
|                           | 1280 x 1024                                 | 16.7M, 64K, 256, 16  |  |  |  |  |
|                           | 1600 x 1200                                 | 64K, 256, 16   |  |  |  |  |
|                           | Connector                                   | VGA  |  |  |  |  |

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