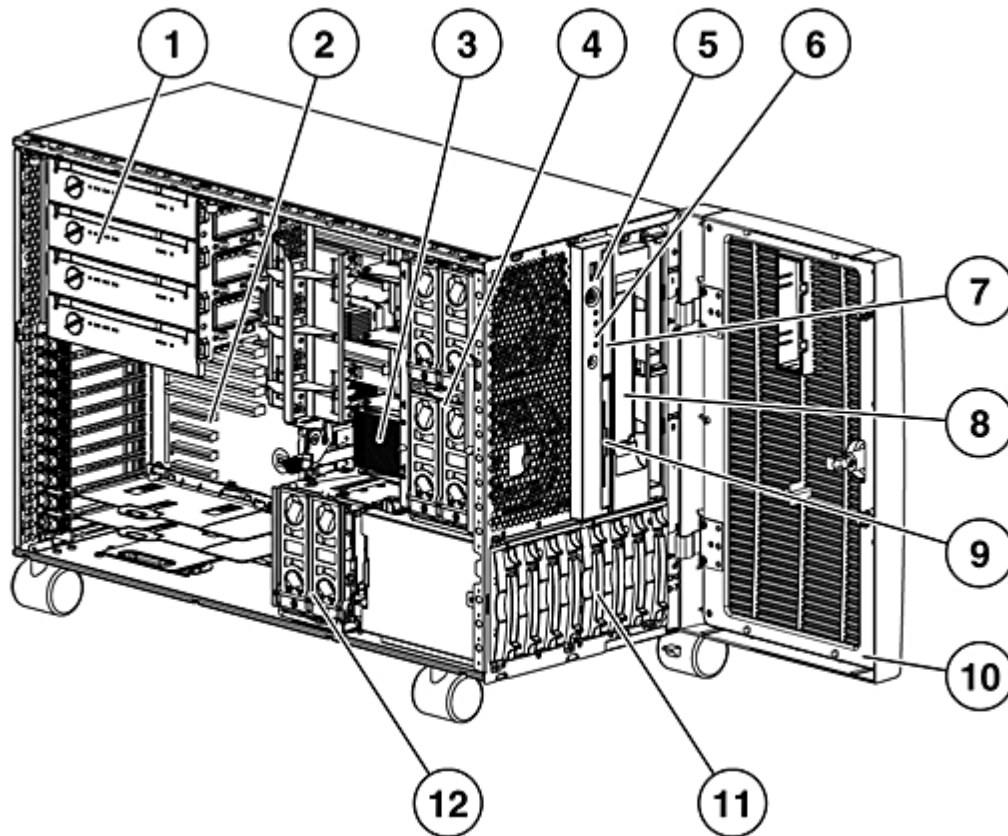


Overview

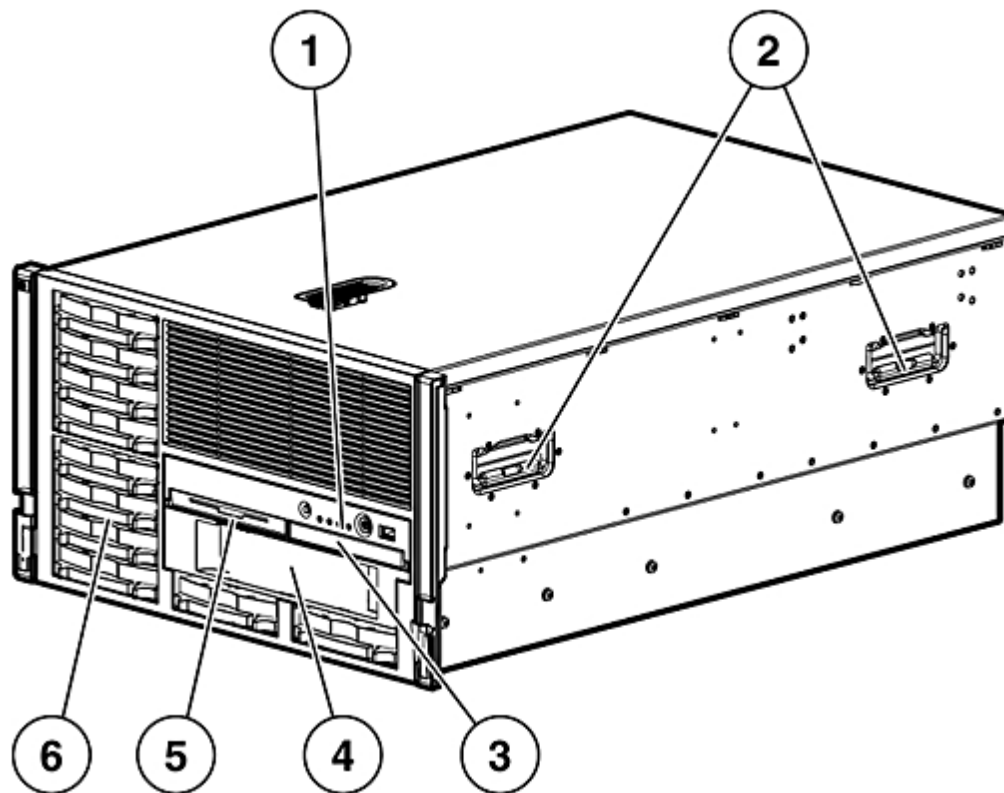
HP ProLiant ML570 Generation 3 (G3)



1. Four Memory Boards
2. Ten PCI slots
3. Four Intel Xeon Processors
4. Four Hot Plug Fans
5. USB (on front)
6. Front Panel LEDs - Diagnostic Lighting

7. High Speed IDE Slimline DVD Drive
8. 5.25-inch Removable Media Bay (optional)
9. 1.44-MB Diskette Drive (optional)
10. Front Bezel
11. Wide Ultra320 Hot Plug Drive Bays (8+2 x1" Standard)
12. Two Hot Plug Fans

Overview



1. Front Panel LEDs - Diagnostic Lighting
2. Rack handles
3. High Speed IDE Slimline DVD Drive
4. 5.25-inch Removable Media Bay (optional)
5. 1.44-MB Diskette Drive (optional)
6. 1" Ultra320 Hot Plug Drive Bays (8+2 Standard)

At A Glance

- New Intel® Xeon MP Processors 3.33GHz/8MB, 3.00GHz/8MB, 2.83GHz/4MB, 3.66GHz/1MB or 3.16 GHz/1MB with Intel® E8500 chipset
- 667MHz dual independent front-side bus
- Denser form factor - 6U rack and tower models
- Maximum 48GB of 2-way interleaved PC2-3200R 400MHz DDR-II memory with Advanced ECC capabilities; 1 GB (2 x 512 MB) standard, 2GB (4 x 512 MB) standard on rack optimized 8MB models
- Powerful Integrated Lights-Out remote management technology embedded as well as support for iLO Shared Network Port, which enables access to the iLO management processor through one of the embedded system NICs
- Embedded NC7782 Dual Port PCI-X 10/100/1000 Gigabit NIC
- Advanced Memory Protection now including Hot-plug RAID Memory
- Up-front USB port
- Tool-free, spring loaded snap-on slide rails designed to accommodate both round and square hole racks
- Four 64-bit/100 MHz PCI-X slots, two full length and two half length
- Two, full length 64-bit/133 MHz PCI-X slots, Hot Pluggable
- Four, full length x4 PCI-Express slots
- Integrated Dual Channel Ultra320 SCSI Adapter
- Ultra320 compatible SCSI Drive Cage standard (standard duplex backplane 8+2)
- Internal mass storage capacity up to 3.00 TB (8 x 300 GB + 2 x 300 GB 1" hot plug drives)
- Integrated Remote Console and Automatic Server Recovery-2 (ASR-2)
- Optional hot plug redundant power supplies and cooling fans (On rack optimized 8MB models, hot plug redundant fans and

Overview

power supplies standard)

- Industry-standard PCI Hot Plug with Push Button Functionality
- Protected by a global, three-year, on-site limited warranty with next business day response, and extended Pre-Failure Warranty, which covers processors, memory and disk drives, as well as a wide range of HP Services - Certain restrictions and exclusions apply.

Standard Features

| | |
|--|---|
| Processor One of the following depending on Model: | Intel Xeon Processor MP at 3.33 GHz\8MB Intel Xeon Processor MP at 3.00 GHz\8MB Intel Xeon Processor MP at 2.83 GHz\4MB Intel Xeon Processor MP at 3.66 GHz\1MB Intel Xeon Processor MP at 3.16 GHz\1MB NOTE: Rack-optimized 8MB cache models ship standard with two processors while all other models ship with one processor as standard. |
|--|---|

| | |
|---|---|
| Cache Memory One of the following depending on Model: | 8-MB Integrated Level 3 cache (per processor) NOTE: Available with 3.33 GHz, 3.00 GHz models only. 4-MB Integrated Level 3 cache NOTE: 2.83 GHz Model only. 1-MB Integrated Level 2 cache NOTE: 3.66 GHz, 3.16 GHz Models only. |
|---|---|

| | |
|----------------------|-------------------------------|
| Upgradability | Upgradable to quad processing |
|----------------------|-------------------------------|

| | |
|----------------|--|
| Chipset | Intel® E8500 chipset NOTE: For more information regarding Intel chipsets, please see the following URL: http://www.intel.com/products/server/chipsets/ . |
|----------------|--|

| | |
|--------------------------|---|
| Memory Protection | Advanced ECC Hot-Plug RAID Memory Hot-Plug Mirrored Memory Online Spare Memory |
|--------------------------|---|

| | | |
|---------------|--|--|
| Memory | Type | PC2-3200R MHz Registered ECC SDRAM DIMM Memory |
| | Standard (rack optimized 8MB models) | 2048 MB (2 x 1024 MB) |
| | Standard (base models) | 1024 MB (4 x 512 MB) |
| | Maximum | 48 GB |
| | NOTE: For more information regarding Advanced Memory Protection, please see the following URL: http://h18000.www1.hp.com/products/servers/technology/memoryprotection.html . | |

| | |
|---------------------------|--|
| Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
|---------------------------|--|

Standard Features

| Expansion Slots | Slot Number | Bus Speed | Bus Number* | Device Number** | Hot Plug | PCI Voltage | Notes |
|-----------------|-------------|------------------------|-------------|-----------------|----------|-------------|-------------------------|
| | 1 | 64-bit/100MHz PCI-X | 7 | 1 | no | 3.3 Volt | |
| | 2 | 64-bit/100MHz PCI-X | 7 | 2 | no | 3.3 Volt | |
| | 3 | 64-bit/100MHz PCI-X | 3 | 1 | no | 3.3 Volt | |
| | 4 | 64-bit/100MHz PCI-X | 3 | 2 | no | 3.3 Volt | Supported RILOE slot |
| | 5 | PCI Express x4 | 11 | 1 | no | N/A | |
| | 6 | PCI Express x4 | 14 | 1 | no | N/A | |
| | 7 | PCI Express x4 | 17 | 1 | no | N/A | |
| | 8 | PCI Express x4 | 20 | 1 | no | N/A | |
| | 9 | 64-bit/133MHz PCI-X | 27 | 1 | yes | 3.3 Volt | |
| | 10 | 64-bit/133MHz PCI-X | 24 | 1 | yes | 3.3 Volt | |

NOTES:

*Default bus assignment. Inserting cards with PCI bridges may alter the actual bus assignment number.

**Slots are enumerated differently based on OS. MS OS's enumerate from lowest to highest Device ID by bus (starting with the lowest bus).

NOTE: For more information regarding PCI-X, please see the following URL: <http://www.HP.com/pci-x>.

NOTE: All PCI-X slots can only accept universal keyed PCI cards running at 3.3 volts.

NOTE: x8 PCI-Express cards are supported in all PCI-Express slots but will run at x4 speeds.

Storage Controllers Integrated Dual Channel Ultra320 SCSI Adapter

Storage

| | |
|-----------------|---|
| Diskette Drives | 1.44 MB Slimline Drive (optional) |
| Optical Drive | 8x/24x IDE (ATAPI) Slimline DVD-ROM Drive |
| Hard Drives | None |

Maximum Internal Storage Type Hot Plug SCSI 3.0 TB 8 x 300 GB + 2 x 300 GB 1" Ultra320

Standard Features

| | | |
|----------------|--|---|
| Interfaces | Parallel | 1 |
| | Serial | 1 |
| | Pointing Device (Mouse) | 1 |
| | Graphics | 1 |
| | Keyboard | 1 |
| | iLO | 1 |
| | Front USB Port | 1 |
| | NOTE: Please see the following URL for additional information regarding USB support: http://h18004.www1.hp.com/products/servers/platforms/usb-support.html | |
| Rear USB Ports | 2 | |
| | NOTE: Please see the following URL for additional information regarding USB support: http://h18004.www1.hp.com/products/servers/platforms/usb-support.html | |
| Network RJ-45 | 2 | |
| External SCSI | 1 | |

| | |
|----------|---|
| Graphics | Integrated ATI RAGE XL Video Controller with 8MB Video Memory |
|----------|---|

| | |
|-------------|--------------------|
| Form Factor | Tower or Rack (6U) |
|-------------|--------------------|

| | |
|--------------|--|
| Product Demo | To view the Product Demo, please see the following URL, then click on "PRODUCT TOUR": http://h18004.www1.hp.com/products/servers/proliantml570/index.html . |
|--------------|--|

| | | |
|--|----------------------------|--|
| ProLiant Essentials Foundation Pack Software | HP Systems Insight Manager | HP's new HP Systems Insight Manager (HP SIM) helps maximize system uptime and performance and reduce system maintenance costs by providing proactive notification of problems before those problems result in unplanned downtime or reduced productivity. HP SIM are both easy to set up work with the Insight Management Agents, integrated Light-Out and Remote Insight Light-Outs Edition, and Version Control Agents to deliver robust fault, configuration, and asset management as well as remote administration. With HP SIM customers will also be able to take advantage of role-based security; the ability to manage ProLiant, Integrity, and HP 9000 systems; and plug-ins for storage, client, printer, and power management as well as server rapid deployment, performance management, and workload management. For more details on HP HP SIM visit http://www.hp.com/go/hpsim . |
| | SmartStart | SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart Web site at http://www.hp.com/servers/smartstart . SmartStart version supported (minimum): SmartStart 7.20. |

Standard Features

| | |
|---|---|
| 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 Systems Insight Manager and other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management products from HP, please visit the management Web site at http://www.hp.com/servers/manage . |
| Subscriber's Choice | Subscriber's Choice Driver and Support Alerts/Notifications is a web-based email subscription service that provides automatic delivery of software and driver change notifications for ProLiant products. Sign up at http://www.hp.com/go/subscriberschoice and customize your profile to receive various new alerts as they become available, on a weekly or monthly basis. |
| ROMPaq, support software, and configuration utilities | The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options available in SmartStart or downloadable from Software and Drivers download pages, linked from the SmartStart website at http://www.hp.com/servers/smartstart . |
| Survey Utility and diagnostics utilities | The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips, available in SmartStart. |
| Optional ProLiant Essentials Value Packs | Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: <ul style="list-style-type: none">• Rapid Deployment Pack - an automated solution for multi-server deployment and provisioning, enabling companies to quickly and easily adapt to changing business demands.• Workload Management Pack - provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server.• Integrated Lights-Out Advanced Pack - upgrades the Integrated Lights-Out processor to full virtual presence and control with graphical console and virtual media.• Performance Management Pack - a performance management solution that identifies and explains hardware performance bottlenecks on ProLiant servers and attached options enabling users to better utilize their valuable resources.• Intelligent Networking Pack - detects and analyzes network bottlenecks or broken network linkages and steers traffic to the optimum route based on network conditions |

NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to <http://www.hp.com/servers/proliantessentials> or the various ProLiant Essentials Value Pack product QuickSpecs for more information.

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

Standard Features

Industry Standard Compliance

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

Availability

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

- Advanced ECC Memory

ECC protection provides the ability to detect and correct single bit memory errors while Advanced ECC extends this coverage to include protection against multiple simultaneous errors on a DIMM. Advanced ECC detects and corrects up to 4 bit memory errors that occur within a single DRAM chip on a DIMM. Advanced ECC algorithms work in combination with industry standard ECC DIMMS.

Advanced Memory Protection Configurations

- Online Spare Memory

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

- Hot Plug Mirrored Memory

Hot Plug Mirrored Memory is a fault-tolerant memory feature that provides a higher level of availability than Advanced ECC or Online Spare Memory because it protects against multi-bit errors and does not require any server downtime to replace failed DIMMs. Hot Plug Mirrored Memory requires that two memory boards be installed, one an exact mirror of the other, which run in parallel and provide protection against multi-bit memory errors. When configured for Hot Plug Mirrored Memory, the system writes to both memory boards, but reads from one. If a read error occurs, the system fails over to the redundant memory board. At that point the memory board containing the failed DIMMs can be hot replaced. Once the failed DIMMs are replaced and the memory board re-installed into the server, the system goes back to full mirrored status. All this occurs without bringing the server down.

- Hot Plug RAID Memory

Hot Plug RAID Memory (RAID Memory) provides a similar level of memory protection as Mirrored Memory but obtains this protection using less total memory. For example, in a RAID Memory configuration, 25% of the installed memory is not available to the operating system. In a Mirrored Memory configuration, however, 50% of the installed memory is not available to the operating system. RAID Memory protects the server against uncorrectable memory errors that would otherwise result in a server failure.

NOTE: All Advanced Memory Protection modes require the use of additional memory cards. All HP ProLiant ML570 G3 servers ship standard with a single memory board. Additional memory boards are optional (P/N 348107-B21).

NOTE: All Advanced Memory Protection modes are user configurable through the ROM-Based Setup Utility (RBSU) and viewable through Systems Insight Manager and the Integrated Management Log (IML).

Standard Features

Remote Management

Integrated Lights-Out (iLO) Standard Management

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

Intelligent Manageability

HP Systems Insight Manager
SmartStart
Redundant ROM
Remote Flash ROM
Management Agent
Integrated Management Log
Automatic Server Recovery (ASR)
Dynamic Sector Repairing (with Smart Array Controllers)
Drive Parameter Tracking (with Smart Array Controllers)
Pre-Failure Warranty (covers processors, hard drives and memory)

Security

Power-on password
Hot plug keyboard password
Diskette drive control
Diskette boot control
QuickLock, Network Server Mode
Parallel and serial interface control
Administrator's password
Disk configuration lock
Locking tower bezel door
Lockable access hood

Server Power Cords

Tower Models

- -001US, -011AUS, -031UK, -041GR, -051FR, -291JPN, -371AP, -421EURO, -AA1PRC, -201 BRZL (only bottom 3 bins)
- US, Europe, UK, Germany, France, Brazil, Japan, and Australia tower models ship with one local power cord. Asia Pacific tower model ships with Japan, UK, and Europe power cords. PRC tower model ships with Japan, UK, and Australian power cords.

Rack Models

- -001US, -291JPN, -371AP, -421EURO, -AA1PRC
- US and Japan rack models ship with one local power cord and one C19 to C14 jumper cable. Asia Pacific, Europe and PRC rack models ship with one C19 to C14 jumper cable.

Power Supply

One 910W/1300W Hot Plug Power Supply ships standard on all Tower Models and on 1P Rack Models. Second power supply is needed for redundancy.

Two 910W/1300W Hot Plug Power Supplies ship standard with rack optimized 8MB models.

Standard Features

| | |
|------------------|---|
| System Fans | Three fans ship standard with three additional option fans for redundancy NOTE: Rack optimized 8MB models ship standard with redundant fans. |
| Required Cabling | For required cabling information, refer to the Web site at http://h18000.www1.hp.com/products/servers/ProLiantml570/ . |
| OS Support | Microsoft Windows 2003 Server Microsoft Windows 2000 Server Red Hat Enterprise Linux SuSE Enterprise Linux Novell NetWare SCO OpenServer, UnixWare Sun Solaris Intel Platform Edition NOTE: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix at: http://www.hp.com/go/supportos . NOTE: For a listing of the latest drivers available for the HP ProLiant ML570 G3, please see: http://h18023.www1.hp.com/support/files/server/us/index.html . NOTE: For a more complete and up-to-date information on Linux support, please visit HP Linux website at http://h18000.www1.hp.com/products/servers/linux/hpLinuxcert.html . NOTE: For more complete and up-to-date information on how to buy server operating systems from HP please visit the OS product site at: http://h18004.www1.hp.com/products/servers/software/OEM.html |

Rack Airflow Requirements

Rack 10000 series Cabinets

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- **Front and rear doors:** If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- **Side:** The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

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

NOTE: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: <http://h18000.www1.hp.com/products/servers/ProLiantml570/index.html>.

Rack Kit

HP ProLiant ML570 G3 rack models have universal sliding rails which provide tool-free support for square and round hole racks (including Compaq/HP 7000, 9000, 10000, HP/E series and H9 series) with an adjustment range from 23 3/4" to 36" depth. The snap-on cable management arm is now ambidextrous.

Standard Features

HP Factory Express Capabilities

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSA1000, VA7xxx, EVA3000 & EVA5000, XP, rackable tape libraries and configurable network switches.

For more information on how to order please contact your sales representative or go to <http://www.hp.com/go/factory-express>.

Service and Support

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

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

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

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

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

HP Care Pack services include coverage for the HP branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as 22" and smaller external monitors and tower UPS options up to 3kVA; these items will be covered at the same service level and for the same coverage period as the server. Coverage of UPS Battery is not included, standard warranty terms & conditions apply. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack.

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

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

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

Models

| | | |
|---|---------------------------|--|
| ML570R03 X3.33-8MB, 2048MB (2P) 348140-xx1 | Processor | (2) Intel Xeon Processors MP 3.33 GHz standard (up to four supported) |
| | Cache Memory | 8-MB Integrated Level 3 Cache |
| | Memory | 2048 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum (with optional hard drives) |
| | Power Supplies | Two 910W/1300W Power Supplies standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| Form Factor | Rack (6U) | |

| | | |
|---|---------------------------|--|
| ML570R03 X3.00-8MB, 2048MB (2P) 348138-xx1 | Processor | (2) Intel Xeon Processors MP 3.00 GHz standard (up to four supported) |
| | Cache Memory | 8-MB Integrated Level 3 Cache |
| | Memory | 2048 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum (with optional hard drives) |
| | Power Supplies | Two 910W/1300W Power Supplies standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| Form Factor | Rack (6U) | |

Models

| | | |
|--|--------------------|--|
| ML570R03 X2.83-4MB, 1024MB (1P) 348135-xx1 | Processor | (1) Intel Xeon Processor MP 2.83 GHz standard (up to four supported) |
| | Cache Memory | 4-MB Integrated Level 3 Cache |
| | Memory | 1024 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum |
| | Power Supplies | One 910W/1300W Power Supply standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| Form Factor | Rack (6U) | |

| | | |
|--|--------------------|--|
| ML570R03 X3.66-1MB, 1024MB (1P) 385943-xx1 | Processor | (1) Intel Xeon Processor MP 3.66 GHz standard (up to four supported) |
| | Cache Memory | 1-MB Integrated Level 2 Cache |
| | Memory | 1024 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum |
| | Power Supplies | One 910W/1300W Power Supply standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| Form Factor | Rack (6U) | |

Models

| | | |
|--|--------------------|--|
| ML570R03 X3.16-1MB, 1024MB (1P) 375367-xx1 | Processor | (1) Intel Xeon Processor MP 3.16 GHz standard (up to four supported) |
| | Cache Memory | 1-MB Integrated Level 2 Cache |
| | Memory | 1024 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum |
| | Power Supplies | One 910W/1300W Power Supply standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| Form Factor | Rack (6U) | |

| | | |
|--|--------------------|--|
| ML570T03 X3.33-8MB, 1024MB (1P) 348139-xx1 | Processor | (1) Intel Xeon Processor MP 3.33 GHz standard (up to four supported) |
| | Cache Memory | 8-MB Integrated Level 3 Cache |
| | Memory | 1024 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum |
| | Power Supplies | One 910W/1300W Power Supply standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| Form Factor | Tower | |

Models

| | | |
|--|--------------------|--|
| ML570T03 X3.00-8MB, 1024MB (1P) 348137-xx1 | Processor | (1) Intel Xeon Processor MP 3.00 GHz standard (up to four supported) |
| | Cache Memory | 8-MB Integrated Level 3 Cache |
| | Memory | 1024 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum |
| | Power Supplies | One 910W/1300W Power Supply standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| Form Factor | Tower | |

| | | |
|--|--------------------|--|
| ML570T03 X2.83-4MB, 1024MB (1P) 348134-xx1 | Processor | (1) Intel Xeon Processor MP 2.83 GHz standard (up to four supported) |
| | Cache Memory | 4-MB Integrated Level 3 Cache |
| | Memory | 1024 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum |
| | Power Supplies | One 910W/1300W Power Supply standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| Form Factor | Tower | |

Models

| | | |
|--|--------------------|--|
| ML570T03 X3.66-1MB, 1024MB (1P) 385942-xx1 | Processor | (1) Intel Xeon Processor MP 3.66 GHz standard (up to four supported) |
| | Cache Memory | 1-MB Integrated Level 2 Cache |
| | Memory | 1024 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum |
| | Power Supplies | One 910W/1300W Power Supply standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| | Form Factor | Tower |

| | | |
|--|--------------------|--|
| ML570T03 X3.16-1MB, 1024MB (1P) 375366-xx1 | Processor | (1) Intel Xeon Processor MP 3.16 GHz standard (up to four supported) |
| | Cache Memory | 1-MB Integrated Level 2 Cache |
| | Memory | 1024 MB PC2-3200R registered ECC SDRAM (Standard) to 48 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) NOTE: Four memory boards would be required to configure up to 48 GB using 2 GB DIMMs. |
| | Network Controller | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter |
| | Storage Controller | Integrated Dual Channel Ultra320 SCSI Adapter |
| | Hard Drive | None ship standard |
| | Internal Storage | 3.00 TB maximum |
| | Power Supplies | One 910W/1300W Power Supply standard (second power supply for redundancy) |
| | Optical Drive | IDE Slimline DVD-ROM Drive |
| | Diskette Drive | Optional |
| | Form Factor | Tower |

Models

| | | |
|------------------|-------|-------------------------------|
| Country Code Key | XX=00 | U.S. English |
| | XX=02 | Int'l |
| | XX=03 | UK |
| | XX=04 | Germany |
| | XX=05 | France |
| | XX=20 | Brazil (Tower Models only) |
| | XX=37 | APD |
| | XX=29 | Japan |
| | XX=42 | Europe |
| | XX=AA | PRC |

Configuration Information - Factory Integrated Models

NOTE: HP does not allow factory integration of options into standard models listed above. Configure-to-order servers must start with a CTO Chassis.

NOTE: This product offering does not support HP Factory Express Server Configuration Level 1.

Step 1: Base Configuration (choose one of the following configurable models)

| | | |
|---------------|--|------------|
| Models | HP ProLiant ML570 G3 Tower Chassis, NA | 379933-405 |
| | HP ProLiant ML570 G3 Tower Chassis, WW | 379933-B21 |
| | Factory Integrated Model ships with: | |
| | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter | |
| | Ultra320 Controller (integrated on system board) | |
| | Ten Standard I/O Expansion slots | |
| | Tower models ship with one Hot Plug Power Supply and one local power cord. | |
| | Three Hot Plug Fans | |
| | Ultra320 Duplex Drive Cage (can be Simplex configured) | |
| | Integrated Lights-Out (iLO) Standard Management | |
| | | |
| | HP ProLiant ML570 G3 Rack Chassis, NA | 379934-405 |
| | HP ProLiant ML570 G3 Rack Chassis, WW | 379934-B21 |
| | Factory Integrated Model ships with: | |
| | Embedded NC7782 Dual Port PCI-X 10/100/1000T Gigabit network adapter | |
| | Ultra320 Controller (integrated on system board) | |
| | Ten Standard I/O Expansion slots | |
| | Rack models ship with one Hot Plug Power Supply, and local power cord(s) | |
| | Three Hot Plug Fans | |
| | Ultra320 Duplex Drive Cage (can be Simplex configured) | |
| | Integrated Lights-Out (iLO) Standard Management | |
| | Rack (6U) | |

Step 2: Choose Required Options (only one of the following from each list unless otherwise noted)

| | | |
|--------------------|--|------------|
| Processors | Intel X3.33GHz/667-8MB 570 G3 FIO BASE | 348123-L21 |
| | Intel X3.00GHz/667-8MB 570 G3 FIO BASE | 348122-L21 |
| | Intel X2.83GHz/667-4MB 570 G3 FIO BASE | 348121-L21 |
| | Intel X3.66GHz/667-1MB 570 G3 FIO BASE | 385944-L21 |
| | Intel X3.16GHz/667-1MB 570 G3 FIO BASE | 375368-L21 |
| Base Memory | 4GB (2 x 2GB 2RANK) PC2-3200R 400MHz DDR2 with Advanced ECC and online spare memory capabilities | 357004-B21 |
| | 4GB (2 x 2GB 1RANK) PC2-3200R 400MHz DDR2 with Advanced ECC and online spare memory capabilities | 343057-B21 |
| | 2GB (2 x 1GB 1RANK) PC2-3200R 400MHz DDR2 with Advanced ECC and online spare memory capabilities | 343056-B21 |
| | 1GB (2 x 512MB 1RANK) PC2-3200R 400MHz DDR2 with Advanced ECC and online spare memory capabilities | 343055-B21 |

Configuration Information - Factory Integrated Models

| | | |
|---------------|---|------------|
| Optical Drive | Slimline CD-RW/DVD-ROM 24X Combo Drive Option Kit (Servers) | 331903-B21 |
| | Slimline DVD-ROM Drive (8X/24X) Option Kit (Servers) | 264007-B21 |

Step 3: Choose Additional Factory Integratable Options

The HP ProLiant ML570 G3 performance packs are necessary to configure a HP ProLiant ML570 G3 High Performance Model. HP ProLiant ML570 G3 High Performance models include the latest performance technologies and enterprise class availability features pre-installed for convenience and value. In addition to the standard features listed in Step 1, the High Performance Model includes the following:

- Second Intel Xeon Processor
- Redundant Power Supplies and Fans

| | |
|---|------------|
| ML570G3 X3.33GHz/667-8MB Rack Optimized Pack (US) | 390927-001 |
| ML570G3 X3.33GHz/667-8MB Rack Optimized Pack (WW) | 390927-B21 |
| ML570G3 X3.00GHz/667-8MB Rack Optimized Pack (US) | 390928-001 |
| ML570G3 X3.00GHz/667-8MB Rack Optimized Pack (WW) | 390928-B21 |

Step 4: Choose Additional Options for Factory Integration

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

Options

| | | |
|--|--|------------|
| Processor | Intel Xeon MP X3.33 GHz-8MB Processor Option Kit | 348111-B21 |
| | NOTE: This processor option kit (PN 348111-B21) supports the HP ProLiant ML570 G3 and the DL580 G3. | |
| | Intel Xeon MP X3.00 GHz-8MB Processor Option Kit | 348110-B21 |
| | NOTE: This processor option kit (PN 348110-B21) supports the HP ProLiant ML570 G3 and the DL580 G3. | |
| | Intel Xeon MP X2.83 GHz-2MB Processor Option Kit | 348109-B21 |
| NOTE: This processor option kit (PN 348109-B21) supports the HP ProLiant ML570 G3 and the DL580 G3. | | |
| Intel Xeon MP X3.66 GHz-1MB Processor Option Kit | 385903-B21 | |
| NOTE: This processor option kit (PN 385903-B21) supports the HP ProLiant ML570 G3 and the DL580 G3. | | |
| Intel Xeon MP X3.16 GHz-1MB Processor Option Kit | 375369-B21 | |
| NOTE: This processor option kit (PN 375369-B21) supports the HP ProLiant ML570 G3 and the DL580 G3. | | |
| NOTE: Processor mixing of different frequencies and cache sizes is not supported. | | |
| <hr/> | | |
| ProLiant Essentials Value Pack Software | Rapid Deployment Pack, 1 User, V1.x | 267196-B21 |
| | NOTE: This license allows 1 server to be managed and deployed via the Deployment Server. | |
| | Rapid Deployment Pack, 1 User, V1.x (Japan) | 267196-291 |
| | NOTE: This license allows 1 server to be managed and deployed via the Deployment Server. | |
| | Rapid Deployment Pack, 10 Users, V1.x | 269817-B21 |
| | NOTE: This license allows 10 servers to be managed and deployed via the Deployment Server. | |
| | Rapid Deployment Pack, 10 Users, V1.x (Japan) | 269817-291 |
| | NOTE: This license allows 10 servers to be managed and deployed via the Deployment Server. | |
| | Flexible Quantity License Kit | 302127-B21 |
| | License-Only - for use with a Master License Agreement | 302128-B21 |
| | ProLiant Essentials Workload Management Pack (Featuring Compaq Resource Partitioning Manager version 2.0) | 303284-B21 |
| | Performance Management Pack, single server | 306696-B21 |
| | NOTE: This license allows 1 server to be managed by Performance Management Pack. | |
| | ProLiant Essentials Performance Management Pack, 10 Pack Server License | 374055-B21 |
| Performance Management Pack, flexible license kit | 306697-B21 | |
| NOTE: A single pack is shipped with a single license key for the total number of licenses ordered | | |
| ProLiant Essentials Intelligent Networking Pack (1 License) | 372906-B21 | |
| ProLiant Essentials Intelligent Networking Pack Flex License | 372950-B21 | |
| ProLiant Essentials Intelligent Networking Pack Track License | 372951-B21 | |

Options

NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to <http://www.hp.com/servers/proliantessentials> or the various ProLiant Essentials Value Pack product QuickSpecs for more information.

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

| | | |
|-----------------------|---|------------|
| Software | HP digital asset protection | 302316-001 |
| Memory (DIMMs) | 4096MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 2048 MB) Dual Rank | 375004-B21 |
| | 4096MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 2048 MB) Single Rank | 343057-B21 |
| | 2048MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 1024 MB) | 343056-B21 |
| | 1024MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 512 MB) | 343055-B21 |
| | Hot-plug Memory Expansion Board | 348107-B21 |
| | NOTE: Four memory boards would be required to configure 48GB of memory using 2GB DIMMs. | |
| Optical Drives | 16X DVD-ROM Drive Option Kit (Carbon) | 217053-B21 |
| | NOTE: This drive is supported in the removable media bay. | |
| | Slimline DVD/CD-RW Combo Drive | 331903-B21 |
| | NOTE: This drive is supported in the DVD-ROM bay and floppy bay | |
| Diskette Drive | Slimline Floppy Diskette Drive Option Kit | 390164-B21 |
| Hard Drives | Ultra320 SCSI – Universal Hot Plug | |
| | 300-GB 10,000 rpm U320 Universal Hard Drive (1") | 350964-B22 |
| | 146.8-GB 10,000 rpm U320 Universal Hard Drive (1") | 286716-B22 |
| | 72.8-GB 10,000 rpm U320 Universal Hard Drive (1") | 286714-B22 |
| | 146.8-GB 15,000 rpm Ultra320 SCSI Hard Drive (1") | 347708-B22 |
| | 72.8-GB 15,000 rpm U320 Universal Hard Drive (1") | 286778-B22 |
| | 36.4-GB 15,000 rpm U320 Universal Hard Drive (1") | 286776-B22 |
| | NOTE: All U320 Universal Hard Drives are backward compatible to U2 or U3 speeds. | |
| | NOTE: Please see the Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature: | |
| | U320 Hard Drive QS: | |
| | http://h18000.www1.hp.com/products/quickspecs/11531_div/11531_div.HTML (Worldwide) | |
| | http://h18000.www1.hp.com/products/quickspecs/11531_na/11531_na.HTML (North America) | |

Options

| | | |
|---------------------|---|------------|
| Storage Controllers | Smart Array 6402/128 Controller | 273915-B21 |
| | Smart Array 6404/256 Controller | 273914-B21 |
| | Smart Array 641 Controller | 291966-B21 |
| | Smart Array 642 Controller | 291967-B21 |
| | 256MB DDR Battery-Backed Cache Upgrade Kit for SA-6400 | 273913-B21 |
| | NOTE: This 256-MB DDR, Battery-Backed Cache upgrade kit supports the Smart Array 6400 series controller only. | |
| | 128MB Battery-Backed Cache Enabler | 351580-B21 |
| | NOTE: This 128MB BBWC supports the Smart Array 641 Controller and Smart Array 642 Controller. | |
| | 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter | 268351-B21 |
| | 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS | 284688-B21 |
| | Ultra320 Expansion Module for SA-6402 | 273911-B21 |
| | NOTE: Please see the following Controller or SCSI Adapter QuickSpecs for Technical Specifications such as PCI Bus, PCI Peak Data Transfer Rate, SCSI Protocols supported, SCSI Peak Data Transfer Rate, Channels, SCSI Ports, Drives supported, Cache, RAID support, and additional information: | |
| | http://h18000.www1.hp.com/products/quickspecs/11587_div/11587_div.HTML (Smart Array 6400 Series) | |
| | http://h18000.www1.hp.com/products/quickspecs/12067_div/12067_div.HTML (Smart Array 641) | |

http://h18000.www1.hp.com/products/quickspecs/12069_div/12069_div.HTML
(Smart Array 642)

http://h18000.www1.hp.com/products/quickspecs/10429_div/10429_div.HTML
(SCSI Adapter)

http://h18000.www1.hp.com/products/quickspecs/11555_div/11555_div.HTML
(U320 Adapter)

| | | |
|----------------|---|------------|
| Communications | HP NC310F PCI-X 1000SX Gigabit Server Adapter | 368169-B21 |
| | HP NC320T PCI Express 1000T Gigabit Server Adapter | 367047-B21 |
| | HP NC1020 PCI 1000T Gigabit Server Adapter | 353377-B21 |
| | HP NC7170 PCI-X Dual Port 1000T Gigabit Server Adapter | 313881-B21 |
| | HP NC7771 PCI-X 1000T Gigabit Server Adapter | 290563-B21 |
| | NOTE: Any network adapter (NIC), except the NC1020, on the option list can be used for redundancy with the embedded NC7782 NIC. When teaming with other NICs or with the embedded NIC, the lack of Jumbo Frames and LSO features on the NC1020 will cause high end NICs to have those features disabled. (e.g. incompatibility issues with the other option NICs for that platform). | |
| | HP NC570C PCI-X Dual-port 4x Fabric Adapter | 376158-B21 |
| | HP NC571C PCI Express Dual-port 4x Fabric Adapter | 376160-B21 |
| | HP 24-Port 4x Fabric Copper Switch | 376227-B21 |
| | HP 4x Fabric 1m Copper Cable | 376232-B21 |
| | HP 4x Fabric 3m Copper Cable | 376232-B22 |
| | HP 4x Fabric 5m Copper Cable | 376232-B23 |

Options

| | | |
|--------------------------|---|------------|
| Redundant Options | Hot-plug Redundant Fan Kit | 348108-B21 |
| | NOTE: Includes three fans. Included in rack optimized 8MB models. | |
| | 910W (low line), 1300W (high line) Hot Plug Redundant Power Supply US | 348114-001 |
| | 910W (low line), 1300W (high line) Hot Plug Redundant Power Supply AUST | 348114-011 |
| | 910W (low line), 1300W (high line) Hot Plug Redundant Power Supply EURO | 348114-021 |
| | 910W (low line), 1300W (high line) Hot Plug Redundant Power Supply UK | 348114-031 |
| | 910W (low line), 1300W (high line) Hot Plug Redundant Power Supply JPN2 | 348114-291 |
| | 910W (low line), 1300W (high line) Hot Plug Redundant Power Supply -includes C14 to C19 IEC cable | 348114-B21 |

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

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

Tape Drives

NOTE: For complete listing of tape drive offerings see

<http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html>

For recommended tape drive offerings for this ProLiant server see the following:

NOTE: The HP ProLiant ML570 G3 only supports half-height tape drives internally.

NOTE: In order to install certain tape drives internally, you may need to remove the rails that come standard on the drives and then re-insert the screws in the mounting holes. Mounting screws are shipped standard with server.

NOTE: External tape devices, including both tape drives and tape arrays/enclosures, can be directly connected to the VHDCI SCSI port located on the back of the server. Use of a SCSI adapter to connect these devices is optional, not required.

Ultrium Tape Drives - Internal, External, and Rack-Mount and Array

| | |
|--|------------|
| HP StorageWorks Ultrium 215 Tape Drive, External (Carbon) | Q1545A |
| HP StorageWorks Ultrium 215 rack-mount (Carbon) - Single drive installed in a 1U rack-mount kit | A7444A |
| HP StorageWorks Ultrium 215 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | C7492B |
| HP StorageWorks Ultrium 448 Tape Drive, External (Carbonite) | DW017A |
| HP StorageWorks Ultrium 448 Rack-mount (Carbonite) - Single drive installed in a 1U rack-mount kit | DW028A |
| HP StorageWorks Ultrium 460 Tape Drive, External (Carbon) | Q1520A |
| HP StorageWorks Ultrium 460, Rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit | 350546-B21 |
| HP StorageWorks Ultrium 460 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | Q1512B |
| HP StorageWorks Ultrium 960 Tape Drive, External (Carbonite) | Q1539A |
| HP StorageWorks Ultrium 960 Rack-mount (Carbonite) - Single drive installed in a 3U rack-mount kit | Q1595A |

Options

NOTE: Needs to be ordered when purchasing an internal Ultrium 230 drive that will be installed inside of a HP ProLiant ML530, HP ProLiant ML530 G2, HP ProLiant ML570, or HP ProLiant ML570 G2. Kit includes fan and instructions to install fan inside of server in drive bay.

NOTE: Please see the HP StorageWorks Ultrium Tape Drive QuickSpecs for additional options such as controllers, media, and other related items:

http://h18006.www1.hp.com/products/quickspecs/11739_div/11739_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/11739_na/11739_na.html
(North America)

http://h18006.www1.hp.com/products/quickspecs/12128_div/12128_div.html
(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/12128_na/12128_na.html
(North America)

For an up-to-date listing of the latest O/S and software support details for HP Ultrium tape drives, please visit: <http://www.hp.com/go/connect>

DAT Drives - Internal, External, Rack-Mount and Array Module

| | |
|--|--------|
| HP StorageWorks DAT 72 Tape Drive, External (Carbon) | Q1523A |
| HP StorageWorks DAT 72 Tape Drive, Internal (Carbon) | Q1522A |
| HP StorageWorks DAT 72 Tape Drive, Internal Hot-Plug (Carbon) | Q1529A |
| HP StorageWorks DAT 72 rack-mount (Carbon) - Single drive installed in a 1U rack-mount kit | A7443A |
| HP StorageWorks DAT 72 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | Q1524B |
| HP StorageWorks DAT 40 Tape Drive, External (Carbon) | C5687C |
| HP StorageWorks DAT 40 Tape Drive, Internal (Carbon) | C5686B |
| HP StorageWorks DAT 40 Tape Drive, Internal Hot-Plug (Carbon) | Q1546A |
| HP StorageWorks DAT 40 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | C7497B |
| HP StorageWorks DAT 24e Tape Drive, External (Flint) | C1556D |
| HP StorageWorks DAT 24 Tape Drive, Internal (Flint) | C1555D |
| HP StorageWorks DAT 24 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 | C7498A |

NOTE: Please see the DAT Tape Drive QuickSpecs for controllers, media, and other options:

http://h18000.www1.hp.com/products/quickspecs/11883_div/11883_div.HTML
(Worldwide)

http://h18000.www1.hp.com/products/quickspecs/11883_na/11883_na.HTML
(North America)

For an up-to-date listing of the latest O/S and software support details for HP DAT drives, please visit: <http://www.hp.com/go/connect>

Rack-Mount Tape Drive Enclosures

| | |
|-----------------------------------|--------|
| HP StorageWorks 1U Rack-Mount Kit | A7445A |
|-----------------------------------|--------|

NOTE: The 1U Rack-mount Kit can support up to 2 half-height tape drives and compatible with multiple Single-Ended and LVD SCSI tape drives including DAT 24, DAT40, DAT72, DLT VS 80, and Ultrium 215 tape drives.

Options

| | |
|--|------------|
| HP StorageWorks 3U Rack-Mount Kit | 274338-B21 |
| NOTE: The 3U Rack-Mount Kit can support up to 2 full-height or 4 half-height tape drives and compatible with multiple Single-Ended and LVD SCSI tape drives including DAT, DLT VS80, SDLT 320, Ultrium 215, Ultrium 230, and Ultrium 460 Tape Drives. | |
| HP StorageWorks 5U Rack-Mount Kit | 274339-B21 |
| NOTE: The 5U Rack-Mount Kit can support up to 4 full-height tape drives and is compatible with SDLT 320, Ultrium 230, and Ultrium 460 tape drives. | |
| NOTE: Please see the Rack-Mount Tape Drive Kits QuickSpecs for additional information regarding these kits: | |
| http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML (Worldwide) | |
| http://h18000.www1.hp.com/products/quickspecs/10854_na/10854_na.HTML (North America) | |
| HP StorageWorks Tape Array 5300 | C7508A |
| NOTE: The Tape Array 5300 is a 3U enclosure that supports up to 2 full-height or 4 half-height hot-swap array modules, including DAT and Ultrium tape drives. Cables and terminators are not included and must be ordered separately. | |
| NOTE: Please see the Tape Array 5300 QuickSpecs for additional information regarding this product. | |
| http://h18000.www1.hp.com/products/quickspecs/11878_div/11878_div.HTML (Worldwide) | |
| http://h18000.www1.hp.com/products/quickspecs/11878_na/11878_na.HTML (North America) | |
| Accessories for 3U & 5U Rack-mount Tape Drive Kits | |
| LVD Cable Kit, VHDCI/HD68 | 168048-B21 |
| NOTE: For use with the 3U Rack-mount Kit and 5U Rack-mount Kit only. | |
| LVD Cable Kit, HD68/HD68 | 242381-B21 |
| NOTE: For use with the 3U Rack-mount Kit and 5U Rack-mount Kit only. | |
| PSU/Fan Upgrade Kit - Redundant hot-swap power supply unit and fan for Tape Array 5300. | |
| 68-pin HD multi-mode terminator | C2364A |
| 1.0m 68-pin VHDCI to 68-pin HD cable | C2361B |
| 2.5m 68-pin VHDCI to 68-pin HD cable | C2362B |
| 5.0m 68-pin VHDCI to 68-pin HD cable | C2365A |
| 10.0m 68-pin VHDCI to 68-pin HD cable | C2363B |
| 0.5m 68-pin HDI to 68-pin HD cable LVD/SE | C2978B |
| 1.5m 68-pin HDI to 68-pin HD cable LVD/SE | C2979B |
| 0.9m 68-pin HDI to 68-pin HD cable LVD/SE | C2911C |
| 2.5m 68-pin HDI to 68-pin HD cable LVD/SE | C2924C |
| NOTE: For use with Tape Array 5300 only | |

Options

Tape Autoloaders

DAT Autoloader

HP StorageWorks DAT 72x6 Internal Autoloader Q1566A

HP StorageWorks DAT 72x6 External Autoloader Q1567A

NOTE: Please see the DAT Tape Autoloader QuickSpecs for additional options such as host bus adapters, controllers and media:

http://h18000.www1.hp.com/products/quickspecs/11985_div/11985_div.HTML
(Worldwide)

http://h18000.www1.hp.com/products/quickspecs/11985_na/11985_na.HTML
(North America)

HP StorageWorks Tape 1/8 Autoloader

1/8 Ultrium 460 Tape Autoloader, Tabletop AA927A

1/8 SDLT 320 Tape Autoloader, Tabletop AA926A

1/8 Ultrium 230 Tape Autoloader, Tabletop C9572CB

1/8 DLT VS80 Tape Autoloader, Tabletop C9264CB

1/8 Tape Autoloader Rackmount Kit C9268R

NOTE: Required to install the 1/8 tape autoloader in a standard 19-inch rack

NOTE: Please reference the 1/8 Tape Autoloader QuickSpecs at

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

<http://www.hp.com/go/ebs>

HP StorageWorks SSL1016 Tape Autoloader

SSL1016 Ultrium 460 Tape Autoloader 330821-B21

SSL1016 SDLT 320 Tape Autoloader 330816-B21

NOTE: Please reference the SSL1016 Tape Autoloader QuickSpecs at

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

<http://www.hp.com/go/ebs>

Tape Libraries

HP StorageWorks MSL6000 Tape Library

MSL6030, 1 drive, 30 slots, Ultrium 460, RM 330731-B22

MSL6030, 2 drive, 30 slots, Ultrium 460, RM 330731-B23

MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router 330731-B24

MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router 330731-B25

MSL6060, 2 drive, 60 slot, Ultrium 460, RM 331196-B21

MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router 331196-B22

NOTE: Please reference the MSL6000 Tape Library QuickSpecs at

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

<http://www.hp.com/go/ebs>

HP StorageWorks MSL5026S2 Tape Library

MSL5026S2, 1 drive, 26 slots, SDLT 320, RM 293472-B22

MSL5026S2, 2 drive, 26 slots, SDLT 320, RM 293472-B23

MSL5026S2, 1 drive, 26 slots, SDLT 320, RM with embedded FC router 293472-B24

MSL5026S2, 2 drive, 26 slots, SDLT 320, RM with embedded FC router 293472-B25

Options

NOTE: Please reference the MSL5026S2 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

HP StorageWorks MSL5052S2 Tape Library

MSL5052S2, 2 drive, 52 slots, SDLT 320, RM 293474-B21

MSL5052S2, 2 drive, 52 slots, SDLT 320, RM with embedded FC router 293474-B24

NOTE: Please reference the MSL5052S2 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

HP StorageWorks MSL5030 Tape Library

MSL5030, 1 drive, 30 slots, Ultrium 230, RM 301897-B22

MSL5030, 2 drive, 30 slots, Ultrium 230, RM 301897-B23

MSL5030, 1 drive, 30 slots, Ultrium 230, RM with embedded FC router 301897-B24

MSL5030, 2 drive, 30 slots, Ultrium 230, RM with embedded FC router 301897-B25

NOTE: Please reference the MSL5030 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

HP StorageWorks MSL5060 Tape Library

MSL5060, 2 drive, 60 slots, Ultrium 230, RM 301899-B22

MSL5060, 2 drive, 60 slots, Ultrium 230, RM with embedded FC router 301899-B23

NOTE: Please reference the MSL5060 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

HP StorageWorks ESL E-Series Tape Libraries

ESL Extended 712e Tape Library, 0 drive, 712 LTO slots AA934B

ESL Extended 630e Tape Library, 0 drive, 630 SDLT slots AA935B

ESL Extended 322e Tape Library, 0 drive, 322 LTO slots AA939B

ESL Extended 286e Tape Library, 0 drive, 286 SDLT slots AA940B

ESL E-Series Ultrium 460 drive kit AA937A

ESL E-Series Ultrium 460-FC drive kit AA941A

ESL E-Series SDLT 320 drive kit AA936A

ESL E-Series e2400-FC 2G Interface Controller AA928A

NOTE: Please reference the ESL E-Series Tape Libraries QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>

Options

| | | |
|--|--|--------|
| Magneto-Optical Jukeboxes | HP StorageWorks 9.1 GB Entry-level Optical Storage | |
| | 220mx, 1 drive, 24 slot jukebox | C1118M |
| | 220mx, 2 drive, 24 slot jukebox | C1119M |
| | NOTE: Please reference the Magneto-Optical Jukebox data sheets at http://www.hp.com/go/optical for additional information needed to create a complete solution | |
| | HP StorageWorks 9.1 GB Mid-range Optical Jukeboxes | |
| | 300mx, 2 drive, 32 slot jukebox | C1150M |
| | 600mx, 4 drive, 64 slot jukebox | C1160M |
| | 700mx, 2 drive, 76 slot jukebox | C1170M |
| | NOTE: Please reference the Magneto-Optical Jukebox data sheets at http://www.hp.com/go/optical for additional information needed to create a complete solution | |
| | HP StorageWorks Ultra Density Optical Storage | |
| 700ux, 1 drive, 24 slot jukebox | AA962A | |
| 700ux, 2 drive, 24 slot jukebox | AA963A | |
| 1100ux, 2 drive, 38 slot jukebox | AA964A | |
| 1000ux, 2 drive, 32 slot jukebox | AA965A | |
| 1900ux, 4 drive, 64 slot jukebox | AA966A | |
| 1900ux, 4 mixed drive, 64 slot jukebox | AA968A | |
| 2300ux, 2 drive, 76 slot jukebox | AA967A | |
| NOTE: Please reference the Magneto-Optical Jukebox data sheets at http://www.hp.com/go/optical for additional information needed to create a complete solution | | |

| | | |
|-----------------|--|------------|
| Cluster Options | ProLiant Cluster Starter Kit | 364023-B21 |
| | NOTE: For additional information regarding the ProLiant Cluster Starter Kit please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11935_na/11935_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11935_div/11935_div.html (Worldwide) | |
| | ProLiant Cluster Kit with OpenView Storage Mirroring | 364025-B21 |
| | NOTE: For additional information regarding the ProLiant Cluster Kit with OpenView Storage Mirroring please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11934_na/11934_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11934_div/11934_div.html (Worldwide) | |
| | ProLiant Cluster HA/F200 for the Entry Level SAN | 364026-B21 |
| | ProLiant Cluster HA/F200 for the Entry Level SAN (Japan) | 364026-291 |
| | NOTE: For additional information regarding the ProLiant Cluster for Entry Level SAN please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11932_na/11932_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11932_div/11932_div.html (Worldwide) | |

Options

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| ProLiant Cluster HA/F500 for the Enterprise SAN | 364024-B21 |
| <p>NOTE: For additional information regarding the ProLiant Cluster HA/F500 for Enterprise SAN please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11933_na/11933_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11933_div/11933_div.html (Worldwide)</p> | |
| HP Serviceguard for Linux ProLiant Cluster A.11.15 for SUSE SLES 8 / UnitedLinux 1.0 and Red Hat EL 3 (2 node license cluster kit) | 305199-B24 |
| HP Serviceguard for Linux ProLiant Cluster A.11.16 for SUSE SLES 9 and Red Hat EL 3 (2 node license cluster kit) | 305199-B25 |
| HP Serviceguard for Linux License A.11.15 for SUSE SLES 8 / UnitedLinux 1.0 and Red Hat EL 3 (single license version) | 307754-B24 |
| HP Serviceguard for Linux A.11.16 for SUSE SLES9 and Red Hat EL 3 (single license version) | 307754-B25 |
| <p>NOTE: For additional information regarding HP Serviceguard for Linux, please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11518_na/11518_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11518_div/11518_div.html (Worldwide)</p> | |

| | | |
|--|---|------------|
| External Storage – Tower & Rack | HP StorageWorks Modular Smart Array 20 NOTE: Rack-mountable 12 (SATA) drive enclosure with U320 Host connectivity, redundant power supplies. | 335921-B21 |
| | HP StorageWorks Modular Smart Array 20 Starter Kit NOTE: Rack-mountable 12 (SATA) drive enclosure with U320 Host connectivity, redundant power supplies. Includes Smart Array 6402/128 Controller. NOTE: The Modular Smart Array Enclosure 20 Family supports the SATA 1.5Gb/s 1" Hot Plug Hard Drives. | 366172-B21 |
| | HP StorageWorks Modular Smart Array 30 SB NOTE: Rack-mountable 14 drive enclosure with single bus, redundant power supplies | 302969-B21 |
| | HP StorageWorks Modular Smart Array 30 DB NOTE: Rack-mountable 14 drive enclosure with dual bus, redundant power supplies NOTE: The Modular Smart Array Enclosure 30 Family supports the Wide Ultra3, Ultra320 1" Hot Plug Hard Drives. | 302970-B21 |
| | Redundant Power Supply 499W | 338296-B21 |
| | Ultra320 Dual Bus I/O Module for MSA30 | 287483-B21 |
| | Ultra320 Single Bus I/O Module for MSA30 | 287484-B21 |

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| HP StorageWorks Modular Smart Array 1500 | Modular Smart Array 1500 Controller Shelf NOTE: Please see the StorageWorks Modular SAN Array 1500 QuickSpecs for additional options and configuration information at: http://www.hp.com/go/MSA1500cs | AA986A |
|---|---|--------|

Options

| | | |
|---|--|--|
| HP StorageWorks Modular Smart Array 1000 | HP StorageWorks Modular Smart Array 1000 NOTE: Please see the Modular Smart Array 1000 QuickSpecs for additional options and configuration information at http://h18000.www1.hp.com/products/quickspecs/11033_na/11033_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML (Worldwide) | 201723-B22 |
| StorageWorks Options | StorageWorks SAN Switch 2/8-EL StorageWorks SAN Switch 2/16 StorageWorks SAN Switch 2/8-EL Upgrade Kit | 322120-B21 322118-B21 325888-B21 |
| UPS and PDU Power Cord Matrix | Please see the UPS and PDU cable matrix that lists cable descriptions, requirements, and specifications for UPS and PDU units: ftp://ftp.compaq.com/pub/products/servers/ProLiantstorage/power-protection/powercordmatrix.pdf . | |
| HP Uninterruptible Power Systems - Tower | HP UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (NA) HP UPS Model T1000 XR (1000VA, 700 Watt), High Voltage (Int'l) HP UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (Japan) HP UPS Model T1500 XR (1440VA, 1050 Watt), Low Voltage (NA) HP UPS Model T1500 XR (1500VA, 1050 Watt), High Voltage (Int'l) HP UPS Model T1500 XR (1500VA, 1050 Watt), Low Voltage (Japan) HP UPS Model T2200 XR (1920VA, 1600 Watt), Low Voltage (NA) HP UPS Model T2200 XR (2080VA, 1600 Watt), High Voltage (NA) HP UPS Model T2200 XR (2200VA, 1600 Watt), Low Voltage (WW) HP UPS Model T2200 XR (2200VA, 1600 Watt), Low Voltage (Japan) | 204155-001 204155-B31 312803-291 204155-002 204155-B32 204155-292 204451-001 204451-002 204451-B31 204451-291 |
| Uninterruptible Power Systems – Rack | HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA) HP UPS R1500 XR (1500VA, 1340 Watt), High Voltage (Int'l) HP UPS R1500 XR (1500VA, 1340 Watt), Low Voltage (Japan) HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA) HP UPS R3000 XR (2400VA, 2250 Watt), Low Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug) HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug) HP UPS R5500 XR, (5000VA, 4500 Watt), High Voltage (NA/Jpn) HP UPS R5500 XR, (6000VA, 5400 Watt), High Voltage (Int'l) HP UPS R12000 XR, N+x (12KVA, 12KW) High Voltage (WW) | 204404-001 204404-B31 204404-291 192186-001 192186-002 192186-291 192186-292 192186-B31 192186-B32 192186-B33 192186-AR1 326529-D71 326529-B31 207552-B22 |

Options

NOTE: UPS R6000 has a hardwired input; and the UPS R12000 XR has a hardwired input and output connection.

| | | |
|---|--|------------|
| HP Power Distribution Unit with Power Monitoring | HP Power Distribution Unit with Power Monitoring Model S2324 - dual input, 3 phase, 24A (NA/JPN) | 370959-D71 |
| | HP Power Distribution Unit with Power Monitoring Model S1324 - single input, 3 phase, 24A (NA/JPN) | 370960-D71 |
| | HP Power Distribution Unit with Power Monitoring Model S2140 - dual input, 1 phase, 40A (NA/JPN) | 370961-D71 |
| | HP Power Distribution Unit with Power Monitoring Model S1140 - single input, 1 phase, 40A (NA/JPN) | 370962-D71 |
| | HP Power Distribution Unit with Power Monitoring Model S2316 - dual input, 3 phase, 16A (INTL) | 370963-B31 |
| | HP Power Distribution Unit with Power Monitoring Model S1316 - single input, 3 phase, 16A (INTL) | 370964-B31 |
| | HP Power Distribution Unit with Power Monitoring Model S2132 - dual input, 1 phase, 32A (INTL) | 370965-B31 |
| | HP Power Distribution Unit with Power Monitoring Model S1132 - single input, 1 phase, 32A (INTL) | 370966-B31 |

| | | |
|--|---|------------|
| Modular PDUs 1U/0U (Up to 32 outlets) NOTE: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks). | HP Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan) NOTE: This mPDU (252663-D71) may also be used to connect the low volt model of the UPS R3000 XR. | 252663-D71 |
| | HP Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan) | 252663-D72 |
| | HP Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l) | 252663-B31 |
| | HP Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW) NOTE: This mPDU (252663-B21), 40A model has a hardwired input. | 252663-B21 |
| | HP Modular Power Distribution Units (mPDU), High Volt Model, 16A (200-240 VAC) (WW) NOTE: This PDU has a detachable input power cord and allows for adaptability to country specific power requirements. This model may also be used with the high volt UPSs R3000 XR and R6000 For North America, need to order cable PN 340653-001. | 252663-B24 |
| | HP Modular Power Distribution Unit (mPDU), High Volt Model, 40A, Attached Cord, (NA/JPN) | 252663-D73 |
| | HP Modular Power Distribution Unit (mPDU), High Volt Model, 40A, Attached Cord, (Int'l) NOTE: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including shorter jumper cables and country specific power cords: http://h18000.www1.hp.com/products/quickspecs/11041_na/11041_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.HTML (Worldwide) | 252663-B32 |

Options

| | | |
|---|---|------------|
| USB Options | USB 2-Button Optical Scroll Mouse (Carbonite/Silver) | DC172B |
| | USB 1.44-MB External Diskette Drive (Carbonite) | DC141B |
| Custom Builder | Please see the Enterprise Configurator for configuration assistance at: http://www.hp.com/products/configurator . | |
| Rack Conversion Kit | ProLiant Tower to Rack Conversion Kit NOTE: This Tower to Rack Conversion Kit (PN 253699-B21) supports the HP ProLiant ML570 G3. | 348112-B21 |
| | ProLiant Rack to Tower Conversion Kit NOTE: This Rack to Tower Conversion Kit (PN 271258-B21) supports the HP ProLiant ML570 G3. | 348113-B21 |
| Telco Rack Support | Support for all 2-post Telco racks requires an additional option kit from Rack Solutions. The Rack Solutions brackets can be purchased at: http://www.racksolutions.com/hp . | |
| HP Rack 5000 Series (Graphite Metallic) | HP 5642 Rack-Unassembled | 358254-B21 |
| Rack Options for Rack 5000 Series | Stabilizer Kit for 5642 Rack (Graphite Carbon) NOTE: The stabilizing kit is used to prevent rack from tipping over. | 374493-B21 |
| | Baying Kit for 5642 Rack (Graphite Carbon) NOTE: The baying kit is used to join two or more HP 5642 racks. | 374499-B21 |
| HP Rack 10000 Series (Graphite Metallic) | 10642 (42U) Infrastructure Rack (Low Voltage) | 379006-001 |
| | 10642 (42U) Infrastructure Rack (High Voltage) | 379005-001 |
| | 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 | |

Options

HP Rack 10614 (14U) – Shock Pallet 292303-B22

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

NOTE: It is mandatory to use a shock pallet in order to ship racks with equipment installed. Not all HP equipment is qualified to be shipped in the Rack 10000 series

NOTE: Please see the Rack 10000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:

http://h18000.www1.hp.com/products/quickspecs/10995_div/10995_div.HTML
 (Worldwide)

http://h18000.www1.hp.com/products/quickspecs/10995_na/10995_na.HTML
 (North America)

NOTE: For additional information regarding Rack Cabinets, please see the following URL: <http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html>.

Rack Options for HP Rack 10000 Series

NOTE: For additional information regarding Rack Options, please see the following URL: <http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html>.

| | |
|------------------------------------|------------|
| HP Rack Light Kit (Neon) | 361589-B21 |
| HP Rack Plinth Kit (Carbon) | 251960-B21 |
| 42U Side Panel – Graphite Metallic | 246099-B21 |
| 36U Side Panel – Graphite Metallic | 246102-B21 |
| 47U Side Panel – Graphite Metallic | 255486-B21 |
| TFT5600 Rack Keyboard Monitor | 221546-xx1 |

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

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

| | |
|------------------------------------|------------|
| 1U Rack Keyboard & Drawer (Carbon) | 257054-xx1 |
|------------------------------------|------------|

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 |

Options

NOTE: For additional information regarding Rack Options, please see the following URL: <http://h18000.www1.hp.com/products/servers/proliantstorage/rack-options/index.html>.

| | | |
|------------------------------|---|------------|
| HP KVM Switch Options | Server Console Switch (KVM), 0 x 1 x 8 port | 336044-B21 |
| | Server Console Switch (KVM), 0 x 2 x 16 port | 336045-B21 |
| | IP Console Switch Box (KVM/IP), 1 x 1 x 16 | 262585-B21 |
| | IP Console Switch Box (KVM/IP), 3 x 1 x 16 | 262586-B21 |
| | HP 1x4 USB/PS2 KVM Switch, RM (ALL) | 371302-B21 |
| | HP 1x4 USB/PS2 KVM Switch, TT, (EURO) | 371301-A21 |
| | HP 1x4 USB/PS2 KVM Switch, TT (UK) | 371301-031 |
| | HP 1x4 USB/PS2 KVM Switch, TT, (AUST/NZ) | 371301-011 |
| | HP 1x4 USB/PS2 KVM Switch, TT, (NA/JPN) | 371301-D71 |
| | PS/2 Interface Adapter, 8 pack | 262587-B21 |
| | PS/2 Interface Adapter, 1 pack | 262588-B21 |
| | CAT5 KVM Expansion Module | 262589-B21 |
| | Serial Interface adapter - 1 Pack with power supply | 373035-B21 |
| | CAT5e Cable 3', 4 pack | 263474-B21 |
| | CAT5e Cable 6', 8 pack | 263474-B22 |
| | CAT5e Cable 12', 8 pack | 263474-B23 |
| CAT5e Cable 20', 4 pack | 263474-B24 | |
| CAT5e Cable 40', 1 pack | 263474-B25 | |

NOTE: For additional information regarding HP KVM Switches and options, please see the following URL: <http://h18004.www1.hp.com/products/servers/proliantstorage/rack-options/list.html#console>

| | | |
|--|---|--------|
| Service and Support Offerings (HP Care Pack Services) | Hardware Services On-site Service | |
| | 4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years | U4591A |
| | 4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic | U4591E |
| | 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years | U4592A |
| | 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic | U4592E |
| | 6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years | U4593A |
| | 6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic | U4593E |
| | Installation & Start-up Services | |
| | Hardware Installation | U4601A |
| | Hardware Installation, Electronic | U4601E |
| | Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays. | U4602A |
| | Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays, Electronic. | U4602E |

Options

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. U4603A

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. U4603E

Support Plus 24

Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays U4604A

Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic U4604E

Onsite HW support 24x7, 4hr response and SuSE Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays. U6314A

Onsite HW support 24x7, 4hr response and SuSE Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic U6314

Onsite HW support 24x7, 4hr response and Red Hat AS Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays. U9237A

Onsite HW support 24x7, 4hr response and Red Hat AS Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic U9237E

NOTE: For more information, customer/resellers can contact <http://www.hp.com/services/carepack>

Memory

HP ProLiant ML570 G3 - 3.33 GHz and 3.00 GHz 1P Tower Models and all 2.83 GHz, 3.66 GHz , 3.16 GHz Models

Standard Memory

1024-MB PC2-3200R MHz Registered ECC SDRAM DIMM installed (2 x 512 MB SDRAM DIMM)

Standard Memory Plus Optional Memory

Up to 46,080-MB of memory is available with the optional installation of 2GB DIMM memory kits.

Standard Memory Replaced with Optional Memory

Up to 49,152 MB of memory is available with the removal of the standard 1024 MB of memory and the optional installation of 2GB DIMM memory kits.

- Loads:
 - Single rank (SR) DIMM => 1 load
 - Dual rank (DR) DIMM => 2 loads
- DIMMs must be installed in pairs on board.
 - Each DIMM pair must be identical, e.g. both SR or both DR, and same capacity, technology and density.
- Each ML570G3 memory board supports 8 loads, thus valid maximum DIMM configurations per memory board for the ML570G3 are:
 - 6 SR DIMMs = 6 loads, or
 - 4 DR DIMMs = 8 loads, or
 - 2 DR DIMMs + 4 SR DIMMs = 8 loads
- Advance Memory Protection support
 - Online Spare is supported with 1, 2, 3 or 4 boards
 - Each board can failover to its Online Spare Bank independent of the other memory boards.
 - The minimum valid Online Spare configuration for a memory board requires at least one bank of dual-rank DIMMs or two banks of single-rank DIMMs.
 - HP Recommends (for maximum memory usage efficiency):
 - If only single -rank DIMMs are used on a memory board, all DIMMs should be of the same size on that memory board.
 - If only dual-rank DIMMs are used on a memory board, all DIMMs should be of the same size on that memory board.
 - If a mixture of single- and dual-rank DIMMs are used on a memory board, the dual-rank DIMMs should be two times (2x) the size of any single-rank DIMM
 - Hot-Plug Mirrored Memory is supported with 2 or 4 boards
 - Memory boards within a mirrored pair must have the same amount of total memory. However, each board of the mirrored pair may have different DIMM configurations as long as they have equal total size.
 - The amount of memory between mirrored pairs can be different in quadboard Mirrored Memory mode.
 - Hot-Plug RAID Memory is only supported with 4 boards
 - All four memory boards must have the same amount of total memory. However, each board may have different DIMM configurations as long as they have equal total size

NOTE: This chart does not represent all possible memory configurations.

NOTE: Four memory boards would be required to configure up to 46GB or maximum memory using 2GB DIMMs.

Memory

| Memory | | Slot | | | | | |
|----------|-----------|---------|---------|---------|---------|---------|---------|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| Standard | 1024 MB | 512 MB | 512 MB | Empty | Empty | Empty | Empty |
| Optional | 46,080 MB | 512 MB | 512 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Maximum | 49,152 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Memory | | Slot | | | | | |
| | | 7 | 8 | 9 | 10 | 11 | 12 |
| Standard | 1024 MB | Empty | Empty | Empty | Empty | Empty | Empty |
| Optional | 46,080 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Maximum | 49,152 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Memory | | Slot | | | | | |
| | | 13 | 14 | 15 | 16 | 17 | 18 |
| Standard | 1024 MB | Empty | Empty | Empty | Empty | Empty | Empty |
| Optional | 46,080 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Maximum | 49,152 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Memory | | Slot | | | | | |
| | | 19 | 20 | 21 | 22 | 23 | 24 |
| Standard | 1024 MB | Empty | Empty | Empty | Empty | Empty | Empty |
| Optional | 46,080 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Maximum | 49,152 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |

Following are memory options available from HP:

- 4096MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 2048 MB) Dual Rank 375004-B21
- 4096MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 2048 MB) Single Rank 343057-B21
- 2048MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 1024 MB) 343056-B21
- 1024MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 512 MB) 343055-B21

HP ProLiant ML570 G3 - 3.33 GHz and 3.00 GHz 2P Rack Models

Standard Memory

2048-MB PC2-3200R MHz Registered ECC SDRAM DIMM installed (4 x 512 MB SDRAM DIMM)

Standard Memory Plus Optional Memory

Up to 47,104-MB of memory is available with the optional installation of 2GB DIMM memory kits.

Standard Memory Replaced with Optional Memory

Up to 49,152 MB of memory is available with the removal of the standard 2048 MB of memory and the optional installation of 2GB DIMM memory kits

NOTE: This chart does not represent all possible memory configurations.

NOTE: Four memory boards would be required to configure up to 47GB or maximum memory using 2GB DIMMs.

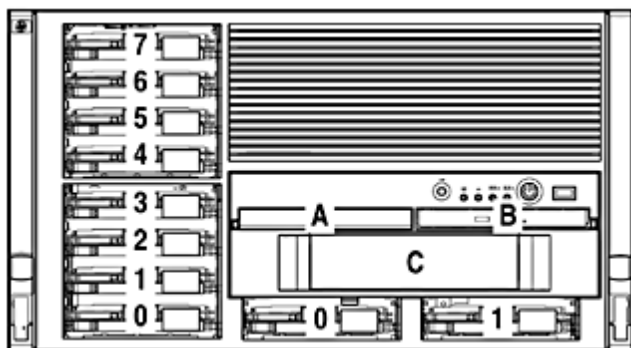
Memory

| Memory | | Slot | | | | | |
|----------|-----------|---------|---------|---------|---------|---------|---------|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| Standard | 2048 MB | 512 MB | 512 MB | 512 MB | 512 MB | Empty | Empty |
| Optional | 43,008 MB | 512 MB | 512 MB | 512 MB | 512 MB | 2048 MB | 2048 MB |
| Maximum | 49,152 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Memory | | Slot | | | | | |
| | | 7 | 8 | 9 | 10 | 11 | 12 |
| Standard | 1024 MB | Empty | Empty | Empty | Empty | Empty | Empty |
| Optional | 43,008 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Maximum | 49,152 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Memory | | Slot | | | | | |
| | | 13 | 14 | 15 | 16 | 17 | 18 |
| Standard | 1024 MB | Empty | Empty | Empty | Empty | Empty | Empty |
| Optional | 43,008 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Maximum | 49,152 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Memory | | Slot | | | | | |
| | | 19 | 20 | 21 | 22 | 23 | 24 |
| Standard | 1024 MB | Empty | Empty | Empty | Empty | Empty | Empty |
| Optional | 43,008 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |
| Maximum | 49,152 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB | 2048 MB |

Following are memory options available from HP:

- 4096MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 2048 MB) Dual Rank 375004-B21
- 4096MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 2048 MB) Single Rank 343057-B21
- 2048MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 1024 MB) 343056-B21
- 1024MB PC2-3200R Registered ECC SDRAM Memory Kit (2 x 512 MB) 343055-B21

Storage



1-inch Drive Locations

- 0-7, 0-1 Ten Ultra320 SCSI Drive Bays (8 on one channel, 2 on another)
- A 1.44-MB Slimline Diskette Drive (optional)
- B 8x/24x IDE Slimline DVD-ROM
- C One available removable media bay for storage. A half-height tape drive, a USB tape drive, or a half-height CD-ROM, DVD-ROM, CD-R, or DVD-R may be installed in the removable media bay.

Drive Support

Hard Drives

Ultra320 Hot Pluggable Drives

| | Quantity Supported | Position Supported | Controller |
|---------------------|--------------------|--------------------|---|
| 1-inch | Up to 10 | 0-7 and 0-1 | Integrated Dual Channel Ultra320 SCSI Adapter |
| 300-GB 10,000 rpm | | | Smart Array 6402/128 Controller |
| 146.8-GB 10,000 rpm | | | Smart Array 6404/256 Controller |
| 72.8-GB 10,000 rpm | | | Smart Array 641 Controller |
| 146.8-GB 15,000 rpm | | | Smart Array 642 Controller |
| 72.8-GB 15,000 rpm | | | 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter |
| 36.4-GB 15,000 rpm | | | |

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

External Storage

| | Quantity Supported | Position Supported | Host Controller or Adapter |
|-------------------------------|--|--------------------|--|
| Modular Smart Array 30 Family | Up to 28 | External | Smart Array 6402/128 Controller Smart Array 6404/256 Controller Smart Array 642 Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS |
| Modular Smart Array 1000 | Please see the Modular Smart Array 1000 QuickSpecs below to determine configuration requirements | External | Please see the Modular Smart Array 1000 QuickSpecs (URL below) for the latest list of supported HBAs |

Storage

| | | | |
|-----------------------------|---|----------|---|
| Modular Smart Array 1500 cs | Please see the Modular Smart Array 1500 cs QuickSpecs below to determine configuration requirements | External | Please see the Modular Smart Array 1500 cs QuickSpecs (URL below) for the latest list of supported HBAs |
|-----------------------------|---|----------|---|

Modular Smart Array 1000: http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML (Worldwide)
http://h18000.www1.hp.com/products/quickspecs/11033_na/11033_na.HTML (North America)

Modular Smart Array 1500 cs: <http://www.hp.com/go/MSA1500cs>

Maximum Storage Capacity - (ML570 10 Bay Hot Plug Ultra320 SCSI Drive Cage, 4 channel controller in 4 full-length PCI-X slots & MSA30 enclosures)

| | | |
|----------|---|--------------------|
| Internal | 3.00 TB ((10 x 300 GB) Ultra320 SCSI 1" Drives) | N |
| External | 67.2TB hot plug SCSI storage (16 x (14 x 300 GB 1" Ultra320 SCSI Drives)) | ht |
| Total | 70.20 TB | N |

[pk](#)
[ht](#)
[ht](#)
[N](#)
[ht](#)

Storage

Power Specifications

| | |
|---|------------------|
| Part Number | 337867-001 |
| Spare Kit | 364360-001 |
| Operational Input Voltage Range (V rms) | 90 to 264 |
| Frequency Range (Nominal) (Hz) | 47 to 63 (50/60) |

| Nominal Input Voltage (Vrms) | 100 | 115 | 208 | 220 | 230 | 240 |
|--|------|------|------|------|------|------|
| Max Rated Output Wattage Rating | 910 | 910 | 1300 | 1300 | 1300 | 1300 |
| Nominal Input Current (A rms) | 11.9 | 10.2 | 7.7 | 7.3 | 6.9 | 6.6 |
| Max Rated Input Wattage Rating (Watts) | 1163 | 1148 | 1566 | 1566 | 1548 | 1548 |
| Max. Rated VA (Volt-Amp) | 1186 | 1172 | 1598 | 1598 | 1579 | 1579 |
| Efficiency (%) | 80 | 81 | 83 | 83 | 84 | 84 |
| Power Factor | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Leakage Current (mA) | 0.43 | 0.50 | 0.90 | 0.96 | 1.00 | 1.04 |
| Maximum Inrush Current (A peak) | 100 | 100 | 100 | 100 | 100 | 100 |
| Maximum Inrush Current duration (mS) | 10 | 10 | 10 | 10 | 10 | 10 |

System Specifications

To determine power specifications for various system configurations, please use the online HP Power Calculator Tool referenced below.

| | | |
|-------------------------|--|---|
| Power cord requirements | Tower model comes with local power cord | Option no. See chart below Spare no. See chart below |
| | Rack models come with PDU jumper cord and/or local power cord. | Option no. See chart below Spare no. See chart below |

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/calc/power%20calculator%20catalog.xls>

- Click on the Power Calculator for the server of interest. Example: ML570 G3

| Standard Tower Model Power Cords | Description | |
|----------------------------------|---------------------------|--|
| Asia Pacific | CEE 7-VII to IEC320-C19 | |
| | JIS C8303 to IEC320-C19 | |
| | BS1363 to IEC320-C19 | |
| Australia | AS/NZS 3112 to IEC320-C19 | |
| Brazil | Nema 5-15P to IEC320-C19 | |
| Europe | CEE 7-VII to IEC320-C19 | |
| France | CEE 7-VII to IEC320-C19 | |
| Germany | CEE 7-VII to IEC320-C19 | |
| Japan | JIS C8303 to IEC320-C19 | |
| UK | BS1363 to IEC320-C19 | |
| USA | Nema 5-15P to IEC320-C19 | |

Power Specifications

| | | |
|--|----------------------------------|--------------------------------------|
| PRC | AS/NZS 3112 to IEC320-C19 | |
| | JIS C8303 to IEC320-C19 | |
| | BS1363 to IEC320-C19 | |
| Standard Rack Model Power Cords | Description | |
| Asia Pacific | IEC320-C14 to IEC320-C19 | |
| Europe | IEC320-C14 to IEC320-C19 | |
| Japan | JIS C8303 to IEC320-C19 | |
| | IEC320-C14 to IEC320-C19 | |
| PRC | IEC320-C14 to IEC320-C19 | |
| USA | Nema 5-15P to IEC320-C19 | |
| | IEC320-C14 to IEC320-C19 | |
| Optional Country Power Cords and Jumper Cords | Description | Option Power Cord Part Number |
| Argentina | | 227102-D01 |
| Australia/NZ | AS/NZS 3112 to IEC320-C19 | 295529-011 |
| Danish | | 157218-081 |
| Euro | CEE 7-VII to IEC320-C19 | 295529-021 |
| Italian | | 157217-061 |
| JPN | 12A 125V Straight (3.6m or 12ft) | 227100-291 |
| South Africa | | 157220-AR1 |
| Swiss | | 157219-111 |
| UK | BS1363 to IEC320-C19 | 295529-031 |
| UK | 12A 125V Straight (3.6m or 12ft) | 100613-003 |
| US | Nema 5-15P to IEC320-C19 | 227099-002 |
| US | 13A 125V Straight (3.6m or 12ft) | 227099-001 |
| US | 12A 125V Straight (3.6m or 12ft) | 227099-001 |
| WW | IEC320-C14 to IEC320-C19 | Tbd |
| WW | IEC320-C19 to IEC320-C20 | 142257-003 |

Technical Specifications

| | | | | |
|---|--|---|----------------------------------|--|
| System Unit | Tower Dimensions (HxWxD) (with feet/bezel) | 20 x 11.1 x 28.8 in (50.8 x 28.2 x 73.2 cm) | | |
| | Rack Dimensions (HxWxD) (with bezel) | 11.1 x 19.0 x 28.0 in (28.2 x 48.3 x 71.1 cm) | | |
| | Weight | 137 lb (62.14 kg) | | |
| | Input Requirements (per power supply) | Range Input Voltage | 100 to 127 VAC/200 to 240 VAC | |
| | | Rated Input Frequency | 47 to 63 Hz | |
| | | Input Power | 1163W @ 110 VAC; 1598W @ 200 VAC | |
| | BTU Rating | Rated Input Current | 12A / 8A | |
| | | BTU/hr (max) | 5457 BTU/hr | |
| | SCSI Connectors | Two internal HD68 connectors (supporting Wide Ultra3) | | |
| | | One external VHDCI connector (supporting Wide Ultra3) | | |
| One SCSI knockout | | | | |
| Power Supply Output Power (per power supply) | Rated Steady-State Power | 910W/1300W | | |
| | Maximum Peak Power | 960W/1420W for 10 sec max | | |
| Acoustic Noise | Listed are the declared A-WEIGHTED SOUND POWER (LWAd) and average bystander position A-WEIGHTED SOUND PRESSURE LEVEL (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74, 7th edition) and declared in accordance with ISO 9296 (ECMA 109). | | | |
| Idle and Operating (Maximum configuration): LWAd = 7.5 Bels, Average Bystander LpAm = 56 dBA (Note 1) | | | | |

NOTE: The values listed apply to both the tower and 6U rack configurations. Maximum configuration tested included four Xeon MP processors, ten SCSI hard drives, two power supplies, and six inlet fans.

| | | | | |
|---|--------------------------------|--------------|---|--|
| Slimline CD-RW/DVD-ROM 8X/24X Combo Drive (Multibay) | Disk | Disk formats | DVD (single and double layer), DVD-5, DVD-9, DVD-10, DVD-R, CD-ROM Mode 1 & 2, CD-DA, CD-XA (mode 2, Form 1 & 2), CD-I (Mode 2, Form 1 & 2), CD-I ready, CD-Bridge, CD-R, Photo CD(single and multi-session) | |
| | | Capacity | 4.7 GB (DVD-5), 8.5 GB (DVD-9), 9.4 GB (DVD-10), 550MB (Mode 1, 12 cm), 640 MB (Mode 2, 12 cm), 180 MB (8 cm) | |
| | Block Size | Mode 0 | 2352 bytes | |
| | | Mode 1 | 2352, 2340, 2336, 2048 bytes | |
| | | Mode 2 | 2352, 2340, 2336, 2048 bytes | |
| | | DVD | 2048 bytes | |
| | Access Times (typical) | Random | <110 ms CD <180 ms DVD | |
| Full-Stroke | | <200 ms CD | | |
| | | <300 ms DVD | | |
| Diameter | 12 cm, 8 cm (4.70 in, 3.15 in) | | | |

Technical Specifications

| | | |
|--------------------------------|---|---|
| Thickness | 1.2 mm (0.05 in) | |
| Track pitch | 0.74 μm (3.15 x 10 ⁻⁷ in) DVD-ROM 1.6 μm (6.3 x 10 ⁻⁷ in) CD-ROM | |
| Data Transfer Rate | Sustained | 4463 - 10,800 KB/2 (8x CAV DVD mode), 150 KB/s (sustained 1x CD-ROM), 1552 - 3600 KB/s (24x CAV CD-ROM) |
| | Burst | 16.6 MB/s with DMA support |
| Cache Buffer | | |
| Start-up Time (typical) | < 10 seconds | |
| Stop Time | < 5 seconds (single); < 30 seconds (multi-session) | |
| Laser Parameters | Type | Semiconductor Laser GaAs |
| | Wave Length | 700 \pm 25 nm |
| | Divergence angle | 53.5° \pm 1.5° |
| Output Power | 0.14 mW | |
| Operating Conditions | Temperature | 41° to 118° F (5° to 45° C) |
| | Humidity | 5% to 90% |
| Dimensions | (HxWxD, maximum) | 0.5 x 5.2 x 5.2 in (12.7 x 132.08 x 132.08 mm) |
| | Weight | 0.75 lb (0.34 kg) |

NC7782 Dual Port PCI-X Network Interface Gigabit NIC (embedded) 10Base-T/100Base-TX/1000Base-TX

| | | |
|------------------------------|--|--|
| Compatibility | IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX | |
| Data Transfer Method | 64-bit bus-master PCI-X | |
| Network Transfer Rate | 10Base-T (Half-Duplex) | 10 Mb/s |
| | 10Base-T (Full-Duplex) | 20 Mb/s |
| | 100Base-TX (Half-Duplex) | 100 Mb/s |
| | 100Base-TX (Full-Duplex) | 200 Mb/s |
| | 1000Base-TX (Half and Full-Duplex) | 2000 Mb/s |
| Connector | Two RJ-45 | |
| Cable Support | 10Base-T | Categories 3, 4 or 5 UTP; up to 328 ft (100 m) |
| | 100Base-TX | Category 5 or higher UTP; up to 328 ft (100 m) |
| | 1000Base-TX | Category 5 or higher UTP; up to 328 ft (100 m) |

Technical Specifications

| | | |
|--|--|---|
| Integrated Dual Channel Ultra320 SCSI Adapter | Drives Supported | Up to 15 SCSI devices per channel |
| | Data Transfer Method | 64-bit PCI bus-master |
| | SCSI Channel Transfer Rate | 320 MB/s per channel |
| | Maximum Transfer Rate per PCI Bus (peak) | 400 MB/s |
| | SCSI Termination | Active Termination |
| | SCSI Connectors | 1 external (VHDCI), 2 internal (68-pin) |

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