HP ProLiant ML370 G4 Storage Server

Data sheet

The HP ProLiant ML370 Storage Server is ideal for price conscious small to medium business (SMB) or remote offices that need more performance and scalability to support their file, print, and/or Microsoft Exchange. Built with two industry leaders—HP and Microsoft®—the ML370 Storage Server provides leading performance and availability along with the reliability and dependability that make HP ProLiant servers an industry standard. Microsoft Windows® Storage Server 2003 easily integrates into any Windows environment and supports file, print and Exchange.
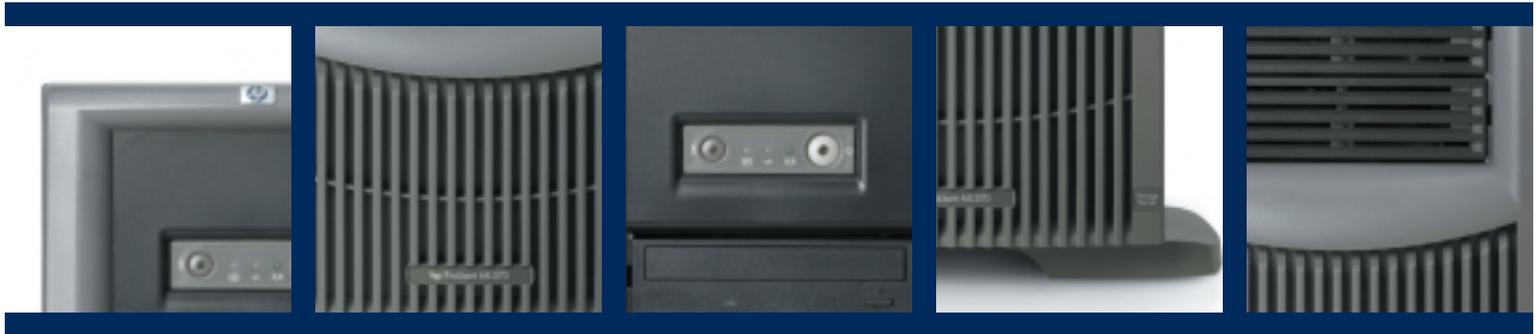
The ML370 Storage Server provides features such as easy setup and install, and heterogeneous file support. These features are enhanced with value added HP components that include integration of Services for UNIX® (SFU), Storage Manager Directory quota management and Array Configuration Utility (ACU) which can be administered through the web UI. Management and support features of the server include remote management with Standard Lights-Out support, a disaster recovery DVD, and full support for third party applications that complement file serving.

With the optional HP ProLiant iSCSI Feature Pack software the ML370 is capable of hosting file, print, and application storage (block) services on a single platform. Included with the iSCSI Feature Pack is HP Application Storage Manager. It delivers radically simple e-mail storage management to customers hosting Microsoft Exchange 2003 storage groups on HP Storage Servers.

The ML370 Storage Server provides internal storage of up to 1.8 TB of user data. Should additional storage be required the mixture of PCI-X and PCI-Express slots provide connectivity for external storage arrays—either SCSI or Serial ATA (SATA).

The HP ProLiant ML370 G4 Storage Server is a network attached storage (NAS) solution for small to medium business (SMB) or remote office customers that provides more performance, reliability and value for file, print and Microsoft Exchange.

The HP ProLiant ML370 Storage Server is a NAS solution that provides print services for networked printers in addition to file-sharing features. The optional iSCSI Feature Pack software allows you to supports hosting file, print, and block storage services on a single platform.

The product design versatility of the ML370 Storage Server allows the tower model server to fit in an office environment and to be converted to a rack when business needs require consolidation into a data center.

Features and benefits
Value:

• Configuration flexibility allows you to customize the amount and type of user storage

• The Smart Array 6402 controller allows you to utilize the hot-swap SCSI HDD drive bays that are integral to the server or add external storage

• Bundling the hardware and software provides greater value with a pre-tested and pre-configured solution that is ready to deploy

Industry leaders:

• HP NAS is built upon proven HP ProLiant server technology featuring single or dual processors

• HP ProLiant servers have a proven history of reliability, dependability and innovation based on standards

• Microsoft Windows Storage Server 2003 is based upon Windows Server 2003 with added features such as services for NFS, support for HP ProLiant iSCSI Feature Pack software, directory quotas, and unlimited Client Access Licenses (CALs)

• Installation in a Windows environment is quick and easy

Current and future needs:

• Current storage needs can be met by utilizing the hot-swap SCSI bay drives that have a capacity of up to 1.8 TB

• If current or future needs require even more capacity, take advantage of the upgrade kit for the Smart Array 6402 controller that provides two additional channels or add additional controllers with the available PCI slots

HP ProLiant ML370 Storage Server is ideal for price conscious small to medium business (SMB) or a remote office that needs higher performance when deploying file, print, and Exchange solutions. Higher performance, expandability, and remote management meets current and future business needs.

NAS convenience:

- Easy setup and installation are enhanced with HP's Rapid Start Wizard and the intuitive web UI for configuration and management tasks

- The ML370 Storage Server supports all the major file serving protocols including SMB/CIFS, NFS, NCP, AppleTalk, HTTP and FTP

- HP integrates additional features such as Services for UNIX (SFU), Storage Manager Directory quota management, and Array Configuration Utility (ACU), which can be administered through the web UI

- Microsoft Windows Storage Server 2003 standard operating system features such as Shadow Copy, share management, network protocol management and server hardware management are all part of the web UI

Manageability and support:

- HP Integrated Lights-Out (iLO) for remote management is standard on both models

- A Disaster Recovery DVD is provided should it be necessary to roll the operating system back to factory default settings

- Windows supported third party software packages that complement file serving such as antivirus, backup, replications, etc. are supported

Lower total cost of ownership:

- Using a NAS server to separate file serving from application servers allows you to consolidate servers and create shared storage

- By separating file serving from application servers your business' file serving will not be disrupted when an applications makes a server unavailable or a virus attacks the server

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System design	One Intel® Xeon™ 3.4 GHz 1 MB L2 cache 800 MHz front side bus (FSB) or dual processors on the High Performance Model (HPM)
Network interface	Integrated NC7761 10/100/1000
Form factor	5U tower
Management access	10/100 Ethernet (RJ-45) and serial port
Management	Telnet; and web user interface
Memory (standard)	1 GB standard on Base Model or 2 GB standard on High Performance Model (HPM)
Memory (upgrade)	Up to 4 GB
Storage controller	Smart Array 6402 Controller with 128 MB Battery-Backed Write Cache (BBWC)
Operating system	Microsoft Windows Storage Server 2003
Remote management	HP Integrated Lights-Out and HP Systems Insight Manager standard on both models
Internal storage capacity	No user internal storage is supplied with either model. Up to 6 SCSI HDD drive bays are available for user data with the 2-bay hot-plug SCSI drive cage. Utilizing 300 GB SCSI disk drives, the raw internal storage capacity is 1.8 TB. Note: A 2-bay hot-plug SCSI drive cage is standard on the High Performance Model.
External storage	Smart Array 6402 Controller can be upgraded to support a total of four channels. Externally supported arrays include HP StorageWorks Modular Smart Array (MSA) 20 SATA array (3 TB) and MSA30 SCSI array with a capacity of 4.2 TB.
Internal storage drive type	Hot-plug SCSI, customer can purchase disks as required, no minimum
Data protection	Hardware RAID 0,1, 1+0, 5, Advanced Data Guarding (ADG)
Redundant power supply	775W HP Standard/Optional HP redundant 1+1, redundant power supply standard on High Performance Model
Fans	Hot-plug (optional 3+3 redundancy); redundant fans standard on High Performance Model
Restore functionality	Dual operating system partition and Disaster Recovery DVD
Hot-swappable drives	Yes
Dimensions (HxWxD)	18.5 x 8.69 x 28 in/46.88 x 22.07 x 71.12 cm
Temperature range	50° F to 95° F/10° C to 35° C (operating) –40° F to 158° F/–40° C to 70° C (shipping)
Humidity range	10% to 90% (operating) 5% to 90% (non-operating)
Weight	70 lb/31.75 kg (without hard drives)

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Part number	Product name	Description
375639-XXX*	HP ProLiant ML370 Storage Server	Base Model—Single processor, 1 GB memory, non-redundant power supply and fans
375640-XXX*	HP ProLiant ML370 Storage Server	High Performance Model (HPM)—Dual processor, 2 GB memory, redundant power supply and fans, and 2-bay hot-plug SCSI drive cage
* Country code	The following are country codes for ordering a ML370 Storage Server solution specific to your country: XXX=001 US XXX=291 Japan XXX=011 Australia XXX=371 Asia Pacific XXX=161 Latin America XXX=421 Euro	
Options:		
287497-B21	1024 MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (1 x 1024 MB)	Base Model and HPM
331346-B21	CD-RW/DVD-ROM Combo Drive Option	Base Model and HPM
238547-B22	HP ProLiant Rack Enabling Kit	Base Model and HPM
244059-B21	ML3xx Two Bay Hot-plug SCSI Drive Cage	Base Model
T3669A	HP ProLiant Storage Server iSCSI Feature Pack Standalone Edition Note: Includes HP ProLiant Application Storage Manager Software	Base Model and HPM
T3671A	HP ProLiant Storage Server iSCSI Snapshots Standalone Edition Note: Snapshots feature upgrade for T3769A	Base Model and HPM
T3674A	HP ProLiant Storage Server iSCSI Backup Feature Standalone Edition	Base Model and HPM

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What's included	The HP ProLiant ML370 Storage Server ships with 1 or 2 Intel Xeon Processors (3.4 GHz) with 800 MHz FSB, 1 GB or 2 GB memory, 4 PCI-X and 2 PCI-Express expansion slots, NC7761 PCI Gigabit NIC (embedded), Smart Array 6402 controller with 128 MB BBWC, VHDCI SCSI internal to external cable kit, 2-bay hot-plug SCSI drive cage (High Performance Model only), two (2) 36.4 GB Ultra 320 drives for operating system, 1.44 MB diskette drive, DVD Drive, 4 hot-plug hard drive bays for user storage, Microsoft Windows Storage Server 2003 operating system, Disaster Recovery DVD and web UI in a tower form factor (5U) server.
Warranty and support	(3-3-3) Hardware Warranty; 3-year parts, 3-year on-site (standard business hours, next business day response), and 3-year labor. Note: The hardware warranty covers firmware and embedded non-saleable software. Saleable software carries its own warranty. HP's Limited Software Warranty; the software media will be free of physical defects for a period of ninety (90) days from delivery. EXCLUSIVE REMEDY. The entire liability of HP and its suppliers and your exclusive remedy for software that does not conform to this Limited Warranty shall be the repair or replacement of the defective media. This warranty and remedy are subject to your returning the defective media during the warranty period to HP in the country in which you obtained the software. Product installation is available, but not included in the warranty.
Warranty and support options	The basic warranty service can be enhanced and HP Installation services can be purchased. Support options with various response times and durations are available. These services include, but are not limited to, 4-hour same day and next day, as well as extended coverage periods, 24x7, 1-year and 3-year.
Financial Services	HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage, and ultimately retire your HP solutions. For more information on these services, please contact your HP sales representative or find us on the web at: www.hp.com/go/hpfinancialservices
HP Customer Support	HP Customer Support provides a broad spectrum of services to commercial and enterprise customers, including performance and availability services such as proactive mission-critical services and support management services for deployment of the entire IT infrastructure, including HP and multivendor environments. For more information on these services, contact your HP sales representative or visit www.hp.com/hps/support
For more information	For more information on the HP ProLiant Storage Server family visit: www.hp.com/go/storageservers

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