HP | **NetServers** | **E 60**

HP NetServer E 60
Product brochure

The Easy Server Your
Business Can Depend On

Easy to set up

Get up and running immediately

Setting up a server can be complex: Is everything compatible? How can performance be optimized without spending hours of valuable time fine-tuning it?

HP makes setting up a server easy by providing assistance every step of the way—from ordering to installation to configuration. With a smooth, fast setup, the HP NetServer E 60 helps workgroups start boosting their productivity and efficiency almost immediately.

Optimized for the leading Network Operating Systems (NOS)—including Microsoft® Windows NT® Server, Microsoft BackOffice Small Business Server, Novell NetWare and Novell NetWare for Small Business, Red Hat Linux, and SCO OpenServer—the HP NetServer E 60 features automated hardware configuration and an integrated and configured network adapter, streamlining and simplifying your setup.

Whether you're setting up a server to share resources such as printers and scanners, or to share information and applications, the built-in HP NetServer Navigator will help you sail through the configuration process, including the NOS installation. You can be assured everything is set up correctly—and configured for optimum performance.

Assured compatibility
So there's nothing to slow you down, the HP Order Assistant ensures that all the right parts are ordered, and an integrated Tested Products List helps you check for HP and third-party add-on compatibility.

Automated hardware configuration
You won't have to spend hours fine-tuning third-party cards and accessories either—the HP Navigator will automatically recognize and configure most add-in cards.

Automated NOS installation
With Microsoft Windows NT Server, Microsoft BackOffice Small Business Server, and Novell NetWare, the HP NetServer E 60 will guide you easily through the NOS installation process.

Instant setup assistance
Have a question? Search the HP Information Assistant—a comprehensive online help reference built into the HP NetServer E 60—for an instant answer.

"I want a server that's easy to set up so I can plug it in and get back to my real job!"

Branded server or generic box?
Why trust your network to a generic box, when you could have a name brand server that's designed specifically for all the tasks at hand? An HP branded server can benefit your network with these advantages:

- The high performance design and rigorous quality standards that all HP products must meet
- Optimized and certified to run Network Operating Systems for top performance
- Management tools and failsafe features for high reliability and security
- Tested and proven compatibility with a wide range of third-party accessories
- Part of a full solution, encompassing partners, programs, and third-party relationships, for more choices and more informed support

Best of all, while an HP branded network server gives you so much more, you'll find it doesn't cost much more than a generic box.

HP NetServer E 60 highlights

- HP NetServer Navigator bootable CD to get you up and running immediately and to automate and ensure proper hardware configuration

- Automated Microsoft Windows NT, Microsoft BackOffice Small Business Server, and Novell NetWare installation process

HP NetServer E 60 highlights

- Comprehensive integrated backup solution contains the HP SureStore Travan T20Xi tape drive complete with free backup and disaster-recovery software

- 10GB native capacity, up to 20GB with data compression

- Disaster recovery capability at no additional cost

- One-click backup, and an integrated scheduler

- Install/Configuration wizard

- Object Replication Technology enables full read/write access during the backup process

Key points of the HP SureStore Travan T20Xi Tape drive

- The HP SureStore T20Xi brings you a backup and restore solution, complete with full disaster-recovery capability, at an extremely low price with great easy-to-use features.

- Disaster Recovery gives you the ability to restore a complete server hard drive—including operating system and data files—from a set of floppy disks and your backup tapes, without having to first reinstall and manually configure your operating system from CD-ROM disks.

- The One-Button Backup feature allows you to back up a server with the touch of an icon.

- A built-in scheduler allows backups to occur at any time, even if the system is unattended at the time.

- A recessed bezel adds protection for the tape cartridge.

"I want a backup solution that's fast, easy, and reliable, so I don't wake up at 3 a.m. worrying if our customer database is safe."

An excellent value
Stac Replica Backup software, HP SureStore Tape Edition, features full disaster recovery capability, one-click backup, and an integrated scheduler—all at no additional cost.

An optimized solution
The HP SureStore T20Xi tape backup is specially designed and optimized for use with HP NetServer E 60 servers—for ease of use and maximum performance and dependability.

A range of optional backup choices
From the exceptionally cost-effective HP SureStore T20Xi bundle to the high-performance HP SureStore Digital Audio Tape (DAT) accessory, there's a solution for you.

Integrated HP SureStore T20Xi tape backup solution

Easy to back up

Safeguarding your business-critical information

From your confidential customer information to future product plans to financial documents—you can't afford to lose information that gives you a competitive advantage. A solid backup system can give you peace of mind.

Hewlett-Packard is the world leader in information storage solutions and offers a wide range of products that provide cost-effective insurance against data loss.

The HP NetServer E 60 backup bundle—complete with the HP SureStore T20Xi, a low-cost tape backup system, comes with the easy-to-use Stac Replica Backup software. Stac Replica Backup for Windows NT Server and NetWare, HP SureStore Tape Edition, features disaster recovery capability, one-click backup, and an integrated scheduler. Also included is an installation wizard to simplify the backup software installation process and a configuration wizard that makes setting up the backup process very simple. Dependability and convenience have rarely been this easy or this affordable.

Easy to troubleshoot

Friendly and dependable for maximum peace of mind

When you have little or no dedicated support, time spent tending your server is time spent away from your business: You need a server you can rely on for maximum uptime—and that's exactly what you'll get with the HP NetServer E 60.

From extensive self-tests to Error Checking and Correcting (ECC) memory to Automatic Server Restart (ASR), the HP NetServer E 60 is designed to monitor and correct itself. If your attention is needed, the HP TopTools for Servers Auto Alert will notify you via an onscreen message and suggest potential issue resolutions using easy-to-understand language.

Need more information? Innovative HP TopTools for Servers lets you easily view and monitor key server information. From configuration to alert history to server status, it's all there for local or remote access. Going one step further, HP TopTools for Servers Remote Console enables your authorized support provider to monitor and troubleshoot your HP NetServer E 60 server remotely. You enjoy immediate results, including faster issue resolution, because your reseller can get your system up and running in the time it normally takes to drive to your site.

HP TopTools for Servers Auto Alert
Relax, your server is on autopilot. The simple, friendly HP TopTools for Servers Auto Alert, the only management tool designed specially for non-IT experts, will notify you if there's an issue, and recommend alternatives for resolving it—fast.

Easy access to key server information
HP has made TopTools even easier to use. Now optimized for the small-to-medium business customer, Local TopTools for Servers is a stand-alone method of using TopTools for troubleshooting that does not require a dedicated web server.

HP Service and Support website
Convenient, around-the-clock access to products and part information, Tested Products List, software updates, plus a troubleshooting center for fast resolution to known HP NetServer issues.
http://www.hp.com/go/netserver.

HP Proactive Notification
Receive e-mail notifications of the latest technical updates, including the availability and location of new drivers and patches. Diagnose issues and solve problems before they occur.
http://www.hp.com/go/netserver.

"Remote control" management
Authorize your support provider to remotely monitor, manage, and troubleshoot your server as if they were sitting beside you.

Wide range of HP and reseller support options
A broad choice of hardware and software support options are available—up to 24 hours a day, 7 days a week.

"I want a server so dependable it doesn't need troubleshooting. Avoiding problems before they start is my idea of troubleshooting."

What do ASR and ECC do?

- Industry experts estimate that 80 percent of server stoppages are caused by hangs in the Network Operating System (NOS). Automatic Server Restart (ASR) and Error Checking and Correcting (ECC) memory—valuable server reliability features not found on desktop PCs—help ensure maximum availability.

- ECC memory helps minimize system hangs in the first place, and ASR automatically reboots a server when a stall does occur, getting the system back up and running immediately.

HP NetServer E 60 highlights

- Built-in Automatic Server Restart (ASR)

- Error Checking and Correcting (ECC) memory

- HP TopTools for Servers performs continuous, automated monitoring of critical system components, and employs a user-friendly interface for easy access to the information

- HP TopTools for Servers Auto Alert provides proactive warning of problems and advice on quick resolution, through a friendly "traffic light" user interface

- HP TopTools for Servers Remote Console capability enables remote server management and troubleshooting

HP NetServer E 60 highlights

- Dual processing capability

- Seven mass storage shelves accommodate four hard disk drives, one flexible disk drive, one CD-ROM drive, and an HP SureStore T20Xi tape drive (in certain models)

- Six expansion slots: five PCI, one PCI/ISA combination

- Expandable SDRAM memory to a maximum of 1GB

- HP TopTools for Servers Auto Alert provides automatic notification when more hard disk capacity is needed

What will your network needs be tomorrow?

- Today's applications require more processing power than the standard uniprocessor of yesterday. The HP NetServer E 60 responds to this need by supporting up to two of the latest Intel® Pentium® processors.

- Servers are specially designed for expansion, offering much more room to grow. As your network needs change, you may want to add more memory and hard disk capacity to ensure optimum efficiency.

- With more free expansion slots, larger hard disks, and the ability to add external storage, servers are uniquely designed to accommodate your changing needs and leverage your capital investments.

Easy to expand

Flexibility and expandability for the future

In today's fast-moving business environment, staying competitive means being able to adapt quickly to change and opportunity. For long-term maximization of your server investment, you need a server that can change and grow with your network needs—from adding more memory and storage to adding new users and applications.

HP NetServer E 60 servers have plenty of room to grow, starting with seven mass storage shelves, six expansion slots, and an optional external disk array.

Upgrading applications or adding more users to your network? These activities can place greater demands on your server, calling for more memory for optimal performance. No problem: HP NetServer E 60 servers can be expanded up to a maximum of 1GB of Error Checking and Correcting (ECC) SDRAM memory and come standard with 4MB of video memory.

Best of all, because the built-in HP TopTools for Servers Auto Alert is constantly monitoring your server, it will let you know automatically when more storage is needed. What could be easier?

"I need a server that can grow right along with my business. Even better— I'd like one that could tell me when it needs to grow!"

Lots-o'-slots
Seven mass storage shelves and six expansion slots give you plenty of room to grow.

Expandable memory
Installing a memory-hungry application? Expand the Error Checking and Correcting (ECC) memory up to 1GB maximum.

Up to 72GB internal storage
Plug 18GB of storage into each of the four free mass-storage shelves for a maximum of 72GB of internal storage.

Optional external storage
Future growth is easy. The optional HP NetServer Storage System/6 allows maximum expansion.

Automatic capacity planning
Not sure if your server needs more storage? The HP TopTools for Servers Auto Alert will continuously monitor your hard disk capacity and automatically tell you when the time is right.

HP NetServer E 60

Product Highlights

Benefit	Key Product Features
Easy to set up	• HP Order Assistant and integrated Tested Products List help ensure that all the right parts are ordered and compatible • HP NetServer Navigator bootable CD to get up and running immediately; to automate and ensure proper hardware configuration; to provide guided installation process for Microsoft Windows NT, Microsoft BackOffice Small Business Server, and Novell NetWare • Integrated HP NetServer 10/100TX LAN adapter (NIC)
Easy to back up	• Specially designed one-click HP SureStore T20Xi tape backup solution bundled on selected HP NetServer E 60 models, at a great value price with FREE backup software • Backup solution supports full disaster-recovery capability as well as Object Replication Technology which provides fast data backup • HP SureStore T20Xi provides 10GB native storage capacity and up to 20GB compressed, integrated backup scheduler, and configuration wizard with disaster-recovery capability • Optional, high-performance HP SureStore DAT backup solution • Support for referenced solutions Stac Replica, Cheyenne, and Seagate
Easy to troubleshoot	• HP TopTools for Servers Auto Alert for continuous monitoring of critical system components and backup solution; provides proactive warning of potential problems and advice on quick resolution • HP TopTools for Servers Web Interface for easy web-based access to key server information • HP TopTools for Servers Remote Console for remote server management and troubleshooting • HP TopTools for Servers links to latest HP NetServer product information posted to the HP NetServer Service & Support website • Extensive built-in self-tests
Easy to expand	• Seven mass storage shelves: one with flexible disk drive, one with CD-ROM, four HDD shelves, and one shelf for T20Xi tape drive (on select models) • Six expansion slots: five PCI, one shared PCI/ISA combination • Expandable RAM to a maximum of 1GB • Optional HP NetRAID adapter (disk array controller) for use with external HP NetServer Storage System/6 • HP TopTools for Servers Auto Alert provides automatic notification when more hard disk capacity is needed
HP reliability for maximum dependability	• Built-in Automatic Server Restart (ASR) • Error Checking and Correcting (ECC) memory • Broad choice of HP and reseller onsite support options up to 24 hours a day

Product Features

Specifications	
Processors	Up to two Intel Pentium II 400MHz or 450MHz, or up to two Pentium III 500MHz or 550MHz with 512KB cache
Network Operating Systems[†]	Supports Novell NetWare, and Novell NetWare for Small Business; Microsoft Windows NT, Microsoft BackOffice Small Business Server; Red Hat Linux; SCO OpenServer
Memory	64MB ECC standard SDRAM memory, expandable to 1GB
Video	4MB standard SDRAM video memory (up to 1280x1024, 256-color)
Mass Storage	Seven mass storage shelves: three are front accessible (pre-installed CD-ROM drive and flexible disk drive on all models; integrated T20Xi tape drive on select models) and four are internal hard disk drive shelves.
SCSI Controller	Integrated dual-channel Ultra/Wide SCSI controller
Network Interface Controller (NIC)	Integrated HP NetServer 10/100TX LAN adapter
Built-In I/O Ports	One 25-pin parallel, two 9-pin serial, video, mini-DIN keyboard and mouse
Total I/O Slots	Six total: five PCI, one PCI/ISA combination
Backup	Integrated HP SureStore T20Xi with 10GB native storage capacity (and up to 20GB compressed) running Stac Replica Backup and disaster recovery software on some models

† The HP NetServer E 60 is designed and optimized for Novell NetWare versions 4.2 and 5, NetWare for Small Business 4.2; Microsoft Windows NT Server versions 3.51 and 4.0; Microsoft BackOffice Small Business Server 4.5; and SCO OpenServer 5.05. These versions of Novell NetWare, IntranetWare, Microsoft Windows NT Server, and SCO OpenServer are the only tested, certified, and supported Network Operating Systems on the HP NetServer E 60. Customers who choose to downgrade to older versions of these Network Operating Systems or to install any other NOS will not receive support from Hewlett-Packard for any software problems. Drivers for other operating systems are not distributed by Hewlett-Packard for the HP NetServer E 60.

HP NetServer E 60

Reseller Support Services

HP's broad range of innovative support choices continues to grow.

You can benefit from the comprehensive package of proactive and preventive support services—available through your reseller—to maintain, update, and troubleshoot your server. We've provided resellers with easy-to-use server management tools and comprehensive remote support that maximize system uptime and minimize unplanned downtime.

For additional information about Hewlett-Packard's Reseller Support Services program, contact your reseller or visit the HP NetServer website at www.hp.com/go/netserver.

E 60 Optional Accessories	Product No.
To add memory (4 slots)	
64MB SDRAM	D7155A
128MB SDRAM	D7156A
256MB SDRAM	D7157A
To add extra storage (4 storage shelves; no trays needed; disk drives must be 1" high)	
9.1GB Ultra/Wide SCSI hard disk drive (7200rpm)	D4911A
9.1GB Ultra/Wide SCSI hard disk drive (10000rpm)	D7049A
18GB Ultra/Wide SCSI hard disk drive (7200rpm)	D7176A
E 60 Internal SCSI Cable (for internal duplexing)	D8212A
Highest-value backup solution	
HP SureStore T20Xi providing 10GB native storage and up to 20GB compressed (using data compression software)	C4401A
Highest-performance backup solutions	
HP SureStore T20i Internal tape drive (disaster recovery not included)	C4394A
HP SureStore T20e External tape drive (disaster recovery not included)	C4395A
HP SureStore DAT8i Internal DDS2 Drive (8GB)	C1528K
HP SureStore DAT24i Internal DDS3 Drive (24GB)	C1555D
HP SureStore DAT24x6e External Autoloader	C1559B
HP SureStore DLT40e External DLT (40GB)	C1579A
To add external storage, hot-swap capability, or additional SCSI controllers	
HP NetServer Storage System/6 cabinet	D3604B
HP NetRAID-3Si disk array controller (3-channel)	D5955A
2.5-meter external SCSI cable (used when connecting to HP NetServer System Storage/6)	D3637C
HP PCI Ultra/Wide SCSI adapter	D5025A
E 60 SCSI cable kit (connect to D5025A)	D5968A
E 60 External SCSI Cable (enables external SCSI port)	D8214A
HP NetRAID-1Si disk array controller (1-channel)	D2140A
E-Series DAC kit (connects to HP NetRAID-1Si)	D9153A
Monitors	
HP Ultra VGA 1024 14" color monitor	D2821S
HP 50 15" color monitor	D2826A
HP 70 17" color monitor	D2837A
To install additional network adapters (one is standard)	
HP NetServer 10/100TX PCI LAN adapter	D5013A
Rack Mount Kit	J1469A
Upgrade kits	
Pentium II 400MHz, 512KB L2 cache	D6092A
Pentium II 450MHz, 512KB L2 cache	D7032A
Pentium III 500MHz, 512KB L2 cache	D7129A
Pentium III 550MHz, 512KB L2 cache	D8583A

Other Specifications

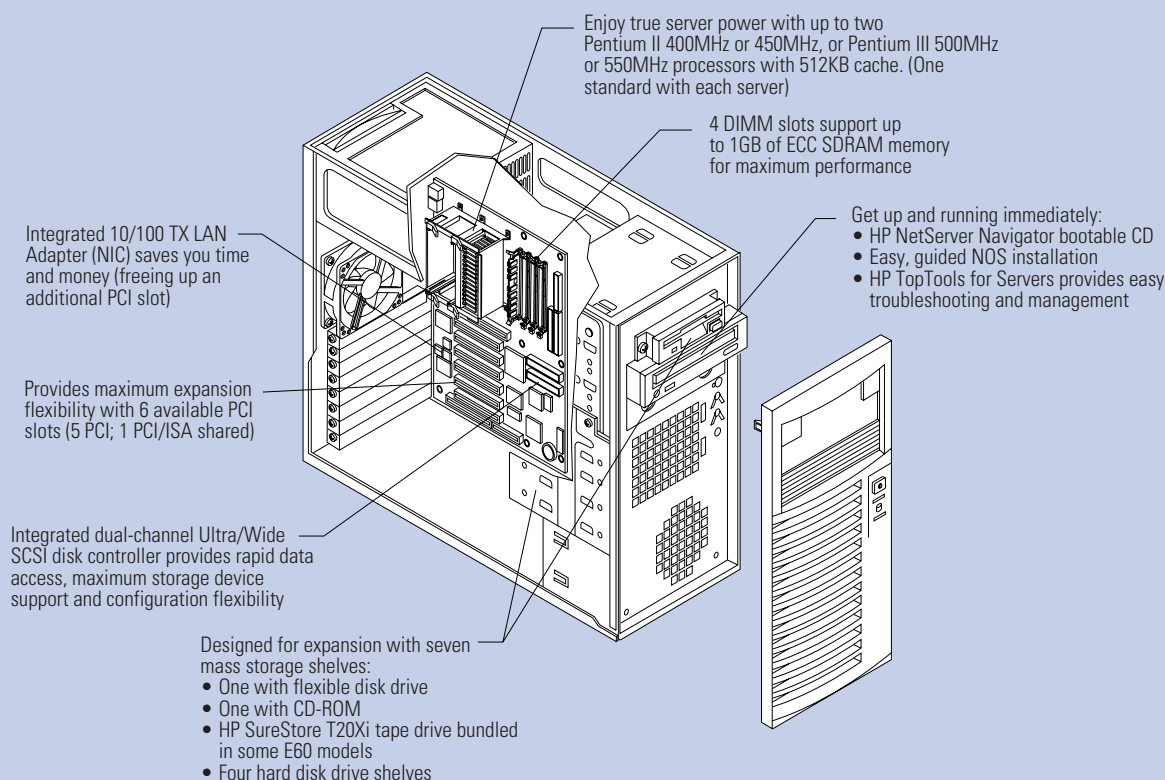|	
Operating Temperature	5° to 35° C (41° to 95° F)
Operating Humidity	20% to 80% noncondensing
Acoustic Emissions	Sound level (LpA): < 50 dB(A)
Power Supply	nominal, 100–127/200–240V AC, 50/60Hz; range, 90–140/180–264V AC, 47/63Hz
Power Consumption	305W continuous max with 110/220V supply
Energy Efficiency	70% with 110/220V supply
Power Availability	256W continuous
System Dimensions	434mm (17.09")H x 180mm (7.10")W x 500mm (19.69")D
System Weight	33lbs (not including keyboard, mouse, navigator)

Regulatory Compliance

Electromagnetic Compliance	CISPR 22 Class B (International) EN 55022 Class B (EU Countries) EN 50081-1, Generic Emission EN 50082-1, Generic Immunity (EU Countries), includes: • IEC 801-2, ESD • IEC 801-3, RI • IEC 801-4, EFT • IEC 60001-3-2/3 FCC Class B self-declared (USA/Canada) M of C Class A (Korea) VCCI Class 2 (Japan) BSMI Class A (Taiwan)
Safety Compliance	EN 60950 Compliance (International) NOM (Mexico) TÜV Certified (Germany) UL and CUL Listed (USA and Canada File E139742)

Support Your Business Can Depend On

HP's legendary commitment to support is especially valuable to self-supported workgroups. Count on HP and its authorized support providers to ensure optimum system installation, quickly resolve any unforeseen network issues, and assist with general server maintenance—today and tomorrow. HP offers a broad range of innovative support choices to meet your needs. Complete information at: http://www.hp.com/netserver/servsup/eservice/

HP SupportPacks	Order Number
3-year, onsite, next business day	H5525A
3-year, onsite, with 4-hour response	H5517A
3-year, onsite, 7-day , 24-hour,	H5512A
Onsite installation and network configuration	H5754A

HP SupportPacks for LAN Look for the latest updates on our website.	Order Number
Standard hours, 5 incidents	H5570A
24-hour, 7-day, 5 incidents	H5571A
Standard hours, 10 incidents	H5572A
24-hour, 7-day, 10 incidents	H5573A

HP NetServer E 60

Enjoy true server power with up to two Pentium II 400MHz or 450MHz, or Pentium III 500MHz or 550MHz processors with 512KB cache. (One standard with each server)

4 DIMM slots support up to 1GB of ECC SDRAM memory for maximum performance

Integrated 10/100 TX LAN Adapter (NIC) saves you time and money (freeing up an additional PCI slot)

Get up and running immediately:
• HP NetServer Navigator bootable CD
• Easy, guided NOS installation
• HP TopTools for Servers provides easy troubleshooting and management

Provides maximum expansion flexibility with 6 available PCI slots (5 PCI; 1 PCI/ISA shared)

Integrated dual-channel Ultra/Wide SCSI disk controller provides rapid data access, maximum storage device support and configuration flexibility

Designed for expansion with seven mass storage shelves:
• One with flexible disk drive
• One with CD-ROM
• HP SureStore T20Xi tape drive bundled in some E60 models
• Four hard disk drive shelves

Configuration and Models

Name	Model	Product No.	Hard Disk/Tape Drive
HP NetServer E 60 PII/400	M1	D7140A	None
HP NetServer E 60 PII/400	M9	D7141A/T	9.1GB HDD
HP NetServer E 60 PII/400	M9B	D7142A/T	9.1GB HDD, T20Xi tape with software
HP NetServer E 60 PII/450	M1	D7144A	None
HP NetServer E 60 PII/450	M9	D7145A/T	9.1GB HDD
HP NetServer E 60 PII/450	M9B	D7146A/T	9.1GB HDD, T20Xi tape with software
HP NetServer E 60 PIII/500	M1	D7148A	None
HP NetServer E 60 PIII/500	M9	D7149A/T	9.1GB HDD
HP NetServer E 60 PIII/500	M9B	D7150A/T	9.1GB HDD, T20Xi tape with software
HP NetServer E 60 PIII/550	M1	D9123A	None
HP NetServer E 60 PIII/550	M9	D9124A/T	9.1GB HDD
HP NetServer E 60 PIII/550	M9B	D9125A/T	9.1GB HDD, T20Xi with software

All models include

64MB SDRAM standard, flexible disk drive, Integrated 10/100TX LAN Adapter, dual-channel Ultra/Wide SCSI controller, CD-ROM, HP Navigator, Windows® keyboard and mouse.

Note: All models not available in all worldwide regions

For The Latest Information

HP FAX Response System	1-800-333-1917 (U.S.) 1-208-344-4809 (worldwide from fax only)
HP NetServer Literature	1-800-322-47872

Support

Support can be delivered by your local reseller or by the Hewlett-Packard Customer Support organization.

STAY IN TOUCH

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HP NetServer E 60 is also available through the HP Select Express Program. This program offers custom integration of HP hardware offered at HP's lowest price. For more information visit our website at: http://www.hp.com/netserver/products/sep.