




HP ProLiant servers

Simple, affordable computing

Solution Guide





Entrusting your business to a server helps you protect important information and enhance the efficiency of key processes, while also laying a reliable foundation for growth in whatever direction – and at whatever pace – suits you. Choosing an HP ProLiant server makes it simple and affordable. And this guide outlines why.

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The reliable answer to business change

If there's one constant in business, it's change.

For companies that rely on paper-based processes, it might be as simple as a client switching to e-mail, meaning you can no longer invoice by fax. And even with some basic IT in place, you must protect and share information while ensuring you can flex on demand. Relying on PCs alone can lead to information being lost. A server offers a much more robust and flexible solution.

For companies with limited or no IT staff, identifying, deploying and managing the right server may seem a daunting and expensive challenge. In fact, you can purchase a server for as little as the cost of a sophisticated desktop. And the cost of deploying and maintaining it is lower than that of data loss or inefficient resource sharing.

How can this guide help?

HP ProLiant server solutions – part of the HP Smart Office Portfolio – combine smart advice, smart technology and smart services to help ensure simplicity and affordability from the start.

This guide can help, by focusing on the process and benefits of:

- Deploying a first server
- Upgrading and expanding an existing server network
- Selecting the appropriate model, options and services

Plus, you can always turn to a local HP partner for any further details.

Why deploy your first server?



Until now, you may have relied on interconnected PCs to share files, printers and resources, perhaps using one PC as a central storage resource. Although adequate for one to five users, this “peer-to-peer” setup can restrict growth, reduce access speeds, and make it difficult to protect information so it’s available when you need it.

A server-based network provides the same essential networking capabilities (e.g., data access, e-mail and applications for other computers), but adds a host of other essential capabilities too.

Superior reliability

To keep operations running, server components are engineered for reliability. E.g., data can be “mirrored” from one hard drive to another so that, if the primary drive fails, you can still access your data. This redundancy feature is available on components such as power supplies and cooling fans too.

Robust data protection

Whereas peer-to-peer setups can be highly susceptible to attack, servers provide a more robust foundation for data and business protection. You can easily install a firewall, anti-virus software, or connect simple backup-and-restore devices (e.g., tape drives).

Enhanced productivity

With the ability to access a centralised repository of applications and data at speeds typically two to three times quicker than on peer-to-peer networks, staff are instantly more efficient.

Reduced administration and cost

A server enables better control of hardware and data assets. Users can access information and applications without conflicts, and support partners can manage effectively with a single view of the network.



Why choose HP ProLiant servers?

For business protection

- World-class reliability, availability and security based on engineering excellence, intensive testing and industry-leading partnerships
- Wide selection of optional or standard redundant components
- Add optional HP StorageWorks tape drives with HP One-Button Disaster Recovery for rapid data backup and restore

For outstanding value

- Broad range of affordable servers, configurations and options
- Flexible approach – select only what you need to help keep acquisition costs low
- HP experts help you make the best choices, boosting efficiencies and reducing costs over a lifetime of ownership

For hassle-free ownership

- Single point of contact for end-to-end coverage and unmatched expertise
- Microsoft Windows Server™ 2003 operating system available preloaded on some models
- Range of HP Care Pack Services available for installation, startup and ongoing support from a local partner
- Comprehensive management via HP Systems Insight Manager software – support partners can monitor server health and fix potential failures before they affect operations

For a simple visual representation of a first server network, turn to page 14.

Why upgrade an existing server network?



If you already operate a small server network, there are a number of reasons to consider upgrading or expanding it with the capabilities of new or additional servers.

Increased performance and availability

Under pressure to keep services available and achieve more in less time? Technologies to boost server availability and performance are constantly advancing. For instance, with HP you can easily upgrade or refresh existing servers without a huge acquisition cost.

Migrating from an outdated operating system

If you run either Microsoft® Windows NT® 4.0 or Windows® 2000, you're potentially at risk from, for example, new virus threats because Microsoft no longer supports these outdated systems. Migrating to the newer Microsoft Windows Server™ 2003, on up-to-date server hardware built to run it, ensures ongoing performance and security.

Coping with increased workloads

If your server is now running far more than the one or two applications you originally deployed it for, performance may be slow and unreliable. By spreading the load over two or more servers, you can dedicate mail and messaging, database, web hosting and more to only the departments that need them, for greater performance, reliability and cost efficiency.

For file and print, you may wish to deploy a storage server, with superior storage capacity and expansion possibilities. HP ProLiant storage servers even come with the optimised operating system, Windows Storage Server 2003, preinstalled.



Why choose HP ProLiant servers?

To capitalise on change

- Consistently first in delivering breakthrough technologies at affordable prices
- Comprehensive choice of servers, configurations, operating systems, processors, storage, software and more to help you expand in the right direction
- Consistency in components (e.g., hard drives, memory and network adaptors) means there's no need to start over or re-train staff when you grow

To simplify network management

- HP Systems Insight Manager (HP SIM) provides single-console monitoring and management of your expanded IT infrastructure
- HP ProLiant Essentials software provides modular tools to expand server capabilities with rapid deployment, remote management and more
- Reliable, easy-to-own technologies integrate seamlessly with each other, and your existing HP and standards-based IT

To grow with confidence

- HP's heritage of standards-based innovation helps lower costs and mitigate risk by delivering a better fit across products and solutions
- Get the right technology at the right price – and do business where and how you want – with HP or one of thousands of resellers and service partners
- Overcome any budget restrictions by acquiring your solution with flexible financing terms

To see how a more advanced network using several dedicated servers might look, turn to page 16.

New technologies for advanced capabilities and a lower cost of ownership

To protect current investments in HP technology, the following options are engineered for seamless integration with each other, and with previous-generation HP products, components and management software. They are also ideal for first-time server purchasers seeking advanced capabilities from day one.

Dual-core processors from AMD and Intel®

HP offers a broad portfolio of ProLiant servers featuring dual-core processors from both AMD and Intel. The new HP ProLiant BL25p, BL30p and BL45p blade servers feature the latest AMD Opteron™ 200 series dual-core processors to help eliminate system architecture challenges and bottlenecks, while the HP ProLiant ML110 G3 Server features Intel Pentium® D dual-core processors for greater performance in a compact chassis.

Optimum storage performance

To meet your specific storage needs adequately and affordably, all HP platforms now support universal hard disk drives. A choice of traditional SCSI or next-generation **Serial Attached SCSI (SAS) drives** available from HP means you can allocate storage according to the importance of the data you wish to store. This new serial interface augments performance and allows greater density by reducing drive size to small form factor.

So, when you need storage to support high workloads or mission-critical applications, choose SAS drives. Their benefits include:

- High performance (3-Gb/s transfer speeds)
- Superior reliability
- 50% lower power consumption (with 2.5-inch drives)

For data that you access less often, you can save unnecessary expense by using low-cost SATA drives instead. And, to optimise your storage, you can install a mix of both SAS and SATA drives in the same enclosure*, for a future-proof infrastructure that also protects your existing storage investments.

* So long as the system is an inherent SAS system.



Ongoing data protection

As you change and grow your disk storage, it's important to protect your business and its data assets. HP Smart Array controllers ensure the flexibility, reliability and manageability you need, enabling you to:

- Safely deploy large-capacity drives and create large storage volumes
- Establish cost-effective data protection
- Implement highest-level fault tolerance – e.g., through RAID 6 or ADG (Advanced Data Guarding) technology

Compatibility between controllers makes them simple to upgrade and expand into larger, shared-storage environments. They support both SATA and SAS universal hard drives. And your technical support team or partner can easily optimise, troubleshoot and expand configurations using a single, consistent interface.

Increased network efficiency

HP continues to evolve traditional networking technologies to keep you working at the speeds you demand. With **HP multifunction network adaptors**, for example, you can run either cluster, storage (iSCSI) or network interconnection from the same device reducing TCO while increasing server performances with support of TOE (TCP/IP Offload Engine) and RDMA (Remote Direct Memory Access) functionalities.

For even greater efficiency, you can manage and adapt network paths dynamically using the **HP ProLiant Essentials Intelligent Networking Pack**, increasing performance and availability without adding the cost of a complicated network hardware solution. It also provides Virus Throttle technology to reduce virus threats before they spread to the entire network.

Choosing a suitable server

The following table provides a simplified guide to choosing the most appropriate server for your business needs and environment, based on the applications you need to use it for and the number of users it is intended to support. Detailed information, including recommended servers for database applications, is available from local HP channel partners.

HP ProLiant options

HP offers a complete portfolio of options built around ProLiant servers to help you adapt to continuously changing business needs, simply and affordably. These ensure best-in-class hardware, software and services integration, and enable you to meet your specific needs for performance, capacity, availability, manageability and infrastructure – thereby unleashing the full power of your HP ProLiant solution. Find out more at: www.hp.com/eur/hpoptions

Application	1 – 25 users	25 – 75 users	75 – 400 users	400 – 1000 users	Things to consider
Pure file and print	HP ProLiant ML110 Storage Server	HP ProLiant ML110 Storage Server HP ProLiant ML350 Storage Server	HP ProLiant ML350 Storage Server HP ProLiant ML370 Storage Server	HP ProLiant ML370 Storage Server	<ul style="list-style-type: none"> Amount of memory will determine print-management speed. All ProLiant storage servers come pre-configured with Microsoft Windows Storage Server 2003.
Microsoft Windows Small Business Server™ 2003 (SBS 2003) – can be preloaded on select server configurations	HP ProLiant ML110 Server HP ProLiant ML150 Server HP ProLiant ML310 Server	HP ProLiant ML150 Server HP ProLiant ML350 Server	N/A (SBS solutions support up to 100 users approx.)		<ul style="list-style-type: none"> Install requires at least 768 MB of memory. Allocate up to 2.5 GB of disk space per user. SBS requires a Client Access License (CAL) for every user or shared device. Choice of SBS 2003 Standard and Premium editions available; both can be pre-installed on selected ProLiant server models – find out more at www.hp.com/go/windowssbs
Linux® Small Business Suite – can be preloaded on select server configurations	HP ProLiant ML150 Server or HP ProLiant ML350 Server				<ul style="list-style-type: none"> At least 1 GB of memory, required by the multiple applications contained in SBS. Allocate 0.5–2.5 GB for each user for data storage. HP offers the OS factory-installed or on CD.
File and print + all-purpose on Linux (Novell OES, Red Hat, SuSE)	HP ProLiant ML150 Server	HP ProLiant ML150 Server HP ProLiant ML350 Server	HP ProLiant ML350 Server HP ProLiant ML370 Server	HP ProLiant ML370 Server	<ul style="list-style-type: none"> File and print is not CPU-intensive. Adding a second processor for this alone will have no significant impact, but is recommended for running additional applications. Amount of memory will determine print-management speed. Windows requires at least 256 MB of storage space; 512 MB is recommended. With an additional 512-MB memory, this file-and-print server can also be used as the domain controller. Having separate domain controllers in an SMB environment is highly unlikely; an existing system is often used as the domain controller. In the past, HP has recommended using a file and print server as the domain controller. The easiest approach is to add 512 MB of memory to any system that is going to be a domain controller.
File and print + all-purpose on Microsoft	HP ProLiant ML110 Server HP ProLiant ML310 Server				
Domain controller					
Messaging (concurrent users)	HP ProLiant ML150 Server HP ProLiant ML350 Server				<ul style="list-style-type: none"> Disk I/O is important in e-mail performance. If running third-party anti-virus/anti-spam software on the same server, add a CPU and an additional 512 MB of memory for every 100 users.
Security (IP nodes)	HP ProLiant ML110 Server	HP ProLiant ML110 Server HP ProLiant ML150 Server	HP ProLiant ML150 Server HP ProLiant ML350 Server	HP ProLiant ML350 Server	<ul style="list-style-type: none"> At least 1 GB of memory is required. HP provides pre-installed HP Firewall/VPN ProLiant Server models for rapid deployment.
Web server (concurrent users/min)	HP ProLiant ML150 Server			HP ProLiant ML350 Server HP ProLiant ML370 Server	<ul style="list-style-type: none"> Web-server performance is determined by the type of content. Static content changes very little, and mostly affects the amount of storage required (it has minimum impact on CPU). Response times can be increased by the addition of more memory thanks to memory content coaching. Dynamic content consists of scripts, java code, etc – and can change often. It impacts all facets of the server, therefore requiring faster processors, more memory and faster disk drive speeds.

Need help choosing the right server? Contact your local HP representative or visit our server and storage

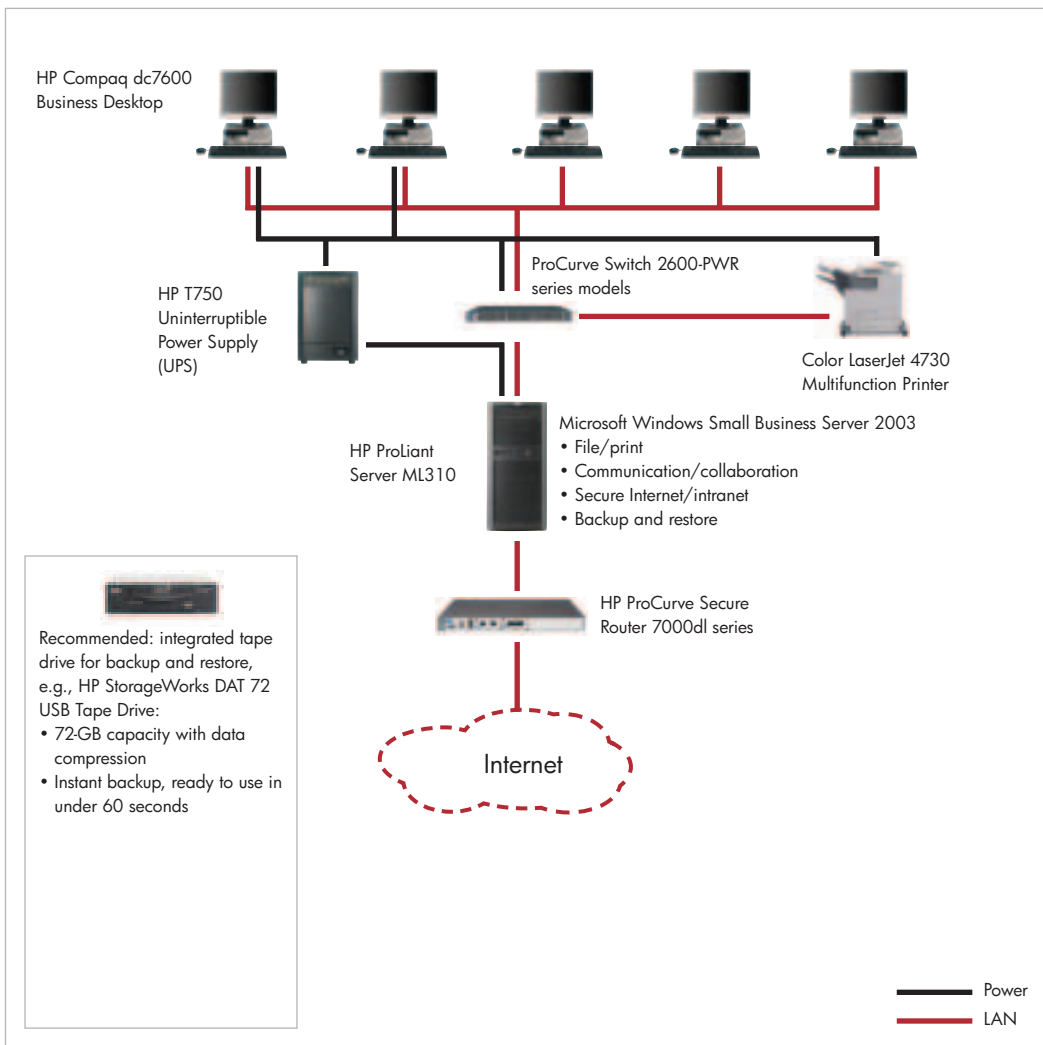
expertise centre at: www.hp.com/eur/ssec

Typical small business server solutions

The following are typical “before and after” scenarios showing how companies can deploy HP ProLiant servers to suit specific business needs, situations and environments.



First server network



This scenario shows a simple client/server network setup, in which several user PCs access a central resource for data and applications, Internet connection, e-mail, printer sharing and more.

Before

A company that relies solely on interconnected PCs may experience the following limitations in its IT setup:

- Suitable only for 1–5 users
- Insufficient security for important information and processes
- Poor reliability – especially when the central ‘server’ PC is used as a workstation too
- Limited performance and expansion possibilities
- Long print queues and regular printing errors
- Individual dial-up or inefficient Internet/e-mail systems
- Unsuitable for database applications

After

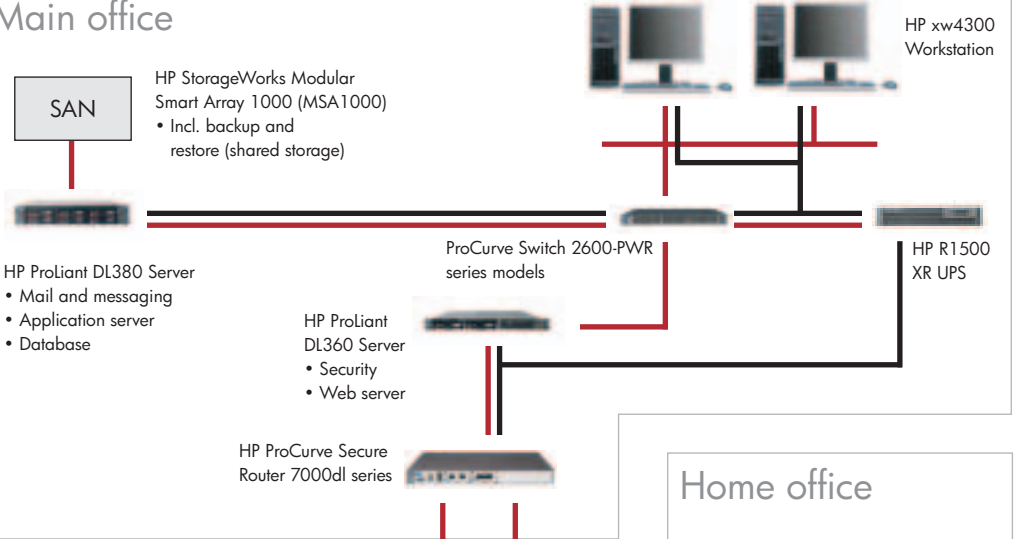
By moving to a client/server network built around an HP ProLiant server preloaded with Microsoft Windows Small Business Server 2003 (part of the Microsoft Windows Server System family), the same company can introduce an infrastructure that:

- Provides faster access and processing for 5–100 users; more effective file, application and resource sharing; and greater expansion possibilities
- Works with any application – including shared database applications
- Offers secure remote access and firewall capabilities (via the HP ProCurve Secure Router)
- Can be managed centrally (via HP Systems Insight Manager software)
- Ensures greater reliability through disk mirroring and component redundancy, plus extra resilience against power surges/failures with the HP T750 UPS (which can protect up to six separate devices)
- Protects the business thanks to easy-to-connect backup technologies (via the HP StorageWorks DAT 72 USB Tape Drive)
- Gives the network more enhanced file-sharing capabilities (through applications such as Windows SharePoint Services)

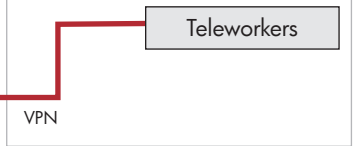
More advanced server network



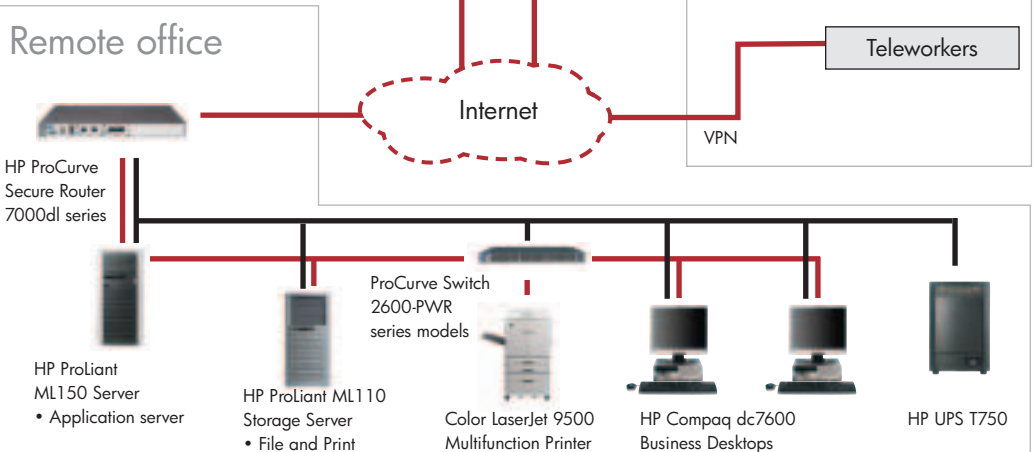
Main office



Home office



Remote office





This more advanced example shows how simple client/server networks can be expanded to support distributed business operations conducted across several locations. A tiered server environment provides secure communications and access to multiple servers dedicated to specific applications, as well as to a back-end database with shared storage.

Before

Companies already running a server network may witness the following characteristics in their network as the business grows:

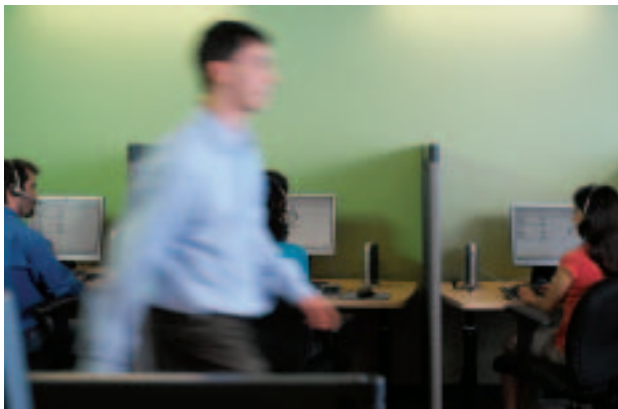
- An older operating system (e.g., Windows NT or 2000) that has less functionality than the latest solutions from the Microsoft Windows Server System family, and is not as well supported
- Multiple applications running on a single server, hampering performance

After

By upgrading systems and spreading the application workload across multiple dedicated servers (running Microsoft Windows Server 2003 or Windows Storage Server 2003), the company can create an expanded network infrastructure that supports:

- Up to 250 users simultaneously
- Increased performance from all applications on all servers
- The most up-to-date operating systems
- Dedicated local application servers at remote offices
- Access to main office servers and applications (via the HP ProCurve Secure Router)
- Secure access for home users via easy-to-configure Virtual Private Networks (VPNs) using the HP ProCurve Secure Router

Making your IT easier to own



HP Smart Care Pack Services

To help get and keep systems up and running, HP has combined our most-requested support services in packages tailored specifically for HP ProLiant servers, and delivered by certified experts from one of our 3,000 local partners.

HP Smart Care Pack Services helps you plan, use and protect your investments to your best advantage, accelerating startup of your server and increasing its utilisation, performance and availability without the need for in-house IT resources. We offer competitive, preset pricing with upfront payment that makes it easy to meet budget needs, plus a single point of contact that simplifies administration.

- **Startup implementation services**

To save time and avoid the hassle of performing integration, startup, implementation and education yourself, choose from options including a basic installation service, or installation with product startup.

- **Reactive hardware support**

High-quality remote and on-site support, with a choice of response times ranging from next-business-day to 13x5 or 24x7 same-business-day coverage, right up to our 6-hour call-to-repair commitment – whereby, in 6 hours or less, an HP-certified engineer will solve the problem remotely or on-site.

- **Premium support (combination packages)**

Working with your IT team, HP Services engineers deliver onsite hardware support and over-the-phone software support covering HP products and selected multi-vendor hardware and software. This service is available 13 hours per day, 5 days a week (via Support Plus service) or 24x7 (via Support Plus 24).

Find out more at: www.hp.com/hps/servers

The following table indicates the recommended (bold) and other available HP Care Pack Services for the ProLiant server models identified in this guide.

	Startup implementation services		Reactive hardware support				Premium support (combination packages)	
	Installation	Installation & startup	Next business day	4-hour 13x5	4-hour 24x7	6-hour call-to-repair	Support Plus	Support Plus 24
ProLiant ML110	U4444E¹		U4433E	U4434E¹	U4435E	U4436E		
ProLiant ML150	U8195E¹		U8184E	U8192E¹	U8193E	U8194E		
ProLiant ML310	U4456E	U4457E¹	U4445E	U4446E	U4447E¹	U4448E	MS U4458E²	U4459E, U6306E, U8328E³
ProLiant ML330	U4473E	U4474E¹	U4462E	U4463E	U4464E¹	U4465E	MS U4475E²	U4476E, U6307E, U8329E³
ProLiant ML350	U4522E	U4523E¹		U4512E	U4513E¹	U4514E	MS U4524E²	U4525E, U6308E, U8330E³
ProLiant ML370	U4538E	U4539E¹		U4528E	U4529E¹	U4530E	MS U4540E²	U4541E, U6311E, U8333E³
ProLiant ML110 Storage Server	U7986E¹						UB940E¹	UB941E
ProLiant ML350 Storage Server	U7986E¹					UC568E	UB995E¹	UC544E
ProLiant ML370 Storage Server	U7986E¹					UC570E	UC549E¹	UC550E

¹ Recommended (support service for 3 years) ² For Microsoft Windows systems

³ Part numbers listed are for Microsoft Windows, SuSE Linux and Red Hat Linux respectively

HP Care Pack Education Services






To help you make the most of your ProLiant server solution, HP Care Pack Education Services offers cost-effective, targeted training to ease implementation, streamline technology migration and consolidation, and shorten the time to return on investment. You can ensure a more efficient and effective IT environment, and stay informed about new applications and technologies to strengthen your competitive edge.

Find out more at: <http://education.hp.com>

HP ProLiant server portfolio overview

The following pages outline the key features of the HP ProLiant server and storage server models identified in this guide – ideal for customers seeking their first server purchase or a simple, affordable upgrade to their existing network capabilities.

HP ProLiant servers – ML line

	Processor	Memory	NIC	Hard drive bays	Redundancy
 <p>HP ProLiant ML110 G3 Server</p>	1 x Intel Pentium D 3.0 GHz (2x1-MB cache) or Intel Pentium 4 3.2 GHz (2-MB cache) or Intel Celeron® 2.53 GHz (256-KB cache)	512 MB std., 8 GB max.	Broadcom 5721 Gigabit Adapter 10/100/1000	2 x 1.0" non-hot-plug SCSI or 2 x non-hot-plug SATA	Optional SCSI or SATA RAID controller
 <p>HP ProLiant ML110 G2 Storage Server</p>	1 x Pentium 4 3.2 GHz or Celeron 2.8 GHz (256-KB cache)	256 or 512 MB std., 4 GB max.	Intel 82541PI Gigabit Adapter 10/100/1000	Up to 4 SATA hard drives pre-installed (depends on model)	Software or hardware RAID (depending on model)
 <p>HP ProLiant ML150 G2 Server</p>	Up to 2 x Intel Xeon™ DP 3.2 GHz (2-MB cache)	512 MB std., 8 GB max.	Broadcom 5721 Gigabit Adapter 10/100/1000	Up to 6 x 1.0" hot-plug or non-hot-plug SCSI or SATA (depends on model)	Optional SCSI or SATA RAID controller
 <p>HP ProLiant ML310 G3 Server</p>	1x Intel Pentium D 3.2 GHz (2x1-MB cache) or Intel Pentium 4 3.4 GHz (2-MB cache)	512 MB std., 8 GB max.	NC320i Gigabit Adapter 10/100/1000	4x 1" hot-plug SCSI or SAS/SATA	Optional hot-plug hard drives
 <p>HP ProLiant ML350 G4 Server</p>	Up to 2 x Xeon DP 3.4 GHz (2-MB cache)	512 MB std., 12 GB max.	NC7761 Gigabit Adapter 10/100/1000	6 x hot-plug SCSI, 6 x hot-plug SATA/SAS (on G4p models)	Optional hot-plug redundant power and system fan
 <p>HP ProLiant ML350 G4 Storage Server</p>	1 x Xeon up to 3.2 GHz (1-MB L2 cache)	512 MB or 1 GB std., 8 GB max.	NC7761 Gigabit Adapter 10/100/1000	2 x 1" hot-plug pre-installed for the OS, up to 4 x hot-plug pre-installed for the user data, choice of SCSI or SATA models	Optional hot-plug redundant power and system fan, hardware RAID 0,1, 1+0, 5
 <p>HP ProLiant ML370 G4 Server</p>	Up to 2 x Xeon DP 3.6 GHz (2-MB cache)	1 GB std., 16 GB max.	NC7781 Gigabit Adapter 10/100/1000	6+2 x hot-plug SCSI or 8 x hot-plug SATA/SAS	Zoned system cooling, hot-plug components and optional fully redundant fans (3+3)
 <p>HP ProLiant ML370 G4 Storage Server</p>	1 x Xeon 3.4 GHz (1-MB L2 cache); dual processors on High Performance Model (HPM)	1 GB std. (or 2 GB std. on HPM), 4 GB max.	NC7781 Gigabit Adapter 10/100/1000	2 x 1" hot-plug SCSI pre-installed for the OS, up to 6 x hot-plug SCSI pre-installed for the user data	Optional hot-plug hard drives, optional redundant 1+1 power supply and 3+3 fans (standard on HPM), hardware RAID 0, 1, 1+0, 5, ADG

For further details and complete specifications, visit:

www.hp.com/go/proliant and www.hp.com/go/nas and www.hp.com/eur/hpoptions

Equivalent rack server	Warranty	Recommended services	Recommended options
HP ProLiant DL320 Server	1-1-1; optional upgrade to 3-3-3	<ul style="list-style-type: none"> 4-hour, 13x5 Hardware Support 	<ul style="list-style-type: none"> UPS (e.g., HP T750) Gigabit Ethernet switch (e.g., HP NC150T) 1x4 USB/PS2 KVM Switch (desktop) Backup tape drive (e.g., HP StorageWorks DAT 24 internal)
HP ProLiant DL100 Storage Server		<ul style="list-style-type: none"> Support Plus (13x5 on-site hardware and software support) HP Installation Service 	<ul style="list-style-type: none"> The ML110 G2 Storage Server is an optimised configuration that requires no options
HP ProLiant DL140 Server		<ul style="list-style-type: none"> HP Installation Service 	<ul style="list-style-type: none"> UPS (e.g., HP T750) 1x4 USB/PS2 KVM Switch (desktop) HP 1-GB UNREG PC3200 1 x 1-GB Memory ALL Backup tape drive (e.g., HP StorageWorks DAT 40 internal)
HP ProLiant DL320 Server	3-3-3	<ul style="list-style-type: none"> 4-hour, 24x7 Hardware Support Installation & Startup Service 	<ul style="list-style-type: none"> UPS (e.g., HP T750) Gigabit Ethernet switch (e.g., HP NC150T) KVM Switch (e.g., 1x4) Backup tape drive (e.g., HP StorageWorks DAT 72 internal)
HP ProLiant DL360 Server		<ul style="list-style-type: none"> UPS (e.g., HP T1000 XR) HP 1-GB memory upgrade 72-GB 15K Ultra320 SCSI 3.5-inch, 3-Gb/s SAS 3.5-inch LFF universal hot-pluggable or 250-GB 7.2K HP SATA Backup tape drive (e.g., HP StorageWorks DAT 72 internal) 	
HP ProLiant DL380 Storage Server	3-3-3	<ul style="list-style-type: none"> Support Plus (13x5 on-site hardware and software support) HP Installation Service 	<ul style="list-style-type: none"> For increased redundancy, consider a 2nd NIC and an additional power supply
HP ProLiant DL380 Server		<ul style="list-style-type: none"> 4-hour, 24x7 Hardware Support Installation & Startup Service 	<ul style="list-style-type: none"> UPS (e.g., HP T1000 XR) 72-GB 10K 3Gb/s SAS 2.5-inch SFF universal hot-pluggable HP 2-GB memory upgrade Mid-range backup tape drive (e.g., HP StorageWorks Ultrium 215 internal)
HP ProLiant DL380 Storage Server		<ul style="list-style-type: none"> Support Plus (13x5 on-site hardware and software support) HP Installation Service 	<ul style="list-style-type: none"> For increased redundancy, consider a 2nd NIC and an additional power supply



Get your ideal IT solution, simply and affordably

It's quick and easy to acquire your complete IT solution with HP Smart Finance Services. Our simple, affordable, pay-as-you-go leasing and financing¹ options span the entire lifecycle of your HP solution – including the hardware, software, services and any third-party components – to deliver the following benefits:

- Fiscal fitness
- Protection from technology obsolescence
- Increased budget reach
- Safe disposal of old IT assets

Find out more at: www.hp.com/uk/go/hpfinancialservices

¹ All financial services are subject to HP Financial Services credit committee acceptance.

Need help choosing the right server?

Contact your local HP representative or visit our server and storage expertise centre at: www.hp.com/eur/ssec

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