

# HP ProLiant ML310 Generation 4 Server

Data sheet



The HP ProLiant ML310 G4 server is a secure, affordable foundation for small businesses and remote sites.



## A server to grow with you

The new HP ProLiant ML310 Generation 4 (G4) server offers a choice of dual-core or single-core processors so that you get the processing power that you need. Choose from dual-core Intel® Xeon®, Pentium® D or single-core Celeron® D processors. Dual-core processors have two execution cores, making it possible to execute two application instructions at one time.

The HP ProLiant ML310 G4 also includes advanced Error Checking and Correcting (ECC) memory. ECC memory helps protect your server from failure due to errors in the transfer of data to and from the memory. Unlike standard memory, ECC memory can actually detect and correct single-bit errors.

The ProLiant ML310 G4 evolves as server technologies evolve. The ML310 G4 supports Serial-Attached SCSI (SAS) drives. This means as you expand and add more capacity to your server, you are able to take advantage of the most current hard drive technology.

## Ideal environments and applications

### Branch offices

Corporate branch offices that support local users or customers and exchange data with headquarters benefit from the HP ProLiant ML310 G4:

- With reliable, enterprise-class hot plug SAS hard drives, replacements or upgrades are quick and easy.
- Redundant hot-plug power supplies provide increased reliability and reduce the risk of potential downtime.
- Integrated lights-Out 2 (iLO 2) provides unmatched remote management capability. Your support team can configure and manage the server from any location—local or remote. Required installations and updates happen quickly, saving your business valuable time and resources.

### Small businesses

Small businesses, where technology provides an opportunity to get a competitive edge, also benefit from the HP ProLiant ML310 G4:

- Hassle-free server setup and maintenance with HP SmartStart, HP Systems Insight Manager and HP Integrated Lights-Out.
- Consistent, reliable server performance at an affordable price.
- Enterprise class data protection with ample room for hot plug hard drives, RAID controllers and tape backup.

### Key benefits

The ProLiant ML310 G4 is a tower server with essential availability features for a versatile and dependable backbone for expanding businesses and workgroups.

### Performance you can trust

With technology in place, your business becomes more efficient and your staff is free to take on priority projects that help grow your business. The HP ProLiant ML310 G4 provides several processing options designed to let you choose the right performance for your business.

- Dual-core Intel Xeon processors for ultimate performance on the most demanding business applications.
- Dual-core Intel Pentium D processors for general processing.
- Single-core Intel Celeron D processors for the most cost-sensitive implementations.

### Solid protection

As technology becomes an essential part of your business, protecting your data becomes critical to customer satisfaction. The HP ProLiant ML310 G4 offers a wide array of data protection alternatives.

- Hot plug hard drives, integrated SATA or SAS RAID (0, 1) and available RAID controllers (5, 6, 1+0) protect transactional and archive data.
- Three removable media bays provide ample space for the backup solution you choose. Bays accept both optical media and tape backup devices, including USB tape devices.
- And the HP Pre-Failure Warranty on processor, memory, and hard drives gives you the security of flexibility and control, making your business unstoppable.

### Industry-leading management

Together, ProLiant Essentials software and Lights Out technology make server installation and management a snap.

- SmartStart, included in the ProLiant Essentials Foundation Pack, shipped with the ML310, gets your server up and running quickly.
- HP Systems Insight Manager keeps an eye on your server so your staff can focus on priority projects. Alerts on system status can be delivered to you on your own terms.
- Get remote control with the Lights Out technology of Integrated Lights-Out 2. View the server console and install updates anytime anywhere with iLO 2.

### For more information

For more information about the HP ProLiant ML310 G4 Server, visit [www.hp.com/servers/proliantml310](http://www.hp.com/servers/proliantml310).

## HP Services

HP Services offers comprehensive services to help design, deploy, manage, and support your IT environment and business processes. Our 69,000 skilled professionals and network of partners deliver global capabilities across the IT lifecycle, including consulting, integration, outsourcing, and support.

### HP Care Pack Services deliver continuous care

Cost-effectively upgrade or extend your standard warrant with easy-to-buy, easy-to-use support packages. They reduce downtime risks with support levels that range from basic to mission-critical. HP Care Pack Services are available for purchase with your ProLiant ML310 G4 server.

### Recommended service offerings:

**Enhanced Care** options provide a baseline service level to achieve optimum server availability.

*HP ML310 G4 server—3-year, 9x5, next-business-day onsite response hardware support*

**Continuous Care** options deliver a recommended support level with committed same day response or fix times.

*HP ML310 G4 server—3-year, 13x5, same-business-day, 4-hour onsite response hardware support*

**Total Care** service options are designed to provide round-the-clock response and complex problem resolution through round the clock hardware support.

*HP ML310 G4 server—3-year, 24x7, same-business-day, 4-hour onsite response hardware support*

**Deployment Services** include HP Hardware Installation services designed to take the time, risk, and worry out of the deployment of ProLiant servers.

*HP ML310 G4 server—Installation of a ProLiant ML310 server*

### For more information visit:

[www.hp.com/services/proliantservices](http://www.hp.com/services/proliantservices)

[www.hp.com/go/proliant/carepack](http://www.hp.com/go/proliant/carepack)

## HP ProLiant ML310 Generation 4 Server



<b>Processors</b>	Dual-Core Intel Xeon 3060, 2.4 GHz, 1066 MHz Front Side Bus (FSB) Dual-Core Intel Xeon 3050, 2.13 GHz, 1066 MHz FSB Dual-Core Intel Xeon 3040, 1.86 GHz, 1066 MHz FSB Dual-Core Intel Pentium D 945, 3.4 GHz, 800 MHz FSB Dual-Core Intel Pentium D 820, 2.8 GHz, 800 MHz FSB Intel Celeron D 352, 3.2 GHz, 533 MHz FSB
<b>Cache</b>	2 MB/4 MB (1x2MB L2/1x4MB L2) for Intel Xeon 3000 Series Processors 2 MB/4 MB (2x1MB L2/2x2 MB L2) for Intel Pentium D 800 and 900 Series Processors 512 MB (1x512MB L2) for Intel Celeron D 300 Series Processors
<b>RAM standard/maximum</b>	Standard: 512 MB or 1 GB (1x512 MB or 1x1 GB) Maximum: 8 GB
<b>RAM type/speed</b>	PC2-5300 DDR2
<b>Hard drive capacity</b>	4 – 3.5" hot plug SAS or SATA hard drives
<b>Hard drive controller</b>	HP 8 Internal Port SAS HBA with RAID 0,1 in a PCI-X slot or embedded SATA with integrated SATA RAID 0,1
<b>Media bays</b>	3
<b>Memory protection</b>	Advanced ECC
<b>Form factor</b>	Tower
<b>Expansion slots</b>	(2) 64-bit/100 MHz PCI-X (1) PCI-Express (x4) (1) PCI-Express (x1)
<b>Power Supply</b>	410W non-redundant power supply or 430W hot plug redundant power supplies
<b>Operating systems supported</b>	Microsoft® Windows® Server 2003 R2 Microsoft Small Business Server 2003 SCO OpenServer 5.0.7/6.0 Novell NetWare 6.5 Linux® (Red Hat, SUSE)
<b>Warranty</b>	1-year parts, 1-year labor, 1-year on-site; (3-1-1- AP only)

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To learn more, visit [www.hp.com/servers/proliantml310](http://www.hp.com/servers/proliantml310)

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