

HP ProLiant ML310 Generation 5 Server

Data sheet



The HP ProLiant ML310 Generation 5 (G5) is an affordable, single-processor tower server designed to provide a solid network foundation for thriving small offices.



A server to grow with your business

A fast-moving business requires an agile, easy-to-manage information technology (IT) foundation that can grow with the needs of the business. That's the HP ProLiant ML310 G5 Server.

This forward-looking server offers a broad choice of Intel® processors, including a new quad-core option, so that you get the right level of processing power for your business. You can choose from quad-core or dual-core Intel Xeon®, dual-core Core2 or Pentium®, or single-core Celeron® processors.

In addition to this wide range of processor choices, the ProLiant ML310 G5 offers industry-leading management tools and essential data protection features for an affordable platform with enhanced security features to help you run your business more efficiently.

The ML310 G5 also includes Error Checking and Correcting (ECC) memory. Unlike standard memory, ECC memory can actually detect and correct single-bit errors.

Looking ahead, the ML310 G5 is designed to evolve as server technologies evolve. It supports Serial-Attached SCSI (SAS) hard disk drives, as well as Serial ATA (SATA) drives. This means as you expand and add more capacity to your server, you can take advantage of the most current hard drive technology.

Key features and benefits

The ML310 G5 is a tower server with essential availability features for a versatile and dependable backbone for expanding businesses and workgroups.

Performance you can trust

With the right technology in place, your business becomes more efficient and your staff is free to take on priority projects that help your business grow. The ML310 G5 provides several processing options designed to let you choose the right performance for your business. These include:

- Quad- and dual-core Intel Xeon processors for ultimate performance on the most demanding business applications
- Dual-core Intel Core2 and Pentium processors for general processing
- Single-core Intel Celeron processors for the most cost-sensitive implementations

In addition, this fifth-generation server has added support for:

- The new Intel 3210 chipset with a faster 1333 MHz front side bus
- PC2-6400 DDR2 800 MHz memory, which delivers great economics for an entry-level server with enterprise manageability

Solid protection

As technology becomes a more essential part of your business, protecting your data becomes all the more critical. The ML310 G5 offers a wide array of data protection alternatives.

- Hot plug hard drives, integrated SATA or SAS redundant array of independent disks (RAID), and available HP Smart Array controllers 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.
- Available hot plug redundant power supplies offer even more protection.

Industry-leading management

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

- HP 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 Integrated Lights-Out 2 management tools. View the server console and install updates anytime, anywhere with iLO 2.

Ideal environments and applications

Branch offices

Corporate branch offices that support local users or customers and exchange data with headquarters benefit from the ML310 G5:

- With reliable, enterprise-class hot plug SAS hard drives, replacements or upgrades are quick and easy.
- Integrated Lights-Out 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.

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Processor and memory	
Number of processors	1
Maximum number of cores	4
Processor type	Intel Xeon; Intel Core2; Intel Pentium; Intel Celeron
Processors supported	Xeon X3220: Quad-core 2.40 GHz, 8 MB cache, 1066 MHz Front Side Bus (FSB) Xeon X3210: Quad-core 2.13 GHz, 8 MB cache, 1066 MHz FSB Xeon X3075: Dual-core 2.66 GHz, 4 MB cache, 1333 MHz FSB Xeon X3065: Dual-core 2.33 GHz, 4 MB cache, 1333 MHz FSB Core2 E4400: Dual-core 2.00 GHz, 2 MB cache, 800 MHz FSB Pentium 2160: Dual-core 1.80 GHz, 1 MB cache, 800 MHz FSB Celeron 420: Single-core 1.60 GHz, 512 KB cache, 800 MHz FSB
Processor core	Single, dual or quad
Cache	Xeon X3220: Quad-core 2.40 GHz, 8 MB cache, 1066 MHz FSB Xeon X3210: Quad-core 2.13 GHz, 8 MB cache, 1066 MHz FSB Xeon X3075: Dual-core 2.66 GHz, 4 MB cache, 1333 MHz FSB Xeon X3065: Dual-core 2.33 GHz, 4 MB cache, 1333 MHz FSB Core2 E4400: Dual-core 2.00 GHz, 2 MB cache, 800 MHz FSB Pentium 2160: Dual-core 1.80 GHz, 1 MB cache, 800 MHz FSB Celeron 420: Single-core 1.60 GHz, 512 KB cache, 800 MHz FSB
Maximum processor speed	2.66 GHz
Multi-processor	1
Maximum front-side bus speed	1333 MHz
Memory type	PC2-6400 DDR2 800 MHz
Standard memory	X3065: Dual-core 512 MB X3075: Dual-core 512 MB X3210: Quad-core 1 GB
Maximum memory	8 GB
Memory protection	ECC
Storage	
Storage type	Hot plug 3.5-inch SAS Hot plug 3.5-inch SATA
Drives supported	Up to 4: Hot plug LFF SAS 15K 300/146/72/36 GB Hot plug LFF SATA 7.2K 750/500/250/160/80 GB
Maximum internal storage	3.0 TB
Maximum internal drives	4
Removable media bays	3
Expansion slots	Up to 5 total: One (1) PCI Express x8; Three (3) PCI Express x1; Optional Extender Board for one (1) 64-bit, 100 MHz PCI-X
Storage controller	Integrated SATA controller and support for optional SAS controller or HBA
Deployment	
Form factor	Tower with Rack-Mount Option Kit
Rack height	6U
Networking	NC326i Integrated Gigabit NIC
Remote management	Integrated Lights-Out 2 (iLO 2)
Redundant power supply	1 built-in non-hot-plug, non-redundant power supply Optional redundant power supplies also available (standard on RPS models)
Redundant fans	Not available
Warranty (parts/labor/onsite)	1-year/1-year/1-year 3-year/1-year/1-year Asia Pacific region only

For additional information, including descriptions of all models of the ProLiant ML310 G5 and an extensive list of supported options from HP, see the ML310 G5 Server QuickSpecs, available via http://h18000.www1.hp.com/products/quickspecs/12858_div/12858_div.PDF.

Small businesses

Small businesses, where technology provides an opportunity to get a competitive edge, also benefit from the ML310 G5. The server brings you:

- Hassle-free server setup and maintenance with HP SmartStart, Systems Insight Manager and iLO 2
- Consistent, reliable server performance at an affordable price
- Enterprise-class data protection with ample room for hot plug hard drives, HP Smart Array controllers and tape backup drives

Financial services

HP Financial Services provides financing and financial asset management programs to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information, contact your HP representative or visit www.hp.com/go/hpfinancialservices.

For more information

For more information about the HP ProLiant ML310 G5 Server, contact your local HP representative or visit www.hp.com/servers/proliantml310.

HP Services

The challenge of virtually every IT organization is similar: to develop and maintain an agile, efficient infrastructure that delivers the service levels your business needs—while staying within your budget. HP Services help you get the most from your ProLiant investment with support offerings designed to give you the choice to address your business needs, service-level commitments and budgets. Whether you purchase an HP recommended or enhanced service for your ProLiant server you can map your hardware choice to the precise level of support you need.

We deliver total care for your servers resulting in comprehensive support to help design, deploy, manage and support your IT environment and business processes. Our 69,000 skilled professionals and network of Authorized Channel Partners deliver global capabilities across the server lifecycle, including consulting, integration, outsourcing and support.

Cost-effectively upgrade or extend your standard warranty with easy-to-buy, easy-to-use support packages that reduce downtime risks with support levels ranging from a basic service recommendation to an enhanced mission critical service. These HP Care Pack services are available for purchase with your ProLiant ML310 series servers.

Recommended Care Pack Service offerings

- Three-year, next business day onsite 9-hour x 5-day coverage, hardware support
- Hardware Installation

Enhanced Care Pack Service offerings

- Three-year, same business day onsite 13-hour x 5-day coverage, hardware support
- Hardware Installation plus operating system installation and startup

Care Pack Service benefits

- Gain total control and maximum flexibility—resulting in tangible savings
- Improve server availability with single-source support
- Reduce the complexity of services and support resulting in productivity gains
- Reduce deployment and manage ProLiant solutions smoothly and efficiently
- Increase uptime and performance of your servers and solve applications problems quickly
- Detect, diagnose and repair problems to quickly save time, money and resources

For more information, visit www.hp.com/services/proliantservices or www.hp.com/go/proliant/carepack.

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To learn more, visit www.hp.com/servers/proliantml310

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