

HP ProLiant ML310e Gen8 v2 Server



Product overview

The HP ProLiant ML310e Gen8 v2 Server is the newest addition to the ProLiant Gen8 portfolio of single socket servers. It's powered by the latest Intel® Xeon® processors, giving you great compute power in a 1P tower model. Plus, these innovative machines include a wide range of the embedded automation and intelligent management features that make ProLiant Gen8 models the world's most self-sufficient servers.

This HP ProLiant ML310e Gen8 v2 Server is ideal for small- to medium-sized businesses (SMBs) that have limited or no in-house IT resources and are looking for robust, cost-effective servers. This server accommodates your organization's changing needs, and has resource and performance headroom that supports your growing business.

Figure 1. HP ProLiant ML310e Gen8 v2 Server: essential availability and expansion in a one-processor tower server



**HP ProLiant ML310e Gen8 v2
8 SFF model with locking bezel**



**HP ProLiant ML310e Gen8 v2
4 hot-plug LFF model**

Standout performance

The ProLiant ML310e Gen8 v2 Server has huge performance headroom. It's the perfect choice for SMBs, remote sites, and corporate branch offices running file/print, web messaging, and small vertical applications or databases with features that include:

- The latest Intel Xeon processors: supports Intel Xeon E3-1200 v3 series processors
- 32 GB of DDR3 memory: includes up to 32 GB of 1600 MHz DDR3 memory for superior system performance
- PCI Express: four PCI Express slots, including two Gen3 slots, give higher I/O performance
- HP Smart Storage: turbocharges data-intensive application performance to accelerate workloads
- Stackable switch option: is compatible with the HP 1810 switch series for seamless network connectivity

The ProLiant ML310e Gen8 v2 Server is available in two different model configurations: base and performance:

Table 1. Comparing HP ProLiant ML310e Gen8 v2 Servers

Feature	Base model	Performance model
ENERGY STAR ^{®1}	N/A	Yes
Processor model	Intel Xeon E3-1220 v3	Intel Xeon E3-1240 v3
Processor (up to 1)	3.1 GHz/80 W	3.4 GHz/80 W
Processor cores	4	4
Memory	4 GB	8 GB
Drive	4 hot-plug LFF drive cage	4 hot-plug LFF drive cage
Hard drive	N/A	500GB 6G SATA
Power supply (1+1 redundant)	350 W ATX	460 W with RPS enablement kit
DVD-ROM or DVD-RW	DVD-RW	DVD-RW

Stress-free management

We've packed the HP ProLiant ML310e Gen8 v2 Server with user-inspired features that simplify management and free you to focus on business issues instead of IT:

- Agentless HP Integrated Lights-Out 4 (iLO4) embedded management: manages servers remotely, facilitating manageability and reducing costs
- Integrated lifecycle automation: brings your systems online faster and makes management easier; HP Intelligent Provisioning eliminates manual steps, enabling faster deployment and configuration

Uncompromising uptime

For less downtime and easier maintenance, this server includes innovations such as automatic and proactive repair that jump-start business productivity and speed problem resolution with features like:

- Tool-free access to customer-serviceable components: means faster repairs
- HP Active Health System: monitors and records changes in server hardware and system configuration; helps diagnose problems before failures occur, speeding time to resolution
- Optional hot-plug and redundant power supplies: provide enhanced dependability and assurance
- HP SmartDrive: predicts drive failure and proactively rebuilds from a spare, delivering continuous data protection
- HP Smart Update Manager: dramatically reduces the downtime associated with firmware and software updates
- HP Insight Remote Support software: generates automated support calls, yielding greater efficiency
- HP Service Packs: supply predictable, pretested releases; reduce time, costs, and risk

Figure 2. HP ProLiant ML310e Gen8 v2 Server: flexible configurations and easy serviceability, with tool-less access to all customer-serviceable system components



¹ The HP ProLiant ML310e Gen8 v2 Server offers high ENERGY STAR ratings (as high as up to 92 percent Gold level, in terms of power and cooling) in one of the industry's most energy-efficient x86 server portfolios.

Unfettered flexibility

Configure the server to meet the needs of your growing business with these features:

- MicroATX tower chassis: makes hardware configuration changes simple and flexible
- Multiple configuration options: a variety of hard drives, power supplies, and drive cages provide you with the flexibility to tailor the server for your specific application requirements
- Multiple HDD configurations: provides HDD capacity up to 16 TB of internal storage and up to eight SFF or four LFF configurations, which allow plenty of room for your business data growth
- Dedicated iLO connection for faster and more secured data transmission
- Compatible with HP 1810 switch series, extending the benefits of HP Converged Infrastructure for seamless network connectivity.

Table 2. Technical specifications of the HP ProLiant ML310e Gen8 v2 Server

Drive description	4 Non-hot-plug LFF SAS/SATA 4 Hot-plug LFF SAS/SATA/SSD 8 Hot-plug SFF SAS/SATA/SSD
Supported drives	Non-hot-plug 3.5-inch SATA Non-hot-plug 3.5-inch SAS Hot-plug 3.5-inch SAS Hot-plug 3.5-inch SATA Hot-plug 2.5-inch SAS Hot-plug 2.5-inch SATA Hot-plug 3.5-inch SATA SSD Hot-plug 2.5-inch SAS SSD
Processor cache	8 MB L3
Processor family	Intel Xeon E3-1200v3 product family
Number of processors	1
Processor cores available	4
Maximum processor speed	3.5 GHz
Memory slots	4 DIMM slots
Memory max	32 GB
Memory type	PC3-12800E UDIMMs DDR3
Memory protection features	Unbuffered ECC ECC
Network controller	1 HP Ethernet 1Gb 2-port 332i Ethernet Adapter
Storage controllers	1 HP Smart Array B120i SATA RAID
Expansion slots	4
Management	HP iLO 4 Management Engine, HP Insight Control
Form factor chassis	Tower
System fans features	2 system fans ship standard; non-hot-plug, non-redundant
Power supply type	Redundant optional
OS support	hp.com/go/ossupport
Warranty standard statement	Global limited warranty
Warranty (parts-labor-onsite)	1-year parts, 1-year labor, 1-year onsite (worldwide) 3-year parts, 1-year labor, 1-year onsite (Brazil)
QuickSpecs URL	h18000.www1.hp.com/products/quickspecs/14339_div/14339_div.pdf

HP Financial Services

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HP Qualified Options

For a comprehensive list of all HP supported options, refer to the [HP ProLiant ML310e Gen8 v2 QuickSpecs](#).

HP Factory Express

HP Factory Express provides customization and deployment services; factory customization speeds deployment. Visit hp.com/go/factoryexpress.

Customer technical training

A variety of training courses include many delivery modalities—from traditional instructor-led courses at one of our 80 training centers worldwide to online and onsite training. Visit hp.com/learn/storage.

HP Services

HP Technology Services offers a set of consultancy, deployment, and support solutions designed to meet the lifecycle needs of your IT environments:

- HP Foundation Care: scalable support packages for HP industry-standard servers and software
- HP Collaborative Support: a single point of contact for server problem diagnosis, hardware problem resolution, and basic software problem diagnosis, fault isolation, and resolution if available to HP
- HP Proactive Care or Critical Advantage: higher levels of application availability for business-critical environments through proactive service management

All service options include HP Insight Remote Support software, plus access to the HP Support Center facility for the information, tools, and experts to support your HP business products.

For more information, visit hp.com/services/proliant.

Cost-effectiveness and functionality rolled into one

To learn more about the server with standout performance coupled with maximum flexibility, visit hp.com/servers/ml310e-gen8-v2.

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