



All-new HP ProLiant ML350p Gen8 Server series

Performance server with increased expandability and availability

Data sheet

The HP ProLiant ML350p Gen8 Server series comes with a winning combination of increased availability, scalability, and serviceability. A high-performing tower and expansion rack server from the HP ProLiant family, the ProLiant ML350p Gen8 Server is ideal for growing businesses, enterprise data centers, and remote branch offices. It is designed with the latest processor architecture from Intel® with dual QuickPath Interconnect (QPI) technology supporting up to eight processing cores. It features DDR3 memory architecture that supports up to DDR3-1600 MHz memory, and offers more reliable, versatile, and affordable Serial Attached SCSI (SAS) and Serial ATA (SATA) storage options. It also comes with integrated quad gigabit Ethernet that provides increased network throughput and redundancy.

This Gen8 server incorporates key HP technologies like HP Smart Update Manager, HP SmartMemory, and HP SmartStorage, which fortify it with excellent memory, server and firmware management, and server storage. Also included is the 4th version of HP Integrated Lights-Out (iLO) Management Engine, as part of the new embedded HP ProActive Insight architecture, for faster deployment, better management, Always-On Active Health System, and instant uptime tools. Available in a 5U rack form factor, the ML350p Gen8 server is the largest ProLiant 2P rack server and comes with key ProLiant features like Systems Insight Display (SID) and Location Services, which make it ideal for data centers.

Key features and benefits

The ProLiant ML350p Gen8 Server provides you with better efficiency and the ability to adapt to future requirements. Highly reliable, you can trust it to continue supporting your business in the event of a power failure, or disk or memory error, thanks to its options for redundant power and fans along with RAID, and memory protection features. Key features include:

- **HP ProActive Insight architecture:** Readies you to meet the demands of virtualized and data-intensive workloads with a system enhanced for solid state disk (SSD) and built with embedded data protection technologies. The architecture also includes smart data services that analyze workload data in real time to give you better performance and efficiency.
- **Intel Xeon® E5-2600 series with dual QPI:** Offers higher performance, power efficiency, and more adaptability with Intel QuickPath, Integrated Memory Controller, Turbo Boost, Intelligent Power Technologies, Trusted Execution Technology (TXT), and Hyper Threading.
- **HP SmartMemory:** Provides better quality and management advantages. It supports up to DDR3-1600 Mhz memory, and offers an additional memory channel that provides six more DIMMs than the previous generation, delivering more capacity and greater performance.

Why the ProLiant ML350p Gen8 Server is better than its predecessor.

Features	ProLiant ML350 G6 Server	ProLiant ML350p Gen8 Server
Processor	Xeon 5500/5600, 2, 4, or 6 cores	Xeon E5-2600, 2, 4, 6, or 8 cores
Memory	(18) DDR3, up to 1333 MHz (288 GB max)	(24) DDR3, up to 1600 MHz (384 GB max)
Storage	Smart Array P410i; Max 8 LFF HDD or 16 SFF HDD	Smart Array P420i; Max 18 LFF HDD or 24 SFF HDD
Networking	2x1GbE	4x1GbE
Management	HP iLO 2	HP iLO 4 Management Engine

- **Integrated Smart Array RAID controller:** Facilitates secure and faster access to data with its support for HP SmartStorage, PCI Express (PCIe) 3.0, HP SmartDrives, and HP Flash Backed Write Cache (FBWC) with capacity up to 2 GB.
- **HP iLO Management Engine (iLO 4):** Ensures there is a lifecycle approach to deploying and managing the server, and automatically regulates power consumption and server performance.
- **HP Smart Update Manager:** Enables firmware and software updates with dramatically reduced downtime.
- **New HP SmartDrive technology:** Improves serviceability with features such as icon-based status display and Do Not Remove LED.
- **HP SmartStorage:** Provides workload-aware intelligence for real-time application tuning and acceleration to enhance system performance.
- **HP Smart Socket:** Allows you to confidently add or upgrade processors without the fear of bending pins that lead to motherboard failure and replacement.

- **HP Location Services:** Enables each server to identify the rack it is in and the precise location of each server. Server location information in HP Systems Insight Manager (SIM) and HP Insight Control can be auto populated, saving server administrators from doing it manually.
- **HP Active Health System:** Speeds up resolving issues with drives, which lowers the risk of downtime for your business.
- **ENERGY STAR® certified:** Helps businesses conserve energy and save money. The ENERGY STAR program is qualified by U.S. Environment Protection Agencies.

What's new?

- Latest dual QPI architecture from Intel with support for Intel Xeon E5-2600 family processor
- New HP SmartStorage family of controllers and HP SmartDrives
- Next-generation cloud-enabled HP SIM
- Enhanced expansion with increased number of HDDs, PCIe slots, DIMM slots, and integrated NICs
- General purpose graphic processor unit (GPGPU) support

HP ProLiant ML350p Gen8 Server with improved serviceability, better server management, and increased flexibility. Watch the demo to learn more.



Technical specifications

ProLiant ML350p Gen8 Server

Drive description 24 SFF SAS/SATA
18 LFF SAS/SATA

Supported drives Hot plug SFF 2.5-inch SAS
Hot plug SFF 2.5-inch SATA
Hot plug LFF 3.5-inch SAS
Hot plug LFF 3.5-inch SATA

Processor and memory

Processor cache 20 MB L3
15 MB L3
10 MB L3
5 MB L3

Processor family Intel Xeon E5-2600 family

Processor number 1 or 2

Processor core available 8, 6, 4, or 2

Memory and storage

Memory slots 24 DIMM slots

Memory max 384 GB

Memory type DDR3 RDIMM or UDIMM

Memory protection features Unbuffered ECC
Advanced ECC
Mirrored memory
Memory lock step mode

Network controller 4x1 GB (4-port) 331i Ethernet Adapter

Storage controllers Smart Array P420i

Expansion slots 9

Deployment and Manageability

Remote management software Insight Control with iLO Advanced

Form factor chassis Tower and 5U rack models

System fans features Optional hot plug redundant fans

Graphic card Support up to (2) double-wide graphic cards and (1) single-wide card or (3) single-wide cards

Full configuration form factor 5U tower or rack

Warranty (parts-labor-onsite) Three-year parts, three-year labor, and three-year onsite

Why HP?

HP ProLiant Gen8 Servers, with HP ProActive Insight architecture, are self-sufficient servers that virtually take care of themselves. ProLiant Gen8 servers help you overcome common problems that can cause failures, downtime, and data loss. They offer:

- Integrated lifecycle automation
- Dynamic workload acceleration
- Automated energy optimization
- Proactive service and support

ProLiant Gen8 servers can increase compute capacity per watt of energy and resolve unplanned downtime issues faster through self-monitoring, self-diagnosing, and proactive support. Further, the use of a single iLO version on all our ProLiant Gen8 servers makes them consistent, simpler, and easier to manage.

HP Financial Services

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HP Services

HP Technology Services offers a set of consultancy, deployment, and support solutions designed to meet the life-cycle needs of your IT environments.

Foundation Care Services deliver scalable support-packages for HP industry-standard servers and software. You can choose the type and level of service that is most suitable for your business needs. New to this portfolio is HP Collaborative Support. This service offers a single point of contact for server problem diagnosis, hardware problem resolution, and basic software problem diagnosis, as well as fault isolation, and resolution if available to HP. In case the issue is with HP or a supported third-party software product, and cannot be resolved by applying known fixes, HP will contact the third-party vendor and create a problem incident on your behalf.

If you are running business-critical environments, HP offers Proactive Care or Critical Advantage. These services help you deliver high levels of application availability through proactive service management.

All service options include HP Insight Remote Support for secure remote monitoring, diagnosis, and problem resolution. Also included, is the HP Support Center that provides access to the information, tools, and experts to support HP business products.

For more information, please visit: www.hp.com/services/proliant.

Get reliable and efficient support for your business environment with the HP ProLiant ML350p Gen8 Server series.

To know more about how the ProLiant ML350p Gen8 Server can help you gain better operational efficiencies for your virtualized and non-virtualized environments, visit www.hp.com/servers/ml350p-gen8.

Gain more insights by reading our [blog](#).



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