

HP ProLiant DL560 Gen8 Server

Concentrated compute without compromise



With business-critical workloads moving to x86 environments and virtualization becoming the norm, businesses are looking for new ways to achieve critical performance, scalability, and expandability. The HP DL560 Gen8 Server packs the computing capacity of a four-socket (4S) server in a 2U form factor.



Grow your business without expanding your data center

Are you looking for concentrated compute without having to compromise on performance, scalability, or efficiency?

Do space constraints pose challenges you need to overcome?

Do you need to grow your business—without growing your data center?

HP can help

Business-critical workloads and virtualized environments require compact and powerful computing capacity. The HP ProLiant DL560 Gen8 rack server is designed to deliver performance, scalability, and expandability in a dense 2U footprint. Built on HP ProLiant Gen8 server features such as HP ProActive Insight Architecture, it also comes with an extensive set of capabilities to help you achieve greater levels of efficiency and lower total cost of ownership (TCO).

The ProLiant DL560 Gen8 server is ideal for environments that involve virtualization, database management, and business processing—as well as other 4S data-intensive applications, where optimization of data center space, performance, and costs are vital. Powered by the new high-density and cost-effective Intel® Xeon® E5-4600v2 processors, the HP ProLiant DL560 Gen8 Server provides extra resources that can help you handle larger workloads, reduce management and do more with fewer servers, so you can achieve better efficiency without compromising on performance.

The ultimate performance for x86 workloads

Ideal HP ProLiant DL560 Gen8 environments and applications:

- Server consolidation and virtualization environments
- Space-constrained corporate data centers and service provider environments
- Database, messaging, and business processing environments such as enterprise resource planning and customer relationship management
- 4S data-intensive applications where data center space, costs, and performance are vital

Packed with the latest innovative and intuitive HP hardware and embedded management features, the new HP ProLiant DL560 Gen8 is the ideal scale-up 4S server. It blends the processor density of the HP ProLiant DL580 Gen8 Server series with the compact form factor of HP ProLiant DL380p Gen8 Servers, allowing up to 21 servers per 42U rack. It features a perfect balance of new system architecture with enhanced remote access service features, extensive memory capacity, and I/O throughput—significantly accelerating virtualization performance, removing bottlenecks, and delivering the ultimate performance for your most demanding x86 workloads.

The HP ProLiant DL560 Gen8 Server integrates your storage, network devices, and facility resources into a common infrastructure to enable you to respond quickly to support an agile business environment. With a wide range of features, it simplifies and improves management tasks to help you achieve greater levels of efficiency and lower TCO, resulting in a better return on your server investment.

Key features and benefits

World-class performance, scalability, and expandability

- Consolidate servers to decrease footprint with dense 4S computing in a 2U form factor
- Avoid system configuration restrictions with support for up to four Intel Xeon E5-4600v2 processors
- Get enhanced serviceability, improved latency, and significantly improved bandwidth per I/O expansion slot¹ with up to six PCIe 3.0 expansion slots (3x16)
- Get memory speeds up to 1,866 MHz and up to 1.5 TB of HP SmartMemory with 48 DDR3 DIMM sockets

Improved memory, storage, and throughput performance

- Improve performance, manageability, and efficiency with HP SmartMemory while reducing downtime and energy costs, including up to 20 percent less power using low voltage registered dual in-line memory modules (RDIMMs) without impacting performance²
- Improve RAID controller performance with the HP Smart Array P420i RAID controller
- Customize server networking today and meet future needs without overhauling server hardware with HP FlexibleLOM solutions, which provide a choice of networking bandwidth, technology, HP OEM vendor partners, and number of ports

Enhanced user experience

- Reduce data loss, improve serviceability, and improve drive-status indication with HP SmartDrive
- Get quicker and more intelligent processor installation and upgrades with virtually no downtime with HP Smart Socket guide
- Eliminate tedious tasks with the embedded provisioning tools and system maintenance capabilities of HP Integrated Lifecycle Automation
- Converge storage, compute and I/O to turbo-charge application performance with HP Dynamic Workload Acceleration
- Utilize HP Automated Energy Optimization and HP Sea of Sensors 3D to enable more reliability, better performance and lower costs

Faster, simpler, intuitive server configuration and management

- Get your systems online quickly without disks or downloads with HP Intelligent Provisioning
- Start problem analysis faster, using HP Active Health unified diagnostic tools
- Get one-click simplicity for firmware and system software updates with HP Smart Update
- Monitor your HP ProLiant server's health and performance proactively with HP Insight Control
- Get one-stop remote monitoring and support of your infrastructure with HP Insight Online

¹ Compared to HP ProLiant G7 servers

² HP internal lab testing, ISS, January 2012

Technical specifications



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Processor and memory

Processor family	Intel Xeon E5-4600v2
Number of processors	2 or 4
Processor cores	12, 10, 8, 6, or 4
Maximum processor speed	3.3 GHz
L3 cache	30 MB 25 MB 20 MB 16 MB 15 MB 10 MB
Memory type	DDR3 RDIMM or Load-reduced DIMM (LRDIMM)
Memory slots	48 DIMM slots
Maximum memory	1.5 TB
Memory protection features	Advanced error checking and correcting and DIMM address/parity protection; memory lockstep mode; online spare plus failed DIMM isolation; patrol and demand scrubbing
Drives supported	Up to 5 hot-plug 2.5 inch SFF SAS/SDD
Network controller	1 HP FlexibleLOM adapter
Storage controller	1 HP Smart Array P420i storage controller
Deployment	
Form factor	2U rack
System fan features	Redundant standard
Management	HP Integrated Lights-Out 4 (iLO 4), HP Insight Control (optional)
Power supply type	Hot-plug redundant power supply
Warranty (parts/labor/onsite)	3/3/3
QuickSpecs URL	h18000.www1.hp.com/products/quickspecs/14395_div/14395_div.html

HP Services and support

HP offers a robust portfolio of packaged lifecycle support solutions that enable you to improve HP ProLiant server support for better business outcomes.

- **Optimized Care**—Delivers outstanding performance and continual availability of your crucial HP ProLiant systems through deployments and proactive management practices.
 - Three-year HP Proactive Care: 24x7 support, and six-hour call-to-repair onsite hardware support
 - HP Installation and Startup of HP ProLiant servers
- **Standard Care**—Maintains a high level of server availability along with expert help to cut the cost and complexity of implementing and supporting your HP ProLiant server.
 - Three-year HP Proactive Care: 24x7 support, and a four-hour onsite hardware response commitment
 - HP Installation and Startup of HP ProLiant servers
- **Basic Care**—Delivers minimum recommended support service level with expert advice, implementation, and support.
 - Three-year HP Collaborative Support: 24x7 support, and a four-hour onsite hardware response commitment
 - HP Installation and Startup of HP ProLiant servers

All HP Care Packs come with HP Insight Remote Support software, available at no additional cost, delivering remote monitoring, diagnosis, and problem resolution.

Only HP brings together deep expertise, proactive and business critical support, and a strong partner network.

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

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HP Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment. hp.com/go/factoryexpress

Customer technical training

Gain the skills you need with ExpertOne training and certification from HP. With HP ProLiant training, you will accelerate your technology transition, improve operational performance, and get the best return on your HP investment. Our training is available when and where you need it, through flexible delivery options and a global training capability. hp.com/learn/proliant

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