

# HP ProLiant DL360p Gen8 Server



Performance driven compute and storage density



## Improve productivity with the new HP ProLiant DL360p Gen8 Server

When your business demands are high, the all-new HP ProLiant DL360p Gen8 Server provides exemplary server performance and efficiency in a compact 1U size. Ideal for your cloud environment, it is designed for dynamic workloads, with adaptability for future requirements. This dual-processor server comes in a dense rack package and features the new Intel® Xeon® E5-2600 v2 family processor, the fastest speeds in HP SmartMemory now up to 1866 MHz and the latest offerings in HP SmartStorage including SFF and LFF drive models. Our latest design provides fast and easy access to all the key components inside the server—new Smart Socket Guide for secure, easy updates to processors, and exclusive tool-less, quick-remove PCI riser cages for fast updates.

The server also features a new family of networking solutions—HP FlexibleNetwork Adapters—which allows you greater configuration flexibility and faster serviceability. Also included is the latest HP Integrated Lights-Out (iLO 4) Management Engine, as part of the new embedded HP ProActive Architecture, for faster deployment, better management, Always-On HP Active Health System, and instant uptime tools.

## Key features and benefits

### What's new?

The ProLiant DL360p Gen8 Server comes with:

- **HP iLO 4 Management Engine:** Provides a lifecycle approach to deploying and managing the server, and automatically regulates power consumption and server performance
- **New Intel Xeon E5-2600 v2 family processor:** 4, 6, 8, 10, and 12 core solutions with frequencies from 1.7 GHz to 3.5 GHz and power levels from 60 to 130 Watts
- **24 DIMM slots for new DDR3 HP SmartMemory:** Offers maximum memory of up to 768 GB DDR3 and speeds up to 1866 MHz
- **New HP Smart Storage family of controllers and drives:** Allows for increased intelligent storage systems
- **New Easy Install Rail kit:** Allows for in-rack serviceability
- **HP Common Slot power supplies:** Supports up to 96% efficiency

The ProLiant DL360p Gen8 Server offers performance, efficiency, storage capacity, and reliability in a compact size. Features include:

- **HP Smart Socket guide:** Enables intelligent, precise, and quick processor installation or upgrade, which lowers the risk of downtime for your business.
- **HP Smart Drives with cognitive drive activity:** Provides new, more intuitive drive activity and status indicators that enhance serviceability for easier management and reduced maintenance errors. The new carrier provides increased capacity, thus offering improved rack space and addressing additional power needs, with 33 percent increase in capacity footprint.<sup>1</sup>
- **HP SmartMemory:** Authenticates memory, ensuring that the highest of quality standards are met. Since the memory has been customized for HP ProLiant, HP SmartMemory enables the servers to run speeds greater than third party memory can provide. The server also offers a 32 GB LRDIMM which gives a maximum capacity of 768 GB, and speed up to 1866 MHz.
- **HP FlexibleNetwork Adapters:** Offers you a choice of increased configuration flexibility and faster serviceability. Removable and replaceable, the family of Flexible Networking solutions allows you to easily adopt a 4-port 1 GB solution, or implement a 2-port 10 GB, CNA, or InfiniBand solution when the need arises.
- **ProLiant 3D Sea of Sensors:** Enables energy savings by facilitating more efficient fan usage to cool the server. The web of temperature sensors allows for precise and efficient cooling by providing a more complete, literally 3D view of temperature in the server so that server fans can direct cooling where it is most required.
- **ENERGY STAR® certified:** Helps your business conserve energy and save money. The ENERGY STAR program is qualified by U.S. Environmental Protection Agency.

### Why HP?

The use of a single iLO version on all our ProLiant Gen8 servers makes them consistent, simpler, and easier to manage. Additionally, the embedded provisioning enables a server startup that is simplified and time-efficient. The ProLiant DL360p Gen8 Server comes with new drive carriers, faster array controllers, and faster, lower voltage memory, giving you more internal storage and better performance. Also, the active health system with an always-on diagnostic analysis enables faster time to resolution.

Embedded firmware, update tools, and new system software service pack releases for HP ProLiant enable automated scan and updates. This saves precious time and reduces complexity. And, with embedded, agentless management, you get health monitoring without loading operating system agents, which leads to better performance and management insight.

**Table 1.** A quick comparison between the ProLiant DL360p Gen8 Server and ProLiant DL360p G7 Server

	ProLiant DL360p G7 Server	ProLiant DL360p Gen8 Server
<b>Processor</b>	Intel Xeon 5500 or 5600, 4 or 6 cores, speeds from 1.6 up to 3.6 GHz	Intel Xeon E5-2600 v2 or E5-2600, choice of 2, 4, 6, 8, 10, or 12 cores, speeds from 1.7 up to 3.5 GHz
<b>Memory</b>	18 DIMM slots for DDR3, maximum speed up to 1333 MHz or maximum capacity 384 GB	24 DIMM slots for DDR3, maximum speed up to 1866 MHz or maximum capacity 768 GB
<b>Storage</b>	HP Smart Array P410i controller; Maximum 8 SFF HDD	HP Smart Array P420i controller; Maximum 10 SFF or 4 LFF HDD
<b>Networking</b>	4x1GbE LOM	FlexibleLOM for rack servers—4x1GbE, 2x10GbE, InfiniBand and Flexible Fabric options
<b>Expandability</b>	2 PCIe slots (x16-FHFL, x8LP)	2 PCIe 3.0 slots (x16-FHHL, x8LP) with quick access system
<b>Management</b>	HP iLO 3	HP iLO Management Engine with Always-On Active Health System

<sup>1</sup>As compared to G7 version that has maximum internal storage of 8 TB, while Gen8 has increased storage capacity options of 10 TB on 10 SFF systems and 12 TB on 4 LFF systems.

## Technical specifications

<b>Drive description</b>	10 SFF SAS/SATA/SSD 8 SFF SAS/SATA/SSD or 4 LFF SAS/SATA/SSD
<b>Supported drives</b>	Hot plug SFF 2.5-inch SAS Hot plug SFF 2.5-inch SATA Hot plug SFF 2.5-inch SSD Hot plug LFF 3.5-inch SAS Hot plug LFF 3.5-inch SATA Hot plug LFF 3.5-inch SSD
<b>Processor and memory</b>	
<b>Cache</b>	30 MB L3 25 MB L3 20 MB L3 15 MB L3 10 MB L3 5 MB L3 Depending on processor installed
<b>Processor family</b>	Intel Xeon E5-2600 v2 or E5-2600 family
<b>Processor quantity</b>	1 or 2
<b>Processor core available</b>	12, 10, 8, 6, 4, or 2
<b>Processor speed</b>	1.7 to 3.5 GHz
<b>Memory slots</b>	24 DIMMs, with 4 channels
<b>Maximum memory</b>	768 GB maximum (256 GB maximum capacity/maximum speed @ 1866 MHz)
<b>Memory type</b>	DDR3 RDIMM, LRDIMM or UDIMM, HP SmartMemory
<b>Memory protection features</b>	Advanced ECC, online spare, memory lock-step mode
<b>Storage</b>	
<b>Network controller</b>	HP FlexibleLOM 1Gb 331FLR Ethernet adapter on some models, and HP FlexibleLOM 10Gb 2-port 530FLR-SFP+ Ethernet Adapter on others; Options: 4-ports or 2-ports 10 GB, CNA, SFP+, FCoE, and InfiniBand solutions
<b>Storage controllers</b>	Smart Array P420i controller (optional flash back write cache [FBWC] 512 MB, 1 G, 2 G)
<b>Internal storage</b>	SATA, SAS, SSD (10 or 8) 2.5" hot plug bays optional (4) 3.5" hot-plug bays Includes bay for optional optical drive
<b>Maximum internal storage</b>	12 TB SFF (10 x 1.2 TB HDD) or 9.6 TB SFF (8 x 1.2 TB HDD) or 12 TB LFF (4 x 3 TB HDD)
<b>Expansion slots</b>	2x PCIe 3.0 slots for x16-FHHL, and x8 low profile option cards maximum, with HP exclusive tool-less quick access feature
<b>Deployment</b>	
<b>Remote management software</b>	HP iLO Management Engine
<b>Form factor chassis</b>	Rack
<b>System fans features</b>	Hot plug fully redundant
<b>Power supply type</b>	Hot plug redundant power supply
<b>Graphic card</b>	FHHL PCIe 3.0 slot for standard graphics cards up to 75 W
<b>Memory protection features</b>	Advanced ECC, online spare, memory lock-step mode
<b>Full configuration form factor</b>	1U
<b>Supported operating systems</b>	<ul style="list-style-type: none"> <li>• Microsoft® Windows® Server Editions</li> <li>• Linux (Red Hat, SUSE, and United)</li> <li>• Oracle Solaris</li> <li>• VMware/XenSource/RH and SLES Xen/Microsoft Hyper-V</li> </ul>
<b>Warranty (Parts/labor/onsite)</b>	Three-year parts, three-year labor, three-year onsite

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## HP Factory Express

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](http://hp.com/go/factoryexpress).

## Customer Technical Training

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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: [hp.com/services/proliant](http://hp.com/services/proliant).

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