



Boost your compute and storage capabilities

with the all-new HP ProLiant DL360p Gen8 Server Series.

Data sheet

Get improved performance with the new HP ProLiant DL360p Gen8 Server

The all-new HP ProLiant DL360p Gen8 Server series provides exemplary server performance and efficiency in a compact 1U size. Ideal for any cloud environment, it is designed for high-performance workloads, with adaptability for future requirements. This dual-processor server comes in a dense rack package and features the new Intel® Xeon® E5-2600 family processor that is designed for improved performance and efficiency. It also comes with increased capacities in HP SmartMemory and HP SmartStorage with 8 SFF or 4 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 gives you increased 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 Active Health System, and instant uptime tools.

Key features and benefits

The ProLiant DL360p Gen8 Server offers better performance, efficiency, storage capacity, and reliability in a compact size. Enterprise-class design, it is built to last longer in high-performance work environments with versatile future needs. Features include:

- **Smart Socket Guide:** Enables intelligent, precise, and quick processor installation or upgrade, which lowers the risk of downtime for your business.

- **New Smart Carrier 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.¹
- **New 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 certain improved memory performances in addition to the processor or chipset specifications, resulting in better server performance. The server also offers a new 32 GB LRDIMM which gives a maximum capacity of 768 GB, and new 1600 MHz speed memory options for better performance up to 256 GB capacities.
- **New HP Flexible Lan-On-Motherboard (FlexibleLOM) Adapters:** Offers you a choice of increased configuration flexibility and faster serviceability. Removable and replaceable, the new 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 as and when the need arises.
- **ProLiant Sea of Sensors 3D:** 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 businesses conserve energy and save money. The ENERGY STAR program is qualified by U.S. Environment Protection Agencies.

¹ As compared to Gen7 version that has maximum internal storage of 8 TB, whilst Gen8 has increased storage capacity options of 8 TB on 8 SFF systems and 12 TB on 4 LFF systems.



What's new?

The ProLiant DL360p Gen8 Server comes with improved, new high-performance features such as:

- **HP iLO 4 Management Engine:** Ensures there is a lifecycle approach to deploying and managing the server, and automatically regulates power consumption and server performance
- **New Intel Xeon E5-2600 family processor:** Offers better performance, thanks to its 2, 4, 6, and 8 core solutions with frequencies from 1.8 GHz to 3.3 GHz and power levels from 60 to 135 Watts
- **24 DIMM slots for new DDR3 HP SmartMemory:** Offers maximum memory of up to 768 GB DDR3 and new capacities with speeds up to 1600 MHz
- **FlexibleLOM technologies:** Offers you a choice in networking with 1Gb or 10Gb NICs, CNA, SFP+, FCoE, or InfiniBand
- **New HP Smart Storage family of controllers and drives:** Allows for increased intelligent storage systems

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 Gen7 Server.

	ProLiant DL360p Gen7 Server	ProLiant DL360p Gen8 Server
Processor	Intel Xeon 5500 or 5600, 4 or 6 cores	Intel Xeon E5-2600, choice of 2, 4, 6, or 8 cores, speeds from 1.8 up to 3.3 GHz
Memory	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 1600 MHz or maximum capacity 768 GB
Storage	HP Smart Array P410i controller; Maximum 8 SFF HDD	HP Smart Array P420i controller; 8 SFF plus optical standard; 4 LFF plus optical optional
Networking	4x1GbE LOM	FlexibleLOM for rack servers—4x1GbE, 2x10GbE, InfiniBand and Flexible Fabric options
Expandability	2 PCIe slots (x16-FHFL, x8LP)	2 PCIe 3.0 slots (x16-FHHL, x8LP) with quick access system
Management	HP iLO 3	HP iLO 4 Management Engine with Always-On Active Health System

HP ProLiant DL360p Gen8 Server Series



Technical specifications

Drive description	8 SFF SAS/SATA/SSD or 4 LFF SAS/SATA/SSD
Supported drives	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
Processor and memory	
Cache	20 MB L3 15 MB L3 10 MB L3 5 MB L3 Depending on processor installed
Processor family	Intel Xeon E5-2600 family
Processor quantity	1 or 2
Processor core available	8, 6, 4, or 2
Processor speed	1.8 to 3.3 GHz
Memory slots	24 DIMMs, with 4 channels
Maximum memory	768 GB maximum (256 GB maximum capacity/maximum speed @ 1600 MHz)
Memory type	DDR3 RDIMM, LRDIMM or UDIMM, HP SmartMemory
Memory protection features	Advanced ECC, online spare, memory lock-step mode
Storage	
Network controller	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
Storage controllers	Smart Array P420i controller (optional flash back write cache [FBWC] 512 MB, 1 G, 2 G)
Internal storage	SATA, SAS, SSD (8) 2.5" hot plug bays optional (4) 3.5" hot-plug bays Includes bay for optional optical drive
Maximum internal storage	8 TB SFF (8 x 1 TB HDD) or 12 TB LFF (4 x 3 TB HDD)
Expansion slots	2x PCIe 3.0 slots for x16 full-height, half-length, and x8 low profile option cards maximum, with HP exclusive tool-less quick access feature
Deployment	
Remote management software	HP iLO 4
Form factor chassis	Rack
System fans features	Hot plug fully redundant
Power supply type	Hot plug redundant power supply
Graphic card	Full-height/Half-length PCIe 3.0 slot for standard graphics or up to 75 W GPU
Full configuration form factor	1U
Supported operating systems	–Microsoft® Windows® Server Editions –Linux (Red Hat, SUSE, and United) –Oracle Solaris –VMware/XenSource/RH and SLES Xen/Microsoft Hyper-V
Warranty (parts-labor-onsite)	Three-year parts, three-year labor, three-year onsite

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4AA3-9551ENW, Created March 2012

