



HP ProLiant DL360 G6 Server

Data sheet

Meeting IT demands while controlling server sprawl and spiraling energy as well as manpower costs can be tedious. This often results in increased pressure when making IT expenditure decisions. But it does not have to be so.

With the HP ProLiant DL360 G6 Server, you can be confident of having control of your compute environment—at reduced costs and with greater efficiency. Designed to provide extreme adaptability, the DL360 G6 Server allows you to benefit from scalable performance and enhanced power efficiency. It also comes with more than double the memory capacity over the previous generation—giving you the ability to meet a wide variety of application requirements.

Its dense form factor, combining 18 DIMMs and up to eight small form factor (SFF) hot-plug SATA or SAS drives in 1U makes it ideal for space-constrained installations. The latest Intel® Xeon® 5500 Series processors (quad-core and dual-core), with choice of DDR3 registered or unbuffered DIMMs, Serial Attached SCSI (SAS), and PCI Express Gen2 technology provide a high-performance system, ideal for the full range of scale out-applications. What's more, the DL360 G6 Server steps up essential fault tolerance with redundant power, redundant fans, mirrored memory, embedded RAID capability, and robust infrastructure management capabilities.

Key features and benefits

Scalable performance

With the Intel Xeon 5500 sequence processors now optimized by HP ProLiant, you can benefit from the new architectures and features enhancements of QuickPath Architecture, Integrated Memory controller, Turbo Mode, and Dynamic Power Management and Hyper Threading Technology.

- Up to two (2) Intel Xeon 5500 sequence processors, now allow customized adaptability for optimizing both power consumption and performance based on your needs
- Up to 144 GB of DDR3 memory (800 MHz to 1333 MHz depending on processor) with larger memory capacity meet the requirements of memory-intensive applications
- Two PCI Express Generation 2 expansion slots (standard) (1x6, 1x8) and optional PCI-X provide flexible I/O alternatives
- Embedded Dual Port Multifunction Gigabit Network Adapter with TCP/IP Offload Engine provides increased network reliability
- Up to eight SFF SAS drives and an embedded HP Smart Array P410i controller allow quicker access to data and increase storage bandwidth for cutting-edge storage performance

With more memory and hard drives, power management capabilities, and other enterprise-class features in an ultra-dense 1U rack design, the HP ProLiant DL360 G6 Server achieves the perfect balance of size and features in a rack environment.

Essential management

Simple management tools help you take control of your server infrastructure.

- HP Insight Control management software suite provides essential infrastructure management to administrators deploy servers quickly, proactively manage server health, optimize power confidently and remotely manage servers from anywhere
- Smart power and thermal management is available with:
 - HP Power Regulator that allows server-level, policy-based power management and improves server energy efficiency
 - New industry exclusive Power Meter reporting capability that enables you to log actual power usage.
- New Systems Insight Display facilitates walk-up system diagnostics

Fault tolerance

Engineering excellence provides unsurpassed reliability in a 1U form factor. The DL360 G6 Server offers redundant fans and optional redundant power supplies to meet demanding availability requirements of corporate data centers.

- Fan redundancy (standard) allows for continued operation until maintenance can be scheduled to replace a failed fan assembly
- Hot-plug power supply with optional redundancy means no downtime to repair failure
- HP Smart Array P410i—available with optional up grades of 512 MB read cache, transportable BBWC, and RAID 6 options—allows you to meet your storage needs
- Embedded Dual Port Multifunction Gigabit Network Adapter with TCP/IP Offload Engine enables high-speed speed LAN capability without having to use a slot and NICs can be teamed or configured for redundancy

- Advanced ECC memory detects and corrects 4-bit memory errors that occur within a single DRAM chip on the DIMM
- Mirrored memory protects against uncorrectable memory errors without degrading the performance of the memory system

Deployment versatility in a 1U form factor

The virtual presence of embedded Lights-Out technology enables full remote control of your server. Optional high-speed graphical remote console and virtual media functionality further enhances the feature set.

- Two PCI-Express expansion slots (1 full length/height, 1 low profile) allow for configuration options, such as redundant Host Bus Adapters (HBA) or NICs, for additional levels of uptime
- Smart Array P410i controller comes standard for all server models. The performance models have additional 512 MB memory and BBWC, while the base models have additional 256 MB Memory
- Multiple drive technologies (SAS or SATA) provide unique price/performance configuration options
- Embedded Multifunction Gigabit Network Adapters support TCP/IP, iSCSI, Wake On LAN (WOL) and PXE for additional management functionality
- Lower power processors, disk drives, and HP Power Regulator technology deliver more performance per U and greater power per Watt

Enhanced power efficiency

By upgrading server components and management of power within these sub-components, new high-efficient/right-sized power supplies, intelligent power and cooling, and a sea of sensors throughout the server, we have produced a new level of energy efficiency.

The HP ProLiant DL360 G6 Server can help you reduce power consumption—without reducing performance. Right-sized ProLiant Power Supplies enables you to meet your exact needs so that you do not have to oversubscribe your power requirements. Less oversubscription means more capacity opportunity. Also, be sure to use the HP Power Calculator for selecting the right size power supply.

- Choice of 460W, 750W or 1200W power supplies allows you to only pay for the power you need
- HP Insight Control with Dynamic Power Capping enables you to improve your capacity up to 3x—so that you can reduce, reclaim, and reuse lost server power in the rack systems
- Smart sensors throughout the server allow intelligent actions to preserve, protect, and enhance performance and power savings

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Processor and Memory

Processor Type	Intel Xeon					
Available Processors	Intel Naming	Speed	Cache	Wattage	Turbo	Memory Speed
	X5570	2.93	8M	95W	2/2/3/3	1333 MHz
	X5560	2.80	8M	95W	2/2/3/3	1333 MHz
	X5550	2.66	8M	95W	2/2/3/3	1333 MHz
	E5540	2.53	8M	90W	1/1/2/2	1066 MHz
	E5530	2.40	8M	80W	1/1/2/2	1066 MHz
	L5520	2.26	8M	60W	1/1/2/2	1066 MHz
	E5520	2.26	8M	80W	1/1/2/2	1066 MHz
	E5506	2.13	4M	80W	N/A	800 MHz
	L5506	2.13	4M	60W	N/A	800 MHz
	E5504	2.00	4M	80W	N/A	800 MHz
	E5502	1.86	4M	80W	N/A	800 MHz
Processor Core	Dual and Quad					
Processor Cache	5500 series 4 MB to 8 MB Level 2 Cache depending on processor					
Max Processor Speed	2.93 GHz					
Multi-processor	2					
Max Front Side Bus Speed	800 to 1333 MHz					
Memory Type	PC3-10600R Registered (DDR3) Memory or PC3-10600E Unbuffered (DDR3) Memory					
Standard Memory	Performance Model: 12 GB (6 x 2 GB) DDR3-1333 MHz Registered Memory Base Model: 6 GB (3 x 2 GB) DDR3-1333 MHz Registered Memory Entry Model: 4 GB (2 x 2 GB) DDR3-1333 MHz Registered Memory Efficiency Model: 4 GB (2 x 2 GB) DDR3-1333 MHz Unbuffered Memory Note: Memory Speed of 1333 MHz may run at (800 MHz/1066 MHz) depending on processor model and memory configurations. Please refer to Memory Configuration Tool.					
Max Memory	144 GB Registered Memory (48 GB Unbuffered Memory)					
Memory Slots	18 DIMMs					
Advanced Memory Protection	Advanced ECC, Mirrored Memory					
Storage Type	Hot plug SFF SAS, Hot plug SFF SATA					
Max Number of Hard Drives	8 Note: The DL360 G6 4SFF HD bay version has the option of Optical Media support or can be upgraded with 4 additional SFF HD bays (totaling 8)					
Removable Media Bays	1					
Expansion Slot	2 total, 2 available					
Storage Controller	All models have HP Smart Array P410i embedded controller. Depending on the Cache configurations, the RAID support will differ:					
		Entry/Efficiency	Base	Performance		
	Memory/Battery	Zero Memory	256 MB	512 MB BBWC		
	RAID Support	0, 1, 1+0	0, 1, 1+0, 5, 5+0	0, 1, 1+0, 5, 5+0		
	Optional Smart Array Advance Pack will allow 6, 60 RAID support and other enhanced features.					
Deployment						
Form Factor	Rack					
Rack Height	1U					
Networking	NC382T Dual Port Multifunction Gigabit Network Adapters					
Infrastructure Management	HP Insight Control					
Redundant Power Supply	Optional					
Redundant Fans	Standard					
Warranty—year(s) (parts/labor/onsite)	3/3/3					

Ideal environment

The HP ProLiant DL360 G6 Server is ideal for:

Corporate data centers and service providers

- Redundant fans (standard) and redundant power supplies (optional) limit costly network downtime
- Remote manageability makes it easier to support centralized or remote data center environments
- Sliding rack rails (standard) and cable management arm and fixed cord PDU (optional) accommodate dense server deployment

Small and medium businesses

- ProLiant management tools ease server deployment and life cycle management when resources are limited
- Internal configuration flexibility supports a variety of applications
- SAS and SATA models expand deployment options

Ideal applications

The HP ProLiant DL360 G6 Server is well-suited for:

- Mail and messaging, domain controller, directory services, firewall, Web hosting
- High Performance Computing (HPC), High Availability Clustering and Storage Area Networks
- Citrix Terminal Services

HP Financial services

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information, contact your local HP representative, or visit

www.hp.com/go/hpfinancialservices

For more information

To find out more about the HP ProLiant DL360 G6 Server contact your local HP representative, or visit

www.hp.com/servers/dl360-g6

HP Services

When Technology Works, Business Works

The challenge of virtually every IT organization is similar: to develop and maintain an agile, efficient server infrastructure that delivers the service levels your business needs.

HP Technology Services offer a comprehensive portfolio of HP Care Pack Services to help design, deploy, manage and support your IT environment, enabling cost-effective upgrades to standard warranty with easy-to-buy, easy-to-use support packages.

Minimum Recommended HP Care Pack offerings

- Three-year, 4 hour response on site 24-hour x 7-day coverage, hardware support
- Server installation and start up service

Enhanced service level Care Pack offerings

- Three-year, Support Plus 24 24-hour x 7-day coverage, integrated hardware and software OS support
- Three-year, Proactive Select delivers flexibly priced consultancy portfolio

Benefit from HP Care Pack Services helping you:

- Reduce deployment time and manage ProLiant server solutions smoothly and efficiently.
- Increase uptime and performance of servers availability to your business.
- Detect, diagnose, and repair problems to quickly save time, money, and resources.

For more information, visit

www.hp.com/services/proliantservices or
www.hp.com/go/proliant/carepack

Technology for better business outcomes

To learn more, visit www.hp.com/servers/dl360-g6

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