HP ProLiant DL360 G7 Server

Data sheet

Get superior performance in a compact footprint

If space is a premium consideration, quality is a priority, and consolidation is the need, then look no further—the HP ProLiant DL360 G7 Server is designed to work well in limited spaces and delivers superior performance with improved consolidation over previous-generation servers.

Combining concentrated 1U compute power, HP Insight Control, HP Thermal Logic technology, and essential fault tolerance, the HP ProLiant DL360 G7 Server is designed for space-constrained installations. With the latest Intel® Xeon® 5600 series processors, DDR3 Registered or unbuffered DIMMs, Serial Attached SCSI (SAS), PCI Express Gen 2 technology, and four 1 Gb network interface cards (NICs), the DL360 G7 is a high-performance server—ideal for the full range of scale-out applications.

Do more with less

- Up to two Intel Xeon 5600 or 5500 series processors with Turbo Boost technology automatically regulate power consumption and intelligently adjust server performance, resulting in higher efficiency and superior performance. It comes with the latest Intel® QuickPath Interconnect (QPI) architecture with an option for six-core, quad-core, or dual-core processors.
- HP Integrated Lights-Out 3 (iLO 3), part of Insight Control, delivers remote control performance almost 800%[1] faster than iLO 2—making it as good as being there in person. Also, with 360%[1] faster Virtual Media, everyday maintenance and deployment can be done in a fraction of the time. It sends alerts from iLO 3 regardless of the state of the host server, and it helps you access advanced troubleshooting features. Now you can manage your data center remotely—significantly reducing the expense for onsite personnel and travel time to server site. For more information about iLO 3 for ProLiant servers, visit: **www.hp.com/go/iLO**
- Four NIC ports help sustain unparalleled network availability and reliability.

[1] HP Performance Engineering Team, 2010 benchmark

Key features and benefits

- **Enhanced server performance for space-constrained environments**
  - Latest six-core and quad-core Intel Xeon 5600 or 5500 series processors automatically regulate power consumption and intelligently adjust server performance according to your application needs. These processors make the DL360 G7 server ideal for demanding scale-out applications and virtualization.
  - Up to 192 GB of DDR3 memory (800 MHz to 1333 MHz, depending on processor) with enhanced memory capacity meets the requirements of your memory-intensive applications.
  - Concentrated 1U compute power is ideal for space-conscious customers.
- **Improved server lifecycle management**
  - HP Insight Control is essential server management software that helps deploy servers quickly, proactively manage the health of virtual or physical servers, streamline power consumption, and take remote control from anywhere.
  - iLO 3, part of Insight Control, is a standard component of the HP ProLiant DL360 G7 Server, facilitating server health and remote server manageability. Because it includes an intelligent microprocessor, secure memory, and a dedicated network interface, iLO 3 is independent of the host server and its operating system.
  - Together, HP SmartStart, HP Insight Control, Preboot Execution Environment (PXE), and ROM-Based Setup Utility (RBSU) simplify server configuration and deployment.
  - Insight Control helps you manage HP servers running Microsoft® Windows®, Linux, VMware, and Citrix XenServer environments. In addition, you can integrate Insight Control with leading third-party enterprise management consoles, such as Microsoft System Center and VMware vCenter™ Server.
  - System Insight Display is a robust slide-out system diagnostics display that makes it easy to find troubleshooting information at the front of the server, helping to save administrator time.
- **HP Thermal Logic Technology driving new levels of energy efficiency**
  - The **HP Sea of Sensors** technology enhances server performance while reducing energy usage and expense. Achieve significant reduction in power usage at the server level with the HP Sea of Sensors, the heart of HP Thermal Logic technologies. Up to 32 smart sensors automatically track thermal activity across the server, dynamically adjusting system components such as fans, memory, and I/O processing to enhance system cooling. In other words, the HP Sea of Sensors makes intelligent decisions about how much cooling is needed for the server to perform efficiently.
  - **Dynamic Power Capping** can improve capacity by almost three times. Insight Control and Dynamic Power Capping together allow you to monitor power usage levels and protect circuit breakers in the rack—without impacting performance.
  - **HP Common Slot Power Supply** is a bay design that provides you with commonality in power supplies across multiple platforms—saving on the cost of spares and offering power solutions that match your needs. Common Slot designates commonality of power supply across multiple servers. Many HP ProLiant servers come with Common Slot, which means high-efficiency and right-size power supplies. The new Common Slot power supplies are designed to provide power efficiency without compromising on performance. These power supplies can have efficiency ratings up to 92%.[2] You can choose from multiple right-sized power options available, depending on the configuration of your server.

    To check for power supply options supported in the DL360 QuickSpecs, visit: **http://h18004.www1.hp.com/products/quickspecs/13235_div/13235_div.html**

    HP Common Slot Power Supplies meet compliance standards with Climate Savers Computing Gold, 80PLUS Gold, and ENERGY STAR® power supply ratings. You have an option of choosing from the 460 watts, 750 watts, 1200 watts, and -48Vdc (for special DC environments) power supplies to more closely match the actual power your server is using. To help you select the right power supply option that suits your configuration, we recommend the HP Power Advisor.

    To learn more about the HP Power Advisor, visit: **www.hp.com/go/proliant-energy-efficient** or **www.hp.com/go/hppoweradvisor**

[2] http://www.80plus.org/manu/psu/psu_reports/HEWLETT-PACKARD_499250-101_460W_SO-52_Report.pdf
Tested by Electric Power Research Institute, Knoxville, TN, July 2009

Technical specifications

HP ProLiant DL360 G7 Server

Processor and memory	
Number of processors	2
Processor cores	Six-core, quad-core, and dual-core
Processors supported	Intel Xeon 5600 series
Cache	12 GB L3 4 GB L3 (on some models)
Memory type	DDR3 RDIMM or UDIMM
Standard memory	DDR3
Maximum memory	Up to 192 GB
Advanced memory protection	Advanced error checking and correcting (ECC), mirrored memory, online spare (5600 series)
Memory slots	18 DIMM
Storage	
Storage type	Hot-plug SFF SAS Hot-plug SFF SATA Hot-plug SFF SDD
Maximum internal storage	4 TB
Maximum internal drive bays	8
Expansion slots	2 PCIe x8 Gen 2 mezzanine
Storage controller	Smart Array P410i Controller with optional upgrades to 256 MB, 512 MB battery-backed write cache (BBWC), 512 MB flash backed write cache (FBWC), and 1 GB FBWC options
Deployment	
Form factor	Rack
Rack height	1U
Networking	Two HP NC382i Dual Port Multifunction Gigabit Server Adapters—4 x 1 Gb NIC ports
Server management	HP Insight Control featuring Integrated Lights-Out Advanced
Redundant power supply	Fans: N + 1 NHTPLG Power supplies: N + 1 HTPLG
Power supplies	460W; 750W; -48Vdc power options
Security	TPM
Warranty	3-year parts/3-year labor/3-year onsite

For additional technical specifications, please visit: **http://h18000.www1.hp.com/products/quickspecs/13598_div/13598_div.PDF**

- **Simplified server management**
  - Mechanical design simplifies configuration and maintenance. Tool-free, modular components and hot-plug redundancy features promote quick maintenance and ease access to components while reducing cabling requirements.
  - Quick-deploy rail system helps simplify installation and quick server access with universal tool-free sliding rail support.
  - Commonality focus helps increase IT productivity with universal drives, Smart Array Controllers, and power supplies. In addition, common components simplify spares management.
  - ROM-based configuration and management features increase uptime and simplify configuration. ROM protects the server platform during upgrades, and ROM-based drivers provide independent health operating system (OS) monitoring.

Why choose the DL360 G7 server?

Your business environment will determine your server choice. It is recommended that you consider what you need in order to:

- Make the best use of your constrained space
- Meet the demands of your scale-out applications
- Realize your virtualization roadmap
- Enable efficient remote manageability
- Get tangible return on investments (ROI)

The DL360 G7 server can help you achieve all these goals, at a great price—making it the right choice for organizations looking to make the most of their investment.

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**

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 offers a comprehensive portfolio of HP Care Pack services to help design, deploy, manage, and support your IT environment, with easy-to-buy, easy-to-use support packages.

Minimum recommended HP Care Pack offerings

- Three-year, next-business-day response, onsite 9-hour x 5-day coverage, and hardware support
- Hardware installation

Related service-level HP Care Pack offerings

- **Hardware Support**—three-year, either 6-hour or 24-hour call to repair onsite
- **Hardware Support Plus 24**—same-business-day, four-hour hardware response coverage, two-hour remote software response
- **Proactive Select**—access to HP technical consultants, service credits, and expertise when needed

HP Care Pack service benefits

- Reduce deployment time and manage server blade solutions smoothly and efficiently
- Increase server uptime, performance, and availability to your business
- Detect, diagnose, and repair problems quickly, saving time, money, and resources

For more information, visit **www.hp.com/services/proliantservices** or **www.hp.com/go/proliant/carepack**

To learn how the HP ProLiant DL360 G7 Server can provide you an ideal combination of performance and energy efficiency in a space constrained environment, please visit: **www.hp.com/servers/dl360-g7**

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