



## HP ProLiant DL380 G7 Server

Data sheet

**The HP ProLiant DL380 G7 Server delivers superior performance with improved consolidation over previous-generation servers.<sup>1</sup> Increased flexibility, enterprise-class uptime, advanced server management features, latest processor series, and 2U compute density make it an ideal choice for your business.**

The HP ProLiant DL380 G7 Server continues to deliver on its history of engineering excellence. Combining 2U compute density, HP Insight Control, and HP Thermal Logic technology, the server is designed for a variety of rack deployments and applications. With the latest Intel® Xeon® 5600 series processors, DDR3 Registered or unbuffered DIMMs, Serial Attached SCSI (SAS), and PCI Express Gen 2 technology, the DL380 G7 is a high-performance server—ideal for businesses of all types and sizes.

### Bringing together the latest technology with the earlier generation's best features

- Up to two Intel Xeon 5600 series processors with Turbo Boost technology automatically regulate power consumption and intelligently adjust server performance, resulting in enhanced efficiency and greater 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%<sup>2</sup> times faster than iLO 2—making it as good as

being there in person. Also, with 360%<sup>3</sup> times 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 HP Integrated Lights-Out 3 (iLO 3) for ProLiant servers, visit: [www.hp.com/go/iLO](http://www.hp.com/go/iLO)

### Key features and benefits

- **Enhanced server performance for demanding scale-out applications and virtualization**
  - Latest six-core and quad-core Intel Xeon 5600 series processors automatically regulate power consumption and intelligently adjust server performance according to your application needs. These processors make the DL380 G7 server ideal for demanding scale-out applications and virtualization.

<sup>1</sup> G4 to G7 consolidation ratio is 21:1 with a two-month ROI

<sup>2,3</sup> HP Performance Engineering Team, 2010 benchmark



- 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.
- 2U compute density makes the DL380 G7 server well-suited for a variety of rack deployments and applications.
- Intel® Hyper-Threading Technology delivers simultaneous multi-threading resulting in efficient use of processor resources, higher processing throughput, and improved performance and energy efficiency.

- **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 complete remote control from anywhere.
- iLO 3, part of Insight Control, is a standard component of the HP ProLiant DL380 G7 Server, and facilitates 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.
- Insight Control server migration pack automates the manual processes required for a physical server to virtual machine (P2V) migration. It raises the bar on P2V automation, so that a typical migration process can be completed in a matter of minutes.
- 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 Power Advisor helps in the estimation of power consumption and proper selection of components including power supplies for enhanced power management.

- **Advanced energy efficiency with HP Thermal Logic technologies**

- Compliance with Climate Savers Computing Gold, 80PLUS Gold, and ENERGY STAR® standards demonstrate the true power-efficiency of the DL380 G7 server.
- ProLiant server power supply options include 460 watts, 750 watts, 1200 watts, and -48Vdc (for special DC environments).
- **HP Sea of Sensors** technology enhances server performance while helping to reduce 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.

- **Simplified server configuration, installation, and maintenance**

- Mechanical design simplifies configuration and maintenance. Tool-free, modular components and hot-plug redundancy features promote quick maintenance and ease access to components while helping to reduce cabling requirements.
- Quick-deploy rail system simplifies installation and provides quick server access with universal tool-free sliding rail support.
- Commonality focus increases 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.

## HP ProLiant DL380 G7 Server

Technical specifications



### Processor and memory

<b>Number of processors</b>	2
<b>Processor cores</b>	Six-core, quad-core, and dual-core
<b>Processor speed</b>	3.46 GHz
<b>Processors supported</b>	Intel® Xeon® 5600 series
<b>Cache</b>	8 MB L3
<b>Memory type</b>	DDR3 RDIMM or UDIMM
<b>Standard memory</b>	Performance Model 12 GB (6x2 GB) DDR3-1333 MHz Registered Memory Base Model 6 GB (3x2 GB) DDR3-1333 MHz Registered Memory Entry Model 4 GB (2x2 GB) DDR3-1333 MHz Registered Memory Efficiency Model 4 GB (2x2 GB) DDR3-1333 MHz Unbuffered Memory
<b>Maximum memory</b>	192 GB
<b>Advanced memory protection</b>	Advanced error checking and correcting (ECC), mirrored memory, online spare (5600 series)
<b>Memory slots</b>	18 DIMM

### Storage

<b>Storage type</b>	Hot-plug 2.5-inch SAS Hot-plug 2.5-inch SATA Hot-plug 3.5-inch SAS Hot-plug 3.5-inch SATA
<b>Maximum internal storage</b>	4 TB
<b>Maximum internal drive bays</b>	8
<b>Expansion slots</b>	6 PCIe x8 Gen 2 mezzanine
<b>Storage controller</b>	Smart Array P410i Controller with 256 MB, 512 MB battery-backed write cache (BBWC), 512 MB flash-backed write cache (FBWC), and 1 GB FBWC options

### Deployment

<b>Form factor</b>	Rack
<b>Rack height</b>	2U
<b>Networking</b>	Two BCM5709C with dual-port Gigabit
<b>Server management</b>	HP Insight Control featuring Integrated Lights-Out Advanced
<b>Redundant power supply</b>	Standard on performance models, optional on entry and base models
<b>Power supplies</b>	460W; 750W; 1200W; -48Vdc power options
<b>Security</b>	Trusted Platform Module (TPM)
<b>Warranty</b>	3-year parts/3-year labor/3-year onsite

For additional technical specifications, please visit: [http://h18004.www1.hp.com/products/quickspecs/13595\\_div/13595\\_div.html](http://h18004.www1.hp.com/products/quickspecs/13595_div/13595_div.html)

## Why choose the DL380 G7 server?

Your business requirements and environment will determine your server choice. The DL380 G7 server is ideal for:

- Environments and businesses of all types and sizes
- Space-constrained corporate data centers and service providers
- Sophisticated small- and medium-sized businesses (SMBs)
- Demanding scale-out applications
- Businesses realizing their virtualization roadmap
- Efficient remote manageability

## Ideal applications for the DL380 G7 server are:

- Server-based computing
- Medium scale mail and messaging
- Web and application server
- Small to medium databases
- Terminal services (Citrix)
- File and print
- Data center utility

## 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, visit:

[www.hp.com/go/hpfinancialservices](http://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, same-business-day response, onsite 4-hour x 5-day x 13-hour coverage
- 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, 4-hour hardware response coverage, 2-hour remote software response
- **Proactive Select**—access to HP proven 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](http://www.hp.com/services/proliantservices) or [www.hp.com/go/proliant/carepack](http://www.hp.com/go/proliant/carepack)

To learn how the new HP ProLiant DL380 G7 Server can provide you an ideal combination of performance and energy efficiency along with improved consolidation over previous-generation servers, visit: [www.hp.com/servers/dl380-g7](http://www.hp.com/servers/dl380-g7)

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4AA0-7762ENW, Created April 2010

