

# HP ProLiant DL580 Generation 5 Server

Data sheet



The ProLiant DL580 G5 Server is designed for enhanced uptime and is engineered to provide outstanding scalability and serviceability for the enterprise.

## Enterprise-strength performance and scalability in a space-efficient, rack- or tower-optimized package

The HP ProLiant DL580 Generation 5 (G5) Server is an enterprise-class, 4-socket server designed for maximum scalability and high availability. Its innovative chassis offers unsurpassed flexibility and serviceability in a versatile, rack- or tower-optimized form factor. Based upon the latest industry-standard processing, memory, I/O and networking technologies, the DL580 G5 Server provides the highest levels of performance demanded by today's processor-intensive applications. It also has nearly double the feature set of the industry-leading DL580 G4 server with unparalleled high-availability features, including hot plug redundant components, to enable maximum uptime. The dense 4U form factor provides maximum application deployment flexibility, with the ability to access processors, memory, hard drives and power supplies while the unit remains secured in the rack. The 4U form factor also enables rapid response to service events, radically decreasing overall IT costs and server downtime.

## Key features and benefits

- High availability with front-accessible processors and memory, hot plug redundant fans and hot plug redundant power supplies
- Support for latest technologies including PCI Express, SAS and quad-core processing
- Designed for outstanding scalability

## Ideal environments

### Space-constrained corporate data centers and service providers

- With quad-core processing, up to 2.336 TB of internal storage, 32 DIMM sockets and PCI Express or PCI-X options, the DL580 G5 Server packs all the scalability, storage, memory and I/O you need into a versatile 4U chassis.
- Availability features like hot plug redundant power supplies, hot plug redundant fans and hot plug hard drives keep environments up and running and users productive.
- Power Regulator delivers server level, policy-based power management providing energy efficiency and savings on system power and cooling costs.
- Ambidextrous cable management and a quick deploy rail solution make racking a snap.

“Our customers want to know where their money is as quickly as possible; they want to know if they’ve completed a deal or not. Switching to the HP ProLiant servers has helped us maintain the speed and availability our clients demand.”

—Sean Gilman, CTO, Currenex

#### Database, messaging and business applications

- Up to four quad-core Intel® Xeon® processors, fully-buffered DIMMs, embedded HP Smart Array P400i controller and large internal storage capacity provide scalability for everything from web applications to mail servers to databases.
- Up to 11 I/O slots with eight standard PCI Express slots and the ability to add three additional PCI Express or PCI-X slots provides outstanding available bandwidth and flexibility for expansion.
- Dual-integrated multifunction Gigabit NICs provide the connectivity and bandwidth needed for today’s database or business applications environments.
- Easily attach to SAN or NAS and manage from one location.

#### Server consolidation

- Scalability, availability and built-in serviceability make the DL580 G5 Server the perfect platform for server consolidation solutions and virtualization.
- The DL580 G5 Server and HP ProLiant Essentials software make it easy to deploy, manage and migrate virtualized servers with VMware or Microsoft® Virtual Server.
- Integrated Lights-Out 2 (iLO 2) enables administrators to manage the DL580 G5 Server from remote locations.
- Not ready for a rack environment? The DL580 G5 Server now offers a rack-to-tower conversion kit.

#### Benefits of the HP DL580 G5 Server

##### More performance and expansion

- The DL580 G5 Server supports the latest quad-core Intel Xeon 7300 processors for maximum scalability.
- With eight standard PCI Express slots and the ability to add three additional PCI Express or PCI-X slots, the DL580 G5 Server provides plenty of bandwidth and flexibility for expansion.

- 32 DIMM sockets allow for up to 128 GB of PC2-5300 fully-buffered DIMMs (DDR2-667).
- Up to 16 SFF SAS/SATA hot plug drives for a total of up to 2.336 TB of internal storage.
- The DL580 G5 Server is packed with standard features that enhance performance, including dual-integrated Gigabit NICs and an HP Smart Array P400i controller with up to 512 MB battery-backed write cache.

## HP Services

HP Services offers a comprehensive range of services to help design, deploy, manage and support your IT environment and business processes. Our 69,000 skilled professionals and network of service partners deliver global services capabilities across the IT lifecycle, including consulting, integration, outsourcing and support.

#### HP Care Pack services

Cost-effectively upgrade or extend your standard warranty with easy-to-buy, easy-to-use support packages. HP Care Pack services reduce downtime risks with support levels that range from basic to mission-critical. They are available for purchase along with your ProLiant DL580 G5 Server.

Recommended service offerings:

- **Enhanced Care** options provide a baseline service level to achieve optimum server availability.  
*ProLiant DL580 G5 Server—3-year, 24x7, same-business-day, 4-hour onsite response hardware support*
- **Continuous Care** options deliver a recommended support level with committed same-day response or fix times.  
*ProLiant DL580 G5 Server—3-year, same-business-day, 6-hour call-to-repair onsite response hardware support*
- **Total Care** service options are designed to provide round-the-clock response and complex problem resolution through integrated hardware and software support.  
*ProLiant DL580 G5 Server—3-year, 24x7, Support Plus 24*
- **Deployment Services** include HP Installation and Startup services designed to take the time, risk and worry out of the deployment of ProLiant servers.  
*Installation and startup of a ProLiant DL580 G5 Server and Microsoft or Linux operating system*

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).

## HP ProLiant DL580 Generation 5 Server



<b>Number of processors</b>	1-4
<b>Maximum number of cores</b>	16
<b>Processors supported</b>	Quad-Core Intel® Xeon® Processors: X7350: 2.93 GHz 2x4M, 80W, 1066 MHz Front Side Bus (FSB) E7340: 2.4 GHz 2x4M, 80W, 1066 MHz FSB E7330: 2.4 GHz 2x3M, 80W, 1066 MHz FSB E7320: 2.13 GHz 2x2M, 80W, 1066 MHz FSB E7310: 1.6 GHz 2x2M, 80W, 1066 MHz FSB L7345: 1.86 GHz 2x4M, 50W, 1066 MHz FSB  Dual-Core Intel Xeon Processors: E7220: 2.93 GHz 2x4M, 80W, 1066 MHz FSB
<b>Cache</b>	Up to 8 MB (4x2) L2
<b>Maximum memory</b>	128 GB with 32 x 4 GB DIMMs
<b>Memory type</b>	PC2-5300 fully-buffered DIMMs (DDR2-667)
<b>Memory protection</b>	Mirrored, Online Spare, Advanced ECC
<b>Drives supported</b>	Up to 16: Hot plug SFF Serial Attached SCSI (SAS) 10K 36/72/146 GB Hot plug SFF Serial Attached SCSI (SAS) 15K 36/72 GB Hot plug SFF Serial ATA (SATA) 60/120 GB
<b>Maximum internal storage</b>	2.336 TB
<b>Removable media bays</b>	2 bays: 1 Slimline and 1 half-height
<b>Storage controller</b>	HP Smart Array P400i SAS/SATA Controller embedded
<b>Form factor</b>	4U dense rack
<b>Networking</b>	Dual NC371i Multifunction Gigabit Server Adapters embedded
<b>Remote management</b>	Integrated Lights-Out 2 (iLO 2)
<b>Redundant power supply and fans</b>	Fans standard, redundant power supplies optional
<b>Warranty (parts/labor/on-site)</b>	3-year/3-year/3-year

For additional technical specifications, please visit the ProLiant DL580 G5 server QuickSpecs at [http://h18000.www1.hp.com/products/quickspecs/12770\\_div/12770\\_div.PDF](http://h18000.www1.hp.com/products/quickspecs/12770_div/12770_div.PDF).

### Ease of serviceability and management

- Tool-less maintenance allows service access to external and internal hot plug components without sacrificing internal expansion capacity.
- Up to 128 GB of memory, two media bays, eight standard PCI slots (expandable with optional card for a total of 11 PCI slots) and up to 16 internal hard disk drives provide the flexibility required to deploy and redeploy in a variety of application environments.
- Ejectable Slimline DVD drive and removable half-height tape drives accessible from the front, as well as multiple USB ports (two front, two back and two internal) increases media options, including the ability to boot from a USB key.
- Snap-on rail kits and cable-less design built specifically for the 4U form factor allow for hassle-free rack deployments in tapped or square hole racks.

- Front slide-out System Insight Display provides instant visual indication of fault conditions within all major subsystems of the server, allowing rapid response to service events and resulting in major reductions in system downtime and IT service and maintenance costs.

### Simplify ownership

- Built-in Integrated Lights-Out 2 (iLO 2) Standard combines secure, basic remote management functions and diagnostics with essential virtual presence and control to manage ProLiant systems across the data center or across the world. Easily upgrade to iLO 2 Advanced for more robust, hardware-based remote administration to maximize availability and graphical control over your DL580 G5 Server.
- HP ProLiant Essentials Foundation Pack software, shipped with every HP ProLiant server, enables you to quickly install and configure systems, proactively manage change, and effectively facilitate continuous server operations.

# HP offers a variety of Care Pack installation, startup and support options for both hardware and software to help you get your HP ProLiant server up and running quickly, with minimal business disruption.

- HP SmartStart software configures hardware, loads optimized drives, and assists with software installation to achieve optimum reliability, performance and system uptime.
- HP SmartStart Scripting Toolkit radically simplifies high-volume server deployments by including replication utilities that create and copy configuration and script files.
- Expand your capabilities with new tools like the HP ProLiant Essentials Rapid Deployment Pack software, which automates the process of deploying and provisioning your unique server software configurations.

## Financial services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage and ultimately retire their HP solutions. For more information on these services, please contact your local HP representative or visit [www.hp.com/go/hpfinancialservices](http://www.hp.com/go/hpfinancialservices).

## For more information

For more information about the HP ProLiant DL580 G5 Server, contact your local HP representative, or visit [www.hp.com/servers/proliantdl580](http://www.hp.com/servers/proliantdl580).

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To learn more, visit [www.hp.com/servers/proliantdl580](http://www.hp.com/servers/proliantdl580)

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