



HP ProLiant DL180 G6 Server

Data sheet

Combining storage density, expandability, and energy efficiency, the new HP ProLiant DL180 G6 Server gives you an extremely flexible computing platform with powerful compute technology and ample I/O and storage.

With the HP ProLiant DL180 G6 Server, you will find a cost-effective, general-purpose rack server that effectively meets the needs of growing businesses and corporate scale-out. The HP ProLiant DL180 G6 Server is a powerful dual-processor capable server that delivers power efficiency and essential features for 32-bit and 64-bit applications. Developed to address the needs of small and medium enterprises, the ProLiant DL180 G6 Server offers the efficiencies of a rack server while maintaining the economics of a tower server.

The ProLiant DL180 G6 Server has an array of new features and innovations that set it apart from previous generations and the competition. The ProLiant DL180 G6 Server features the latest Intel® Xeon® processors, an increased DIMM slot count, small form factor (SFF) drives, a 28 TB internal storage capacity, and efficient memory and power supplies.

The ProLiant DL180 G6 Server is a flexible, space-saving solution combining the benefits of a compute node with those of a storage server. Moreover, with improved features providing enhanced reliability, simplified maintenance, and lower total cost of ownership (TCO), it can help you handle complex business requirements with ease.

Key features and benefits

High performance

The ProLiant DL180 G6 Server gives you the performance advantages of a dual- and quad-core architecture along with the following new features:

- Up to two quad-core or six-core Intel Xeon 5500 and 5600 series processors give you the compute power you need for heavy workloads.

- Up to 192 GB of PC3-8500 (1066 MHz) DDR3 memory allows you to benefit from fast speeds and increased bandwidth.
- Four internal PCI Express slots (3x8 full-length/full-height and 1x16 low-profile/half-height) provide flexible connectivity options.
- Up to 28 TB of internal storage provides the capacity you need.
- Support for up to 14 large form factor (LFF) or 25 small form factor (SFF) drives gives you the flexibility of choice.
- HP Smart Array support facilitates increased I/O performance and optional RAID 5 data protection.

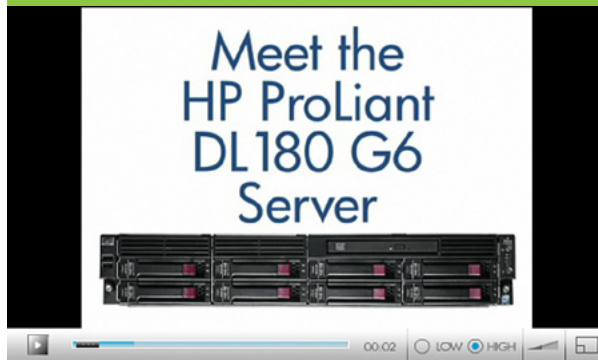
Simplified management and deployment

The ProLiant DL180 G6 Server has added capabilities that reduce unplanned downtime as well as setup and update time. In addition, it delivers standards-based control from any location, anytime. Key highlights include:

- HP ProLiant Onboard Administrator powered by HP Lights-Out 100i (LO100i) enables standards-based, remote management.
- Intelligent Platform Management Interface (IPMI) 2.0 standard and Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP) allow you to standardize commands for remote management.
- LO100i Advanced (available with license-activated keys) provides virtual KVM and virtual media support.



Watch the HP product marketing manager demo the HP ProLiant DL180 G6 Server



- The addition of the Easy Setup CD facilitates rapid and simplified deployment with the SmartStart Scripting Toolkit (SSSTK), HP Smart Update Manager (HP SUM), and Smart Components.
- SNMP agents provide HP Systems Insight Manager (SIM) management (health and performance monitoring, alerting, and system control), which helps reduce unplanned downtime.

In addition, the ProLiant DL180 G6 Server supports HP Insight Control suite for Linux (ICE-Linux), which enables comprehensive monitoring and management of Linux-based ProLiant server platforms.

Right-sized solution

The ProLiant DL180 G6 Server provides expandable performance and is designed to enhance processing throughput and dependability at a low cost.

Options include:

- Choice of the latest quad-core Intel Xeon processors provides the processing power to run multiple tasks and applications simultaneously.
- PC3-10600 DDR3 registered or unregistered DIMMs provide cost and power flexibility at a component level.
- PCI riser options give you the ability to replace two x8 slots with one x16 slot.
- Four-drive LFF models can be expanded with an eight-drive option kit.

Ease of ownership

The HP ProLiant DL180 G6 Server delivers performance and value with these features:

- Optional high-efficiency power supplies and low-voltage CPUs help achieve lower total cost of ownership.
- Industry-standard management tools from your choice of leading operating system vendors make the ProLiant DL180 G6 Server easy to set up, maintain, and troubleshoot.
- “Tool-less” rail kits save time during rack installation.
- Dense 2U rack design and efficient power supply choices facilitate increased use of server rack and data center space.

- Rack-optimized 2U form factor allows fast deployment and efficient maintenance of large-scale cluster solutions.
- Easy-access chassis and internal component labels enable fast and simple maintenance and expansion.

Enhanced reliability

- Embedded HP NC362i Integrated Dual Port 1 Gb NIC features load-balancing, failover, and sideband support—reducing network latency.
- Support for up to two redundant hot-plug power supplies helps keep environments up and running.
- Internal USB option provides additional connectivity and security.
- Trusted Platform Module (TPM) option facilitates enhanced data protection.

Energy-efficiency leadership

The ProLiant DL180 G6 Server comes with new features and components that reduce power consumption without affecting performance. This is ideal for energy-conscious customers. With a family of high-efficiency power supplies, you can lower your power consumption and help make sure that you do not oversubscribe your power requirements. With the ProLiant DL180 G6 Server, you can:

- Reclaim lost data center power with right-sized ProLiant power supplies that enable you to meet your exact needs
- Choose from 460 W or 750 W power supplies that are up to 94 percent efficient
- Benefit from common power slots that significantly reduce the spares needed
- Rely on efficient choices at the component level—power supplies, low-power processors and memory, and voltage regulators—to conserve energy

[Click here to view the demo and get an overview of the HP ProLiant DL180 G6 Server](#)



Dependability and support

Thriving businesses know that properly deployed and supported technology can offer a competitive advantage. So when it comes to expert, dependable support, HP can help you in more ways than one.

- A global server support network assists you with setup and installation, and provides reliable after-sales support when you need it from a single point of contact.
- A broad range of preconfigured, factory-integrated, and tested cluster packages are ideal for midrange technical computing.

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Processor and memory	
Processor type	Intel Xeon 5500 and 5600 series processors
Available processors	Six-Core Intel Xeon Processor X5675 (3.06 GHz, 95 W) Six-Core Intel Xeon Processor X5670 (2.93 GHz, 95 W) Six-Core Intel Xeon Processor X5650 (2.66 GHz, 95 W) Six-Core Intel Xeon Processor X5660 (2.80 GHz, 95 W) Six-Core Intel Xeon Processor E5649 (2.53 GHz, 80 W) Six-Core Intel Xeon Processor E5645 (2.4 GHz, 12 MB L3 cache, 80 W) Six-Core Intel Xeon Processor L5640 (2.26 GHz, 60 W) Quad-Core Intel Xeon Processor E5640 (3.2 GHz, 95 W) Quad-Core Intel Xeon Processor E5640 (2.66 GHz, 80 W) Quad-Core Intel Xeon Processor E5630 (2.53 GHz, 80 W) Quad-Core Intel Xeon Processor E5620 (2.40 GHz, 80 W) Quad-Core Intel Xeon Processor L5630 (2.13 GHz, 40 W) Quad-Core Intel Xeon Processor E5540 (2.53 GHz, 80 W) Quad-Core Intel Xeon Processor E5520 (2.26 GHz, 80 W) Quad-Core Intel Xeon Processor E5606 (2.13 GHz, 80 W) Quad-Core Intel Xeon Processor E5603 (1.6 GHz, 80 W) Quad-Core Intel Xeon Processor E5506 (2.13 GHz, 80 W) Quad-Core Intel Xeon Processor E5504 (2.00 GHz, 80 W) Quad-Core Intel Xeon Processor L5630 (2.13 GHz, 40 W) Quad-Core Intel Xeon Processor L5520 (2.26 GHz, 60 W) Dual-Core Intel Xeon Processor E5503 (2.0 GHz, DC)
Processor core	6, 4, or 2
Processor cache	12 MB, 8 MB, or 4 MB Level 3 cache
Max processor speed	3.2 GHz
Multiprocessor	2
Maximum front-side bus speed	1333 MHz
Memory type	PC3L 10600R-9 DDR3 PC3-10600E DDR3-1067 PC3-8500 DDR3-1066
Standard memory	4 GB, 8 GB, or 16 GB depending on model
Max memory	192 GB using 16 GB DIMMs
Memory slots	12 DIMM
Advanced memory protection	Advanced ECC
Storage type	Hot-plug 3.5 in. SAS Hot-plug 3.5 in. SATA Hot-plug 2.5 in. SAS Hot-plug 2.5 in. SATA Hot-plug SATA Midline SSD
Max number of hard drives	25 Note: Up to 14 hot-plug LFF SAS 7.2K rpm 2 TB and 15K 1 TB and 300/147/72 GB Up to 14 hot-plug LFF SATA 7.2K rpm 1 TB and 750/500/250/160 GB Up to 25 hot-plug SFF SAS 15K rpm 146/72 GB, 10K rpm 600/300/146, 7.2K rpm 500 GB Up to 25 hot-plug SFF SATA 7.2K rpm 500/160 GB
Removable media bays	1
Expansion slot	4 total; 3 or 4 available depending on model
Storage controller	HP Smart Array P212, HP Smart Array P410, or HP Smart Array B110i SATA RAID Controller on standard models; optional Smart Array controllers
Deployment	
Form factor	Rack
Rack height	2U
Networking	Embedded HP NC362i Integrated Dual Port Gigabit Server Adapter
Infrastructure management	HP ProLiant Onboard Administrator powered by LO100i
Redundant power supply	1 built-in power supply (optional redundant power supply)
Redundant fans	Optional
Warranty	3-year parts

Ideal environment

The HP ProLiant DL180 G6 Server provides ultimate flexibility and capacity for small and midsize businesses as well as scale-out computing.

Small and midsize businesses

- Performance in a cost-effective solution can meet small and midsize business budget needs.
- Quad-core Intel Xeon processors and DDR3 memory options allow for fast throughput on most applications.

Network service providers

- Large-capacity and low-cost drive options make the ProLiant DL180 G6 Server ideal for gaming, mail, and messaging; Web search; 1 GB mailboxes; video storage and streaming; file/print; and photo applications.
- Rack-optimized, 2U form factor enables fast deployment and efficient maintenance of large-scale cluster solutions.

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 on these services, contact your local HP representative, or visit: www.hp.com/go/hpfinancialservices

HP Factory Express

HP Factory Express is designed to help you get a better return from your IT investment by providing customization, integration, and deployment services along with your storage and server purchases.

It provides predictable, trusted, and tested IT solutions tailored to your business needs. We allow you to customize hardware to your exact specifications in the factory—helping to speed up deployment and free up internal resources. To know more about HP Factory Express, Visit: www.hp.com/go/factoryexpress

Customer technical training

Consider education as an integral part of your strategy to get the best return on investment for your HP storage solution. HP offers a variety of training courses on storage software, networking, archiving, and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led courses at one of our 80 training centers worldwide to online and/or onsite training customized to your needs. To know more, visit: www.hp.com/learn/storage

HP Services

HP Technology Services—consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, no matter what.

Boost availability and avoid downtime; trust our expertise to enhance your HP solution.

Recommended services

3-year, 13x5, same-business-day, 4-hour onsite response coverage

HP Hardware Support Onsite Service provides high-quality remote assistance and a predictable onsite support service level for your covered hardware, helping you to improve server and application uptime. Service is available during the coverage window.

Deployment services

HP hardware-only installation service provides for the installation of HP branded servers. It is part of a suite of HP deployment services that is designed to give you the peace of mind of knowing your products have been installed by an HP specialist.

Related services

3-year, 24x7, same-business-day, 4-hour onsite response coverage

HP 24x7 Hardware Support Onsite Service delivers round the clock, fast reliable 4-hour response onsite support. Get product expertise from the manufacturer for fast and accurate problem resolution with integrated high-quality remote monitoring.

Proactive Select

Is a flexible way to purchase HP first-rate consultancy and services. You can buy Proactive Select service credits when you purchase your hardware, and then use the credits over the next 12 months, or 3 to 5 years.

3-year, 9x5, next-business-day, onsite coverage, excluding holidays

Provides a low-cost hardware support option to uplift hardware warranty coverage. Service level delivers next-business-day support with a coverage window of 9 hours per day, between 8:00 a.m. and 5:00 p.m. local time, Monday through Friday.

Trust the services professionals at HP. For more information, contact your HP sales representative or HP authorized channel partner, or visit: <http://www.hp.com/hps>

To understand how the HP ProLiant DL180 G6 Server can be easily deployed to virtualize your environment and achieve greater power efficiency, visit: www.hp.com/servers/proliantdl180

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