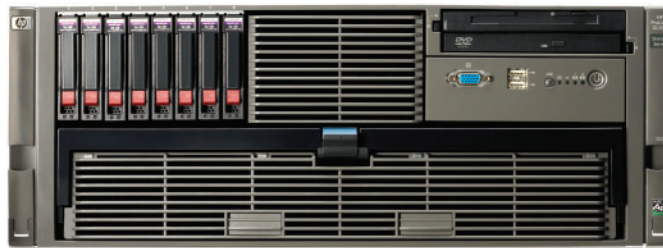
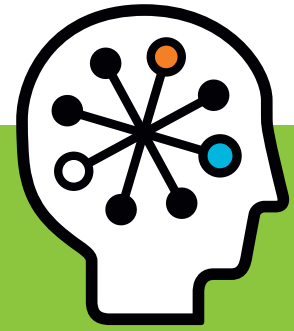




HP ProLiant DL585 G5 Server

Data sheet



The HP ProLiant DL585 Generation 5 (G5) is a highly manageable rack-optimized four socket server designed for the highest level of performance in an industry standard architecture. With up to four quad-core AMD Opteron processors and a large memory footprint, the DL585 G5 delivers the performance and performance-per-watt needed for compute-hungry database, virtualization, and consolidation applications. Its remote management functions help reduce costs and improve the ability to respond quickly to business changes.

The DL585 G5 adds quad-core AMD Opteron processors and support for Dual Dynamic Power Management to the award-winning feature set of the DL585 G2. In addition, new ROM and firmware based management features are included.

Ideal environments

Enhance your performance and expansion with HP ProLiant DL585 G5 Server to handle your challenging applications. The high-performance HP ProLiant DL585 G5 Server is ideal for:

Virtualization and consolidation

- The high performance and scalability of quad-core Opteron processors give the DL585 G5 the performance you need to deploy demanding applications

- Management features such as Integrated Lights-Out 2 and HP Systems Insight Manager let you remotely monitor and control your mission-critical applications
- The large 128 GB footprint (256 GB when 8 GB DIMMs become available) and 9 expansion slots provide the memory and I/O scalability you need to support multiple applications or virtual machines on a single physical server

Compute intensive applications

- The high performing quad-core AMD Opteron processors provide the highest level of x86 floating-point performance for compute-intensive applications
- The large memory capacity provides an ideal platform for Electronic Design Automation (EDA), financial, and petrochemical applications that demand lots of memory

Database and transaction

- The rack-optimized 4U chassis is ideal for enterprise class database, ERM, CRM, and messaging applications
- Adherence to industry standards, and broad interoperability with operating systems, applications, and storage mean the DL585 G5 can meet your environment's requirements

The high-performance HP ProLiant DL585 G5 Server offers tremendous scalability and quad-core processing power coupled with advanced remote management capabilities to provide a reliable and power efficient platform, ideal for resource-hungry consolidation, and virtualization projects.

Key benefits

Outstanding performance and reliability

Outstanding 32-bit and 64-bit performance and reliability support the most demanding, compute-intensive application, and virtualization environments.

- Quad Core 8300 series AMD Opteron™ Processors
- 32 DIMM sockets allowing up to 128 GB of PC2-5300 DDR2 (256 GB when 8 GB DIMMs become available)
- Smart Array P400 standard, with either 256 MB cache or 512 MB battery-backed write cache (depending on the configuration you choose)
- Up to 8 SFF SAS/SATA hot-plug drives for a total of up to 1.168 TB of internal storage
- Dual embedded NC371i Multifunction Gigabit Server Adapters with TOE and iSCSI support
- Nine I/O slots: 3 PCI-Express (x8), 4 PCI-Express (x4), 2 PCI-X (100MHz)
- HyperTransport™ interconnect links between processors and the I/O subsystem, scaling up to 8.0 GB/second of bandwidth per connection
- AMD Dual Dynamic Power Management technology that reduces power consumed while maintaining maximum performance
- Hot-plug redundant hard drives, fans and power supplies, and redundant ROM support
- System Insight Display and UID including system health, which help reduce time spent troubleshooting and maintaining the server

Improved management solutions

Outstanding server infrastructures are built with ProLiant servers and HP Infrastructure Management—software that gives you total control, greater flexibility, and tangible savings from your ProLiant investment.

- Integrated Lights-Out 2 (iLO 2) allows powerful, hardware-based remote administration, and control from a standard Web-browser to conserve valuable IT staff resources
- Install faster using Rapid Deployment Pack, optional Server Migration Pack, and optional Virtual Machine Management Pack
- Simplified installation with HP SmartStart and the ROM-Based Setup Utility (RBSU)
- HP Systems Insight Manager, which provides a unified, advanced, and extensible environment to centrally manage servers, storage, and other infrastructure devices across multiple operating systems
- The option to move up to Insight Control Environment, time-smart management software that delivers total control, greater flexibility, and tangible savings for your ProLiant server environment
- Integrated Lights-Out Advanced Pack, which upgrades iLO 2 with a graphical remote console, enhanced console sharing and session replay, virtual media (floppy, CD/DVD, USB key), and virtual folders, and enterprise security (directory services and two-factor authentication)

HP ProLiant DL585 G5



Processor and Memory

Processor Type	AMD Opteron 8300 Series
Available Processor	Quad-Core AMD Opteron Model 8354 (2.2 GHz)
Processor Cache	512 KB L2 Cache per Core 2 MB Shared L3 Cache
Max Processor Speed	2.2 GHz
Number of Processors	2 or 4
Max Front Side Bus Speed	N/A
Memory Type	PC2-5300 Registered DDR
Standard Memory	4 GB, 8 GB, or 16 GB PC2-5300 Registered DDR
Max Memory	128 MB (256 GB when 8 GB DIMMs become available)
Advanced Memory Protection	Advanced ECC

Storage

Storage Type	Hot Plug SFF SAS Hot Plug SFF SATA
Hard Drives Supported	Up to 8
Max Internal Storage	1.168 TB
Max Internal Drives	8
Removable Media Bays	2 slimline
Expansion Slots	9 total : (3 PCI-Express x8, 4 PCI-Express x4, 2 PCI-X)
Storage Controller	Smart Array P400
Networking	Two embedded Multifunction NC371i Gigabit Network Adapters with TCP/IP Offload Engine
Remote Management	Integrated Lights-Out 2 (iLO 2)

Deployment

Form Factor	Rack
Rack Height	4U
Dimensions (H x W x D)	6.94 x 19 x 26.5 in (17.6 x 48.3 x 67.3 cm)
Redundant Fans	Standard
Power Supplies	Optional 1+1 Redundant Hot Plug Power Supplies; Low Line (90 – 132VAC) or High Line (180 – 264VAC)
Warranty—years(s) (parts/labor/onsite)	3/3/3

Flexibility for a variety of enterprise deployments

Adherence to industry standards, broad support for software and hardware options, and key certifications mean the DL585 G5 can support your application's needs.

- Designed to fit into existing enterprise data centers, with support for full line of HP Smart Array controllers, NICs, and storage options
- Support for the industry's most popular operating systems, including Microsoft Windows Server 2003, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Sun Solaris, and VMWare
- Tool-free quick deploy sliding rails, cable management, and in-rack server access for both HP and third-party racks

Greater performance per Watt

System and processor technologies that deliver industry-leading performance per watt in a 4-processor x86 server.

- AMD Opteron Processors require less power to run and less power to cool
- HP Power Regulator built into BIOS allows server to be throttled up and down depending on utilization
- Independent Dynamic Core Technology™ and AMD CoolCore™ Technology reduce the power used by controlling the power used by each processor subsystem
- Small Form Factor hard drives use up to 50% less power than large form factor drives

Warranty and included 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 deliver continuous cares

Cost-effectively upgrade or extend your standard warrant with easy-to-buy, easy-to-use support packages.

They reduce downtime risks with support levels that range from basic to mission-critical.

Recommended service offerings:

- Enhanced care options provide a baseline service level to achieve optimum server availability.
- Continuous Care options deliver a recommended support level with committed same day response or fix times.
- Total Care options are designed to provide round-the-clock response and complex problem resolution through round-the-clock hardware support.

Deployment Services include HP Hardware Installation services designed to take the time, risk, and worry out of the deployment of ProLiant servers.

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 our factory-directed capabilities speed product implementation, delivering plug-and-play solutions that are completely integrated, tested, and shipped in as fully configured rack. Service includes pre-delivery site review, factory installation and configuration, onsite installation, and product orientation for your staff. For more information on these services, visit www.hp.com/go/factoryexpress

For more information

For more information about the HP ProLiant DL585 G5 Server, visit www.hp.com/servers/dl585

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To learn more, visit www.hp.com/servers/dl585

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Technology for better business outcomes

