HP ProLiant DL585 G2 Server

Data sheet

Do more in your data center with the new HP ProLiant DL585 G2 Server, offering the new dual-core AMD Opteron™ processors. The ProLiant DL585 G2 has best-in-class management and outstanding uptime features in a system that is ideal for data centers of all sizes.

The ProLiant DL585 G2, the leading price/performance x86 4-socket server in the industry, enables most applications to run faster or support more users than other systems and has been fine-tuned for virtualization.

Ideal applications

Medium to large corporate data center customers

- The combination of leading 32-bit performance, 64-bit support, ProLiant management tools, demanding uptime features and dual-core technology have resulted in a system ideal for corporate customers looking for a leading 4-socket platform with exceptional scalability.

- Great for server consolidation, large database applications, ERP, CRM, mail and messaging and business integration applications.

High Performance Computing (HPC)

- With a large memory footprint of 128 GB and 64-bit software capability, the ProLiant DL585 G2 is revolutionizing the technical performance capabilities of an industry-standard server.

- Ideal for high performance clusters, petrochemical, life sciences, material sciences and video rendering.

Key benefits

Outstanding performance

Best in class 4-socket 32-bit performance with 64-bit capability supports the most complex, compute-intensive application environments

- AMD Opteron™ Model 8220SE (2.8 GHz/1 MB/dual-core), Model 8218 (2.6 GHz/1 MB/dual-core), Model 8216 (2.4 GHz/1 MB/dual-core), Model 8214 (2.2 GHz/1 MB/dual-core), Model 8212 (2.0 GHz/1 MB/dual-core)

- Up to 128 GB of dual channel PC2-5300 DDR2 running at 533 MHz or 64 GB at 667 MHz

- Smart Array P400 controller, with 256 MB memory and optional 512 MB battery-backed write cache

- Dual NC371i Multi-function Gigabit Server Adaptors (Embedded) with TOE and support for iSCSI and RDMA

- AMD Virtualization technology enhances virtualization performance

- 9 I/O slots: 3 x8 PCI-Express, 4 x 4 PCI-Express, 2 PCI-X (100MHz)

- HyperTransport (processor interconnect) runs at 1 GHz with 8.0 GB of bandwidth

- On-die memory controller which runs at processor core frequency

Deployment versatility for a variety of 4-socket applications

Strong levels of deployment flexibility for a variety of enterprise deployments
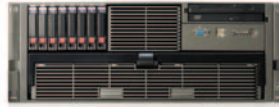
- 32-bit and 64-bit computing capability through AMD Opteron™ architecture

- Designed to be directly upgradeable to AMD Opteron quad-core processors (when available)

- Support for 8 hot plug SFF SAS or SATA hard drives

- Pluggable DVD/CD-ROM standard, with options for floppy drive and DVD-ROM

- 9 expansion slots: 3 x8 PCI-Express, 4 x 4 PCI-Express, 2 PCI-X (100MHz)

- Support for full line of HP Smart Array controllers, NICs, and storage options

- Tool-free deployment in HP and third party racks

HP ProLiant reliability, management and support

HP ProLiant reliability, management and support for enterprise-class server deployments

- Tool-free quick deploy sliding rails, cable management and in-rack server access

- Hot-plug redundant hard drives, fans and power supplies

- Two media bays

- Redundant ROM support

- Integrated Lights-Out 2 (iLO 2)

- Smart Array Controller support

- Status LEDs including system health and UID

- Support for SmartStart, HP Systems Insight Manager and P to ProLiant

- System Insight Display

Technical specifications

Available processors	Dual-Core AMD Opteron™ processors Model 8220SE, 2.8 GHz/1 MB Model 8218, 2.6 GHz/1 MB Model 8216, 2.4 GHz/1 MB Model 8214, 2.2 GHz/1 MB Model 8212, 2.0 GHz/1 MB
RAM standard/maximum	Standard: 2 GB (4 x 512 MB), 4 GB (4 x 1GB), 8 GB (8 x 1GB) Maximum: 128 GB
RAM type/speed	Up to 128GB of PC2-5300 DDR2 running at 533MHz or 64GB at 667 MHz
Hard drive capacity	8 SFF Hot-plug 2.5" Serial Attached SCSI (SAS) or Hot-plug Serial ATA (SATA)
Hard drive controller	Integrated Smart Array P400 controller
Memory protection	Advanced ECC
Form factor	4U
Networking	Dual NC371i Multi-function Gigabit Server Adaptors (Embedded) with TOE and support for iSCSI and RDMA
Operating systems supported	Microsoft® Windows® Server 2003 Standard and Enterprise, Linux® (Red Hat, SUSE)
Expansion slots	9 total, 8 available: 3 x8 PCI-Express, 3 x 4 PCI-Express, 2 PCI-X (100MHz)

Technology services

HP Technology Services provides a range of services to customers with many IT demands. For more information, contact your HP representative or visit **www.hp.com/hps/support**.

Financial services

HP Financial Services provides financing and financial asset management programs. For more information, contact your HP sales representative or visit **www.hp.com/go/hpfinancialservices**.

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 deliver continuous care
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. HP Care Pack Services are available for purchase along with your ProLiant DL585 G2 server.

Recommended service offerings:

• **Extended Care** options provide a baseline service level to achieve optimum server availability.

  HP DL585 G2 server-3-year, 24x7, same-business-day, 4-hour onsite response hardware support

• **Continuous Care o**ptions deliver a recommended support level with committed same day response or fix times.

  HP DL585 G2 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.

  HP DL585 G2 server-3-year, 24x7, Support Plus 24

• **Deployment Services** include HP Installation and Start-Up services designed to take the time, risk, and worry out of the deployment of ProLiant servers.

  HP DL585 G2 server-Installation and startup of a ProLiant DL 585 G2 server and Microsoft or Linux operating system

For more information visit:
www.hp.com/services/proliantservices
www.hp.com/go/proliant/carepac

For more information about the HP ProLiant DL585 G2 Server, visit
www.hp.com/servers/dl585