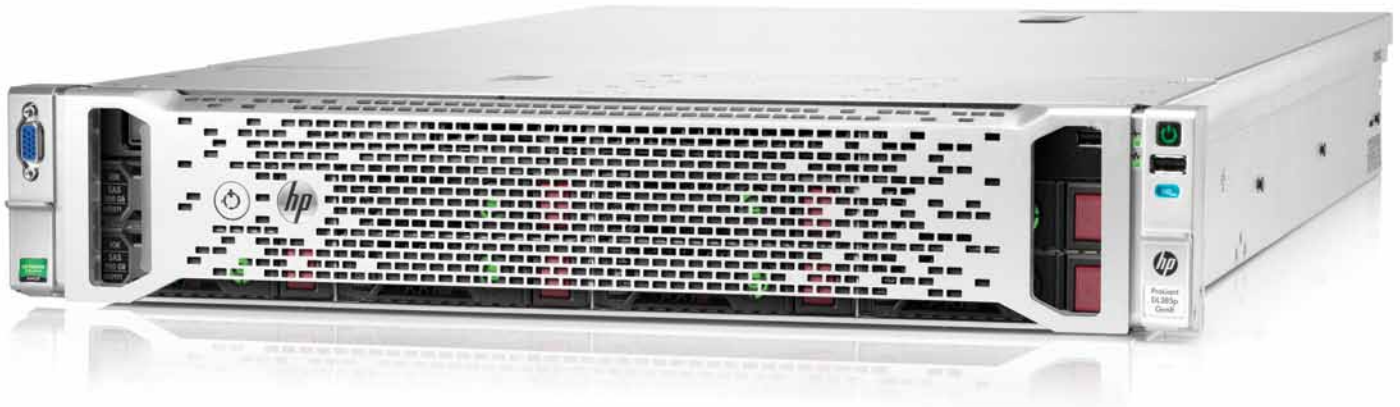# HP ProLiant DL385p Generation 8 Server

Performance and flexibility that mean business

The cloud era is driving an insatiable demand for applications, data, and digital content. IT organizations, regardless of their immersion in cloud technologies, need to plan for virtualization, database, and high-performance workloads while ensuring the fastest possible ROI. They need to invest in technology that will help them adapt to changing environments, offer configuration flexibility, reduce downtime, and future-proof their infrastructure.

The all-new HP ProLiant DL385p Gen8 is specifically designed to meet these new and emerging realities, whether for small and medium-sized businesses or large enterprise data centers. Now available with the AMD Opteron™ 6200 Series processor, the DL385p Gen8 delivers a major boost in price/performance. The DL385p Gen8 offers extreme configuration flexibility, while delivering extraordinary compute power, and market-leading efficiency. It is ideal for customers across a broad range of computing environments, including customers with virtualization, database, and high performance computing workloads.

The HP ProLiant DL385p Gen8 server is purpose-built to:

- **Redefine the customer experience** through user-inspired design features, lifecycle automation, and workload optimization
- **Deliver peace of mind** with enhanced reliability, quick serviceability, and industry-leading manageability
- **Deliver performance and efficiency** for a leading return on investment
- **Enhance configuration flexibility** to future-proof your infrastructure

What's new

The HP ProLiant DL385p Gen8 Server is built to protect your investment and extend server life with reliability, accessibility, and serviceability features designed in. New features include:

- Up to two AMD Opteron 6200 Series Processors: provides greater performance for high performance computing and 2x the cores for more virtual machines per box for better virtualization.

- 50% more memory capacity over the previous generation: larger 32 GB DIMMs and improved performance with up to 1,600 MHz memory speeds.

- More I/O throughput: up to six available PCI-Express expansion slots with risers supporting x16, x8, and x4 solutions.

- New HP Smart Array P420i (with FBWC): combines with the new HP SmartDrive carrier design to offer intuitive status conditions, better protection, improved performance, capacity, manageability, and reduced downtime.

- New HP iLO Management Engine (iLO 4): provides a lifecycle approach to managing your server, from initial deployment, to daily management, service alerting, and remote support.

- HP FlexibleLOM technologies: offer you a choice in networking with 1 or 10 Gbit NICs, CNA, SFP+, FCoE or InfiniBand, at purchase or in the future.

- Improved serviceability: redesigned baffle, fan cage, cabling solution, and riser assembly.

Key features and benefits

Redefining the customer experience

- User-inspired design features that anticipate your needs and virtually eliminate common issues that result in downtime. HP SmartDrive carriers, "Snap and Go" rails, and easy tool-less access to all customer-serviceable components enhance user experience.

- Integrated Lifecycle Automation, an industry first, provides intelligent, embedded provisioning tools.

- The HP Active Health System provides 24x7 continuous health monitoring, 100% configuration change logging, and faster problem analysis and resolution with HP Service and Support. Start problem analysis 5x faster using unified diagnostic tools with secure data transfer to HP Service and Support.

- Dynamic Workload Acceleration delivers smarter data protection for rapidly increasing drive capacities. Real-time workload-aware analysis optimizes and adapts storage performance and provides 6x faster solid state performance versus previous generation.

Flexible, configurable design for return on investment

- Unmatched performance, quality, and manageability with HP SmartMemory, support for RDIMM and LRDIMM with up to 768 GB total capacity.

- Increased storage capacity, performance, and protection with the new embedded Smart Array P420i RAID controller, with up to 2 GB of HP Flash Backed Write Cache. HP SmartDrives and the enhanced flexibility of multiple drive cage offerings (8, 8+8, and 25 SFF; or 8 LFF or 12 LFF cages) to meet your specific workload needs.

- HP FlexibleLOM allows you to customize server networking now while giving you the flexibility to meet future needs without having to overhaul hardware. Choose the bandwidth (1 G and 10 G) and fabric (Ethernet, FCoE, InfiniBand) that suit your needs. WOL support and a shared iLO port for ease of use.

Performance, efficiency, and easy access

- The AMD Opteron 6200 Series processor is the world's first and only 16-core 86x server processor with the highest core density. The result is incredible scalability for handling multi-threaded workloads such as cloud computing, virtualization, high performance computing and databases.

- Boost efficiency with the industry's first 3D array of temperature sensors that help precisely control server fans to direct cooling where it's needed most, reducing unnecessary fan power.

- High efficiency HP Common Slot Platinum Plus (94% efficiency) power supplies combined with automated power provisioning.

- ENERGY STAR® qualified server configurations demonstrate HP's ongoing commitment to helping customers conserve energy and save money.

- Easier assembly and access with universal tool-free sliding rails, quick release levers, and streamlined cabling solution.

HP ProLiant DL385p Gen8 Server specifications

Drive description	Choice between: • 8 SFF SAS/SATA/SSD • 16 SFF (8, +8) SAS/SATA/SSD • 25 SFF SAS/SATA/SSD • 8 LFF SAS/SATA • 12 LFF SAS/SATA
Supported drives	Smart Carrier Drives only • Hot plug SFF 2.5 inch SAS/SATA/SSD • Hot plug LFF 3.5 inch SAS/SATA
Processor cache	16 MB (2x8 MB) L3
Processor family	AMD Opteron 6200 series
Available processor	**16-core processors** • AMD Opteron 6284SE (2.7 GHz/16-core/16 MB/140 W TDP) processor • AMD Opteron 6282SE (2.6 GHz/16-core/16 MB/140 W TDP) processor • AMD Opteron 6278 (2.4 GHz/16-core/16 MB/115 W TDP) processor • AMD Opteron 6276 (2.3 GHz/16-core/16 MB/115 W TDP) processor • AMD Opteron 6274 (2.2 GHz/16-core/16 MB/115 W TDP) processor • AMD Opteron 6272 (2.1 GHz/16-core/16 MB/115 W TDP) processor • AMD Opteron 6262HE (1.6 GHz/16-core/16 MB/85 W TDP) processor **12-core processors** • AMD Opteron 6238 (2.6 GHz/12-core/16 MB/115 W TDP) processor • AMD Opteron 6234 2.4 GHz/12-core/16 MB/115 W TDP) processor **8-core processors** • AMD Opteron 6220 (3.0 GHz/8-core/16 MB/115 W TDP) processor • AMD Opteron 6212 (2.6 GHz/8-core/16 MB/115 W TDP) processor **Quad-core processors** • AMD Opteron 6204 (3.3 GHz/4-core/16 MB/115 W TDP) processor
Processor number	1 or 2
Processor core available	4, 8, 12, or 16
Processor speed	Up to 3.3 GHz
Memory slots	24 DIMM slots
Memory maximum	768 GB
Memory type	DDR3
Memory protection features	• Advanced ECC • Online spare
Network controller	HP FlexibleLOM (with 4x1 Gb and 2x10 Gb options)
Storage controllers	Smart Array P420i (with options for 512 MB, 1 G, and 2 G FBWC)
Expansion slots	**PCIe Rise #1** • Slot 1: 1 FL/FH X16 PCIe 2.0 • Slot 2: 1 HL/FH X8 PCIe 2.0 • Slot 3: 1 HL/FL X8 PCIe 2.0 **PCIe Riser #2 (requires 2nd processor)** • Slot 4: 1 FL/FH X16 PCIe 2.0 • Sot 5: 1 HL/FH X16 PCIe 2.0 • Slot 6: 1 HL/FH X8 PCIe 2.0
Remote management software	HP Integrated Lights-out Management Engine—iLO ME (standard)
Form factor chassis	Rack
System fans features	• 6 on all 2P/dual processor models; N+1 redundancy standard • 4 on all 1P/single processor models; N+1 redundancy standard
Power supply type	1-2 HP 460 W or 750 W CS Platinum Plus Hot Plug Power Supply (94% efficient)
Graphic card	Integrated Matrox G200 video standard
Full configuration form factor	2U
Warranty Standard Statement	Global Limited Warranty
Warranty (parts-labor-onsite)	3/3/3

For more information

To learn more about the HP ProLiant DL385 G7 Server, visit **hp.com/servers/dl385p-gen8**.

View the HP ProLiant DL385p QuickSpecs: **http://h18000.www1.hp.com/products/quickspecs/14329_div/14329_div.htm**

For information on HP Qualified Options, visit **hp.com/go/hpqo**.

Ideal environment

If your business operation plans on meeting the growing demand for applications, data, and digital content, then you'll want to future-proof your infrastructure while getting a quick return on investment. The HP ProLiant DL385p Gen8 offers unprecedented configuration flexibility to suit a wide range of customer sizes and compute environments, including virtualization, database, and high performance computing workloads. As part of the HP Generation 8 server line, the DL385p delivers unmatched performance/price, efficiency, and scalability.

HP Services

When technology works, business works.

When you buy HP ProLiant Options for your HP ProLiant servers, it is also good time to think about services.

Recommended HP Care Pack Services

• 3-Year HP 24x7 4-hour Response, Hardware Support Onsite Service; or
• 3-Year HP 24x7 4 hour Response, HP Collaborative Support
• HP ProLiant Server Hardware Installation Service

Related HP Care Pack Services

• 3-Year HP 24x7 4 hour Response, Proactive Care; or
• 3-Year HP 6-hour Onsite Call-to-Repair, HP Collaborative Support
• HP Proactive Select Service

All support services come with Insight Remote Support, providing 24x7 remote monitoring, proactive notifications, and problem resolution.

Coverage

For ProLiant servers, Care Pack Services provide cover for HP-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22 inch diagonal and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of UPS battery is not included; standard warranty terms and conditions apply.

For more information, visit:

hp.com/services/proliant

hp.com/services/bladesystem

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