

HP ProLiant DL585 Server

Data sheet



Today's business imperative

There was a time when the phrase "do more with less" represented a novel and interesting challenge—a call for greater efficiency, increased productivity, and reduced costs. It was new, it was exciting, and businesses that embraced the idea thrived.

Today, however, "do more with less" is a condition of survival in an exceptionally competitive business environment. And nowhere is the concept applied more fervently than in corporate IT departments, where CIOs are seeing their budgets trimmed and their staff numbers reduced—all while they're being asked to increase the quality of IT service they deliver.

At HP we understand the enormous challenge that "do more with less" presents, and we're working hard every day to develop products, services, and solutions that help you meet the challenge head-on. To that end, we are pleased to introduce the HP ProLiant DL585 Server—the first HP ProLiant four-way server featuring dual-core AMD Opteron™ processors.

The world's most trusted server— With a twist

Ideal for large data center deployments, the ProLiant DL585 Server features the same form factor, same system management tools, and many of the same features as our well-established x86 Intel® processor-based ProLiant servers, as well as AMD Opteron™ 800 Series processors—a differentiator that has allowed this server to shatter performance benchmarks.

TPC-C

This online transaction processing (OLTP) benchmark simulates activities found in OLTP application environments with a large population of concurrent users. The ProLiant DL585 Server achieved industry-leading TPC-C results—taking the number 1 four-way x86 performance position, with 187,296 transactions per minute (tpmC) at US\$2.04.

The newest member of the ProLiant server family combines HP engineering and ProLiant management and setup tools with AMD Opteron™ technology, resulting in a server with leading performance, as well as support for 32-bit and 64-bit software.



MMB3

The MAPI Messaging Benchmark 3 (MMB3) measures the maximum throughput of a Microsoft® Exchange Server on a particular hardware configuration. With the MMB3 benchmark, the ProLiant DL585 Server achieved world-class scalability results of 10,200 MMB3, with an average CPU utilization rate of 85 percent. This continues to be the highest Microsoft Exchange 2003 four-way result in this performance category.

2-tier SAP SD

This benchmark measures the number of users a server can support in a 2-tier SAP R/3 Enterprise environment. The ProLiant DL585 Server achieved an outstanding level of performance, with 1,772 SAP SD Benchmark users supported, 534,000 dialog steps per hour processed, and 8,900 SAPS. CPU utilization was balanced across the processors at 98 percent on the database server, and the average dialog response time was 1.96 seconds.

Lotus NotesBench

In this benchmark, the R6Mail workload was run to simulate a single-system world-record 26,000 R6Mail users against a Lotus Domino 6.5.1 Server. The test ran 7.5 hours, during which time the system under test achieved 38,623 NotesMark tpm, with an average response time of 0.097 seconds.

For more information on these results, visit <http://h18004.www1.hp.com/products/servers/benchmarks/index.html>.

The server that helps you do more

Benchmarks alone can be impressive, but we all know that tangible business benefits are what truly count in the long run. So what do these ProLiant DL585 Server benchmark figures ultimately mean?

- **Running simulations faster:** The ProLiant DL585 Server allows users to perform larger, more complex simulations faster than ever for more in-depth analysis.
- **Processing online transactions faster:** Faster online transactions translate to increased customer satisfaction, increased sales, and an unimpeded revenue stream.
- **Meeting the requirements of large, complex business applications:** The ProLiant DL585 Server's processors allow it to meet the requirements of enterprise applications effortlessly.
- **Managing substantial messaging traffic with ease:** The more rapidly and easily employees are able to communicate with customers, partners, and one another, the more productive they can be on a daily basis.

Why HP ProLiant servers?

HP ProLiant servers deliver intelligent innovation, proven performance, and demonstrated value that you can bet your business on.

- **Trust:** More businesses trust HP ProLiant servers than any other server. More than 7 million ProLiant servers have been sold in the last 10 years, and ProLiant servers are the worldwide market share leader, with 32 percent of the market.
- **Innovation:** By committing to a course of practical innovation around industry-standard technologies, ProLiant servers consistently deliver features that improve effectiveness while enabling agility.
- **Choice:** HP ProLiant servers provide choices that fit the needs of your business. Our wide selection of platforms, tools, solutions, services, and delivery options give you outstanding control and flexibility to do business how and where you want.
- **Value:** HP ProLiant servers are a smarter investment. ProLiant technology and support help manage the cost of change, enable growth, and deliver end-to-end value every day—from initial purchase through the life of your product.

If you're looking for genuine solutions in the continuing struggle to do more with less, consider the HP ProLiant DL585 Server, featuring the AMD Opteron™ 800 Series processors. AMD Opteron™ processor performance advantages are substantial and real, and for the first time they're available as part of the ProLiant server line.

Support

HP ProLiant DL servers offer diverse application options for companies of varying sizes and needs. By adding installation and startup services for both hardware and software, HP customers can get their ProLiant DL-based solution up and running quickly, with minimal business disruption. To increase ROI, multivendor hardware support is offered on a 24 x 7 and 13 x 5 basis, with speedy remote problem diagnosis and resolution, plus on-site support.

Customers can enhance the performance and availability of software by utilizing HP software support services for HP ProLiant Essentials, Microsoft, VMware, major Linux distributions, and open source software such as JBoss and MySQL. HP Care Pack and subscription services offer customers the expertise of HP engineers for technical software support plus the flexibility of software updates and software licence management. HP fixed-price Care Pack services allow you to maximize server utilization and performance with fewer resources. HP offers several combined hardware and software services designed to support customers with resolution of more complex interoperability issues.

HP Education Services are available for ProLiant systems and related software, storage, and network solutions that enable customers' IT teams to quickly and efficiently gain the skills to implement DL server-based solutions.

Learn more at:

<http://h20219.www2.hp.com/services/cache/10768-0-0-225-121.aspx>

HP ProLiant DL585 Server

Technical specifications

Processors	Speed: 2.2, 2.4, and 2.6 GHz single core 1.8 and 2.2 GHz dual core Quantity: 2 or 4
Cache	1 MB L2
RAM standard/maximum	2 GB/64 GB (PC2700) or 4 GB/32 GB (PC3200)
RAM type/speed	PC2100 (266 MHz), PC2700 (333 MHz up to 48 GB and 266 MHz up to 64 GB) DDR SDRAM, or PC3200 (400 MHz up to 32 GB)
Hard drive capacity	Up to 4 Ultra320 10k or 15k RPM drives, from 36 GB-300 GB per drive
Hard drive controller	Smart Array 5i Plus with battery-backed write cache standard
Media bays	Floppy, CD-ROM, optional DVD-ROM
Memory protection	Advanced ECC
Form factor	4U
Expansion slots	8 PCI-X slots: (6) 100 MHz and (2) 133 MHz
Network controller	HP NC7782 Gigabit Ethernet Adapter with Wake on LAN
Interfaces	(2) USB, serial, keyboard, video, mouse, 2 10/100/1000 NIC and 1 iLO NIC
Operating systems supported	Windows® 2000 Windows Server 2003 Red Hat Linux® SUSE Linux
Availability	Hot-plug redundant fans and power supplies; redundant ROMs
Management	iLO, HP SmartStart Scripting Toolkit; HP Systems Insight Manager
Options	Hard drives, NICs, storage controllers, iLO Advanced Pack, incremental service and warranty options, additional memory

Environmental specifications

Altitude	Altitude derating of 1.8° F (1.0° C) per every 1,000 ft (300 m) above sea level to a maximum of 10,000 ft (3,000 m)
Temperature	Operating: 50° to 95° F (10° to 35° C) Nonoperating: -20° to 140° F (-29° to 60° C) Shipping: -22° to 122° F (-30° to 50° C)
Wet bulb temperature	101.7° F (38.7° C)
Humidity	Operating: 10% to 70% Nonoperating: 5% to 95%
Dimensions	6.94 x 19 x 26.5 in (17.6 x 48.3 x 67.3 cm)
Weight	66 lb (29.9 kg)
Power supply	Rated steady-state power: 800 W/800 W (lowline/highline)
BTU rating	4000 BTU/hr
Voltage tolerance range	Rated input voltage: 100 to 120 VAC/200 to 240 VAC Rated input current: 12 A (100 VAC), 9.8 A (120 VAC), 4.9 A (220 VAC) Rated input frequency: 50 to 60 Hz Rated input power: 1135 W (110 VAC)/1125 W (220 VAC)
Certifications and standards	ACPI 1.0a. compliant PCI 2.2 compliant PXE support WOL support Physical Address Extension (PAE) support Microsoft Logo certifications

HP ProLiant DL585 Server

Ordering information

Part number	Product name	Description
365504-001	HP ProLiant DL585 Server	ProLiant DL585 Server with 2 processors and 2 GB DDR

Other models are available. For more information, visit www.hp.com or contact your local HP sales representative.

For more information

For more information about the HP ProLiant DL585 Server or any other products from HP's portfolio of new offerings with AMD Opteron™ processors, visit <http://h18004.www1.hp.com/products/servers/proliantdl585/index.html>.

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For more information, visit www.hp.com/go/adaptive.

5982-9589EN Rev. 2, 04/26/2005

