HP ProLiant DL180 G5 Server

Data sheet

Built upon the latest industry-standard technology, the HP ProLiant DL180 G5 Server is an affordable 2U, dual processor-capable server that delivers essential performance features for 32-bit and 64-bit applications. Designed for quality, performance and flexible deployments, the DL180 G5 has an array of innovations and features that set it apart from the competition by responding directly to the needs of your business.

The DL180 G5 is ideal for growing businesses and emerging markets that focus on a wide variety of applications including: gaming, mail and messaging; network services; web search; 1 GB mailboxes; video storage and streaming; file/print; and photography. You can rely on the DL180 G5 to deliver rack server efficiency and essential features, with the economics of a tower platform.

With a 2U chassis designed for business growth and head room, the DL180 G5 also provides a broad selection of options, enabling ultimate flexibility to meet your specific needs. For improved power and performance efficiency, the DL180 G5 features the new quad-core Intel® Xeon® processors (with 1,333 or 1,066 MHz front side bus). In addition, the server supports up to 16 GB of memory.

You can customize the DL180 G5 with the precise options you need to fit your unique performance and dependability requirements—including processors, memory, hard drives, controller cards, power supplies, Lights-Out 100c management software and HP Care Pack Services.

The HP ProLiant DL180 G5 Server provides a robust set of features and functionality that make it ideal for growing small to midsize businesses, as well as corporate scale out customers.

The DL180 G5 supports:

- Up to two quad-core Intel Xeon 5400 series processors with 12 MB Level 2 cache or Intel Xeon 5200 series processors with 6 MB Level 2 cache, together with the Intel chipset
- Up to 16 GB PC2-5300 registered dual in-line memory modules (DIMMs) (DDR2-667) with error-correcting code (ECC)
- Up to twelve 3.5-inch SATA or SAS drives for a maximum storage capacity of 9 TB (using 750 GB SATA drives)
- Three internal PCI Express slots: (2) x4 full-length/ full-height and (1) x8 low-profile/half-height slots; or an optional riser for (2) PCI-X 64-bit slots and (1) x8 low-profile/half-height slots

Key features and benefits

Engineered for reliability and quality
Reliable performance through the latest technologies, high-quality, design-enhancing processing throughput and dependability are provided at a low cost.

- Easy to set up, maintain and troubleshoot with industry-standard management tools
- Rack-optimized, 2U form factor for fast deployment and efficient maintenance of large-scale cluster solutions
- Optional redundant power supplies for fault tolerance, reliability and increased uptime
- Easy-access chassis and internal component labels for fast, simple maintenance and expansion

Right-sized solution with flexible options
Affordable pricing options provide flexibility for a feature-rich dual processor system based on industry-leading components.

- Choice of the latest quad-core and dual-core Intel Xeon 5000 processors designed for heavy server workloads, with processing power to run multiple tasks and applications simultaneously
- Standard PC2-5300 registered DIMMs (DDR2/667) expandable to 16 GB to provide increased bandwidth for high uptime and memory performance
- Ultimate flexibility to select the right set of options that address your business needs

Management tools
- HP Lights-Out 100c Remote Management software allows essential lights-out remote management of your server.
- 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.

Reliable support
Expert, dependable support from one of the industry leaders in high-performance computing solutions is provided.

- Global server support network assists you with setup and installation, and provides reliable after-sales support from a single point of contact.
- HP provides a broad choice of pre-configured, factory-integrated and tested cluster packages ideal for midrange technical computing.

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Number of processors	1 to 2
Maximum number of cores	8
Processors supported	Quad-core Intel Xeon processors: E5440: 2.83 GHz, 80 W, 1,333 MHz FSB E5430: 2.66 GHz, 80 W, 1,333 MHz FSB E5420: 2.50 GHz, 80 W, 1,333 MHz FSB E5405: 2.00 GHz, 80 W, 1,333 MHz FSB Dual-core Intel Xeon processor: E5205: 1.86 GHz, 65 W, 1,066 MHz FSB
Cache	12 MB L2 (2 x 6 MB) (5400 Series) 6 MB L2 (1 x 6 MB) (5200 Series)
Maximum memory	16 GB
Maximum front side bus speed	1,333 MHz
Memory type	PC2-5300 registered DIMMs (DDR2-667)
Storage controller	HP embedded SATA RAID Controller (4-drive model) SmartArray E200 (8-drive model) SmartArray P400 (12-drive model)
Drives supported	4, 8 standard; up to 12*: (with the 12-drive cage) Hot plug large form factor (LFF) SATA 7.2K 80/160/250/500/750 GB Hot plug LFF SAS 15K 36/72/146/300 GB
Maximum internal storage	9.0 TB
Expansion slots	3 internal—2 full-length/full-height PCI Express x4 and 1 low-profile/half-height PCI Express x8 OR: Optional Riser—2 PCI-X 64-bit option and 1 low-profile/half-height PCI Express x8
Memory protection	ECC
Form factor	2U rack
Networking	One integrated Broadcom 5722 Gigabit LOM NIC
Remote management	HP ProLiant Lights-Out 100c (optional)
Redundant power supply and fans	750 W or 1,200 W redundant power supplies, non-hot plug
Warranty (parts/labor/on-site)	1-year/1-year/1-year**

* 12 hard drive cage model must be ordered for 12 hard drive capability.

** Warranty varies by region. Additional information regarding worldwide limited warranty and technical support is available at
http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.

For detailed descriptions of all models of the ProLiant DL180 G5 and an extensive list of supported options from HP, see the DL180 G5 QuickSpecs document, available via
http://h18000.www1.hp.com/products/quickspecs/12903_div/12903_div.html

Ideal environments

Growing businesses and emerging markets

• High performance at an affordable price to meet small and midsize business budget needs, as well as throughput and availability needs

• Quad-core Intel Xeon processors and DDR2 memory options to allow for fast throughput on most applications

Corporate scale out

• Essential management and redundancy, with enough power to handle complex business requirements

• Optional Lights-Out technology for remote management and reliability

Large-scale service providers

• Large capacity at the lowest cost per gigabyte in its class makes it ideal for a variety of applications including: gaming, mail and messaging; web search; 1 GB mailboxes; video storage and streaming; file/print; and photography.

• 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**.

For more information

Part of the HP ProLiant 100 series servers—that have sold more than one million servers to date—the DL180 G5 provides solid reliability and performance for business applications.

For more information about the HP ProLiant DL180 G5 Server, contact your local HP representative, or visit **www.hp.com/servers/proliantdl180**.

HP Services

The challenge of virtually every IT organization is similar: to develop and maintain an agile, efficient infrastructure that delivers the service levels your business needs—while staying within your budget. HP Services helps you get the most from your ProLiant investment with support offerings designed to give you the choice to address your business needs, service-level commitments and budgets. Whether you purchase an HP recommended or enhanced service for your ProLiant server, you can map your hardware choice to the precise level of support you need.

We deliver total care for your servers resulting in comprehensive support to help design, deploy, manage and support your IT environment and business processes. Our 69,000 skilled professionals and network of authorized channel partners deliver global capabilities across the server lifecycle, including consulting, integration, outsourcing and support.

Cost-effectively upgrade or extend your standard warranty with easy-to-buy, easy-to-use support packages that reduce downtime risks with support levels ranging from a basic service recommendation to an enhanced mission-critical service. These HP Care Pack services are available for purchase with your ProLiant DL180 series servers.

Recommended Care Pack Service offerings
• Three-year, next business day onsite 9-hour x 5-day coverage, hardware support
• Hardware installation

Enhanced Care Pack Service offerings
• Three-year same business day onsite 13-hour x 5-day coverage, hardware support
• Hardware installation plus operating system installation and startup

Care Pack Service benefits
• Gain total control and increased flexibility—resulting in tangible savings.
• Improve server availability with single-source support.
• Reduce the complexity of services and support resulting in productivity gains.
• Reduce deployment and manage ProLiant solutions smoothly and efficiently.
• Increase uptime and performance of your servers and solve applications problems quickly.
• Detect, diagnose and repair problems to quickly save time, money and resources.

For more information, visit **www.hp.com/services/proliantservices** or **www.hp.com/go/proliant/carepack**.

To learn more, visit www.hp.com/go/servers/proliantdl180

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