



HP ProLiant servers
Family guide



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Shift your IT from technology that merely supports the business to a model where technology powers the business and is measured in terms of delivering better business outcomes. The HP Adaptive Infrastructure portfolio creates the foundation for delivering better business outcomes by enabling you to reduce operational costs, accelerate speed of IT change and deliver higher quality of service to the business.

Drive greater business growth, lower your costs and mitigate unplanned risks with powerful HP ProLiant servers...the preferred way to run information technology (IT).

Fundamental to establishing an adaptive infrastructure are your underlying platform choices. What kind of server best suits your needs? What level of high availability and performance do you require? How many users will be supported? What operating system will you be using? Whether it's a departmental server, an enterprise data center or anything in between, HP is committed to meeting your exact needs. In fact, every third server sold worldwide is an HP server.*

With the right infrastructure, your information technology should be able to meet any business demand. A powerful, flexible infrastructure enables your business to run smoothly and securely, helps you drive efficiency and increase productivity, and serves your current IT requirements while easily absorbing new emerging technologies.

The top-selling HP ProLiant servers demonstrate our ongoing commitment to provide a complete server infrastructure that supports both your business objectives and your business growth. ProLiant servers are available with an extensive selection of management tools, virtualization software, storage and networking products, and services and support—along with our close collaboration with world-class independent software vendors (ISVs) and systems integrators (SIs).

Choose the levels of performance, availability, expandability and manageability from the world's most comprehensive industry-standard server portfolio, offering you the right technology for your computing needs.

In addition to the ProLiant server family, HP also offers the HP Integrity systems family—the most trusted brand for mission-critical applications. A multi-OS ecosystem running on HP-UX 11i, OpenVMS, Microsoft® Windows® Server 2003, Linux and NonStop, Integrity provides a unique combination of scalability, virtualization and

availability enabling you to optimize your business outcomes while decreasing costs and reducing risk. The Integrity systems family includes:

- **HP Integrity NonStop servers**—real-time, all-the-time business solutions for the enterprise
- **HP Integrity servers**—from entry-class to Superdomes; complete breadth of offerings to meet your exact business-critical needs
- **HP Integrity server blades**—brings Integrity business-critical capabilities to a c-Class form factor

Are you looking for ways to simplify a growing, multi-server environment? HP BladeSystem is a modular infrastructure that is consolidated up front to save you more time, energy and money—regardless of what you put inside. In one box, a BladeSystem supports ProLiant and Integrity server blades, StorageWorks storage blades and a variety of virtual machine, client and workstation solutions. With the essential IT elements built-in—compute, network, storage, management and power and cooling—BladeSystem delivers reliable, cost-effective services to your business.

To gain the full value from your investments, you also need expert services across the IT lifecycle, intelligent software, advanced storage devices and system-enhancing options.

- **Services**—How important is it that your service partners provide a single point of ownership and accountability? Do they meet your service needs across your enterprise? Have you reached the mission-critical reliability you require to meet your business needs? From training and basic product support to selective outsourcing—our services help you realize the full potential of your technology to meet your business requirements.
- **Management software**—Do you need a single interface to monitor and control your complex IT environment? Our management software allows you to align IT with business needs and automate error-prone processes, which simplifies and optimizes your infrastructure.
- **Storage**—Do you need help optimizing your storage resources, managing multi-vendor environments, and evolving to open architectures? Our network and direct-attached storage devices help you keep large amounts of information protected and readily accessible to people when needed.
- **Options**—Do you have everything you need to meet your infrastructure needs? Our server options—including memory, drives, processors, racks, operating system software, power and cooling—help optimize your solution by enhancing system performance and functionality.

*Source: IDC, Worldwide Quarterly Server Tracker, August 2007

HP ProLiant servers—100 series

Affordable, entry-level rack and tower servers ideal for small to medium businesses, workgroups, remote sites and high-performance computing environments

Entry-level

New



HP ProLiant ML110 G5
Powerfully simple server trusted by small organizations



HP ProLiant ML115
Expandable, affordable server for growing organizations

Updated



HP ProLiant DL140 G3
Ideal server for general-purpose solutions and high-performance computing

	HP ProLiant ML110 G5	HP ProLiant ML115	HP ProLiant DL140 G3
Number of processors	1	1	1–2
Maximum number of cores	8	2	8
Processors supported	<p>Quad-Core Intel® Xeon® processors: X3220: 2.40 GHz, 1066 MHz X3210: 2.13 GHz, 1066 MHz</p> <p>Dual-Core Intel Core™2 Duo processor: E4400: 2.00 GHz, 800 MHz</p> <p>Dual-Core Intel Xeon processors: X3075: 2.66 GHz, 1333 MHz X3065: 2.33 GHz, 1333 MHz</p> <p>Dual-Core Intel Pentium® processor: E2160: 1.80 GHz, 800 MHz</p> <p>Single-Core Intel Celeron® processors: 440: 2.00 GHz, 800 MHz 420: 1.60 GHz, 800 MHz</p>	<p>Dual-Core AMD Opteron™ processors: Model 1220SE: 2.8 GHz Model 1216: 2.4 GHz Model 1214: 2.2 GHz Model 1210: 1.8 GHz</p> <p>Single-Core AMD™ Athlon™ processors: 3500+: 2.2 GHz</p>	<p>Quad-Core Intel Xeon processors: X5365: 3.00 GHz, 1333 MHz front side bus (FSB) X5355: 2.66 GHz, 1333 MHz FSB E5345: 2.33 GHz, 1333 MHz FSB E5335: 2.00 GHz, 1333 MHz FSB L5335: 2.00 GHz low voltage (LV), 1333 MHz FSB L5320: 1.86 GHz LV, 1066 MHz FSB E5320: 1.86 GHz, 1066 MHz FSB E5310: 1.60 GHz, 1066 MHz FSB</p> <p>Dual-Core Intel Xeon processors: 5160: 3.00 GHz, 1333 MHz FSB 5150: 2.66 GHz, 1333 MHz FSB 5148: 2.33 GHz LV, 1333 MHz FSB 5140: 2.33 GHz, 1333 MHz FSB 5130: 2.00 GHz, 1333 MHz FSB 5110: 1.60 GHz, 1066 MHz FSB</p>
Cache	8 MB L2 (1 x 8 MB) (Xeon 3200 series); 4 MB L2 (1 x 4 MB) (Xeon 3000 series); 2 MB L2 (1 x 2 MB) (Core 2); 1 MB L2 (1 x 1 MB) (Pentium 2100 Series); 512 KB L2 (Celeron Series)	2 MB L2 (2 x 1 MB)	8 MB L2 (2 x 4 MB) (5300 Series) or 4 MB L2 (1 x 4 MB) (5100 Series)
Maximum memory	8 GB	8 GB	32 GB
Drives supported	Up to 4: Non-hot plug LFF SAS 15K 300/146/72 GB Non-hot plug LFF SATA 7.2K 500*/250/160/80 GB	Up to 4: Non-hot plug LFF SAS 15K 300/146/72 GB Non-hot plug LFF SATA 7.2K 500*/250/160/GB	Up to 2: Non-hot plug LFF SATA 7.2K 500*/250/160/80 GB Hot plug LFF SATA 7.2K 750/500/250/160/ 80 GB Hot plug LFF SAS 15K 300/146/72/36 GB
Maximum internal storage	2.0 TB	2.0 TB	1.5 TB
Form factor	Tower with rack-mount option kit	Tower or shelfable	1U rack
Warranty (parts/labor/onsite)	1-year/1-year/1-year; 3-year/1-year/1-year (Asia Pacific region only)	1-year/1-year/1-year; 3-year/1-year/1-year (Asia Pacific region only)	1-year/1-year/1-year

HP related offerings

	HP ProLiant ML110 G5	HP ProLiant ML115	HP ProLiant DL140 G3
Services	3-year, 9x5, next-business-day response 3-year, 13x5, same-business-day, 4-hour response	3-year, 9x5, next-business-day response 3-year, 13x5, same-business-day, 4-hour response	3-year, 9x5, next-business-day response 3-year, 13x5, same-business-day, 4-hour response
Storage	160 GB 1.5 Gb/sec SATA 7.2K RPM NHP 3.5-inch hard disk drive (HDD) DAT 72 USB tape drive	500 GB 1.5 Gb/sec SATA 7.2K RPM NHP 3.5-inch HDD* DAT 72 USB tape drive	Modular Smart Array 20 DAT 72 USB tape drive
Options	1 GB Unbuffered PC2-5300 (1 x 1 GB) Uninterruptible Power System	Smart Array E200 Controller NC110T PCI Express Gigabit Server Adapter	0x1x8 Server Console Switch 5000 Series Rack
Software	Management: Lights-Out 100 Operating systems: Windows, Linux	Management: Lights-Out 100 Operating systems: Windows, Linux	Management: Lights-Out 100 Operating systems: Windows, Linux

* Factory-integrated only.

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

HP ProLiant servers—100 series

Affordable, entry-level rack and tower servers ideal for small to medium businesses, workgroups, remote sites and high-performance computing environments

Entry-level



HP ProLiant DL145 G3
Server for compute-intensive environments



HP ProLiant ML150 G3
High-value server for small businesses needing power and expandability

Number of processors	1–2	1–2
Maximum number of cores	8	8
Processors supported	Dual-Core AMD Opteron processors: Model 2220: 2.8 GHz Model 2218: 2.6 GHz Model 2216: 2.4 GHz Model 2216 HE: 2.4 GHz Model 2214 HE: 2.2 GHz Model 2210 HE: 1.8 GHz Model 2210: 1.8 GHz	Quad-Core Intel Xeon processors: E5335: 2.00 GHz, 1333 MHz FSB E5320: 1.86 GHz, 1066 MHz FSB E5310: 1.60 GHz, 1066 MHz FSB Dual-Core Intel Xeon processors: 5060: 3.20 GHz, 1066 MHz FSB 5050: 3.00 GHz, 667 MHz FSB 5150: 2.66 GHz, 1333 MHz FSB 5140: 2.33 GHz, 1333 MHz FSB 5130: 2.00 GHz, 1333 MHz FSB 5120: 1.86 GHz, 1066 MHz FSB 5110: 1.60 GHz, 1066 MHz FSB
Cache	2 MB L2 per core	8 MB L2 (2 x 4 MB) (5300 Series); 4 MB L2 (1 x 4 MB) (5100 Series) or 4 MB L2 (2 x 2 MB) (5000 Series)
Maximum memory	32 GB	8 GB
Drives supported	Up to 2: Non-hot plug LFF SATA 7.2K 500*/250/160/80 GB Hot plug LFF SATA 7.2K 750/500/250/160/80 GB Hot plug LFF SAS 15K 300/146/36 GB	Up to 6: Hot plug LFF SAS 15K 300/146 GB Hot plug LFF SAS 10K 72/36 GB Hot plug LFF SATA 7.2K 750/500/250/160/80 GB
Maximum internal storage	1.5 TB	4.5 TB
Form factor	1U rack	Tower or 5U rack
Warranty (parts/labor/onsite)	1-year/1-year/1-year	1-year/1-year/1-year; 3-year/1-year/1-year (Asia Pacific region only)

HP related offerings

Services	3-year, 9x5, next-business-day response 3-year, 13x5, same-business-day, 4-hour response	3-year, 9x5, next-business-day response 3-year, 13x5, same-business-day, 4-hour response
Storage	Modular Smart Array 50 ProLiant ML310 G4 Storage Server	750 GB 1.5 Gb/sec SATA 7.2K RPM 3.5-inch HDD DAT 72 USB tape drive
Options	R1500 G2 Uninterruptible Power System 10000 G2 Series Rack	2 GB FBD PC2-5300 (2 x 1 GB) Memory Kit NC150T PCI 4-Port Gigabit 1000T Combo Switch Adapter
Software	Management: Lights-Out 100 Operating systems: Windows, Linux	Management: Lights-Out 100 Operating systems: Windows, Linux

* Factory-integrated only.

HP ProLiant servers—300 series

Midrange rack and tower servers with increased expansion to support virtualization, e-mail and database applications

Midrange

New



New



HP ProLiant ML310 G5

Manageable, affordable foundation for small businesses and remote sites

HP ProLiant DL320 G5p

Entry compute power with enterprise management for remote or space-constrained installations

HP ProLiant DL320s

Low-cost, high-capacity, storage enhanced with dual core performance

Number of processors	1	1	1
Maximum number of cores	4	4	2
Processors supported	Quad-Core Intel Xeon processors: X3220: 2.40 GHz, 1066 MHz FSB X3210: 2.13 GHz, 1066 MHz FSB Dual-Core Intel Xeon processors: X3075: 2.66 GHz, 1333 MHz FSB X3065: 2.33 GHz, 1333 MHz FSB Dual-Core Intel Core2 Duo processor: E4400: 2.00 GHz, 800 MHz FSB Dual-Core Intel Pentium processor: E2160: 1.80 GHz, 800 MHz FSB Single-Core Intel Celeron processor: 420: 1.60 GHz, 800 MHz FSB	Quad-Core Intel Xeon processors: X3220: 2.40 GHz, 1066 MHz FSB X3210: 2.13 GHz, 1066 MHz FSB Dual-Core Intel Xeon processors: X3075: 2.66 GHz, 1333 MHz FSB X3065: 2.33 GHz, 1333 MHz FSB Dual-Core Intel Core2 Duo processor: E4400: 2.00 GHz, 800 MHz FSB Dual-Core Intel Pentium processor: E2160: 1.80 GHz, 800 MHz FSB Single-Core Intel Celeron processor: 420: 1.60 GHz, 800 MHz FSB	Dual-Core Intel Xeon processors: 3070: 2.67 GHz, 1066 MHz FSB 3060: 2.40 GHz, 1066 MHz FSB
Cache	8 MB L2 (Xeon 3200 Series); 4 MB L2 (Xeon 3000 Series); 2 MB L2 (Core2); 1 MB L2 (Pentium); 512 KB L2 (Celeron)	8 MB L2 (Xeon 3200 Series); 4 MB L2 (Xeon 3000 Series); 2 MB L2 (Core2); 1 MB L2 (Pentium); 512 KB L2 (Celeron)	4 MB L2 (2 x 2 MB)
Maximum memory	8 GB	8 GB	8 GB
Drives supported	Up to 4: Hot plug LFF SAS 15K 300/146 GB Hot plug LFF SAS 10K 72/36 GB Hot plug LFF SATA 7.2K 750/500/250/ 160/80 GB	Up to 4: Hot plug LFF SAS 15K 300/146/72/36 GB Hot plug LFF SATA 7.2K 750/500/250/ 160/80 GB	Up to 14: Hot plug LFF SAS 15K 300/146/72/36 GB Hot plug LFF SATA 7.2K 750/500/250/ 160/80 GB
Maximum internal storage	3 TB	3 TB	10.5 TB
Form factor	Tower or 5U rack	1U rack	2U rack
Warranty (parts/labor/onsite)	1-year/1-year/1-year 3-year/1-year/1-year (Asia Pacific region only)	3-year/1-year/1-year	3-year/1-year/1-year

HP related offerings

Services	3-year, 9x5, next-business-day response 3-year, 13x5, same-business-day, 4-hour response	3-year, 9x5, next-business-day response 3-year, 13x5 same-business-day, 4-hour response	3-year, 9x5, next-business-day response 3-year, 13x5 same-business-day, 4-hour response
Storage	146 GB 3.0 Gb/sec SAS 15K RPM 3.5-inch HDD LTO-2 Ultrium 448 tape drive + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA)	Modular Smart Array 20 LTO-2 Ultrium 448 tape drive in a 1U rack-mount + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA)	300 GB 3.0 Gb/sec SAS 15K RPM 3.5-inch HDD LTO-4 Ultrium 1840 in a 3U rack-mount + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA)
Options	T1500 Uninterruptible Power System E200 Controller with BBWC and 128 MB upgrade	NC360T PCI Express Dual-port Gigabit Server Adapter Modular Power Distribution Unit	0x2x16 Server Console Switch with virtual media P400 Controller with BBWC and 256 MB upgrade
Software	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux

* Factory-integrated only.

HP ProLiant servers—300 series

Midrange rack and tower servers with increased expansion to support virtualization, e-mail and database applications

Midrange

Updated



Updated



HP ProLiant ML350 G5

Ideal for expanding businesses, dedicated work groups and remote office implementations

HP ProLiant DL360 G5

Reliable compute power, iLO and fault tolerance for space-constrained installations

Number of processors	1–2	1–2
Maximum number of cores	8	8
Processors supported	<p>Quad-Core Intel Xeon processors:</p> <p>E5440: 2.83 GHz, 1333 MHz FSB E5430: 2.66 GHz, 1333 MHz FSB E5420: 2.50 GHz, 1333 MHz FSB E5410: 2.33 GHz, 1333 MHz FSB E5405: 2.00 GHz, 1333 MHz FSB X5355: 2.66 GHz, 1333 MHz FSB E5345: 2.33 GHz, 1333 MHz FSB E5335: 2.00 GHz, 1333 MHz FSB E5320: 1.86 GHz, 1066 MHz FSB E5310: 1.60 GHz, 1066 MHz FSB</p> <p>Dual-Core Intel Xeon processors:</p> <p>5160: 3.00 GHz, 1333 MHz FSB 5150: 2.66 GHz, 1333 MHz FSB 5140: 2.33 GHz, 1333 MHz FSB 5130: 2.00 GHz, 1333 MHz FSB 5120: 1.86 GHz, 1066 MHz FSB 5110: 1.60 GHz, 1066 MHz FSB 5080: 3.73 GHz, 1066 MHz FSB 5060: 3.20 GHz, 1066 MHz FSB 5050: 3.00 GHz, 667 MHz FSB</p>	<p>Quad-Core Intel Xeon processors:</p> <p>X5440: 3.16 GHz, 1333 MHz FSB X5450: 3.00 GHz, 1333 MHz FSB E5450: 3.00 GHz, 1333 MHz FSB E5440: 2.83 GHz, 1333 MHz FSB E5430: 2.66 GHz, 1333 MHz FSB E5420: 2.50 GHz, 1333 MHz FSB E5410: 2.33 GHz, 1333 MHz FSB E5405: 2.00 GHz, 1333 MHz FSB X5355: 2.66 GHz, 1333 MHz FSB E5345: 2.33 GHz, 1333 MHz FSB E5335: 2.00 GHz, 1333 MHz FSB E5320: 1.86 GHz, 1066 MHz FSB L5320: 1.86 GHz LV, 1066 MHz FSB E5310: 1.60 GHz, 1066 MHz FSB</p> <p>Dual-Core Intel Xeon processors:</p> <p>5160: 3.00 GHz, 1333 MHz FSB 5150: 2.66 GHz, 1333 MHz FSB 5148: 2.66 GHz, 1333 MHz FSB 5140: 2.33 GHz, 1333 MHz FSB 5130: 2.00 GHz, 1333 MHz FSB 5120: 1.86 GHz, 1066 MHz FSB 5110: 1.60 GHz, 1066 MHz FSB</p>
Cache	12 MB L2 (2 x 6 MB) (5400 Xeon Series); 8 MB L2 (2 x 4 MB) (5300 Xeon Series); 4 MB L2 (1 x 4 MB) (5100 Xeon Series) or 4 MB L2 (2 x 2 MB) (5000 Xeon Series)	12 MB L2 (2 x 6 MB) (5400 Xeon Series); 8 MB L2 (2 x 4 MB) (5300 Xeon Series); 4 MB L2 (1 x 4 MB) (5100 Xeon Series)
Maximum memory	32 GB	32 GB
Drives supported	<p>Up to 8 (SFF): Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SAS 10K 146/72/36 GB Hot plug SFF SATA 5.4K 120/60 GB</p> <p>Up to 6 (LFF): Hot plug LFF SAS 15K 300/146/72/36 GB Hot plug LFF SATA 7.2K 750/500/250/160/80 GB</p>	<p>Up to 6: Hot plug SFF SAS 10K 146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/60 GB</p>
Maximum internal storage	4.5 TB	876 GB
Form factor	Tower or 5U rack	1U rack
Warranty (parts/labor/onsite)	3-year/3-year/3-year	3-year/3-year/3-year
HP related offerings		
Services	3-year, 24x7, same-business-day, 4-hour response 3-year, 24x7, 6-hour call-to-repair	3-year, 24x7, same-business-day, 4-hour response 3-year, 24x7, 6-hour call-to-repair
Storage	LTO-3 Ultrium 920 + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA) Smart Array 6402 with Modular Smart Array 30	50 DAT 72 USB tape drive LTO-2 Ultrium 448 in a 1U rack-mount + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA)
Options	2 GB FBD PC2-5300 (2 x 1 GB) Memory Kit T1500 Uninterruptible Power Supply	TFT7600 Monitor 10000 G2 Series Rack
Software	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux

* Factory-integrated only.

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

HP ProLiant servers—300 series

Midrange rack and tower servers with increased expansion to support virtualization, e-mail and database applications

Midrange

Updated



HP ProLiant DL365

Reliable compute power, iLO and fault tolerance for space-constrained installations

Updated



HP ProLiant ML370 G5

Powerful server for ongoing access and uptime needs

Number of processors	1–2	1–2
Maximum number of cores	4	8
Processors supported	Dual-Core AMD Opteron processors: Model 2222: 3.0 GHz Model 2220: 2.8 GHz Model 2218: 2.6 GHz Model 2218 HE: 2.6 GHz Model 2216: 2.4 GHz Model 2216 HE: 2.4 GHz Model 2214 HE: 2.2 GHz Model 2210: 1.8 GHz Model 2210 HE: 1.8 GHz	Quad-Core Intel Xeon processors: X5440: 3.16 GHz, 1333 MHz FSB E5450: 3.00 GHz, 1333 MHz FSB X5450: 3.00 GHz, 1333 MHz FSB E5440: 2.83 GHz, 1333 MHz FSB E5430: 2.66 GHz, 1333 MHz FSB E5420: 2.50 GHz, 1333 MHz FSB E5410: 2.33 GHz, 1333 MHz FSB E5405: 2.00 GHz, 1333 MHz FSB X5365: 3.00 GHz, 1333 MHz FSB X5355: 2.66 GHz, 1333 MHz FSB E5345: 2.33 GHz, 1333 MHz FSB E5335: 2.0 GHz, 1333 MHz FSB E5320: 1.86 GHz, 1066 MHz FSB E5310: 1.60 GHz, 1066 MHz FSB Dual-Core Intel Xeon processors: 5160: 3.00 GHz, 1333 MHz FSB 5150: 2.66 GHz, 1333 MHz FSB 5140: 2.33 GHz, 1333 MHz FSB 5120: 1.86 GHz, 1066 MHz FSB 5110: 1.60 GHz, 1066 MHz FSB 5080: 3.73 GHz, 1066 MHz FSB 5060: 3.20 GHz, 1066 MHz FSB 5050: 3.00 GHz, 667 MHz FSB
Cache	2 MB L2 (2 x 1 MB)	12 MB L2 (2 x 6 MB) (5400 Xeon Series); 8 MB L2 (2 x 4 MB) (5300 Xeon Series); 4 MB L2 (1 x 4 MB) (5100 Xeon Series) or 4 MB L2 (2 x 2 MB) (5000 Xeon Series)
Maximum memory	32 GB	64 GB
Drives supported	Up to 6: Hot plug SFF SAS 10K 146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/60 GB	Up to 8 (16 with optional second SAS drive cage*): Hot plug SFF SAS 10K 146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/60 GB
Maximum internal storage	876 GB	1.168 TB (2.336 TB with optional second SAS drive cage*)
Form factor	1U rack	Tower or 5U rack
Warranty (parts/labor/onsite)	3-year/3-year/3-year	3-year/3-year/3-year

HP related offerings

Services	3-year, 24x7, same-business-day, 4-hour response 3-year, 24x7, 6-hour call-to-repair	3-year, 24x7, same-business-day, 4-hour response 3-year, 24x7, 6-hour call-to-repair
Storage	Smart Array P800 with Modular Smart Array 50 DAT 72 USB tape drive	Modular Smart Array 50 LTO-3 Ultrium 920 + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA)
Options	NC373T PCI Express Multifunction Gigabit R3000 Uninterruptible Power System	T1500 Uninterruptible Power System NC380T PCI Express Dual-port Multifunction Gigabit Server Adapter
Software	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux

* Factory-integrated only.

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

HP ProLiant servers—300 series

Midrange rack and tower servers with increased expansion to support virtualization, e-mail and database applications

Midrange

Updated



HP ProLiant DL380 G5
Performance and density for demanding applications



HP ProLiant DL385 G2
Performance and density for demanding applications

Number of processors	1–2	1–2
Maximum number of cores	8	4
Processors supported	<p>Quad-Core Intel Xeon processors:</p> <p>X5460: 3.16 GHz, 1333 MHz FSB X5450: 3.00 GHz, 1333 MHz FSB E5450: 3.00 GHz, 1333 MHz FSB E5440: 2.83 GHz, 1333 MHz FSB E5430: 2.66 GHz, 1333 MHz FSB E5420: 2.50 GHz, 1333 MHz FSB E5410: 2.33 GHz, 1333 MHz FSB E5405: 2.00 GHz, 1333 MHz FSB X5365: 3.00 GHz, 1333 MHz FSB X5355: 2.66 GHz, 1333 MHz FSB E5345: 2.33 GHz, 1333 MHz FSB E5335: 2.00 GHz, 1333 MHz FSB E5320: 1.86 GHz, 1066 MHz FSB L5320: 1.86 GHz LV, 1066 MHz FSB E5310: 1.60 GHz, 1066 MHz FSB</p> <p>Dual-Core Intel Xeon processors:</p> <p>5080: 3.73 GHz, 1066 MHz FSB 5060: 3.20 GHz, 1066 MHz FSB 5050: 3.00 GHz, 667 MHz FSB 5160: 3.00 GHz, 1333 MHz FSB 5150: 2.67 GHz, 1333 MHz FSB 5148: 2.66 GHz LV, 1333 MHz FSB 5140: 2.33 GHz, 1333 MHz FSB 5130: 2.00 GHz, 1333 MHz FSB 5120: 1.86 GHz, 1066 MHz FSB 5110: 1.60 GHz, 1066 MHz FSB</p>	<p>Dual-Core AMD Opteron processors:</p> <p>Model 2222: 3.0 GHz Model 2220: 2.8 GHz Model 2218: 2.6 GHz Model 2218 HE: 2.6 GHz Model 2216: 2.4 GHz Model 2216 HE: 2.4 GHz Model 2214: 2.2 GHz Model 2212: 2.0 GHz Model 2210: 1.8 GHz Model 2210 HE: 1.8 GHz</p>
Cache	12 MB L2 (2 x 6 MB) (5400 Xeon Series); 8 MB L2 (2 x 4 MB) (5300 Xeon Series); 4 MB L2 (1 x 4 MB) (5100 Xeon Series) or 4 MB L2 (2 x 2 MB) (5000 Xeon Series)	2 MB L2 (2 x 1 MB)
Maximum memory	32 GB	32 GB
Drives supported	Up to 8: Hot plug SFF SAS 10K 146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/60 GB	Up to 8: Hot plug SFF SAS 10K 146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/60 GB
Maximum internal storage	1.168 TB	1.168 TB
Form factor	2U rack	2U rack
Warranty (parts/labor/onsite)	3-year/3-year/3-year	3-year/3-year/3-year
HP related offerings		
Services	3-year, 24x7, same-business-day, 4-hour response 3-year, 24x7, 6-hour call-to-repair	3-year, 24x7, same-business-day, 4-hour response 3-year, 24x7, 6-hour call-to-repair
Storage	Smart Array P800 with Modular Smart Array 1000 LTO-3 Ultrium 920 in a 1U rack-mount + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA)	Smart Array 6402 with Modular Smart Array 30 LTO-3 Ultrium 920 in a 1U rack-mount + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA)
Options	NC364T PCI Express Quad-port Gigabit Server Adapter 2x1x16 IP Console Switch with Virtual Media PCI Express	8 GB Registered PC2-5300 (2 x 4 GB) Dual Rank Memory TFT600 Monitor
Software	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux

*Second drive cage requires a storage controller

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

HP ProLiant servers—500 series

High-end rack and tower servers help customers consolidate business-critical application environments while reducing complexity and cost

High-end

Updated



Updated



HP ProLiant DL580 G5

Enterprise-strength, performance and scalability in a rack-optimized package

HP ProLiant DL585 G2

Powerful server for high-performance 32-bit and future 64-bit needs

Number of processors	1–4	1–4
Maximum number of cores	16	8
Processors supported	Quad-Core Intel Xeon Processors: X7350: 2.93 GHz 1066 MHz FSB E7340: 2.40 GHz 1066 MHz FSB E7330: 2.40 GHz 1066 MHz FSB E7320: 2.13 GHz 1066 MHz FSB E7310: 1.60 GHz 1066 MHz FSB L7345: 1.86 GHz 1066 MHz FSB Dual-Core Intel Xeon Processors: E7220: 2.93 GHz 1066 MHz FSB	Dual-Core AMD Opteron processors: Model 8224SE: 3.2 GHz Model 8222SE: 3.2 GHz Model 8222: 3.0 GHz Model 8220: 2.8 GHz Model 8220SE: 2.8 GHz Model 8218: 2.6 GHz Model 8216: 2.4 GHz Model 8214: 2.2 GHz Model 8212: 2.0 GHz
Cache	Up to 8 MB L2 (4 x 2 MB)	1 MB L2 per core
Maximum memory	128 GB with 32 x 4 GB DIMMs	128 GB
Drives supported	Up to 16: Hot plug SFF SAS 10K 146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/60 GB	Up to 8: Hot plug SFF SAS 10K 146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/60 GB
Maximum internal storage	2.336 TB	1.168 TB
Form factor	4U rack	4U rack
Warranty (parts/labor/onsite)	3-year/3-year/3-year	3-year/3-year/3-year

HP related offerings

Services	3-year, 24x7, same-business-day, 4-hour response 3-year, 24x7, 6-hour call-to-repair	3-year, 24x7, same-business-day, 4-hour response 3-year, 24x7, 6-hour call-to-repair
Storage	Smart Array P800 with Modular Smart Array 50 LTO-3 Ultrium 920 + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA)	LTO-3 Ultrium 920 in a 1U rack-mount + SC44Ge (SAS HBA) or SC11Xe (SCSI HBA) Modular Smart Array 1000
Options	NC510C PCIe 10 Gigabit Server Adapter R5500 Uninterruptible Power System	TFT 7600 Monitor 4x1x16 IP Console Switch with Virtual Media
Software	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux	Management: Insight Control Environment (Windows only) Operating systems: Windows, Linux

HP ProLiant servers

Supported options

	Entry-level					Midrange									High-end	
	ML110 G5	ML115	DL140 G3	DL145 G3	ML150 G3	ML310 G5	DL320 G5p	DL320s	ML350 G5	DL360 G5	DL365	ML370 G5	DL380 G5	DL385 G2	DL580 G5	DL585 G2
HP Hard Drives																
Large form factor SAS	•		•	•	•	•	•	•	•							
Large form factor SATA	•		•	•	•	•	•	•	•							
Small form factor SAS		•							•	•	•	•	•	•	•	•
Small form factor SATA		•							•	•	•	•	•	•	•	•
SCSI	•															
HP Memory																
PC2-5300 DDR2 registered				•							•			•		•
PC2-5300 fully buffered			•		•				•	•		•	•		•	
PC2-5300 unbuffered	•	•						•								
PC2-6400 unbuffered	•					•	•									
HP Controllers																
8-Port SAS HBA	•		•	•	•	•	•									
E200/E200i	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
E500			•	•		•	•		•	•	•	•	•	•	•	•
P400/400i						•	•	•	•	•	•	•	•	•	•	•
P600								•	•	•	•	•	•	•	•	•
P800							•	•	•	•	•	•	•	•	•	•
BBWC			•	•							•		•	•	•	•
Processors																
Intel Celeron	•					•	•									
Intel Core2 Duo	•					•	•									
Intel Pentium	•					•	•									
Intel Xeon	•		•		•	•	•	•	•	•		•	•		•	•
AMD Opteron		•		•							•			•		•

For additional details on supported options, please visit the server QuickSpecs at www.hp.com/go/quickspecs.

- Supported for this product

HP related offerings

Manage your ProLiant environment with HP Insight Control—an integrated software suite that acts as a single management infrastructure. Insight Control saves you time by simplifying server management.

Management software and operating systems

HP provides integrated server management capabilities, virtualization and OS solutions designed to enhance your ProLiant infrastructure and help you gain full value from your IT investment.

		Entry-level					Midrange								High-end		
		ML110 G5	ML115	DL140 G3	DL145 G3	ML150 G3	ML310 G5	DL320 G5p	DL320s	ML350 G5	DL360 G5	DL365	ML370 G5	DL380 G5	DL385 G2	DL580 G5	DL585 G2
Business needs	HP software																
Suites	Insight Control Environment (Windows only)						•	•	•	•	•	•	•	•	•	•	•
	iLO Power Management Pack									•	•	•	•	•	•		
Deploy	Rapid Deployment Pack			•	•		•	•	•	•	•	•	•	•	•	•	•
	Server Migration Pack Universal (x to ProLiant)						•	•	•	•	•	•	•		•	•	
	Server Migration Pack Universal (x to Virtual)	Supported on all servers															
Monitor	Systems Insight Manager	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Performance Management Pack	Included in Insight Control Environment															
Control	Integrated Lights Out 2 ¹						•	•	•	•	•	•	•	•	•	•	•
	Lights Out 100 ²	•	•	•	•	•											
Protect	Vulnerability and Patch Management Pack	Included in Insight Control Environment															
	Serviceguard (Linux/HP-UX)									•	•	•	•	•	•	•	•
Optimize	Virtual Machine Management Pack	Supported on all servers															
	Insight Power Manager									•	•	•	•	•	•		
Integrate	Integration with HP Operations Manager (fna OVO), HP Network Node Manager						•	•	•	•	•	•	•	•	•	•	•
	Integration with MS System Center, MS SMS and MOM						•	•	•	•	•	•	•	•	•	•	•
	Integration with CA Unicenter						•	•	•	•	•	•	•	•	•	•	•
	Integration with IBM Tivoli						•	•	•	•	•	•	•	•	•	•	•

For the latest enterprise management integration support, visit www.hp.com/server/integration.

		Operating systems															
OS choices	Microsoft Windows Small Business Server	•	•			•	•			•			•				
	Microsoft Windows Server 2003	Supported on all servers															
	Novell SUSE Linux Enterprise Server (SLES)	Supported on all servers															
	Red Hat Enterprise Linux (RHEL)	Supported on all servers															
	Novell Open Enterprise Server	Supported on all servers															
	Netware	•				•	•			•	•		•	•	•	•	•
	Solaris									•	•	•	•	•	•	•	•
	VMware ESX 3.x ³									•	•	•	•	•	•	•	•

For the latest OS support information, visit www.hp.com/go/ossupport.

Please refer to each product's quick specs for the most up-to-date hardware and operating system support details/matrix.

•Supported for this product

¹Available in Advanced or Select versions

²Available either on card or embedded in system, depending on server model; Advanced or Select versions available

³For detailed processor support, visit www.hp.com/go/vmware/servermatrix.

HP related offerings

To gain the full value from your investments, you also need expert services across the IT lifecycle, advanced storage devices and system-enhancing options.

HP options

Server options—including memory, drives, processors, racks, operating system software, power and cooling—help fine-tune your solution by enhancing system performance and functionality.

ML/DL networking	
NC110T PCI Express Gigabit Server Adapter	A low-cost Gigabit Ethernet NIC featuring excellent performance at a very modest price
NC150T PCI 4-Port Gigabit 1000T Combo Switch Adapter	A cost-effective Gigabit Ethernet switch and network adapter integrated on a single PCI card providing four external switched ports to client devices, ideal for small and medium organizations, as well as small, remote offices
NC364T PCI Express Quad-port Gigabit Server Adapter	A quad-port adapter that provides the highest port density for standard and low-profile I/O slots on ProLiant servers. Compatible with x4, x8 and x16 PCI Express slots, the NC364T has a theoretical maximum transfer rate of 4000 Mbps.
NC373T PCI Express Multifunction Gigabit Server Adapter	A high-performance adapter for twisted-pair environments that supports TCP Offload on Windows and accelerated iSCSI, all on a single card; supports both standard and low-profile slots
NC380T PCI Express Dual-port Multifunction Gigabit Server Adapter	A PCI Express card that provides two ports supporting TCP Offload on Windows and accelerated iSCSI, improving server efficiency and providing access to storage devices over the IP protocol
NC510C PCIe 10 Gigabit Server Adapter	An eight-lane PCI Express 10 Gigabit Ethernet CX4 (10GBASE-CX4 copper) network solution offering the highest bandwidth available in a ProLiant Ethernet adapter
Rack and rack accessories	
TFT7600 Rack Keyboard Monitor	Eases deployment of software updates by allowing connection of a USB drive directly at the console; designed for rack-mount use and ideal for data centers, corporate computer rooms and even SMB installations where local access to servers is needed at the rack
5000 Series Rack	Ideal rack solution for small and medium-size organizations with limited IT budgets
10000 G2 Series Rack	Enterprise-class rack solution combines unparalleled structural integrity, cooling and cable management and can be used for all HP rack-mounted server and storage products.
Consoles and console switches	
Server console switches	Integrates KVM and serial devices into a single management console for all of your servers, network devices and infrastructure; requires no software to be installed on target servers, providing a true KVM solution for local system management of up to 256 servers
IP Console Switches with Virtual Media	Provides local and remote access to a variety of data center devices; requires no software to be installed on target servers; allows administrators to access KVM functions remotely for day-to-day management or map a drive on their workstation to target servers to perform application, OS, firmware upgrades and installations
Uninterruptible power supplies	
T750 Uninterruptible Power Supply	Ideal tower UPS for small and medium businesses and desktop/workstation environments providing protection from power outages for equipment with power requirements of 500 watts and less
T1500 Uninterruptible Power Supply	Tower UPS that provides power protection for your computer equipment against damage due to fluctuating and inconsistent power with a true power rating of up to 1,500 VA and 900 watts
R1500 Uninterruptible Power Supply	A rack power supply ideal for space-constrained rack environments with up to 1,500 VA and 1,340 watts of power packed in just a 2U rack space
R3000 Uninterruptible Power Supply	A high power density rack power supply in a 2U, rack-mount design that offers up to 2,700 watts of true power
R5500 Uninterruptible Power Supply	The highest density rack power supply in a 3U, rack-mount design that offers up to 5,000 VA and 4,500 watts of true power
Power distribution units (PDUs)	
Modular PDUs	Available in a variety of capacities and consisting of a core unit and extension strips that can be mounted anywhere in the rack, these PDUs are perfect for many applications. Core-only units are great for BladeSystems.
Monitored PDUs	Available in several sizes these PDUs monitor power usage inside a rack and provide warnings locally when near capacity to prevent overloads.

HP related offerings

To gain the full value from your investments, you also need expert services across the IT lifecycle, advanced storage devices and system-enhancing options.

HP storage

Network and direct-attached storage devices help you keep large amounts of information protected and readily accessible to people when needed.

Controllers	
Smart Array P400	This 8-port SAS controller is a performance controller supporting PCI Express and is ideal for RAID 5 or RAID 6 (ADG) implementations with four drives or more.
Smart Array P800	Our highest performing 16-port Serial Attached SCSI PCI Express controller offers internal and external connections with expander support, combined with support for more than 100 hard drives to give you unparalleled deployment flexibility.
Smart Array E200	An affordable, entry-level controller utilizing PCI Express provides RAID 0, 1 and 1+0 support standard with an upgrade path to RAID 5 by adding battery-backed write cache.
Smart Array 6402	A high-performance Ultra320, PCI-X controller provides improved performance, including double data rate (DDR) battery-backed write cache architecture and a new RAID engine; array provides flexibility and reliable data protection for workgroup and departmental servers.
Hard drives	
HP SATA 3.5-inch and 2.5-inch hard disk drives	HP 1.5-Gb/sec SATA drives provide the lowest cost-per-gigabyte storage solution for server and storage boxes. They are ideal for less critical, low-duty cycle applications. Available capacities include: 750 GB, 500 GB, 250 GB, 160 GB and 80 GB 7.2K RPM 3.5-inch and 60 GB and 120 GB 5.4K RPM 2.5-inch.
HP SAS 3.5-inch and 2.5-inch hard disk drives	HP 3.0-Gb/sec SAS drives provide a best-price-for-performance solution for server and storage boxes. These drives are ideal for critical, high-duty cycle applications. Available capacities include: 300 GB, 146 GB, 72 GB, 36 GB 15K RPM 3.5-inch and 146 GB, 72 GB and 36 GB 10K RPM 2.5-inch.
Host bus adapters	
SC44Ge SAS HBA	The HP SC44Ge has 8 channels with 2 connectors (1 internal/1 external) and is the recommended SAS HBA for connecting HP SAS tape products to HP ProLiant servers.
SC11Xe SCSI HBA	The HP SC11Xe is an Ultra320 PCI Express SCSI HBA ideal for connecting HP SCSI tape products to HP ProLiant servers.
U320e SCSI HBA	The HP U320e is a dual-channel PCI Express SCSI HBA ideal for connecting HP MSL Tape Libraries to HP ProLiant servers.
Tape drives	
DAT 72 USB tape drive	Combines the reliability and cost-effectiveness of DAT with the universal plug-and-play capabilities of the USB 2.0 interface to provide an ideal backup solution for small servers and workstations.
Ultrium 448 tape drive	A tape backup solution that provides both small and medium-size customers with an excellent mix of features and value for their entry-level and mid-range server needs.
Storage array systems	
Modular Smart Array 20	A SATA disk drive storage enclosure that delivers industry-leading availability, storage density and upgradeability to meet customers' demanding and growing storage needs. The MSA 20 delivers the ideal mix of low-cost and high capacity, for minimum I/O workloads such as reference data, archival and disk-to-disk backup.
Modular Smart Array 30	The MSA 30 is ideal for data center, departmental and workgroup server users who need a flexible, universal storage enclosure that utilizes a common storage building block for their current and future data center. It is intended for use with servers delivering business-critical data and applications with requirements for high availability, performance, excellent serviceability and large storage capacity.
Modular Smart Array 50	The MSA 50 is ideal for corporate infrastructure applications including domain controllers, file/print, e-mail, small databases, application servers, web hosting, messaging and Citrix terminal services. In SMB locations, the MSA 50 is ideal for any environment that can benefit from high-availability features such as hot plug fans, power supplies and drives but requires a cost sensitive solution.
Modular Smart Array 70	The MSA 70 is ideal for your small and midrange business' growing storage needs. It supports up to 3.6 TB per enclosure or up to 14.4 TB (four enclosures) capacity supporting 2.5-inch SAS or SATA drives in a 2U form factor. Configuration and setup is easy with HP Array Configuration Utility (ACU). Enclosures can be cascaded in a 1+1 configuration allowing a maximum of 50 drives in a 4U configuration behind each of the two external ports on the HP Smart Array P800 or the HP Smart Array E500 controller for a total of 100 drives in four enclosures.
Modular Smart Array 1000	A 2 Gb Fibre Channel storage system for the entry-level to midrange storage area network (SAN), provides customers with a low-cost, scalable, high-performance storage consolidation system with investment protection.
Modular Smart Array 1500	A Fibre Channel storage area network (SAN) 2U controller shelf connects to HP StorageWorks Serial ATA (SATA) and/or SCSI disk enclosures, providing customers with a flexible, low-cost, high-capacity storage solution.
Modular Smart Array 1510i	An iSCSI interface-based 2U controller unit connects to both HP StorageWorks Serial ATA (SATA) and/or SCSI disk enclosures, providing a flexible, low-cost, high-capacity storage solution.
Shared storage	
Shared storage	Deploying a large number of servers or when implementing a server consolidation project is the perfect time to look at storage consolidation. An HP SAN, using either HP EVA or XP disk arrays can increase storage utilization significantly. The HP EVA is one of the easiest-to-manage arrays in the industry, and gives the midrange marketplace leading performance, capacity and availability storage solutions. The XP disk arrays combine a completely redundant hardware platform with unique data replication capabilities that are integrated with clustering solutions for complete business continuity in mission-critical environments.

HP Care Pack Services

To fully capitalize on the capabilities of your HP ProLiant servers, you need a service partner that thoroughly understands server technology and how it behaves in a multi-vendor environment. HP Services and HP Authorized Channel Partners have this unique insight into ProLiant servers, and we offer a range of HP Care Pack services designed to help you get the most from your ProLiant technology. For a complete list or for more information, visit www.hp.com/services/proliantservices.

Benefits of HP Care Pack Service support include:

- Improved server availability with single-source support
- Reduced complexity of services and support
- Accelerated ProLiant server implementation
- Predictable support costs and service levels with standardized HP Care Pack Services

3-year, 9x5, next-business-day, excluding holidays	Extends your hardware warranty coverage for quick and convenient hardware problem resolution
3-year, 13x5, same-business-day, 4-hour response coverage	Extends your hardware warranty coverage with prompt same-day service for key servers and increases equipment availability and productivity
3-year, 24x7, same-business-day, 4-hour response	Extends your hardware warranty coverage with prompt same-day service for key servers and increases availability and productivity with around-the-clock access to technical expertise and support
3-year, 24x7, 6-hour call-to-repair	Decreases hardware downtime with committed 6-hour call to repair for hardware problem resolution
3-year, Support Plus 24	Increases performance and availability with integrated 24x7 hardware and software support for complex interoperability problem resolution
3-year, Proactive 24	Mission Critical Support portfolio is an integrated hardware and software support solution designed to help you improve operational and management effectiveness of your IT environment.
3-year, Critical service	Mission Critical Support portfolio delivers comprehensive support solution for businesses that cannot tolerate downtime without significant business impact. It combines proactive and reactive services to help you meet your availability, performance and security objectives.

Leverage integrated service solutions for better business outcomes

Competitive, IT organizations need an environment that's right for today and ready to evolve as your business needs change. HP Services meets this challenge with services designed to lower your IT costs, increase availability, reduce the complexity of multi-vendor services and accelerate system implementation.

- A key to business success is an agile IT infrastructure that adapts to changing needs while keeping the business running smoothly. Maintaining predictable service levels is one of the benefits of comprehensive support services by HP. We cover the entire IT solution lifecycle, to help you design, deploy, integrate and manage an agile IT infrastructure—including convenient pre-packaged HP Care Pack Service options and custom support solutions.
- Break down costly technology silos, with our consulting and integration services that allow you to access, share and synchronize applications and data across your existing heterogeneous environment.
- Dream of having more time to focus more on your core competencies and less on day-to-day IT services?

Our outsourcing services and global IT expertise can make this dream a reality.

- To speed product implementation, consider our factory-direct capabilities. Our plug-and-play solutions are integrated, tested and shipped in a fully configured rack. Included are pre-delivery site reviews, factory installation and configuration, onsite installation and product orientation.
- In today's fast-paced business environment, your employees need to quickly assimilate new IT skills. HP can help you achieve this goal with a variety of training services, including instructor-led courses, customized onsite training and innovative remotely assisted courses.

Capitalize on your IT environment capabilities with a service partner who thoroughly understands server, storage and network technology in a multi-vendor environment. HP working in partnership with HP Authorized Channel Partners has the expertise and skill. Whether your company is a medium-size organization or a large global corporation, HP Services can help. To learn more, visit www.hp.com/services/proliantservices.

HP Financial Services: the smartest way to invest in IT

HP makes it easy on the balance sheet to put the power of the HP portfolio to work for you through HP Financial Services. We offer a complete array of leasing and financial lifecycle management services in over 50 countries around the world. We can help you transition from existing equipment to the latest technology, acquire a new solution cost-effectively and manage that solution throughout its lifecycle. Our goal is to help you increase the return on your IT investment, reduce risk and get the most from your HP solution. For more information on our Financial Services, visit www.hp.com/go/hpfinancialservices.

The right partner

If you have the right infrastructure, anything is possible. When evaluating how to grow your business and deciding what data center you need that will respond to business change quickly and confidently, look to HP. Cost per square foot or meter an issue? Need to shrink the footprint of the servers you deploy? We have a full server portfolio available. Power and cooling draining your budget? We deliver tools and solutions

to help you regulate and monitor how power is used across the infrastructure. Want the broadest range of technology choice from best-in-class IT providers? Our partners deliver technology that works best with HP products. We have the top-selling x86 servers, exceptional management capabilities and a robust portfolio of hardware and software partners to bring the right solution to you at the right time. HP...the right partner to help your business succeed.

To learn more

For more information on how ProLiant servers and infrastructure can help you lay the foundation of an Adaptive Enterprise, please contact your HP representative, authorized HP reseller, or visit www.hp.com/go/proliant.

To learn more about other HP portfolios, visit:

- Integrity: www.hp.com/go/integrityserverfamilyguide
- BladeSystem: www.hp.com/go/bladeSystem/familyguide
- StorageWorks Arrays: www.hp.com/go/storageworksfamilyguide

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