



HP ProLiant servers

Family guide



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Achieve a more efficient IT environment with ProLiant. The complete data center solutions enabled with ProLiant need fewer resources and use less energy—allowing you to run with confidence.

Shift your IT from technology that merely supports the business to technology that powers the business. 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.

Fundamental to establishing an adaptive infrastructure are your underlying platform choices. What kind of server best suits your needs? Which options will allow you to achieve the level of availability and performance required? 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, 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 as well as services and support—strengthened by our close collaboration with

world-class independent software vendors (ISVs) and systems integrators (SIs), therefore allowing you to run with the utmost confidence.

The ProLiant systems family includes:

- **HP ProLiant Modular Line (ML)**—flexible, expandable tower and rack/tower options are available for growing businesses in one- and two-socket, entry and enterprise-class feature sets.
- **HP ProLiant Density Line (DL)**—powerful servers in one-, two-, four-, and eight-socket designs are optimized for rack-mounted server environments.
- You can also consider the **HP ProLiant BladeServers (BL)**—compact and powerful, designed for the performance, management, density, and total cost of ownership (TCO) savings requirements of tomorrow's data centers delivered today.

Choose the levels of performance, availability, expandability, and manageability from the world's most comprehensive industry-standard server and options 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 environments requiring the highest RAS levels. A multi-OS ecosystem running HP-UX 11i, OpenVMS, Microsoft® Windows® Server 2003, Linux® and NonStop, the Integrity platform provides a unique combination of mission-critical availability, virtualization, and scalability.

*Source: IDC Worldwide Quarterly Server Tracker 2008 Q4, February 2009

Additionally, you could also choose from the Integrity systems family that includes:

- **HP Integrity NonStop servers**—enabling the highest levels of availability for 24x7 business solutions
- **HP Integrity servers**—spanning from entry-class to Superdomes, with unique multi-OS capabilities and leading virtualization
- **HP Integrity server blades**—bringing Integrity mission-critical capabilities to an HP BladeSystem c-Class form factor

Are you looking for ways to simplify a growing, multi-server environment? HP BladeSystem is a modular infrastructure 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, HP 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. HP covers this broad spectrum of needs.

- **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? From training and basic product support to proactive services for business-critical IT environments and selective outsourcing, our services help you realize the full potential of your technology to meet your business requirements.

- **Remote Support:** Are you spending more time solving problems than you are focusing on your business? HP Insight Remote Support delivers secure remote support for HP servers and storage 24x7. With remote monitoring, automated notification, and accurate resolution, you can gain better control of your infrastructure, do more with less, and help your business stay up and running.
- **Management software:** Do you need to get more out of every hour, watt, and dollar you invest in your HP infrastructure—both physical and virtual? HP Insight software provides the most efficient, in-depth way to understand, manage, and optimize your technology infrastructure—in real-time and over-time.
- **Operating systems:** Do you need broad support for Windows, Linux and UNIX® x86 operating systems? Our extensive OS testing, qualification and certification give you the choice and flexibility to deploy a broad range of Windows, Linux and UNIX x86 operating systems with confidence.
- **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 complete your infrastructure? Our server options—including memory, drives, processors, racks, operating system software, and power and cooling features strengthen the foundation of your data center with high caliber products that are easy to maintain and tailored for ProLiant, Integrity and StorageWorks, giving you confidence in your whole infrastructure.

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 ML110 G5

Perfect first server for growing business

HP ProLiant ML115 G5

Perfect first server for growing business

HP ProLiant DL120 G5

Cost-optimized server for single applications

| | | | |
|--------------------------------------|---|--|---|
| Number of processors | 1 | 1 | 1 |
| Maximum number of cores | 4 | 4 | 4 |
| Processors supported | <p>Quad-Core Intel® Xeon® processors:</p> <p>X3360: 2.83 GHz, 1333 MHz, 95W</p> <p>X3330: 2.66 GHz, 1333 MHz, 95W</p> <p>X3220: 2.40 GHz, 1066 MHz, 95W</p> <p>X3210: 2.13 GHz, 1066 MHz, 95W</p> <p>Dual-Core Intel Xeon processors:</p> <p>E3120: 3.16 GHz, 1333 MHz, 65W</p> <p>E3110: 3.00 GHz, 1333 MHz, 65W</p> <p>Dual-Core Intel Pentium® processor:</p> <p>E2160: 1.80 GHz, 800 MHz, 65W</p> <p>Single-Core Intel Celeron® processors:</p> <p>440: 2.00 GHz, 800 MHz, 35W</p> <p>420: 1.60 GHz, 800 MHz, 35W</p> | <p>Quad-Core AMD Opteron™ processors:</p> <p>1354: 2.20 GHz, 800 MHz</p> <p>1352: 2.10 GHz, 800 MHz</p> <p>Dual-Core AMD Opteron processors:</p> <p>1222: 3.00 GHz, 1000 MHz</p> <p>1218: 2.60 GHz, 1000 MHz</p> <p>1214: 2.20 GHz, 1000 MHz</p> <p>Dual-Core AMD Athlon processor:</p> <p>4450B: 2.30 GHz, 2000 MHz</p> <p>Single-Core AMD Sempron™ processor:</p> <p>1640B: 2.7 GHz, 2000 MHz</p> <p>LE 1250: 2.20 GHz, 1600 MHz</p> | <p>Quad-Core Intel Xeon processors:</p> <p>X3350: 2.66 GHz, 1333 MHz, 95W</p> <p>X3320: 2.50 GHz, 1333 MHz, 95W</p> <p>X3210: 2.13 GHz, 1066 MHz, 95W</p> <p>Dual-Core Intel Xeon processors:</p> <p>E3110: 3.00 GHz, 1333 MHz, 65W</p> <p>3065: 2.33 GHz, 1333 MHz, 65W</p> <p>Dual-Core Intel Core2 Duo processor:</p> <p>E4600: 2.40 GHz, 800 MHz, 65W</p> <p>Dual-Core Intel Pentium processor:</p> <p>E2160: 1.80 GHz, 800 MHz, 65W</p> <p>Single-Core Intel Celeron processors:</p> <p>440: 2.00 GHz, 800 MHz, 35W</p> <p>420: 1.60 GHz, 800 MHz, 35W</p> |
| Cache | <p>12 MB L2: Xeon X3360</p> <p>8 MB L2: Xeon X3210, X3220</p> <p>6 MB L2: Xeon X3330, E3120, E3110</p> <p>1 MB L2: Pentium E2160</p> <p>512 KB L2: Celeron 440, Celeron 420</p> | <p>2 MB L2: Opteron Series</p> <p>1 MB L2: Athlon 4450B</p> <p>512 KB L2: Athlon 1640B and Sempron LE 1250</p> | <p>8 MB L2: Xeon 3200 Series</p> <p>6 MB L2: Xeon X3320, E3110</p> <p>4 MB L2: Xeon 3000 Series</p> <p>2 MB L2: Core2</p> <p>1 MB L2: Pentium</p> <p>512 KB L2: Celeron</p> |
| Maximum memory | 8 GB | 8 GB | 8 GB |
| Drives supported | <p>Up to 4:</p> <p>Non-hot plug LFF SAS 15K 450/300/146 GB</p> <p>Non-hot plug LFF SAS 10K 400 GB</p> <p>Non-hot plug LFF SATA 7.2K 750/500/250/160 GB</p> | <p>Up to 4:</p> <p>Non-hot plug LFF SAS 15K 450/300/146 GB</p> <p>Non-hot plug LFF SAS 10K 400 GB</p> <p>Non-hot plug LFF SATA 7.2K 750/500/250/160 GB</p> | <p>Up to 2:</p> <p>Non-hot plug LFF SAS 15K 450/300/146/72 GB</p> <p>Non-hot plug LFF SATA 7.2K 750/500/250/160 GB</p> |
| Maximum internal storage | 1.8 TB SAS; 3.0 TB SATA | 1.8 TB SAS; 3.0 TB SATA | 1.5 TB |
| Form factor | Tower with rack-mount option kit | Tower with rack-mount option kit | 1U rack |
| Warranty (parts/labor/onsite) | 1-year/1-year/1-year; 3-year/1-year/1-year (Asia Pacific region, except Japan) | 1-year/1-year/1-year; 3-year/1-year/1-year (Asia Pacific region, except Japan) | 1-year/1-year/1-year |

HP related offerings

| | | | | |
|-----------------|------------------|---|---|---|
| Services | Minimum Enhanced | 3-year, 9x5, next-business-day response 3-year, 13x5 same-day, 4-hour response | 3-year, 9x5, next-business-day response 3-year, 13x5 same-day, 4-hour response | 3-year, 9x5, next-business-day response 3-year, 13x5, same-business-day, 4-hour response |
| Storage | | DAT 160 internal USB tape drive Smart Array E200 Controller | DAT 160 internal USB tape drive Smart Array E200 Controller | 50/60/70 Modular Smart Array DAT 160 USB tape drive Smart Array E200 Controller |
| Options | | 2 GB Unbuffered PC2-6400 ECC Memory | 2 GB Unbuffered PC2-6400 ECC Memory | 1 GB Unbuffered PC2-6400 Memory |
| Software | | Management: Lights-Out 100i Advanced Operating systems: Windows, Linux | Management: Lights-Out 100i Advanced Operating systems: Windows, Linux | Management: Lights-Out 100i Advanced Operating systems: Windows, Linux |

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 DL160 G6
Ideal server for Web 2.0, general-purpose solutions and high-performance computing



HP ProLiant DL165 G5
Server for compute-intensive environments

| | | |
|--------------------------------------|--|---|
| Number of processors | 1–2 | 1–2 |
| Maximum number of cores | 8 | 8 |
| Processors supported | E5504: 2.00 GHz, 80W E5520: 2.26 GHz, 80W L5520: 2.26 GHz, 60W E5540: 2.53 GHz, 80W X5550: 2.67 GHz, 95W X5570: 2.93 GHz, 95W | Quad-Core AMD Opteron processors: Model 2384: 2.70 GHz, 75W Model 2380: 2.50 GHz, 75W Model 2376: 2.30 GHz, 75W Model 2360 SE: 2.50 GHz, 105W Model 2356: 2.30 GHz, 75W Model 2354: 2.20 GHz, 75W Model 2352: 2.10 GHz, 75W Model 2346 HE: 1.80 GHz, 55W Model 2344 HE: 1.70 GHz, 55W Model 2374 HE: 2.2 GHz, 55W |
| Cache | 8 MB (1 x 8 MB) shared L3 cache (all processors but those listed below) 4 MB (1 x 4 MB) shared L3 cache (E5504) | 512 KB L2 per core, 2 MB shared L3 (234x–236x) or 6 MB shared L3 Cache (237x–238x) |
| Maximum memory | 144 GB RDIMM 24 GB UDIMM | 64 GB |
| Drives supported | Up to 4: Hot plug LFF SAS 15K 450/300/146/72/36 GB Hot plug LFF SAS 7.2K 1 TB/750 GB Non-hot plug LFF SATA 7.2K 750/500/250/160 GB Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB OR Up to 8: Hot plug SFF SAS 10K 300/146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 250/120 GB | Up to 4: Non-hot plug LFF SATA 7.2K 750/500/250/160 GB Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB Hot plug LFF SAS 15K 450/300/146/36 GB Hot plug LFF SAS 7.2K 1 TB/750 GB |
| Maximum internal storage | 4.0 TB | 4.0 TB |
| Form factor | 1U rack | 1U rack |
| Warranty (parts/labor/onsite) | 3 year parts | 1-year/1-year/1-year |

HP related offerings

| | | | |
|-----------------|---------------------|--|---|
| Services | Minimum Enhanced | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7 same-day, 4-hour response | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7 same-day, 4-hour response |
| Storage | | 50/60/70 Modular Smart Array LTO-2 Ultrium 448 SAS tape drive Smart Array P410 Controller | 50/60/70 Modular Smart Array LTO-2 Ultrium 448 SAS tape drive Smart Array P212 Controller |
| Options | | Graphics Controller FX3700 0x1x8 Server Console Switch | Hot plug HDD backplane for third and fourth drive support High Performance 1200W Power Supply* |
| Software | | Management: ProLiant Onboard Administrator (powered by Lights-Out 100i Advanced) Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support | Management: ProLiant Onboard Administrator (powered by Lights-Out 100i Advanced) Operating systems: Windows, Linux, Solaris |

* Must also order power supply backplane.

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 DL165 G5p

Ideal server for scale out, general purpose, and clustered environments

New



HP ProLiant ML150 G6

Expandable and affordable for growing businesses

| | | |
|--------------------------------------|--|--|
| Number of processors | 1–2 | 1–2 |
| Maximum number of cores | 8 | 8 |
| Processors supported | Quad-Core AMD Opteron processors: Model 2374 HE: 2.2 GHz, 55W Model 2376 HE: 2.2 GHz, 55W Model 2376: 2.30 GHz, 75W Model 2380: 2.50 GHz, 75W Model 2384: 2.70 GHz, 75W | Quad-Core Intel Xeon processors: E5540: 2.53 GHz, 1066 MHz, 80W E5530: 2.40 GHz, 1066 MHz, 80W E5520: 2.26 GHz, 1066 MHz, 80W E5506: 2.13 GHz, 800 MHz, 80W E5504: 2.00 GHz, 800 MHz, 80W Dual-Core Intel Xeon processors: E5502: 1.86 GHz, 800 MHz, 80W |
| Cache | 512 KB L2 per core, 2 MB shared L3 (234x–236x) or 6 MB shared L3 Cache (237x–238x) | 8 MB (1 x 8 MB) L3 cache: (all processors but those listed below) 4 MB (1 x 4 MB) L3 cache: (E5506, E5504, E5502) |
| Maximum memory | 128 GB | 48 GB RDIMM 24 GB UDIMM |
| Drives supported | Up to 4: Non-hot plug LFF SATA 7.2K 750/500/250/160 GB Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB Hot plug LFF SAS 15K 450/300/146/36 GB Hot plug LFF SAS 7.2K 1 TB/750 GB | Up to 8 hot plug drives: Hot plug LFF SAS 15K 450/300/146 GB Hot plug LFF SAS 10K 400 GB Hot plug LFF SAS 7.2K 1 TB/750 GB Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB Up to 4 non-hot plug drives: Non-hot plug LFF SAS 15K 450/300/146 GB Non-hot plug LFF SAS 10K 400 GB Non-hot plug LFF SATA 7.2K 750/500/250/160 GB |
| Maximum internal storage | 4.0 TB | 8.0 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 only, excluding Japan) |

HP related offerings

| | | | |
|-----------------|---------------------|--|---|
| Services | Minimum Enhanced | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7 same-day, 4-hour response | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7 same-day, 4-hour response |
| Storage | | 50/60/70 Modular Smart Array LTO-2 Ultrium 448 SAS tape drive Smart Array P212 Controller | 50/60/70 Modular Smart Array DAT 160 internal USB tape drive Smart Array P410 Controller |
| Options | | Hot plug HDD backplane for third and fourth drive support High Performance 1200W Power Supply (Note: must also order power supply backplane) | 750W Hot Plug Redundant Power Supply kit Lights-Out 100 Advanced Pack TPM 1.2 Module Support |
| Software | | Management: HP ProLiant Onboard Administrator (powered by HP Lights-Out 100i Advanced) Operating systems: Windows, Linux, Solaris | Management: HP ProLiant Onboard Administrator (powered by HP Lights-Out 100i Advanced) Operating systems: Windows, Linux Automated Support: Insight Remote Support |

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 DL180 G6

Flexible and reliable value server for growing businesses needing expandability



HP ProLiant DL185 G5

High-capacity server ideal for compute-intensive and scale-out applications

| | | |
|--------------------------------------|--|--|
| Number of processors | 1–2 | 1–2 |
| Maximum number of cores | 8 | 8 |
| Processors supported | Quad Core Xeon E5540: 2.53 GHz, 1066 MHz, 80W E5520: 2.26 GHz, 1066 MHz, 80W L5520: 2.26 GHz, 1066 MHz, 60W E5504: 2.00 GHz, 800 MHz, 80W | Quad-Core AMD Opteron processors: Model 2384: 2.70 GHz, 75W Model 2380: 2.50 GHz, 75W Model 2376: 2.30 GHz, 75W Model 2356: 2.30 GHz, 75W Model 2354: 2.20 GHz, 75W Model 2352: 2.10 GHz, 75W Model 2346HE: 1.80 GHz, 55W Model 2344HE: 1.70 GHz, 55W Dual-Core AMD Opteron: Model 2222: 3.00 GHz, 95W Model 2218: 2.60 GHz, 95W Model 2212: 2.00 GHz, 95W |
| Cache | 8 MB (1 x 8 MB) L3 cache: (all but processors listed below) 4 MB (1 x 4 MB) L3 cache: (E5504) | 512 KB L2 per core, 2 MB shared L3 (234x–236x) or 6 MB shared L3 Cache (237x–238x) |
| Maximum memory | 96 GB RDIMM 24 GB UDIMM | 32 GB |
| Drives supported | Up to 14: Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB Hot plug LFF SAS 15K 450/300/146/72 GB Hot plug LFF SAS 7.2K 1 TB/750 GB OR Up to 25: Hot plug SFF SAS 10K 300/146/72/36 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 250/120 GB | Up to 14: Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB Hot plug LFF SAS 15K 450/300/146/72 GB Hot plug LFF SAS 7.2K 1 TB/750 GB |
| Maximum internal storage | 14 TB SATA, 7.5 TB SAS | 14 TB SATA, 6.3 TB SAS |
| Form factor | 2U rack | 2U rack |
| Warranty (parts/labor/onsite) | 3-year parts | 1-year/1-year/1-year |

HP related offerings

| | | | |
|-----------------|---------------------|--|---|
| Services | Minimum Enhanced | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7 same-day, 4-hour response | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7 same-day, 4-hour response |
| Storage | | 50/60/70 Modular Smart Array LTO-3 Ultrium 920 SAS tape drive Smart Array P410 Controller | 50/60/70 Modular Smart Array LTO-3 Ultrium 920 SAS tape drive Smart Array P410 controller |
| Options | | Hot Plug Redundant Power Supply Kit 8 GB Dual-Rank PC3-8500R Memory | 8 GB Registered PC2-5300 Low Power Kit Hot Plug Redundant Power Supply Kit 750W |
| Software | | Management: ProLiant Onboard Administrator (powered by Lights-Out 100i Advanced) Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support | Management: ProLiant Onboard Administrator (powered by Lights-Out 100i Advanced) Operating systems: Windows, Linux, Solaris |

HP ProLiant servers—300 series

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

Midrange

New



HP ProLiant ML310 G5p
Engineered to meet the needs of corporate small sites



HP ProLiant DL320 G5p
Entry compute power with enterprise management for remote or space-constrained installations

| | | |
|--------------------------------------|---|--|
| Number of processors | 1 | 1 |
| Maximum number of cores | 4 | 4 |
| Processors supported | <p>Quad-Core Intel Xeon processors: X3370: 3.0 GHz, 1333 MHz, 95W X3360: 2.83 GHz, 1333 MHz, 95W X3330: 2.66 GHz, 1333 MHz, 95W X3220: 2.40 GHz, 1066 MHz, 95W</p> <p>Quad-Core Intel Core2 Quad processor: Q9400: 2.66 GHz, 1333 MHz, 95W</p> <p>Dual-Core Intel Xeon processors: E3120: 3.16 GHz, 1333 MHz, 65W X3075: 2.66 GHz, 1333 MHz, 65W X3065: 2.33 GHz, 1333 MHz, 65W</p> <p>Dual-Core Intel Core2 Duo processor: E8400: 3.00 GHz, 1333 MHz, 65W E6400: 2.13 GHz, 1066 MHz, 65W</p> <p>Dual-Core Intel Pentium processor: E2160: 1.80 GHz, 800 MHz, 65W</p> <p>Single-Core Intel Celeron processor: 440: 2.00 GHz, 800 MHz, 35W 420: 1.60 GHz, 800 MHz, 35W</p> | <p>Quad-Core Intel Xeon processors: X3360: 2.83 GHz, 1333 MHz, 95W X3350: 2.66 GHz, 1333 MHz, 95W X3320: 2.50 GHz, 1333 MHz, 95W X3220: 2.40 GHz, 1066 MHz, 95W X3210: 2.13 GHz, 1066 MHz, 95W</p> <p>Dual-Core Intel Xeon processors: E3110: 3.00 GHz, 1333 MHz, 65W 3075: 2.66 GHz, 1333 MHz, 65W 3065: 2.33 GHz, 1333 MHz, 65W</p> <p>Dual-Core Intel Core2 Duo processor: E4600: 2.40 GHz, 800 MHz, 65W E4400: 2.00 GHz, 800 MHz, 65W</p> <p>Dual-Core Intel Pentium processor: E2160: 1.80 GHz, 800 MHz, 65W</p> <p>Single-Core Intel Celeron processors: 440: 2.00 GHz, 800 MHz, 35W 420: 1.60 GHz, 800 MHz, 35W</p> |
| Cache | <p>12 MB L2: Xeon X3370, X3360 8 MB L2: Xeon X3220 6 MB L2: X3330, E3120, Q9400, E8400 4 MB L2: Xeon 3000 Series 2 MB L2: E6400 1 MB L2: Pentium 512 KB L2: Celeron</p> | <p>12 MB L2: Xeon X3360, X3350 8 MB L2: Xeon 3200 Series 6 MB L2: Xeon X3320, E3110 4 MB L2: Xeon 3000 Series 2 MB L2: Core2 1 MB L2: Pentium 512 KB L2: Celeron</p> |
| Maximum memory | 8 GB | 8 GB |
| Drives supported | <p>Up to 4: Hot plug LFF SAS 15K 450/300/146 GB Hot plug LFF SAS 10K 400 GB Hot plug LFF SAS 7.2K 1 TB/750 GB Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB</p> | <p>Up to 4: Hot plug LFF SAS 15K 450/300/146/72/36 GB Hot plug LFF SAS 7.2K 1 TB/750 GB Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB</p> |
| Maximum internal storage | 4.0 TB | 4.0 TB |
| Form factor | Tower or 5U rack | 1U 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 |

HP related offerings

| | | |
|-----------------|---|--|
| Services | <p>Minimum Enhanced</p> <p>3-year, 9x5, next business-day response 3-year, 24x7, same-business-day, 4-hour response</p> | <p>3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7, same-business-day, 4-hour response</p> |
| Storage | <p>50/60/70 Modular Smart Array LTO-2 Ultrium 448 SAS internal tape drive Smart Array P212 Controller</p> | <p>50/60/70 Modular Smart Array LTO-2 Ultrium 448 SAS tape drive Smart Array P212 Controller</p> |
| Options | <p>T1500 Uninterruptible Power System E200 Controller with BBWC and 128 MB upgrade</p> | <p>NC360T PCI Express Dual-port Gigabit Server Adapter Modular Power Distribution Unit</p> |
| Software | <p>Management: Insight Control suite Operating systems: Windows, Linux Automated Support: Insight Remote Support</p> | <p>Management: Insight Control suite Operating systems: Windows, Linux Automated Support: Insight Remote Support</p> |

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 DL320s
Low-cost, high-capacity, storage enhanced with dual-core performance



HP ProLiant ML350 G6
Best price-performance solution, ideal for expanding businesses, dedicated work groups and growing business implementations



HP ProLiant DL360 G6
Reliable compute power, iLO advanced remote management and fault tolerance for space-constrained installations

| | | | |
|--------------------------------------|---|---|---|
| Number of processors | 1 | 1-2 | 1-2 |
| Maximum number of cores | 2 | 8 | 8 |
| Processors supported | Dual-Core Intel Xeon processors: E6400: 2.13 GHz, 1066 MHz, 65W | Quad Core Xeon processors: X5570: 2.93 GHz, 1333 MHz, 95W X5560: 2.80 GHz, 1333 MHz, 95W X5550: 2.66 GHz, 1333 MHz, 95W E5540: 2.53 GHz, 1066 MHz, 80W E5530: 2.40 GHz, 1066 MHz, 80W E5520: 2.26 GHz, 1066 MHz, 80W L5520: 2.26 GHz, 1066 MHz, 60W L5506: 2.13 GHz, 800 MHz, 60W E5506: 2.13 GHz, 800 MHz, 80W E5504: 2.00 GHz, 800 MHz, 80W Dual Core Xeon processor: E5502: 1.86 GHz, 800 MHz, 80W | Quad Core Xeon processors: X5570: 2.93 GHz, 1333 MHz, 95W X5560: 2.80 GHz, 1333 MHz, 95W X5550: 2.66 GHz, 1333 MHz, 95W E5540: 2.53 GHz, 1066 MHz, 80W E5530: 2.40 GHz, 1066 MHz, 80W L5520: 2.26 GHz, 1066 MHz, 80W E5520: 2.26 GHz, 1066 MHz, 60W L5506: 2.13 GHz, 800 MHz, 60W E5506: 2.13 GHz, 800 MHz, 80W E5504: 2.00 GHz, 800 MHz, 80W Dual Core Xeon processor: E5502: 1.86 GHz, 800 MHz, 80W |
| Cache | 2 MB L2 cache: E6400 | 8 MB (1 x 8 MB) L3 cache: (all processors but those listed below) 4 MB (1 x 4 MB) L3 cache: E5506, L5506, E5504, E5502 | 8 MB (1 x 8 MB) L3 cache: (all processors supported but those listed below) 4 MB (1 x 4 MB): E5506, L5506, E5504, E5502 |
| Maximum memory | 8 GB | 144 GB RDIMM 24 GB UDIMM | 144 GB RDIMM 24 GB UDIMM |
| Drives supported | Up to 14: Hot plug LFF SAS 15K 450/300/146/72/36 GB Hot plug LFF SAS 7.2K 1 TB/750 GB Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB | Up to 8: Hot plug LFF SAS 7.2K 1 TB/750 GB Hot plug LFF SAS 10K 400 GB Hot plug LFF SAS 15K 450/300/146/72 GB Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB Up to 16: Hot plug SFF SAS 10K 300/146/72 GB Hot plug SFF SAS 15K 72 GB Hot plug SFF SATA 5.4K 250/120 GB | Up to 8: Hot plug SFF SAS 10K 300/146/72/36 GB Hot plug SFF SAS 15K 146/72/36 GB Hot plug SFF SATA 5.4K 250/120 GB |
| Maximum internal storage | 14 TB | 8.0 TB | 2.4 TB |
| Form factor | 2U rack | Tower or 5U rack | 1U rack |
| Warranty (parts/labor/onsite) | 3-year/1-year/1-year | 3-year/3-year/3-year | 3-year/3-year/3-year |

HP related offerings

| | | | | |
|-----------------|---------------------|---|--|--|
| Services | Minimum Enhanced | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7, same-business-day, 4-hour response | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7, same-business-day, 4-hour response | 3-year, 13x5, same-business-day, 4-hour response 3-year, 24x7, same-business-day, 4-hour response |
| Storage | | 50/60/70 Modular Smart Array LTO-3 Ultrium 920 SAS tape drive Smart Array P400 Controller | 50/60/70 Modular Smart Array LTO-3 Ultrium 920 SAS internal tape drive Smart Array P410i Controller (standard) | 50/60/70/2000 Modular Smart Array DAT 160 USB tape drive Smart Array P410i Controller (standard) |
| Options | | 0x2x16 Server Console Switch with virtual media P400 Controller with BBWC and 256 MB upgrade | 4 GB Quad-Rank PC3-8500R Memory NC373T PCI Express Multifunction Gigabit Server Adapter | TFT7600 Monitor 10000 G2 Series Rack |
| Software | | Management: Insight Control suite Operating systems: Windows, Linux Automated Support: Insight Remote Support | Management: Insight Control suite Operating systems: Windows, Linux Automated Support: Insight Remote Support | Management: Insight Control suite Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support |

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 DL365 G5

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



HP ProLiant DL370 G6

New 4U rack server optimized for virtualization and consolidation environments, well-suited for deployment in growing businesses, remote office sites, or data centers



HP ProLiant ML370 G6

Redesigned 4U tower expandable server optimized for virtualization and consolidation environments, well-suited for deployment in growing businesses, remote office sites, or datacenters

| | | | |
|--------------------------------------|---|--|--|
| Number of processors | 1–2 | 1–2 | 1–2 |
| Maximum number of cores | 8 | 8 | 8 |
| Processors supported | Quad-Core AMD Opteron processors: Model 2384: 2.7 GHz, 75W Model 2382: 2.6 GHz, 75W Model 2378: 2.4 GHz, 75W Model 2356: 2.3 GHz, 75W Model 2354: 2.2 GHz, 75W Model 2352: 2.1 GHz, 75W Model 2346HE: 1.8 GHz, 55W | Quad-Core Intel® Xeon® processors: X5570: 2.93 GHz, 1333 MHz, 95W X5560: 2.80 GHz, 1333 MHz, 95W X5550: 2.66 GHz, 1333 MHz, 95W E5540: 2.53 GHz, 1066 MHz, 80W E5530: 2.40 GHz, 1066 MHz, 80W L5520: 2.26 GHz, 1066 MHz, 60W E5520: 2.26 GHz, 1066 MHz, 80W E5506: 2.13 GHz, 800 MHz, 80W E5504: 2.00 GHz, 800 MHz, 80W Dual-Core Intel® Xeon® processor: E5502: 1.86 GHz, 800 MHz, 80W | Quad-Core Intel® Xeon® processors: X5570: 2.93 GHz, 1333 MHz, 95W X5560: 2.80 GHz, 1333 MHz, 95W X5550: 2.66 GHz, 1333 MHz, 95W E5540: 2.53 GHz, 1066 MHz, 80W E5530: 2.40 GHz, 1066 MHz, 80W L5520: 2.26 GHz, 1066 MHz, 60W E5520: 2.26 GHz, 1066 MHz, 80W E5506: 2.13 GHz, 800 MHz, 80W E5504: 2.00 GHz, 800 MHz, 80W Dual-Core Intel® Xeon® processor: E5502: 1.86 GHz, 800 MHz, 80W |
| Cache | 512 KB L2 cache and 2 MB L3 cache | 8 MB (1 x 8 MB) L3 cache: (all processors but those listed below) 4 MB (1 x 4 MB) L3 cache: (E5506, E5504, E5502) | 8 MB (1 x 8 MB) L3 cache: (all processors but those listed below) 4 MB (1 x 4 MB) L3 cache: (E5506, E5504, E5502) |
| Maximum memory | 32 GB | 144 GB RDIMM 24 GB UDIMM | 144 GB RDIMM 24 GB UDIMM |
| Drives supported | Up to 6: Hot plug SFF SAS 10K 300/146/72/36 GB Hot plug SFF SAS 15K 146/72/36 GB Hot plug SFF SATA 5.4K 250/120 GB | Up to 14: Hot plug LFF SAS 7.2 K 1 TB/750 GB Hot plug LFF SAS 10K 400 GB Hot plug LFF SAS 15 K 450/300/146/72 GB Hot plug LFF SATA 7.2K 1 TB/750/500 GB Up to 24: Hot plug SFF SAS 10K 300/146/72 GB Hot plug SFF SAS 15K 72 GB Hot plug SFF SATA 5.4 K 250/120 GB | Up to 14: Hot plug LFF SAS 7.2 K 1 TB/750 GB Hot plug LFF SAS 10K 400 GB Hot plug LFF SAS 15 K 450/300/146/72 GB Hot plug LFF SATA 7.2K 1 TB/750/500 GB Up to 24: Hot plug SFF SAS 10K 300/146/72 GB Hot plug SFF SAS 15K 72 GB Hot plug SFF SATA 5.4 K 250/120 GB |
| Maximum internal storage | 1.8 TB | 7.20 TB SAS, 14 TB SATA | 7.20 TB SAS, 14 TB SATA |
| Form factor | 1U rack | 4U rack | Tower |
| Warranty (parts/labor/onsite) | 3-year/3-year/3-year | 3-year/3-year/3-year | 3-year/3-year/3-year |

HP related offerings

| | | | | |
|-----------------|------------------|--|--|--|
| Services | Minimum Enhanced | 3-year, 24x7, same-business-day, 4-hour response 3-year Support Plus 24 | 3-year, 24x7, same-business-day, 4-hour response 3-year Support Plus 24 | 3-year, 24x7, same-business-day, 4-hour response 3-year Support Plus 24 |
| Storage | | 50/60/70/2000 Modular Smart Array DAT 160 USB tape drive Smart Array P410 Controller | 50/60/70/2000 Modular Smart Array LTO-4 Ultrium 1760 SAS internal tape drive Smart Array P410i Controller (standard) | 50/60/70/2000 Modular Smart Array LTO-4 Ultrium 1760 SAS internal tape drive Smart Array P410i Controller (standard) |
| Options | | NC373T PCI Express Multifunction Gigabit Server Adapter R3000 Uninterruptible Power System | T1500 Uninterruptible Power System NC382T PCI Express Dual-port Multifunction Gigabit Server Adapter | T1500 Uninterruptible Power System NC382T PCI Express Dual-port Multifunction Gigabit Server Adapter |
| Software | | Management: Insight Control suite Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support | Management: Insight Control suite Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support | Management: Insight Control suite Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support |

HP ProLiant servers—300 series

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

Midrange

New

Updated



HP ProLiant DL380 G6

Affordable server with robust features for growing businesses and remote sites



HP ProLiant DL385 G5p

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

| | | |
|--------------------------------------|---|--|
| Number of processors | 1–2 | 1–2 |
| Maximum number of cores | 8 | 8 |
| Processors supported | <p>Quad Core Xeon processors:</p> <p>X5570: 2.93 GHz, 1333 MHz, Turbo: 2/2/3/3</p> <p>X5560: 2.80 GHz, 1333 MHz, Turbo: 2/2/3/3</p> <p>X5550: 2.66 GHz, 1333 MHz, Turbo: 2/2/3/3</p> <p>E5540: 2.53 GHz, 1066 MHz, Turbo: 1/1/2/2</p> <p>E5530: 2.40 GHz, 1066 MHz, Turbo: 1/1/2/2</p> <p>L5520: 2.26 GHz, 1066 MHz, Turbo: 1/1/2/2</p> <p>E5520: 2.26 GHz, 1066 MHz, Turbo: 1/1/2/2</p> <p>L5506: 2.13 GHz, 800 MHz, Turbo: N/A</p> <p>E5506: 2.13 GHz, 800 MHz, Turbo: N/A</p> <p>E5504: 2.00 GHz, 800 MHz, Turbo: N/A</p> <p>Dual Core Xeon processor:</p> <p>E5502: 1.86 GHz, 800 MHz, Turbo: N/A</p> | <p>Quad-Core AMD Opteron processors:</p> <p>Model 2384: 2.70 GHz, 75W</p> <p>Model 2382: 2.60 GHz, 75W</p> <p>Model 2378: 2.40 GHz, 75W</p> <p>Model 2376 HE: 2.3 GHz, 55W</p> <p>Model 2372 HE: 2.1 GHz, 55W</p> |
| Cache | 8 MB (1 x 8 MB) L3 cache: (all processors but those listed below) 4 MB (1 x 4 MB) L3 cache: E5506, L5506, E5504, E5502 | 6 MB L3 cache |
| Maximum memory | 144 GB RDIMM 24 GB UDIMM | 128 GB |
| Drives supported | <p>Up to 8 (16 with optional second SAS drive cage*):</p> <p>Hot plug SFF SAS 10K 300/146/72/36 GB</p> <p>Hot plug SFF SAS 15K 146/72/36 GB</p> <p>Hot plug SFF SATA 5.4K 250/120 GB</p> <p>Up to 6:</p> <p>Hot plug LFF SAS 15K 450/300/146/72/36 GB</p> <p>Hot plug LFF SAS 7.2K 1 TB/750 GB</p> <p>Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB</p> | <p>Up to 8 (16 with optional second SAS drive cage*):</p> <p>Hot plug SFF SAS 10K 300/146/72/36 GB</p> <p>Hot plug SFF SAS 15K 146/72/36 GB</p> <p>Hot plug SFF SATA 5.4K 250/120 GB</p> <p>Up to 6:</p> <p>Hot plug LFF SAS 15K 450/300/146/72/36 GB</p> <p>Hot plug LFF SAS 7.2K 1 TB/750 GB</p> <p>Hot plug LFF SATA 7.2K 1 TB/750/500/250/160 GB</p> |
| Maximum internal storage | 2.4 TB (4.8 TB with optional second SAS drive cage*) 6 TB (with LFF optional drive cage) | 2.4 TB SFF (4.8 TB with optional second SAS drive cage*) 6 TB (with LFF optional drive cage) |
| 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 | <p>Minimum: 3-year, 24x7, same-business-day 4-hour response</p> <p>Enhanced: 3-year, 24x7 call-to-repair</p> | <p>3-year, 24x7, same-business-day 4-hour response</p> <p>3-year, 24x7 call-to-repair</p> |
| Storage | 50/60/70/2000 Modular Smart Array RDX Backup System Smart Array P410i Controller (standard) | 50/60/70 Modular Smart Array LTO-3 Ultrium 920 SAS tape drive Smart Array P410 Controller |
| Options | NC364T PCI Express Quad-port Gigabit Server Adapter 2x1x16 IP Console Switch with Virtual Media PCI Express | 8 GB Registered PC2-5300 Memory Dual Rank Memory TFT7600 Monitor |
| Software | <p>Management: Insight Control suite</p> <p>Operating systems: Windows, Linux, Solaris</p> <p>Automated Support: Insight Remote Support</p> | <p>Management: Insight Control suite</p> <p>Operating systems: Windows, Linux, Solaris</p> <p>Automated Support: Insight Remote Support</p> |

* Second drive cage requires a storage controller.

HP ProLiant servers—500 and 700 series

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

High-end



HP ProLiant DL580 G5
Enterprise-strength, performance and scalability in a rack-optimized package



HP ProLiant DL585 G5
Featuring AMD quad-core processors for even more performance and scalability



HP ProLiant DL785 G5
Delivering leading headroom and expandability for x86 virtualization and enterprise applications

| | | | |
|--------------------------------------|--|---|--|
| Number of processors | 1–4 | 1–4 | 4 or 8 |
| Maximum number of cores | 24 | 16 | 32 |
| Processors supported | 6-core Intel Xeon processors: X7460: 2.67 GHz, 16 MB L3 L7455: 2.13 GHz, 12 MB L3 E7450: 2.40 GHz, 12 MB L3 Quad-core Intel Xeon processors: E7440: 2.40 GHz, 16 MB L3 E7430: 2.13 GHz, 12 MB L3 E7420: 2.13 GHz, 8 MB L3 X7350: 2.93 GHz, 2 x 4 MB L2 E7340: 2.40 GHz, 2 x 4 MB L2 E7330: 2.40 GHz, 2 x 3 MB L2 E7320: 2.13 GHz, 2 x 2 MB L2 E7310: 1.60 GHz, 2 x 2 MB L2 L7345: 1.86 GHz, 2 x 4 MB L2 Dual-core Intel Xeon processors: E7220: 2.93 GHz, 2 x 4 MB L2 | Quad-Core AMD Opteron processors: 8386 SE: 2.8 GHz 8384: 2.7 GHz 8382: 2.6 GHz 8380: 2.5 GHz 8378: 2.4 GHz 8360 SE: 2.5 GHz 8358 SE: 2.4 GHz 8376 HE: 2.3 GHz 8356: 2.3 GHz 8354: 2.2 GHz 8347 HE: 1.9 GHz | Quad-Core AMD Opteron Processors: 8384: 2.7 GHz 8380: 2.5 GHz 8378: 2.4 GHz 8354: 2.20 GHz 8356: 2.30 GHz 8358 SE: 2.40 GHz 8360 SE: 2.50 GHz |
| Cache | Up to 16 MB L3 | Up to 6 MB L3 | Up to 6 MB L3 |
| Maximum memory | 256 GB with 32 x 8 GB DIMMs | 256 GB using 32 x 8 GB DIMMs | 512 GB using 64 x 8 GB DIMMs |
| Drives supported | Up to 16: Hot plug SFF SAS 10K 300/146/72 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/250 GB | Up to 8: Hot plug SFF SAS 10K 300/146/72 GB Hot plug SFF SAS 15K 72/36 GB Hot plug SFF SATA 5.4K 120/250 GB | Up to 16 (8 standard + 8 optional): Hot plug SFF SAS 10K 300/146/72/36 GB Hot plug SFF SAS 15K 72/36 GB |
| Maximum internal storage | 4.8 TB | 2.4 TB | 2.4 TB |
| Form factor | 4U rack | 4U rack | 7U rack |
| Warranty (parts/labor/onsite) | 3-year/3-year/3-year | 3-year/3-year/3-year | 3-year/3-year/3-year |

HP related offerings

| | | | | |
|-----------------|------------------|--|--|--|
| Services | Minimum Enhanced | 3-year, 24x7 call-to-repair Proactive Select | 3-year, 24x7 call-to-repair Proactive Select | 3-year, Proactive 24 3-year, Critical Service |
| Storage | | 50/60/70/2000 Modular Smart Array LTO-4 Ultrium 1760 SAS internal tape drive Smart Array P410 Controller | 50/60/70/2000 Modular Smart Array LTO-4 Ultrium 1760 SAS tape drive Smart Array P410 Controller | 50/60/70/2000 Modular Smart Array LTO-4 Ultrium 1760 SAS tape drive Smart Array P410 Controller |
| Options | | NC522SFP Dual Port 10 Gigabit Server Adapter R5500 Uninterruptible Power System | TFT7600 Monitor 4x1x16 IP Console Switch with Virtual Media | TFT7600 Monitor 4x1x16 IP Console Switch with virtual media |
| Software | | Management: Insight Control suite Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support | Management: Insight Control suite Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support | Management: Insight Control suite Operating systems: Windows, Linux, Solaris Automated Support: Insight Remote Support |

HP ProLiant servers

Supported options

| | Entry-level | | | | | | | | | Midrange | | | | | | | | | High-end | | | |
|----------------------------------|-------------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|-----------|--------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| | ML110 G5 | ML115 G5 | DL120 G5 | DL160 G6 | DL165 G5 | DL165 G5p | ML150 G6 | DL180 G6 | DL185 G5 | ML310 G5p | DL320 G5p | DL320s | ML350 G6 | DL360 G6 | DL365 G5 | DL370 G6 | ML370 G6 | DL380 G6 | DL385 G5p | DL580 G5 | DL585 G5 | DL785 G5 |
| HP hard drives | | | | | | | | | | | | | | | | | | | | | | |
| Large form factor SAS | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| Large form factor SATA | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | |
| Small form factor SAS | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • |
| Small form factor SATA | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • |
| HP memory | | | | | | | | | | | | | | | | | | | | | | |
| DDR3 Registered (RDIMMs) | | | | • | | | • | • | | | | • | • | | • | • | • | | | | | |
| DDR3 Unbuffered (UDIMMs) | | | | • | | | • | • | | | | • | • | | • | • | • | | | | | |
| PC2-5300 registered | | | | | • | • | | • | | | | | | • | | | | • | | • | • | • |
| PC2-5300 fully buffered | | | | | | | | | | | | | | | | | | | • | | | |
| PC2-5300 unbuffered | | | | | | | | | | | • | | | | | | | | | | | |
| PC2-6400 registered | | | | | | • | | • | | | | | | • | | | | • | | • | • | • |
| PC2-6400 unbuffered | • | • | • | | | | | | | • | • | | | | | | | | | | | |
| HP controllers | | | | | | | | | | | | | | | | | | | | | | |
| 8-Port SAS HBA | | | • | • | • | • | | • | • | • | • | | | | | | | | | • | • | |
| E200/E200i | • | • | • | • | • | • | | • | • | • | • | | | • | | | | | • | • | | |
| E500 | | | • | • | • | • | | • | • | • | • | | | • | | | | | • | • | • | • |
| P212 | | | | | | | • | | • | • | | • | • | • | • | • | • | • | • | • | • | • |
| P400/400i | | | • | • | • | • | | • | • | • | • | | | • | | | | | • | • | • | • |
| P410 | | | | | | | • | | • | • | | • | • | • | • | • | • | • | • | • | • | • |
| P410i | | | | | | | | | | | | • | • | | • | • | • | • | | | | |
| P411 | | | | | | | • | | • | • | | • | • | • | • | • | • | • | • | • | • | • |
| P600 | | | | | | | | • | • | • | • | | | • | | | | | • | • | • | • |
| P800 | | | • | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 256 MB cache | | | | | | | • | | • | • | | • | • | • | • | • | • | • | • | • | • | • |
| 512 MB w/BBWC | | | | | | | • | | • | • | | • | • | • | • | • | • | • | • | • | • | • |
| Battery Kit | | | | | | | • | | • | • | | • | • | • | • | • | • | • | • | • | • | • |
| Smart Array Advanced Pack (SAAP) | | | | | | | • | | • | • | | • | • | • | • | • | • | • | • | • | • | • |
| 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 software to unlock your infrastructure’s potential. The HP Insight Control suite (ICE) offers essential infrastructure management software, giving you total control of your server infrastructure—onsite or remote. Providing advanced infrastructure management, HP Insight Dynamics—VSE suite for ProLiant servers helps you continuously analyze and optimize your adaptive infrastructure.

Infrastructure management software, operating systems and virtual environments

HP Insight software integrates with leading operating systems and virtualization platforms to help you get the most from your HP ProLiant servers.

| | | Entry-level | | | | | | | | Midrange | | | | | | | | High-end | | | | | |
|---|--|--------------------------|----------|----------|----------|----------|-----------|----------|----------|----------|--|-----------|--------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| | | ML110 G5 | ML115 G5 | DL120 G5 | DL160 G6 | DL165 G5 | DL165 G5p | ML150 G6 | DL180 G6 | DL185 G5 | ML310 G5p | DL320 G5p | DL320s | ML350 G6 | DL360 G6 | DL365 G5 | DL370 G6 | ML370 G6 | DL380 G6 | DL385 G5p | DL580 G5 | DL585 G5 | DL785 G5 |
| Business needs | | | | | | | | | | | | | | | | | | | | | | | |
| Essential Infrastructure Management Software | | | | | | | | | | | | | | | | | | | | | | | |
| Suites | Insight Control suite (ICE) | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Insight Control suite for Linux (ICE-LX) | | | | • | • | • | | • | • | • | • | | • | • | • | • | • | • | • | • | • | • |
| Deploy servers quickly | Insight Rapid Deployment software (RDP) | | | • | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Insight Server Migration software for ProLiant (SMP) | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Manage health proactively | Systems Insight Manager (SIM) | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Insight Performance Manager module (PMP) | | | | | | | | | | Available exclusively in Insight Control suite | | | | | | | | | | | | |
| | Insight Vulnerability and Patch Manager module (VPM) | | | | | | | | | | Available exclusively in Insight Control suite | | | | | | | | | | | | |
| Control from anywhere | ProLiant Onboard Administrator, Integrated Lights-Out Advanced | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | ProLiant Onboard Administrator, Lights-Out 100i Advanced | •* | •* | •* | • | • | • | • | • | • | | | | | | | | | | | | | |
| | Insight Remote Support | | | | • | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Insight Virtual Machine Manager software for ProLiant (VMM) | Supported on all servers | | | | | | | | | | | | | | | | | | | | | |
| Optimize power confidently | Insight Power Manager software (IPM) | | | | | | | | | | • | | | • | • | • | • | • | • | • | | | |
| Integrate | Integration with HP Software | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Integration with MS System Center products | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Integration with CA Unicenter | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Integration with IBM Tivoli | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Advanced Infrastructure Management Software | | | | | | | | | | | | | | | | | | | | | | | |
| | Insight Dynamics—VSE Suite for ProLiant | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Insight Orchestration | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Insight Recovery | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Insight Capacity Advisor Consolidation software | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

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

- Supported for this product
- * Powered by Lights-Out 100.

Operating systems and virtual environments

Purchase your entire operating environment from HP. HP resells and provides full-service and support for Microsoft Windows operating systems, Red Hat Linux subscriptions, Novell SUSE Linux subscriptions, Citrix XenServer, and VMware hypervisors. Learn more online at <http://www.hp.com/go/ossupport>

| | | Entry-level | | | | | | | | | Midrange | | | | | | | | | High-end | | | | |
|-------------------------------|--|--------------------------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|-----------|--------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|---|
| | | ML110 G5 | ML115 G5 | DL120 G5 | DL160 G6 | DL165 G5 | DL165 G5p | ML150 G6 | DL180 G5 | DL185 G5 | ML310 G5p | DL320 G5p | DL320s | ML350 G6 | DL360 G6 | DL365 G5 | DL370 G6 | ML370 G6 | DL380 G6 | DL385 G5p | DL580 G5 | DL585 G5 | DL785 G5 | |
| Operating Environments | | | | | | | | | | | | | | | | | | | | | | | | |
| OS choices | Microsoft Windows HPC Server 2008 | | | | • | • | • | | • | • | | | | | • | • | | | • | • | • | • | | |
| | Microsoft Windows Server 2003 | Supported on all servers | | | | | | | | | | | | | | | | | | | | | | |
| | Microsoft Windows Server 2008 | Supported on all servers | | | | | | | | | | | | | | | | | | | | | | |
| | Windows Server 2008 Hyper-V | | | | • | • | • | • | | | • | | | • | • | • | • | • | • | • | • | • | • | |
| | 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 10 | | | | • | • | • | | • | • | | | | | • | • | • | • | • | • | | • | • | • |
| | VMware ESX 3.x* | | | | | | | | | | | | | • | • | • | • | • | | • | | • | • | • |
| | VMware ESXi 3.5 | | | | | | | | | | | | | • | • | • | • | • | • | • | | • | • | • |
| | HP Integrated Citrix XenServer | | | | | | | | | | | | | • | | | • | • | • | • | | • | • | |

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

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

HP related solutions

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

Complete your data center with HP Server options—including memory, drives, processors, racks, operating system software, and power and cooling. Strengthen the foundation of your data center with high caliber products that are easy to maintain and tailored for ProLiant, Integrity and StorageWorks, giving you confidence in your whole infrastructure.

| ML/DL networking | |
|---|--|
| NC112T PCI Express Gigabit Server Adapter | This low-cost Gigabit Ethernet NIC features excellent performance at a very modest price. |
| NC360T PCI Express Dual-port Gigabit Server Adapter | Here's a high-performance, dual-port adapter that supports a four-lane (x4) PCI Express bus as well as both standard and low-profile slots. The two Gigabit ports allow you to save valuable I/O slots for other uses. |
| NC364T PCI Express Quad-port Gigabit Server Adapter | This quad-port adapter 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 4,000 Mbps. |
| NC373T PCI Express Multifunction Gigabit Server Adapter | This high-performance adapter for twisted-pair environments supports TCP Offload on Windows and accelerated iSCSI, all on a single card. It supports both standard and low-profile slots. |
| NC382T PCI Express Dual-port Multifunction Gigabit Server Adapter | Here's 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. |
| NC522SFP PCIe 10 Gigabit Server Adapter | This dual port, eight-lane PCI Express 10 Gigabit Ethernet network solution offers the highest bandwidth available in a ProLiant Ethernet adapter. The NC522SFP ships with two SFP+ cages, and is suitable for connecting to a Direct Attach Cable (DAC) or SR, LR, and LRM fibre modules that support fibre optic cabling. |
| Rack and rack accessories | |
| TFT7600 Rack Keyboard Monitor | Ease deployment of software updates by allowing connection of a USB drive directly at the console. This monitor is designed for rack-mount use and ideal for data centers, corporate computer rooms and even small and medium business installations where local access to servers is needed at the rack. |
| 5000 Series Rack | The 5000 Series is an ideal rack solution for small and medium-size organizations with limited IT budgets. |
| 10000 G2 Series Rack | This enterprise-class rack solution combines unparalleled structural integrity, cooling and cable management. It can be used for all HP rack-mounted server and storage products. |
| MCS G2 | New bi-directional cooling technology makes it possible to simultaneously cool two racks with a single MCS G2 unit. Cool up to 17.5 kW per rack when cooling two racks or up to 35 kW when cooling a single rack. |
| Consoles and console switches | |
| Server Console Switches | Integrate keyboard-video-mouse (KVM) and serial devices into a single management console for all of your servers, network devices and infrastructure. These switches require 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 | Provide local and remote system access and management to a variety of data center devices. These switches require no software to be installed on target servers. Administrators can access KVM functions remotely for day-to-day management. Virtual media support allows for a drive to be mapped on a workstation to target servers to perform application, OS and firmware upgrades and installations, reducing operational costs and improving efficiency. |
| Uninterruptible power supplies (UPS) | |
| T750 Uninterruptible Power Supply | This is an ideal tower UPS for small and medium businesses and desktop/workstation environments. It provides protection from power outages for equipment with power requirements of 500 watts and less. |
| T1500 Uninterruptible Power Supply | Here's a 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 | This rack power supply is 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 offers up to 2,700 watts of true power. |
| R5500 Uninterruptible Power Supply | Offering the highest density rack power supply in a 3U, rack-mount design, the R5500 UPS provides 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 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 P411 | The HP Smart Array P411 controller is an external connect card that delivers mission-critical reliability in an easy-to-use RAID solution. |
| Smart Array P410 | The HP Smart Array P410 delivers basic RAID functionality with an upgrade path to RAID 6, 6+0. It provides uncompromising reliability, scalability, and a rich set of features that can meet your specific storage needs. |
| Smart Array P212 | The HP Smart Array P212 provides the use of basic RAID functionality and the option to upgrade with the 256 MB battery-backed write cache (BBWC) for RAID 5, 5+0. Additional upgrade path to RAID 6 (ADG), 6+0, and other enhancement features are also available through a software license key for the Smart Array Advanced Pack (SAAP). |
| Hard drives | |
| HP Midline and Entry SATA 3.5-inch and 2.5-inch hard disk drives | HP Midline and Entry SATA drives provide the best price advantage for non-mission-critical server or storage applications with low workloads of 40 percent or less. Available capacities include: 1 TB, 750 GB, 500 GB, 250 GB, and 160 GB 3G 7.2K RPM 3.5-inch drives and 120 GB 1.5G 5.4K RPM 2.5-inch drives. |
| HP Midline and Enterprise SAS 3.5-inch and 2.5-inch hard disk drives | Enterprise SAS drives are ideal for critical, high-duty cycle applications. Available capacities include: 450 GB, 300 GB, 146 GB, 72 GB, 36 GB 15K RPM 3.5-inch drives, 146 GB, 72 GB and 36 GB 10K RPM 2.5-inch drives and 72 GB and 36 GB 15K RPM 2.5-inch drives. Midline SAS drives provide redundant paths to your drives for non-mission-critical server or storage applications with I/O workloads of 40 percent or less. Available capacities include 1 TB and 750 GB 7.2K 3.5-inch drives. |
| Host bus adapters (HBAs) | |
| SC44Ge SAS HBA | The HP SC44Ge has eight channels with two connectors (one internal/one 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 that is 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 that is ideal for connecting HP MSL Tape Libraries to HP ProLiant servers. |
| Tape drives | |
| DAT 72 USB tape drive | Combining the reliability and cost-effectiveness of DAT with the universal plug-and-play capabilities of the USB 2.0 interface, this tape drive provides an ideal backup solution for small servers and workstations. |
| Ultrium 448 tape drive | This tape backup solution provides an excellent mix of features and value for entry-level and midrange server needs in small and medium-size businesses. |
| Storage array systems (SAS) | |
| Modular Smart Array 20 | Here's a SATA disk drive storage enclosure that delivers industry-leading availability, storage density and upgradeability to meet demanding and growing storage needs. The MSA20 provides an 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 50 | The MSA50 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 MSA50 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 60 | The MSA60 is ideal for the growing storage needs of small and midrange businesses. It supports up to 12 TB per enclosure or up to 96 TB (eight enclosures) capacity supporting 3.5-inch SAS, SATA or SAS Midline drives in a 2U form factor. Configuration and setup are easy with HP Array Configuration Utility (ACU). Enclosures can be cascaded in a 1+3 configuration, allowing a maximum of 48 drives in an 8U 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 96 drives in eight enclosures. |
| Modular Smart Array 70 | The MSA70 is ideal for the growing storage needs of small and midrange businesses. 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 are 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. |
| Shared storage | |
| Shared storage | When deploying a large number of servers or implementing a server consolidation project, it 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 who 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.

Benefits of HP Care Pack services 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 | Extend your hardware warranty coverage for quick and convenient hardware problem resolution. |
| 3-year, 13x5, same-business-day, 4-hour response coverage | Extend your hardware warranty coverage with prompt same-day service for key servers and increase equipment availability and productivity. |
| 3-year, 24x7, same-business-day, 4-hour response | Extend your hardware warranty coverage with prompt same-day service for key servers and increase availability and productivity with around-the-clock access to technical expertise and support. |
| 3-year, 24x7, either 24-hour or 6-hour call-to-repair | Decrease hardware downtime with committed 24-hour or 6-hour call-to-repair for hardware problem resolution. |
| 3-year, Support Plus 24 | Increase performance and availability with integrated 24x7 hardware and software support for complex interoperability problem resolution. |
| Proactive Select | Access to HP best-in-class technical consultants. Purchase service credits and obtain expertise when needed. |
| 3-year, Proactive 24 | Leverage this Mission Critical Support portfolio for an integrated hardware and software support solution designed to help you improve the operational and management effectiveness of your IT environment. |
| 3-year, Critical service | Look to this Mission Critical Support portfolio for a 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. |

Note: Four-year and five-year HP Care Pack options are also available, offering cost-effective, longer-term support solutions

When Technology Works. Business Works.

Competitive, IT organizations need an environment that's right for today and ready to evolve as your business needs change. HP Technology 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.

- Fast problem diagnosis and remote system monitoring utilizing Insight Remote Support delivering optimized for operational simplicity and cost efficiency 24x7 automated, secure remote event monitoring, notification and dispatch for hardware and operating systems
- 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 Services options and custom support solutions.

- Break down costly technology silos, with our consulting and integration services that enable you to optimize the performance of your server solution, improve energy efficiency, virtualize, and 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. Working in partnership with HP Authorized Channel Partners, HP has the expertise and skill you need. Whether your company is a medium-size organization or a large global corporation, HP Technology Services can help.

To learn more, visit www.hp.com/services/proliant

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 more than 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 to 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. Ultimately, HP is 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 view the latest version of this guide, visit <http://h71028.www7.hp.com/ERC/downloads/4AA0-6401ENW.pdf>

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