

Windows®. Life without Walls™. HP recommends Windows.

HP AND AUTODESK

Your built-in engineering edge



The HP commitment to innovation and solutions excellence, along with Autodesk's 3D design software and the HP/Autodesk relationship, provides you with a significant engineering edge which starts with the HP family of revolutionary, next-generation Z Workstations, designed to make complex 3D design and rendering easier and faster than ever before.

HP innovation, performance, reliability, and relationships

HP Z Workstations are engineered to optimize the way processor, memory, graphics, operating system, and software components work together, delivering a massive, whole-system computational power that helps you accomplish more with every minute of your time. This delivers advantages in four key areas:

- **Innovation:** Enjoy next-generation technology, including a new line of 2D and 3D graphics cards to help you create and visualize even the most complex designs. HP WattSaver, when activated, helps lower energy consumption in off mode.
- **Performance:** Get maximum compute and visualization power to help speed your work and beat deadlines and expectations. At the heart of HP Z Workstations are the new Intel® Xeon® processors with Intel processor performance technologies that include Intel® QuickPath Technology with integrated memory controller, Intel® Hyper-Threading³ Technology, and Intel® Turbo Boost Technology. Intel Turbo Boost helps processor cores run faster than the base operating frequency, which provides more

processing speed for single and multi threaded applications. The HP Z Workstation cooling design enhances this performance.

- **Reliability:** Achieve maximum productivity with HP through product testing that includes application performance, graphics, and comprehensive ISV certification.
- **Relationships:** HP helps our customers create a long-lasting competitive edge by leveraging our technical resources and relationships with Autodesk, graphics vendors, chip suppliers, and Microsoft to provide a consistent technical direction and broader, more dependable 3D application-oriented technology choices.

HP and Autodesk

HP has a unique relationship with Autodesk, Inc., the world leader in 2D and 3D design software for the manufacturing, building, and construction and media and entertainment industries. More than nine million users rely on Autodesk tools to help them design, visualize, and simulate real-world performance early in the design process, save time and money, enhance quality, and foster innovation.

HP works with Autodesk as its top hardware partner to offer our combined customers a comprehensive portfolio of solutions that address their needs, with innovative hardware and software that is tuned and integrated. Our close relationship and engineering expertise help ensure solutions that perform not only today, but into the future.



“Autodesk and HP have partnered to provide unparalleled design solutions to our customers in the building, manufacturing and media & entertainment industries. In the increasingly global economy, design innovation has become even more critical—and together we are uniquely positioned to give our customers the solutions they need to compete.”

Chris Bradshaw,
Chief Marketing
Officer,
Autodesk

HP provides more to Autodesk customers

- HP thoroughly tests and certifies each HP Workstation model for Autodesk applications.
- HP submits workstations to Autodesk for complete testing.
- Autodesk uses HP Workstations internally to develop and test their applications.
- HP Workstation graphics are thoroughly tested to support Autodesk products.
- HP Remote Graphics Software enables users to share 3D screen images with others, as well as remotely access their own workstation.
- HP Performance Tuning Framework offers special features to optimize the performance of Autodesk applications.
- HP technical experts who work with Autodesk are available to support customers and provide recommended configurations for specific Autodesk applications, based upon HP application testing.

Autodesk Architecture, Engineering, and Construction (AEC) Solutions

Autodesk helps AEC professionals realize greater productivity through more complete design information—from AutoCAD-based design and documentation software to advanced technology for building information modeling (BIM), dynamic civil modeling, and collaborative project management. Autodesk’s AEC solutions include AutoCAD® Architecture, AutoCAD LT®, AutoCAD® Revit® Architecture Suite, Autodesk® 3ds Max®, Autodesk® Collaborative Project Management, Autodesk® Design Review, AutoCAD® Civil, AutoCAD® Raster Design, AutoCAD® Map 3D, AutoCAD® Revit® Structure Suite,

Autodesk® Inventor®, and Autodesk® Navisworks® software products, among others.

Autodesk Manufacturing Solutions

From conceptual design to engineering, manufacturing, and visualization, Autodesk provides the interoperable tools that allow manufacturing companies to connect their entire product development process through a single digital model, enabling them to compete and win. The Autodesk solution for Digital Prototyping includes the Autodesk® Alias® family of products, Autodesk® Showcase®, Autodesk® Inventor® (the foundation of the Autodesk solution for Digital Prototyping), AutoCAD®, AutoCAD® Mechanical, AutoCAD® Electrical, the Autodesk® Vault family of products, Autodesk Streamline®, Autodesk® Design Review, Autodesk® Navisworks®, Autodesk® Moldflow®, Autodesk® 3ds Max® Design, and Autodesk® Maya® software products.

Autodesk Design Visualization Solutions

Autodesk design visualization solutions provide advanced 3D modeling, lighting, rendering, and animation toolsets for the most challenging architectural, product, scientific, medical, or industrial projects. Turn design data into beautiful imagery, bring your presentations to life, and experience industry-leading connectivity and interoperability with products that include Autodesk® 3ds Max® software and the AutoCAD® and Autodesk® Revit® families of products, as well as Autodesk® Combustion®, Autodesk® ImageModeler, Autodesk® Maya®, and Autodesk® Stitcher™ Unlimited software products.

Autodesk Infrastructure and Government Solutions

Autodesk solutions help with the design, drafting, and management of civil engineering projects, land planning and analysis, and creation and management of spatial data with solutions that include Autodesk MapGuide® Enterprise, AutoCAD® Map 3D, Autodesk® Topobase™, Autodesk® FMDesktop®, Autodesk® Revit® Architecture, Autodesk 3ds Max, AutoCAD Architecture, AutoCAD® Civil, and Autodesk Design Review software products.

Your digital workbench

In addition to leading-edge hardware solutions, HP also offers a combination of applications, workstations, and productivity tools that give you a digital workbench that aids collaboration, improves performance, and helps you work smarter. HP Remote Graphics Software and HP Performance Tuning Framework are important tools to help improve your productivity. The performance of the HP Z Workstations enables significant time savings and helps you create a competitive edge. The HP SpacePilot and HP DreamColor monitor can help improve productivity for some applications.

It is important for CAD and IT managers to focus on these productivity gains—along with Autodesk application tips and tricks—that can help you create the best possible digital workbench for your needs and enable significant benefits. A 2% productivity improvement can translate to a week's savings in a year; 20% can mean 10 weeks of time savings.

HP Remote Graphics Software

HP Remote Graphics Software (RGS) is an advanced 3D screen-sharing utility that allows you to remotely access and share your workstation, its 3D graphics power, and all of its applications, in real time. Using HP compression technology, HP RGS compresses the screen image, sending it to receiver software for decompression and display. The receiver captures keystrokes and mouse clicks for return to the workstation.

HP RGS minimizes network usage and enables remote access without compromising performance or image quality. Well-suited to engineers and designers looking to speed the design process, HP RGS enables real-time sharing of high-resolution imagery so creative teams from multiple remote sites can collaborate instantly, regardless of remote distances.

HP Performance Tuning Framework

Put the underlying power of HP Workstations at your fingertips, with a powerful interface to see into, fine-tune, and help optimize the performance of HP Workstations running Microsoft® Windows® XP and Windows Vista® operating systems. HP Performance Tuning Framework (PTF) makes it simple and reliable to keep your professional applications running smoothly by:

- Providing a detailed configuration report so you can easily see what's on your system.



- Organizing graphics driver certification information to help you make informed decisions regarding driver testing when loading the latest drivers.
- Tracking memory use and graphically displaying how applications and processes use physical and virtual memory.
- Monitoring system resource usage over time to see if your applications and usage create bottlenecks.
- Measuring subsystem performance using Vista Performance monitoring.

Should you have a problem, Autodesk support staff can review your PTF configuration file—it's as simple as that. Best of all, HP PTF is included with each HP Workstation.

HP SpacePilot

Working in 3D is easier and more efficient with the HP SpacePilot Intelligent Controller, which enables two-handed CAD by combining refined sensing technology, extendable speed keys, and a comfortable design so you can minimize repetitive stress. Studies show significant improvements in user productivity when inputting with an HP SpacePilot. Easily change the center of rotation and quickly pan, zoom, and animate assemblies. With HP SpacePilot, you can intuitively push, tilt, or twist the control cap for an immediate response; 21 speed keys increase your efficiency and make working with your designs less stressful and more enjoyable than working with just a mouse and keyboard.



“The impressive performance of the new HP Z Workstations will enable increased productivity and efficiency for designers and engineers using our design software including AutoCAD, 3ds Max, the Autodesk Inventor family for Digital Prototyping, and the Revit platform for Building Information Modeling (BIM).”

Lisa Campbell,
Vice President of
Marketing,
Autodesk Platform
Solutions & Emerging
Businesses

Why a Workstation (vs. a Desktop PC)

For Autodesk professionals, the answer is easy! Engineering and design professionals require high-performance systems to support their complex 2D and 3D applications. HP Workstations offer advanced features that deliver more power, stability, and dependability than standard PCs, including:

- Certification, testing, and optimization with Autodesk applications like Revit, AutoCAD, Inventor, and 3ds Max to give users reliable, optimized platforms.
- Support for the fastest processors and latest processor architectures required to maximize your performance with Autodesk applications.
- ECC memory for better reliability and stability when running professional applications and larger data sets.
- High-end chipsets designed to provide the bandwidth for professional applications and data sets when controlling the flow of data across the bus to and from processor, storage, and graphics.
- 2D and 3D graphics cards that provide the power for professional applications and visualization, along with stability, image clarity, reliability, and performance.
- Faster disk drives (10k and 15k rpm) for data-intensive applications.
- Personal productivity tools such as HP Remote Graphics Software and HP Performance Tuning Framework (highlighted on the previous page).

Meet the HP Workstation family

Combining bold design, best-in-class engineering, robust tools, and visual collaboration solutions, the HP Workstation family takes innovation, performance, and reliability to the next level—to give you and your business a competitive edge. All HP Workstations are tested and certified for Autodesk applications. HP tests a comprehensive range of Autodesk applications on our workstations, helping ensure reliable, dependable performance.

HP Z400 Workstation

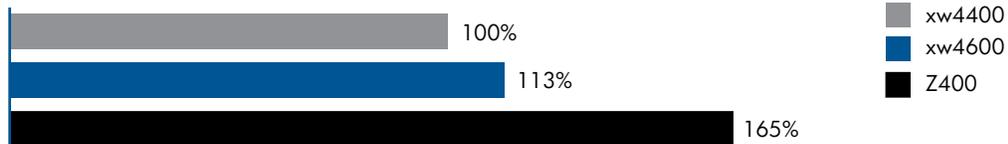
The HP Z400 Workstation delivers enhanced workstation performance in a very affordable package to transform the way engineering and design professionals work. The next-generation system architecture enables fast and efficient performance plus HP personal productivity tools and built-in HP reliability that helps you work more productively and get the job done faster. This workstation is ideal for AutoCAD users, users with 3D vertical solutions that leverage AutoCAD, and 2D and 3D users who need the most affordable solution.

HP Z600 Workstation

The HP Z600 Workstation packs compute and visualization power to help you work faster and beat deadlines—delivering maximum performance in our smallest, quietest dual eight-core design when every inch, watt, and decibel make a difference. This workstation is ideal for 3D users who want to take advantage of the multiple cores needed for applications that use rendering, animation, and simulation. This system’s dual-processor capability,

HP Z400 Workstation performs better

AutoCAD 2008



*Measured on HP Z400 Workstation with Intel® Xeon® processor W3570. Average increase in performance on Cadalyst Systems Benchmark C2008 V5.1. Testing using AutoCAD 2008.

combined with Intel Turbo Boost and Hyper-Threading³ technologies, is well-suited for users of single-threaded applications who occasionally need support for multi-threaded applications, such as Autodesk Inventor, Revit, Civil 3D®, and AutoCAD Map 3D.

HP Z800 Workstation

The HP Z800 Workstation delivers the ultimate performance in a revolutionary next-generation design that combines extreme speed, massive expandability, and maximum productivity to accelerate even the biggest, most complex engineering and design projects. This high-end workstation provides the expandability, performance, and data storage required by power users of Autodesk® 3ds Max and other visualization applications.

HP xw9400 Workstation

The HP xw9400 Workstation delivers uncompromised graphics performance and maximum expandability, combining computational and visualization power with I/O performance, while helping to lower your total cost of ownership. This workstation is ideal for high-end Autodesk power users who want the AMD advantage.

HP Elitebook 8730w Mobile Workstation

The HP Elitebook 8730w Mobile Workstation redefines power on the move, combining the best in visualization and computational power with a 17-inch diagonal display for HP's highest performing mobile workstation. This mobile workstation offers reinforced latches and durable construction in a lightweight form factor that has passed most Mil-Std testing, making it a great tool for professionals on the go. The choice of an HP DreamColor screen enables true color visualization in addition to top performance for Autodesk applications.

Meet the HP Workstation family

Model	HP xw4600 Workstation	HP Z400 Workstation	HP Z600 Workstation	HP Z800 Workstation	HP Elitebook 8730w Mobile Workstation
User	Ideal for entry level users where workstation performance is needed	Ideal for those who want to maximize performance with single threaded application	Ideal for those who occasionally need multi core performance	Ideal for those who have the largest files, store large data sets	Ideal for those who want the most power a notebook can provide, as light as possible
Autodesk solution	AutoCAD LT, Entry AutoCAD	AutoCAD & Vertical Apps Inventor, Civil 3D, Revit	Revit Structure, Revit MEP, 3ds Max	Inventor power user, AutoCAD Map 3D, 3ds Max power user	All Autodesk applications
Processors^{1,2}	Intel® Pentium® Intel Core™ 2 Duo processor Intel Core 2 Quad processor Intel Core 2 Extreme processor	Dual- and quad-core Intel® Xeon® processor Intel® QuickPath Technology	Quad-core Intel® Xeon® processor Intel® QuickPath Technology	Quad-core Intel® Xeon® processor Intel® QuickPath Technology	Intel Core 2 Duo or Extreme processor
Graphics cards	ATI FireGL V3700 ATI FireGL V7750 ATI FireGL V5700 NVIDIA Quadro FX 380 NVIDIA Quadro FX 580 NVIDIA Quadro FX 1800 NVIDIA Quadro FX 3800 NVIDIA Quadro FX 4800	ATI FireGL V3700 ATI FireGL V7750 ATI FireGL V5700 NVIDIA Quadro FX 380 NVIDIA Quadro FX 580 NVIDIA Quadro FX 1800 NVIDIA Quadro FX 3800 NVIDIA Quadro FX 4800	ATI FireGL V3700 ATI FireGL V7750 ATI FireGL V5700 NVIDIA Quadro FX 380 NVIDIA Quadro FX 580 NVIDIA Quadro FX 1800 NVIDIA Quadro FX 3800 NVIDIA Quadro FX 4800	ATI FireGL V3700 ATI FireGL V7750 ATI FireGL V5700 NVIDIA Quadro FX 380 NVIDIA Quadro FX 580 NVIDIA Quadro FX 1800 NVIDIA Quadro FX 3800 NVIDIA Quadro FX 4800 NVIDIA Quadro FX 5800	ATI Mobility FireGL V5725 NVIDIA Quadro FX 2700M NVIDIA Quadro FX 3700M

Suggested configurations

(ALL APPLICATIONS CERTIFIED)

HP recommends for Autodesk architecture, engineering, and construction

HP recommends for Autodesk manufacturing solutions



AutoCAD LT



AutoCAD, AutoCAD Architectural



Autodesk Revit Architecture, Structure, MEP



AutoCAD and AutoCAD Mechanical

HP xw4600 Workstation

Genuine Windows® XP Professional 32-bit available through downgrade rights from Windows Vista® Business^{**}
 Dual-Core¹ Intel® Pentium® processor² E2180⁴ 2.00 GHz, 1 MB L2 cache, 800 MHz FSB
 Intel® X38 Express chipset
 2 GB DDR2 800 MHz ECC^{5,6}
 NVIDIA Quadro FX 380 for AutoCAD LT
 250 GB SATA⁸
 DVD-ROM SATA⁹
 HP LP2475w 24-inch Widescreen LCD Monitor
 HP Remote Graphics Software
 HP Performance Tuning Framework
 HP Scroll Mouse
 Application certified

HP Z400 Workstation

Genuine Windows XP Professional 32-bit available through downgrade rights from Windows Vista Business^{**}
 Quad-Core¹ Intel® Xeon® processor² W3570⁴ 3.2 GHz
 Intel X58 Express chipset
 4 GB DDR3 ECC memory^{5,7}
 NVIDIA Quadro FX 1800
 320 GB 10k rpm SATA⁸
 DVD-ROM SATA⁹
 HP LP2475w 24-inch Widescreen LCD Monitor
 HP Remote Graphics Software
 HP Performance Tuning Framework
 HP Scroll Mouse
 Application certified

HP Z600 Workstation

Genuine Windows XP Professional 32-bit available through downgrade rights from Windows Vista Business^{**}
 If model sizes are large (120 MB or larger) consider:
 Genuine Windows XP Professional 64-bit available through downgrade rights from Windows Vista Business^{**}
 Quad-Core¹ Intel Xeon processor² W5570⁴ 2.93 GHz
 4 GB DDR3 ECC memory or 8 GB if 64-bit^{5,7}
 NVIDIA Quadro FX 1800
 (2) 300 GB 15k rpm SAS⁸
 DVD-ROM SATA⁹
 HP LP2475w 24-inch Widescreen LCD Monitor
 HP Remote Graphics Software
 HP Performance Tuning Framework
 HP Scroll Mouse
 Application certified

HP Z400 Workstation

Genuine Windows XP Professional 32-bit available through downgrade rights from Windows Vista Business^{**}
 If model sizes are large (120 MB or larger) consider:
 Genuine Windows XP Professional 64-bit available through downgrade rights from Windows Vista Business^{**}
 Quad-Core¹ Intel Xeon processor² W3570⁴ 3.2 GHz
 Intel X58 Express chipset
 4 GB DDR3 ECC memory or 8 GB if 64-bit^{5,7}
 NVIDIA Quadro FX 1800
 320 GB 10k rpm SATA⁸
 DVD-ROM SATA⁹
 HP LP2475w 24-inch Widescreen LCD Monitor
 HP Remote Graphics Software
 HP Performance Tuning Framework
 HP Scroll Mouse
 HP SpacePilot
 Application certified

HP recommends for all Autodesk applications



Autodesk Inventor



Autodesk Inventor (power user)



Mobility (for all Autodesk applications)



**AutoCAD Civil 3D
AutoCAD Map 3D**



**Autodesk Alias, Autodesk Showcase,
Autodesk 3ds Max**

HP Z400 Workstation

Genuine Windows XP Professional 32-bit available through downgrade rights from Windows Vista Business^{1,2,3}
If model sizes are large (120 MB or larger), consider:
Genuine Windows XP Professional 64-bit available through downgrade rights from Windows Vista Business^{1,2,3}
Quad-Core¹ Intel Xeon processor² W3570⁴ 3.2 GHz
Intel X58 Express chipset
4 GB DDR3 ECC memory or 8 GB if 64-bit^{5,7}
NVIDIA Quadro FX 1800 320 GB 10k rpm⁸
DVD-ROM SATA⁹
HP LP2475w 24-inch Widescreen LCD Monitor
HP Remote Graphics Software
HP Performance Tuning Framework
HP Scroll Mouse
HP SpacePilot
Application certified

HP Z800 Workstation

Genuine Windows XP Professional 64-bit available through downgrade rights from Windows Vista Business^{1,2,3}
Quad-Core¹ Intel Xeon processor² W5580⁴ 3.2 GHz
– Choose dual quad-cores for simulation, motion, analysis or rendering usages.
4 GB DDR3 ECC memory or 8 GB if 64-bit^{5,7}
NVIDIA Quadro FX 3800 (2) 300 GB 15K rpm SAS RAID 0^{8,10}
CD-RW/DVD-ROM Combo⁹
HP LP3065 30-inch Widescreen LCD Monitor
HP Remote Graphics Software
HP Performance Tuning Framework
HP Scroll Mouse
HP SpacePilot
Application certified

HP Elitebook 8730w Mobile Workstation

Genuine Windows XP Professional 64-bit available through downgrade rights from Windows Vista^{1,2,3} Business^{1,2,3}
Intel Core™ 2 Duo processor² T9800⁴ 2.93 GHz, 6 MB L2 cache
1066 MHz FSB
17-inch diagonal WUXGA display (1920 x 1200)
NVIDIA Quadro FX 3700m with 1 GB of video memory
8 GB DDR2 800 MHz SDRAM memory^{5,6}
320 GB 7200 rpm SATA hard drive⁸
DVD/CD RW Combo⁹
7.5 pounds¹¹
Business rugged design
HP Remote Graphics Software
HP Performance Tuning Framework
Application certified
3-year limited warranty

HP Z600 Workstation

Genuine Windows XP Professional 32-bit available through downgrade rights from Windows Vista Business^{1,2,3}
If model sizes are large (120 MB or larger) consider:
Genuine Windows XP Professional 64-bit available through downgrade rights from Windows Vista Business^{1,2,3}
Quad-Core¹ Intel Xeon processor² W5570⁴ 2.93 GHz
4 GB DDR3 ECC memory or 8 GB if 64-bit^{5,7}
NVIDIA Quadro FX 1800 (2) 300 GB 15k rpm SAS⁸
DVD-ROM SATA⁹
HP LP2475w 24-inch Widescreen LCD Monitor
HP Remote Graphics Software
HP Performance Tuning Framework
HP Scroll Mouse
Application certified

HP Z600 Workstation

Genuine Windows XP Professional 64-bit available through downgrade rights from Windows Vista Business^{1,2,3}
Dual Quad-Core¹ Intel Xeon processor² W5580⁴ 3.2 GHz
Intel 5520 chipset
8 GB DDR3 ECC memory^{5,7}
NVIDIA Quadro FX 3800 (2) 300 GB 15K rpm SAS RAID 0^{8,10}
CD-RW/DVD-ROM Combo⁹
HP LP3065 30-inch Widescreen LCD Monitor
HP Remote Graphics Software
HP Performance Tuning Framework
HP Scroll Mouse
Application certified

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Geneva, Switzerland

EMEA workstation country homepages

www.hp.com/eur/workstations

For more information about HP and Autodesk solutions,
please visit www.hp.com/go/autodesk

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*Windows Vista Business disk may also be included for future upgrade if desired. To qualify for this downgrade an end user must be a business (including governmental or educational institutions) and is expected to order at least 25 customer systems with the same custom image.

**Certain Windows Vista product features require advanced or additional hardware. See

www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and www.microsoft.com/windowsvista/getready/capable.mspx for details.

Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit www.windowsvista.com/upgradeadvisor.

¹ Dual- and Quad-Core technologies are designed to improve performance of multithreaded software products and hardware-aware multitasking operating systems and may require appropriate operating system software for full benefits; Not all customers or software applications will necessarily benefit from use of these technologies.

² 64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See www.intel.com/info/em64t for more information.

³ The hyperthreading feature is designed to improve performance of multithreaded software products; please contact your software provider to determine software compatibility. Not all customers or software applications will benefit from the use of hyperthreading. Go to <http://www.intel.com/info/hyperthreading/> for more information including which processors support HT Technology.

⁴ Intel's numbering is not a measurement of higher performance.

⁵ Maximum memory capacities assume 64-bit operating systems. Microsoft® Windows® XP (32-bit) supports 4 GB (with Microsoft 32-bit, the amount of usable memory will be dependent upon your system configuration. It may be less than 4 GB); 32-bit Linux can support up to 8 GB.

⁶ Dual Channel is only supported when the system is configured with DDR2 symmetric memory (i.e. 2 x 256).

⁷ Each processor supports up to 3 channels of DDR3 memory. To realize full performance at least 1 DIMM must be inserted into each channel.

To get full 6 channel support, 2 processors MUST be installed.

⁸ For hard drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 8 GB of hard drive (or system disk) is reserved for the system recovery software (XP and XP Pro). Up to 12 GB of system disk is reserved for system recovery software. (Vista).

⁹ Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copyright protected materials. Intended for creation and storage of your original material and other lawful uses.

¹⁰ Hardware RAID is not supported on Linux systems. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit

<http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf> for RAID capabilities with Linux.

¹¹ Weight varies by model.

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