

HP WORKSTATION ACCESSORIES BROCHURE



Everybody On 

THE NEW HP Z WORKSTATIONS

HP recommends Windows® 7.



HP Z800—The ultimate in power and expandability

Streamlined chassis 35 percent smaller than competitive products

- Intel® Xeon® Processor 5500 and 5600 Series^{1, 2}
- Genuine Windows® 7 Ultimate or other editions available
- Storage up to 10 TB³
- Graphics up to eight displays or dual NVIDIA Quadro 6000
- Z800 supports dual processor or up to two processors



HP Z600—Massive performance in a small footprint

Sleek tool-less chassis with integrated handles and visually cable-less design

- Intel® Xeon® Processor 5500 and 5600 Series^{1, 2}
- Genuine Windows® 7 Ultimate or other editions available
- Storage up to 6 TB³
- Graphics up to eight displays or dual NVIDIA Quadro 2000 or ATI FirePro V5800
- Z600 supports dual processor or up to two processors



HP Z400—Breakthrough price and performance

Redefines the power users expect from a PC

- Intel® Xeon® Processor 3500 and 3600 Series^{1, 2}
- Genuine Windows® 7 Ultimate or other editions available
- Storage up to 8 TB³
- Graphics up to eight displays or dual NVIDIA Quadro 2000 or ATI FirePro V5800



HP Z210 CMT—Low-cost, high-performance mainstream entry workstation

Workstation-class productivity on a PC budget

- Second-generation Intel® Core™ i3, i5, and i7 Processors and Intel® Xeon® Processor E3 Series^{1, 2}
- Genuine Windows® 7 Ultimate or other editions available
- Storage up to 4.5 TB³
- Graphics up to NVIDIA Quadro 2000 or ATI FirePro V5800



HP Z210 SFF—Small size, great value, and rock-solid application performance

65 percent smaller than the HP Z210 CMT convertible mini-tower

- Second-generation Intel® Core™ i3, i5, and i7 Processors and Intel® Xeon® Processor E3 Series^{1, 2}
- Genuine Windows® 7 Ultimate or other editions available
- Storage up to 2 TB³
- Graphics up to NVIDIA Quadro FX 380 LP or ATI FirePro V5800

AMD FIREPRO™ PROFESSIONAL GRAPHICS.

HP recommends Windows® 7.

AMD FirePro™ professional graphics are designed for users that demand the highest quality, reliability, and application performance.

Top performance by design

- Engineered for speed, AMD FirePro™ graphics cards deliver unbelievable performance.

The AMD Eyefinity advantage for exceptional productivity

- AMD FirePro™ graphics cards exclusively feature AMD Eyefinity multi-display technology, which can increase desktop productivity and simplifies visualization solutions by expanding users' visual real estate.¹

Value meets performance

- AMD FirePro™ professional graphics deliver performance at every price point.

Rigorous testing assures reliability and certifications.

- AMD FirePro™ professional graphics are certified for leading applications including 3ds Max®, AutoCAD, CATIA®, Inventor®, Maya®, Photoshop®, Pro/ENGINEER®, Siemens NX, and SolidWorks®. Find a complete list at amd.com/firepro and click on Certified Applications.

Increase productivity with ATI Eyefinity technology

- Revolutionary ATI Eyefinity technology allows users to run up to four displays¹ using a single graphics card to create a hugely expanded visual workspace.
- For professionals in areas such as design, medical imaging, or movie production who work with large visual data sets, the ability to see full-screen 3D images and video across multiple displays as a single desktop is empowering a multitude of workflow demands.

1. 30-bit monitor required for full 30-bit display (10-bit per RGB component). ATI FirePro 3D graphics can display over one billion colors when attached to 30-bit displays.

ATI FirePro™ Professional Graphics

- Designed with the highest quality, reliability, and application performance in mind, ATI FirePro Professional Graphics deliver real value and advanced performance at every price point.
- The ATI FirePro family supports the latest industry-standard APIs (OpenGL®, OpenCL™, Linux and Microsoft® DirectX® 11) and is optimized for the next generation of major CAD and DCC applications.

AMD FirePro™ V7900

The AMD FirePro™ V7900 professional graphics solution delivers incredible performance, superb visual quality, and outstanding multi-display capabilities all in a single-slot solution. It is an excellent solution for professionals who work with advanced visualization, complex models, and large data sets.

AMD FirePro™ V5900

The AMD FirePro™ V5900 professional graphics solution packs a huge punch in a single slot solution, making it the perfect solution for professionals working with a broad range of applications, moderately complex models and datasets, and advanced visual effects.

ATI FirePro™ V5800

This mid-range 3D professional graphics solution has the perfect balance of price and performance for a broad range of applications.

ATI FirePro™ V4800

This strong entry-level 3D professional graphics solution has the capability to support more than two displays simultaneously.

ATI FirePro™ V3800

Get an ideal entry-level 3D professional graphics solution at an incredible price.

ATI FirePro™ 2270

Low profile, energy efficient design helps IT more easily configure and deploy dual-displays setups for employees.

Availability

ATI FirePro family of professional graphics solutions are available in all Z series workstations and the xw4600. The ATI FireGL family of graphics is available on xw4600, xw6600, and xw8600.



AMD FirePro V7900



AMD FirePro V5900



ATI FirePro V5800



ATI FirePro V4800



ATI FirePro V3800



ATI FirePro V2270

To learn more, visit www.hp.com/go/ATI.

For more information, contact your local HP reseller, visit www.hp.com/go/wsaccessories or call 1-800-888-9909.

GRAPHICS

HP recommends Windows® 7.



Today's professional graphics applications demand high-performance graphics cards that deliver the functionality and performance users require. Graphics cards are ideal for workstation users who need professional 2D or advanced 3D graphics performance and greater productivity through multi-tasking across several monitors. Professional cards are certified and provide superior performance for workstation-class applications, are rigorously designed and tested for high reliability, and offer significantly better support.

HP workstation graphics cards are certified by major independent software vendors and can offer excellent solutions for your graphics needs.

- Dedicated workstation support, by both HP and graphics vendors

- Long lifecycles that enable enterprises to develop stable images and support consistent deployments over longer periods, thus lowering total cost of ownership
- Certification by software providers to run with their applications
 - Added stability, reliability, and support
 - Specific application productivity tools and drivers to accelerate performance
- HP-tested unified graphics driver
 - Enables compatibility between workstation, graphics, OS, and applications
 - Bugs caught before they show up in user environments with thorough test suite
 - Tested both on Windows® and Linux

GRAPHICS CARDS



Part number	Description	HP Workstation Z200	HP Workstation Z200 SFF	HP Workstation Z210	HP Workstation Z210 SFF	HP Workstation Z400	HP Workstation Z600	HP Workstation Z800
LA524AT	AMD FirePro 2270 512 MB			•	•	•	•	•
WL048AT	ATI FirePro V3800 512 MB	•	•	•	•	•	•	•
WL049AT	ATI FirePro V4800 1 GB	•		•		•	•	•
WL050AT	ATI FirePro V5800 1 GB	•		•		•	•	•
LS992AT	AMD FirePro V5900 2 GB			•		•	•	•
LS993AT	AMD FirePro V7900 2 GB Graphics Card					•	•	•
FY943UT	NVIDIA Quadro NVS 295 256 MB	•	•			•	•	•
XP612AT	NVIDIA NVS 300 512 MB	•	•	•	•	•	•	•
NB769UT	NVIDIA Quadro FX380 256 MB	•				•	•	•
WL055AT	NVIDIA Quadro FX380 LP 512 MB		•					
LD542AT	NVIDIA Quadro 400 512 MB			•	•	•	•	•
WS093AT	NVIDIA Quadro 600 1 GB	•	•	•	•	•	•	•
FH519UT	NVIDIA Quadro NVS 450 512 MB PCIe					•	•	•
WS094AT	NVIDIA Quadro 2000 1 GB	•		•		•	•	•
WS095AT	NVIDIA Quadro 4000 2 GB			•		•	•	•
WS096AT	NVIDIA Quadro 5000 2.5 GB					•	•	•
WS097AT	NVIDIA Quadro 6000 6 GB						•	•

Learn more about HP Leadership graphics by visiting www.hp.com/go/leadershipgraphics. For more information, contact your local HP reseller, visit www.hp.com/go/wsaccessories or call 1-800-888-9909.

HARD DRIVES AND SOLID STATE DRIVES

HP recommends Windows® 7.

The need for storage capacity increases as our applications become more complex and data files grow in size. Adding more or higher capacity hard drives will solve most capacity needs. The performance of a disk drive slows down as the drive fills up, so better performance is achieved when the full capacity of a drive is not required. Increased performance can also be achieved by using higher speed (RPM) drives and RAID configurations. HP Workstations offer RAID storage controllers that improve performance and enhance reliability with

data redundancy. Solid state drives offer very high performance and high reliability as the technology has no moving parts. Another way to back up your data in a cost effective manner is with optical disk drives.

- Self Monitoring Analysis and Reporting Technology (SMART) allows the hard drive to monitor its performance and raise flags if imminent failures are predicted.
- NCQ (Native Command Queuing) allows the hard drive to optimize the order of multiple outstanding write or read commands improving overall throughput.

HARD DRIVES



Part number	Description	HP Workstation Z200	HP Workstation Z200 SFF	HP Workstation Z210	HP Workstation Z210 SFF	HP Workstation Z400	HP Workstation Z600	HP Workstation Z800
PV944UT	HP 160 GB SATA/300 NCQ 7200 RPM	•	•			•	•	•
EA788UT	HP 250 GB SATA 3 Gb/s NCQ 7200 HDD	•	•			•	•	•
PV943UT	HP 500 GB SATA 3 Gb/s 7200 HDD	•	•			•	•	•
LQ036AT	HP 500 GB SATA 6 Gb/s 7200 HDD			•	•			
GE262UT	HP 1 TB SATA 3 Gb/s 7200 HDD	•	•			•	•	•
LQ037AT	HP 1 TB SATA 6 Gb/s 7200 HDD		•	•	•			
LU967AT	HP 300 GB SAS 6 Gb/s 15K HDD					•	•	•
LU968AT	HP 450 GB SAS 6 Gb/s 15K HDD					•	•	•
EW222UT	HP 160 GB WD Raptor SATA NCQ 10K	•	•	•	•	•	•	•
XQ245AT	HP 600 GB SATA 10K SFF HDD	•	•	•	•	•	•	•

SOLID STATE DRIVES



Part number	Description	HP Workstation Z200	HP Workstation Z200 SFF	HP Workstation Z210	HP Workstation Z210 SFF	HP Workstation Z400	HP Workstation Z600	HP Workstation Z800
LZ704AT	HP 160 GB SATA SSD	•	•	•	•	•	•	•
LZ069AT	HP 300 GB SATA SSD	•	•	•	•	•	•	•

MEMORY AND PROCESSORS

HP recommends Windows® 7.

As the files and documents we work with grow in size and become more robust, so do the demands of the computers and applications we use them on. Additional memory is recommended when working with large files and robust applications to maintain the performance and reliability you demand from your workstation. Did you know, HP Z800 workstation has up to 12 DIMM slots and is expandable up to 192 GB of memory?

- Faster startup and fewer delays during routine operations
- Easy toggling between several open applications
- Reduced system downtime, data loss, and financial impact of memory failure
- Ability to handle increasingly demanding applications without degrading performance
- Non-HP memory may perform less effectively or may even fail when exposed to the demands of a high-end workstation motherboard.

MEMORY		Z200	Z200 SFF	Z210	Z210 SFF	Z400	Z600	Z800
Part number	Description							
FX698UT	HP 1 GB (1x1 GB) DDR3-1333 ECC RAM ^{4, 5}	•	•			•	•	•
FX699UT	HP 2 GB (1x2 GB) DDR3-1333 ECC RAM ^{4, 5}	•	•			•	•	•
NL797AT	HP 4 GB (1x4 GB) DDR3-1333 ECC RAM ^{4, 5}	•	•			•	•	•
FX621UT	HP 4 GB (1x4 GB) DDR3-1333 ECC Reg RAM ^{4, 5}						•	•
QC851AT	HP 1 GB (1x1 GB) DDR3-1333 ECC RAM ^{4, 5}			•	•			
QC447AT	HP 2 GB (1x2 GB) DDR3-1333 ECC RAM ^{4, 5}			•	•			
QC852AT	HP 4 GB (1x4 GB) DDR3-1333 ECC RAM ^{4, 5}			•	•			
XC497AT	HP 1 GB (1x1 GB) DDR3-1333 non-ECC RAM ^{4, 5}	•	•	•	•			
XC440AT	HP 2 GB (1x2 GB) DDR3-1333 non-ECC RAM ^{4, 5}	•	•	•	•			
LB435AT	HP 4 GB (1x4 GB) DDR3-1333 non-ECC RAM ^{4, 5}	•	•	•	•			

Multi-tasking is now a necessity in our daily computing needs and as the applications become more commanding, our need for processing power increases. Adding a second processor to your workstation is essential because it improves your efficiency and the productivity of your applications.

- Second processors are an ideal solution for customers working with large designs, complex analysis, scientific modeling, or just simply running a number of applications at once.
- Leveraging additional processing cores can improve your productivity in ways of multi-tasking, multi-threading, and mega-tasking.

PROCESSORS		Z200	Z200 SFF	Z210	Z210 SFF	Z400	Z600	Z800
Part number	Description							
LB209AT	Intel Xeon E5606 2.13 8 MB/1066 4C ^{1, 2}						•	•
LB210AT	Intel Xeon E5607 2.26 8 MB/1066 4C ^{1, 2}						•	•
LB211AT	Intel Xeon E5645 2.40 12 MB/1066 6C ^{1, 2}						•	•
LB213AT	Intel Xeon X5647 2.93 12 MB/1066 4C ^{1, 2}						•	•
LB212AT	Intel Xeon E5649 2.53 12 MB/1066 6C ^{1, 2}						•	•
WG730AT	Intel Xeon E5640 2.66 12 MB/1066 4C ^{1, 2}						•	•
WG731AT	Intel Xeon X5650 2.66 12 MB/1333 6C ^{1, 2}						•	•
WG732AT	Intel Xeon X5660 2.80 12 MB/1333 6C ^{1, 2}						•	•
LB214AT	Intel Xeon X5672 3.20 12 MB/1333 4C ^{1, 2}						•	•
LB215AT	Intel Xeon X5675 3.06 12 MB/1333 6C ^{1, 2}						•	•

DISPLAYS

HP recommends Windows® 7.



The Performance series monitors delivers leading-edge technology with maximum visual performance, optimized productivity, and utmost reliability for power users. This series is well-suited for demanding, professional visual environments and users such as high-end graphic artists, game developers, product designers, analysts, and

engineers as well as those in corporate and institutional environments who require mission-critical performance.

- Wide viewing angles
- Four-way comfort adjust
- Resolutions up to 2560 x 1600
- Plug and play

PERFORMANCE SERIES DISPLAYS



Part number	Description	HP Workstation Z200	HP Workstation Z200 SFF	HP Workstation Z210	HP Workstation Z210 SFF	HP Workstation Z400	HP Workstation Z600	HP Workstation Z800
VM626A8#ABA	HP ZR22w S-IPS LCD Monitor	•	•	•	•	•	•	•
VM633A8#ABA	HP ZR24w S-IPS LCD Monitor	•	•	•	•	•	•	•
KD911A8#ABA	HP LP2475w 24-inch LCD Monitor	•	•	•	•	•	•	•
GV546A8#ABA	HP DreamColor LP2480zx Monitor					•	•	•
VM617A8#ABA	HP ZR30w S-IPS LCD Monitor	•	•	•	•	•	•	•
NEW DISPLAYS FOR FALL 2011								
LM974A8#ABA	HP ZR2040w LED IPS Monitor	•	•	•	•	•	•	•
XW475A8#ABA	HP ZR2240w 21.5-inch LED IP Monitor	•	•	•	•	•	•	•
XW477A8#ABA	HP ZR2440w 24-inch IPS Monitor	•	•	•	•	•	•	•
XW476A8#ABA	HP ZR2740w 27-inch IPS Monitor	•	•	•	•	•	•	•

HP SPACEEXPLORER USB 3D INPUT DEVICE

50 percent fewer mouse clicks. 30 percent greater productivity.

Using SpaceExplorer together with a mouse engages both your hands in a natural, intuitive work style. One hand drives the SpaceExplorer, positioning your

model, then rotating, panning, and zooming in one single, fluid motion. Your mouse hand can simultaneously edit the model or select menu items.



For more information, go to www.hp.com/go/hpspacepilot

HP WORKSTATION ACCESSORIES PROVIDE:

- Improved performance
- Expanded functionality
- Expected reliability
- Innovative technology
- Award-winning customer service
- Great features at an affordable price
- Up to three-year warranty

1. Intel EM64T requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel EM64T. Processor will not operate (including 32-bit operation) without an Intel EM64T-enabled BIOS. Performance will vary depending on your hardware and software configurations. See www.intel.com/info/em64t for more information including details on which processors support Intel EM64T or consult with your system vendor for more information.
2. Intel's numbering is not a measurement of higher performance.
3. 1 GB = 1 billion bytes. Actual formatted capacity is less. Up to 8 GB of hard drive (or system disk) is reserved for the system recovery software. For Vista, up to 12 GB of system disk is reserved for system recovery software.
4. 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.
5. For hard drives, 1 TB = 1 trillion bytes. Actual formatted capacity is less. Up to 8 GB (for XP and XP Pro) and up to 12 GB (for Vista) of system disk is reserved for system recovery software.

To learn more about HP workstation accessories, visit
www.hp.com/accessories/workstations.

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