

HP Z210 Workstations

Low-cost, high-performance mainstream value workstations Do you crave workstation power on a PC budget? We have a workstation for that. Actually, we have two. The new HP Z210 Convertible Minitower (CMT) and Small Form Factor (SFF) Workstations give you workstation-class performance and reliability with faster Xeon processors, ECC memory, professional graphics, enterprise-class storage and application certification at a very appealing price point.

Meaningful innovation

The HP Z210 Workstations offer advanced workstation power and productivity at starting prices that rival traditional desktop computing systems.

- **Easy access**—Inside, with a tool-free chassis for component updates, and outside, with multiple USB ports for quick peripheral connectivity
- **Graphics choices**—New Intel® HD Graphics P3000/2000 and 2D and 3D professional graphics options from NVIDIA and AMD
- **Two compelling designs**—A traditional CMT or the 65% smaller SFF, ideal for space-constrained and cubicle environments.

Breakthrough performance

The HP Z210 Workstations offer over 20 to 67% performance improvement* over the predecessor series products.

 Newest Intel technology—A wide selection of enterprise class, next generation Intel[®] Xeon[®] Processor E3-1200 Family including the high performance 3.5GHz Intel[®] Xeon[®] E3-1280, or 2nd generation Intel[®] Core[™] i3/i5/i7 processors. Selected processors also feature Intel[®] vPro[™] technology for the first time on workstations.

- Fine-tuned performance—Maintain your drivers, operating systems, and applications with HP Performance Advisor
- Compatible with practically any device— Expanded PCIe, FireWire, and USB 2.0 or optional USB 3.0 interfaces; a range of SATA, eSATA, and storage bays; an HP Blu-ray Writer⁹ and 22-in-1 media card reader
- Energy smart—HP's highest energy efficiency workstations so far, with 90% efficient power supplies and ENERGY STAR® v5 configurations available

Reliability where it counts

Deliver results and stay productively up and running with a confidence backed by in-depth engineering, testing, and quality assurance.

- Enterprise-class memory technology—Includes a choice of ECC memory configurations to help ensure data integrity and higher system uptime; lower-cost non-ECC memory options also available.
- Close ISV relationships—HP has invested in and developed an extensive partner ecosystem to ensure that our workstations are tested, proven and certified for the applications your work depends on- including MCAD, Architectural applications, Professional video editing and 3D animation among others.
- Image stability—HP Stable and Consistent options that last for the life of the platforms



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HP recommends Windows[®] 7.

	HP Z210 CMT	HP Z210 SFF
Form factor	Convertible minitower	Small Form Factor; convertible—may be used as desktop or tower; optional tower stand available; optional Integrated Work Center (IWC) available
Operating systems	Genuine Windows® 7 Ultimate or other editions available* HP Installer Kit for Linux (includes drivers for both 32-bit and 64-bit OS versions of Red Hat Enterprise Linux and Novell SLED 11) Novell Sues SLED 11 Linux Red Hat Enterprise Linux Desktop (paper license drop-in-the-box only)	
Available processors ^{1,2,3,4,5}	Intel [®] Pentium processor G620, 2.60 GHz, 65W, 3 MB cache, 1066 MHz memory, Dual-Core, Intel HD Graphics 2000 Intel Pentium processor G850, 2.90 GHz, 65W, 3 MB cache, 1333 MHz memory, Dual-Core, Intel HD Graphics 2000 Intel Core i3-2120 processor, 3.10 GHz, 65W, 3 MB cache, 1333 MHz memory, Dual-Core, HT, Intel HD Graphics 2000 Intel Core i3-2120 processor, 3.30 GHz, 65W, 3 MB cache, 1333 MHz memory, Dual-Core, HT, Intel HD Graphics 2000 Intel Core i3-2130 processor, 3.40 GHz, 65W, 3 MB cache, 1333 MHz memory, Dual-Core, HT, Intel HD Graphics 2000 Intel Core i3-2100 processor, 3.10 GHz, 95W, 6 MB cache, 1333 MHz memory, Dual-Core, HT, Intel HD Graphics 2000 [†] Intel Core i5-2400 processor, 3.10 GHz, 95W, 6 MB cache, 1333 MHz memory, Quad-Core, Intel HD Graphics 2000 [†] Intel Core i5-2500 processor, 3.10 GHz, 95W, 6 MB cache, 1333 MHz memory, Quad-Core, Intel HD Graphics 2000 [†] Intel Core i7-2600 processor, 3.10 GHz, 95W, 6 MB cache, 1333 MHz memory, Quad-Core, Intel HD Graphics 2000 [†] Intel Xeon processor E3-1225, 3.10 GHz, 95W, 6 MB cache, 1333 MHz memory, Quad-Core, Intel HD Graphics 2000 [†] Intel Xeon processor E3-1240, 3.30 GHz, 80W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1240, 3.30 GHz, 80W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1240, 3.30 GHz, 95W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1240, 3.30 GHz, 80W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1240, 3.30 GHz, 95W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1240, 3.50 GHz, 95W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1240, 3.50 GHz, 95W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1270, 3.40 GHz, 80W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1270, 3.40 GHz, 80W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor E3-1270, 3.50 GHz, 95W, 8 MB cache, 1333 MHz memory, Quad-Core, HT [†] Intel Xeon processor	
Chipset		Intel C206 chipset
Memory ^{6,7}	4 DIMM slots, up to 32 GB ECC/16 GB non-ECC, DDR3 1333 MHz (ECC (ECC/non-ECC choice and actual memory speed dependent on processo	
Drive controller ⁸	Inte	grated SATA 3 Gbps/6 Gbps controller
Hard drive(s) ⁹	Up to (3) 3.5-inch 7200 rpm SATA drives: 250, 500 GB, 1, 1.5, 2, 6.0 Tl Up to (3) 2.5-inch 10K rpm SATA drives: 160 GB, 300 GB, 600 GB, 1.8 Up to (3) 2.5-inch SATA solid state drives: 128, 160, 256, 300 GB, 0.9 T	IB max Up to (2) 2.5-inch 10K rpm SATA drives: 160 GB, 300 GB, 0.6 TB max
Optical drives ¹⁰	DVD-ROM, DVD+/-RW DI	Super Multi, HP Blu-ray Writer, HP 22-in-1 Media Card Reader
Drive bays	3 external 5.25-inch bays, 3 internal 3.5-inch HDD bays	1 internal 3.5-inch bay, and 1 shared with external 3.5-inch bay; 1 external 5.25-inch bay
Slots	2 PCI Express Gen2 slots x1 mechanical/x1 electrical, 1 PCI Express Ge mechanical/x16 electrical (used for discrete graphics), 1 PCI Express Ge mechanical/x4 electrical, 1 PCI Express Gen2 slot x8 mechanical/x4 ele slots (full-height, full-length)	12 slot x16 mechanical/x4 electrical (low profile); 1 PCI Express Gen2 x1 mechanical/x1 electrical
Graphics (dual graphics on select cards)	Integrated Graphics: Intel HD Graphics 2000 (Intel Core-branded proces: Intel HD Graphics P3000 (Intel Xeon E3-1xx5 processors) Professional 2D: AMD FirePro 2270, NVIDIA Quadro NVS 295, NVIDIA single or dual graphics cards supported Entry 3D: AMD FirePro V3800, NVIDIA Quadro 400, NVIDIA Quadro 6 Mid-range 3D: AMD FirePro V4800, AMD FirePro V4900, AMD FirePro NVIDIA Quadro 2000, NVIDIA Quadro 4000 (AMO only)	Graphics P3000 (Intel Xeon E3-1xx5 processors) NVS 300— Professional 2D: AMD FirePro 2270, NVIDIA Quadro NVS 295, NVIDIA NVS 300—single or dual graphics cards supported Entry 3D: AMD FirePro V3800, NVIDIA Quadro 400, NVIDIA Quadro 600
Audio	High Definition Integrated Realtek ALC262 Audio and integrated speaker Creative X-Fi Titanium PCIe Audio Card; optional HP Thin USB Powered S	
Network/Remote Manageability	Intel 82579 G	DE Network Connection/Intel® vPro™ with AMT 7.0
Ports	Front: 3 USB 2.0, 1 IEEE 1394a (optional with PCle card), 1 microphone 1 headphone out Rear: 6 USB 2.0, 1 audio in, 1 audio out, 1 serial (optional), 1 parallel (1 microphone in, 1 DVI-I single link, 1 DisplayPort (for use with Intel HD C select processors only); dual display possible across DisplayPort and DVI- 2 rear USB 3.0 ports (PCle card), optional 2 rear IEEE 1394a/1394b pc Internal: 5 USB 2.0 ports available by two separate 2x5 and one 1x5 he	Rear: 6 USB 2.0, 1 audio in, 1 audio out, 1 standard/1 optional serial port, 1 parallel (optional); 2 PS/2, RI-45 (NIC), 1 VGA and 1 DisplayPort, optional 2 rear USB 3.0 ports prophics on , optional internal: 4 USB 2.0 ports available via two 9-pin headers ts (PCle card)
Input devices	PS/2 standard keyboard, USB standard keyboard, USB smart card keyboard, PS/2 optical scroll mouse, USB 2-button optical scroll mouse, USB 3-button optical mouse, USB laser scroll mouse, USB SpaceExplorer, USB SpacePilot	
Dimensions (H x W x D)	17.6 x 7 x 17.9 in (44.76 x 17.78 x 45.43 cm)	Standard desktop orientation: 3.95 x 13.3 x 15.0 in (10.0 x 33.8 x 38.1 cm)
Power supply	400-watt 90% efficient power supply	240-watt 90% efficient power supply
Monitors (screen size diagonally measured)	HP DreamColor LP2480zx Professional Display (24-inch diagonal widescreen), HP ZR30w 30-inch S-IPS LCD Monitor, HP ZR2740w 27-inch LED Backlit IPS Monitor, HP ZR2440w 24-inch LED Backlit IPS Monitor, HP ZR24w 24-inch S-IPS LCD Monitor, HP LP2475w 24-inch Widescreen LCD Monitor, HP ZR2240w 21.5-inch LED Backlit IPS Monitor, HP ZR22w 21.5-inch S-IPS LCD Monitor, HP ZR2040w 20-inch LED Backlit IPS Monitor	
Warranty ¹¹	Limited three-year Mon-Fri 8-5 next business day, parts, labor and 24x7 phone support, terms and conditions may vary. One-year warranty option available in selected countries.	

See http://www.microsoft.com/windows/windows-7/ for details.

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