

# HP Z220 Small Form Factor Workstation



Get workstation performance with next-generation graphics at prices you'd expect from a desktop PC. Available as a Convertible Minitower or a Small Form Factor, HP offers the enterprise-class design that fits you best.



**HP recommends Windows.**

## Designed to fit your business

Choose the expansive Convertible Minitower or the space-saving Small Form Factor design – both complete with tool-free chassis that make adding hard drives and upgrading memory a snap.

Take advantage of world class architecture with the latest in connectivity for external storage devices and peripherals. Transfer data 10x faster than USB 2.0 ports with four integrated super-speed USB 3.0 ports.

Business-built and environmentally aware – featuring a 90% efficient power supply, BFR/PVC free configurations and your choice of ENERGY STAR® qualified configurations.

## High performance, no sweat

Increase performance and reduce energy consumption with next-generation 22nm processors, including the Intel® Xeon® processor E3-1200v2 family and 3rd-generation Intel® Core™ processors.

Give memory intensive applications a boost with 1600 MHz DDR3 memory technology and support for ECC memory configurations to help protect your data integrity.

Keep going at a moment's notice with Intel® Smart Response Technology, a disk cache solution that provides solid state drive like performance, faster boot up times and quick application responsiveness.

Optimize your output with integrated HP Performance Advisor. Run reports, diagnose and fine-tune your workstation specific to your professional applications with just one click.

## Next-generation graphics

Take presentations to the next level and bring work to life with integrated Intel® HD Graphics.

Access your high-performance 2D, 3D, video and media-rich applications regardless of where you are. Preinstalled HP Remote Graphics Software gives you the freedom to work remotely without skipping a beat.

Be ready with the bandwidth you need for tomorrow's generation of PCIe 3D graphics cards from NVIDIA and AMD the moment they're available.



<b>Form Factor</b>	Small Form Factor
<b>Operating System</b>	Windows® 7 Ultimate 64 Windows® 7 Professional 32 Windows® 7 Professional 64 Windows® 7 Home Premium 64 SUSE Linux Enterprise Desktop 11 HP Installer Kit for Linux Red Hat Enterprise Linux WS 5
<b>Processor</b>	Intel® Xeon® E3-1280v2 (3.60 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1270v2 (3.50 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1245v2 with Intel HD Graphics P4000 (3.40 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1240v2 (3.40 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1230v2 (3.30 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1225v2 with Intel HD Graphics P4000 (3.20 GHz, 8 MB cache, 4 cores); Intel® Core™ i7-3770 with Intel HD Graphics 4000 (3.40 GHz, 8 MB cache, 4 cores); Intel® Core™ i3-3240 with Intel HD Graphics 2500 (3.40 GHz, 3 MB cache, 2 cores); Intel® Core™ i3-3220 with Intel HD Graphics 2500 (3.30 GHz, 3 MB cache, 2 cores); Intel® Pentium® G640 with Intel HD Graphics 2000 (2.80 GHz, 3 MB cache, 2 cores)
<b>Chipset</b>	Intel® PCH C216
<b>Memory</b>	Up to 32 GB 1600 MHz DDR3 Unbuffered SDRAM Memory slots: 4 DIMM
<b>Graphics</b>	Integrated, Intel® HD Graphics 2000; Intel® HD Graphics 4000; Intel® HD Graphics P4000 Professional 2D, NVIDIA Quadro NVS 300 (512 MB); NVIDIA Quadro NVS 310 (512 MB) Entry 3D, AMD FirePro V3 900 (1 GB); NVIDIA Quadro 410 (512 MB); NVIDIA Quadro 600 (1 GB)
<b>Removable Media</b>	SATA DVD-ROM; SATA SuperMulti DVD writer
<b>Audio</b>	Integrated High Definition Realtek ALC221 Audio with Line in, Line Out, Microphone, Headphone
<b>Internal Storage</b>	250 GB, up to 2 TB, SATA (7200 rpm) up to 300 GB, SATA (10000 rpm) 128 GB, up to 300 GB, SATA Solid State Drive
<b>Communications</b>	Integrated Intel 82579LM; Intel Gigabit CT Desktop (selected models)
<b>Ports and Connectors</b>	4 USB 3.0; 6 USB 2.0; 1 serial; 1 microphone; 1 headphone; 1 audio line in; 1 audio line out; 1 RJ-45; 2 PS/2
<b>Input Device</b>	HP USB Standard Keyboard; HP PS/2 Standard Keyboard; HP USB CCID SmartCard Keyboard HP USB Laser Mouse; HP USB 2-Button Optical Scroll Mouse; HP PS/2 Optical Scroll Mouse; HP USB Optical 3-Button Mouse
<b>Security</b>	Solenoid Hood Lock & Hood Sensor (selected models); Security Cable with Kensington Lock (selected models); Business PC Security Lock Kit (selected models); Trusted Platform Module (TPM) 1.2 (TPM module disabled where use is restricted by law)
<b>Software</b>	HP Performance Advisor; Intervideo WinDVD with DVD player; HP ProtectTools Security; PDF Complete - Trial Edition; Roxio Easy Media Creator (DVD or Blu-ray disc burner); HP Support Assistant; HP Power Assistant; Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software
<b>Dimensions</b>	33.8 x 38.1 x 10 cm Standard desktop orientation
<b>Weight</b>	Starting at 7.5 kg
<b>Energy Efficiency Compliance</b>	ENERGY STAR® qualified configurations available, EPEAT® where HP registers commercial desktop products. See <a href="http://www.epeat.net">www.epeat.net</a> for registration status in your country.
<b>Power</b>	240W 90% efficient, wide-ranging, Active Power Factor Correction
<b>Expansion Slots</b>	1 PCIe Gen3 x16; 1 PCIe Gen2 x4 (x16 connector); 1 PCIe Gen2 x1; 1 PCI One 13,3 cm (5.25"); One 8,9 cm (3.5") One 8,9 cm (3.5")
<b>Warranty</b>	3-year worldwide parts, labour and next business day onsite service; Terms and conditions may vary, restrictions apply

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## Accessories and services (not included)

HP 160GB SATA Solid State Drive



Solid State Drives (SSDs) are fast becoming a real force with respect to storage in the computer industry. With no moving parts, storage is no longer bound by mechanical barriers to higher performance. HP SSDs for workstations offer overall performance typically beyond that of SAS 15k rpm HDDs (Hard Disk Drives).

**Product number: LZ704AA**

HP SpaceExplorer USB 3D Input Device



The intelligent 3D motion controller, deliver all the functions you need, the second you need them. HP is the only vendor also offering a Performance Tuning Framework for simplified installation and uninterrupted productivity.

**Product number: RY429AA**

HP 2.4GHz Wireless Keyboard and Mouse



This stylish set delivers the convenience, comfort, and elegance of wireless keyboard and laser mouse operation to the computer desktop.

**Product number: NB896AA**

NVIDIA Quadro 600 1.0GB Graphics Card



The low-profile NVIDIA Quadro 600 is the newest entry-level professional graphics solution, delivering maximum productivity and flexibility for engineers and designers.

**Product number: WS093AA**

5-year Next Business Day Onsite



Receive 5 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.

**Product number: U794E**

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