

HP Z230 Tower Workstation

Affordable performance and flexibility, re-defined.



**HP Z230 SFF**

Workstations that fit your workspace

Create a totally immersive work environment for those who demand reliability and performance on a budget. Designed for heavy 24x7x365 workloads, the HP Z230 delivers next-generation processor and graphics technology. It's an amazingly capable Small Form Factor (SFF) for constrained spaces.

Rock solid reliability, affordably priced

With the HP Z230 SFF, you will gain peace of mind from our extreme test and validation processes designed for always-on environments. You can control your environmental impact better than ever¹ while lowering your total cost of ownership with a 92% efficient power supply. Work smarter with software tools designed to deliver better, smarter performance.

Totally immersive. Perfectly productive.

Engineered to impress, the redesigned HP Z230 Small Form Factor Workstation provides the capability and flexibility you demand in a 57% smaller form factor than the tower. You can realize impressive performance, unbelievable storage capacity, wide variety of I/O slots and ports and amazing flexibility while retaining the small form factor size.

Boost your storage performance with the best of both worlds by combining a large hard drive with a solid state drive.⁴ Optimise these workstations for peak performance with HP Performance Advisor that easily configures your system with the best settings designed for specific applications.⁵

The HP Z230 has power to spare—and share.

Enjoy the latest in performance and energy efficiency from Intel's next generation processor architecture. The latest Intel® Xeon® processor E3-1200 v3 family⁶ and rich graphics are designed to keep up with your workload. Easily connect your peripherals and devices using the four PCIe slots⁹, one PCI input/output slot,* ten external USB ports and the fast charging USB port.* With HP RGS you can take your graphics intensive workstation applications wherever you go and collaborate with colleagues around the office or around the world, in real time⁵.

HP Z230 Workstation

HP Z230 SFF¹⁰

Form Factor	Small Form Factor									
Available Operating System	Windows 8.1 Pro 64 bit. Windows 7 Professional 64 bit.									
Available Processor^{6,11}	Processor	GHz	Max Turbo GHz	Cache	Memory	Cores	Hyper-Threading	Intel® vPro™ Technology	Intel® HD Graphics	
	Intel Xeon processor E3-1226v3	3.3	3.7	8 MB	1600 MHz	8	N	Y	P4600	
Chipset	Intel® C226 chipset									
Memory^{12,13}	4 DIMM slots, 16 GB non-ECC, DDR3 1600 MHz									
Drive Controllers¹⁴	Integrated SATA Controller, 5 ports, 6 Gb/s									
Storage¹⁵	500 GB 3.5-inch 7200 rpm SATA drive 128 GB 2.5-inch SATA SSD drive									
Drive Bays	1 internal 3.5-inch bay, 1 internal 2.5-inch bay (for SSD only), 1 internal/external 3.5-inch bay, 1 external Half-Height 5.25-inch bay									
Expansion Slots	1 PCIe Gen3 x16, 1 PCIe Gen2 x4 slot/x16 connector, 1 PCIe Gen2 x1 slot/x4 connector, 1 PCIe Gen2 x1 slot. All slots are Low Profile.									
Available Graphics	Entry 3D: NVIDIA Quadro K420									
Audio	High Definition Integrated Realtek ALC221 Audio and integrated speaker									
Network	Integrated Intel I217LM PCIe GbE Controller;									
Remote Management	Intel® vPro™ with Intel® AMT 9.0									
Ports	Front: 2 USB 3.0; 2 USB 2.0; 1 microphone in; 1 headphone out Rear: 2 USB 3.0; 4 USB 2.0; 1 audio in; 1 audio out; 2 PS/2; RJ-45 (LoM),									
Remote Technology	HP Remote Graphics Software (RGS)									
Input Devices	HP USB keyboard, HP USB optical mouse, Standard desktop orientation: 3.95 x 13.3 x 15.0 in (10.5 x 33.83 x 38.15 cm)									
Power Supply	240-watt, 92% Efficiency power supply; 240-watt Standard Efficiency Power									

- ** Not all features are available in all editions of Windows 8 and 8.1. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8.1 functionality. See www.microsoft.com.
- *** This system may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See microsoft.com/windows/windows-7/ for details.
- **** Each drive requires a PCIe x4 (minimum)
- † After-Market Option
- 1 When comparing previous generations of HP Workstations.
 - 2 Sold separately both as a configure-to-order (CTO) or after-market option (AMO).
 - 3 Does not allow 4 SSDs/SFF drives (CTO/AMO)
 - 4 Requires a compatible Intel® Core processor, enabled chipset, Intel® Rapid Storage technology software and non-SED HDD + optional 2.5" SSD flash cache module. Intel® Smart Response Technology is only available on select HP systems. Read performance levels assume that the data to be read is in the cache. Depending on system configuration, results may vary.
 - 5 Requires Windows 7 or Windows 8. Optional download.
 - 6 Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 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. Intel's numbering is not a measurement of higher performance. See intel.com/info/em64t for more information.
 - 7 Requires both NVIDIA NVS 510 and NVS 310 graphics cards to be installed.
 - 8 Optional feature sold separately or as an add on feature.
 - 9 PCIe Gen 3 is a new technology; card availability may be limited.
 - 10 Some features may not be available in all regions.
 - 11 Intel® Hyper-Threading - The hyper-threading feature is designed to improve performance of multi-threaded 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 intel.com/info/hyperthreading for more information, including which processors support HT Technology.
 - 12 Each processor supports up to 2 channels of DDR3 memory. To realize full performance at least 1 DIMM must be inserted into each channel.
 - 13 Intel® Xeon E3, Intel Core i3 and Intel Pentium processors can support either ECC or non-ECC memory. Intel Core i5 and i7 processors only support non-ECC memory.
 - 14 SATA 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 h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf for RAID capabilities with Linux.
 - 15 For hard drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less.
 - 16 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. Note that DVD-RAM cannot read or write to 2.6 GB Single Sided/5.2 GB Double Sided – Version 1.0 media.
 - 17 Blu-ray Writer - As Blu-ray is a new format containing new technologies, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD DVD movies cannot be played on this workstation.
 - 18 HP Care Pack Services extends service contracts beyond the standard warranties. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at hp.com/go/cpc. Service levels and response times for HP Care Packs may vary depending on your geographic location.
 - 19 Thunderbolt™ 2 is available via an optional add-in card. Thunderbolt is new technology. Thunderbolt cable and Thunderbolt device (sold separately) must be compatible with Windows. To determine whether your device is Thunderbolt Certified for Windows, see thunderbolttechnology.net/products.

