

HP Z230 Tower Workstation



Affordable performance and flexibility, redefined

Affordable performance and flexibility, re-defined.

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 technologies in a redesigned, compact yet impressively expandable tower.



HP recommends Windows.

Rock solid reliability, affordably priced

- Designed for heavy 24x7x365 workloads. The affordable HP Z230 Tower Workstation handles the demanding workloads of business applications.
- Gain peace of mind from our extreme test and validation processes with workstations designed for always-on environments.
- Control your environmental impact better than ever¹ while lowering your total cost of ownership with a 92% efficient power supply and enhanced system reliability.
- Work smarter with your software tools. This HP workstation has earned a wide range of ISV certifications to deliver better, smarter performance.

Power for now, room to grow

- Grow along with your business. The HP Z230 Tower Workstation is designed to scale and expand, so you can add more storage and connectivity when you need it.
- Complete computing power in a new compact design. HP's redesigned and more compact workstation is robust and flexible, while freeing up more space for work.
- Spend less time waiting. Speed up data transfers with six available drive bays including a 6,3 cm (2.5") HD bay for high speed solid state drives.
- Boost your storage performance with RAID, solid state drives, or get the best of both worlds by combining large hard drives with an optional solid state drive as a cache device.²
- Optimize this workstation for peak performance. HP Performance Advisor helps you easily configure your system with the best settings designed for specific applications.³

Totally immersive. Perfectly productive.

- Power to spare—and share. The latest Intel® Xeon® processors⁴ and rich graphics keep up with your work. Plug in and work on up to six displays.^{5,6}
- Enjoy the latest in performance and energy efficiency from Intel's next generation processor architecture.
- Keep more work front-and-center with support for up to six monitors. Choose between cost-effective integrated graphics and powerful 2D or 3D discrete graphics choices.^{5,6}
- Easily connect your peripherals and devices using the four PCIe slots⁷, 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. Collaborate with colleagues around the office or around the world, in real time.

HP Z230 Tower Workstation Specifications Table

HP recommends Windows.



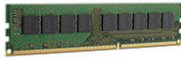
Form Factor	Minitower
Operating System	Windows 8.1 Pro 64 Windows 8.1 64 Windows 8.1 Single Language 64 Windows 7 Professional 64 (available through downgrade rights from Windows 8.1 Pro 64 (National Academic only)) Windows 7 Professional 32 (available through downgrade rights from Windows 8.1 Pro 64 (National Academic only)) Windows 7 Professional 64 (available through downgrade rights from Windows 8.1 Pro 64) Windows 7 Professional 32 (available through downgrade rights from Windows 8.1 Pro 64) Windows 7 Professional 64 Windows 7 Professional 32 SUSE Linux Enterprise Desktop 11 Ubuntu Linux
Processor Family	Intel® Xeon® E3 processor; Intel® Core™ i7 processor; Intel® Core™ i5 processor
Processors	Intel® Xeon® E3-1281v3 (3.7 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1280v3 (3.6 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1271v3 (3.6 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1246v3 with Intel HD Graphics P4600 (3.5 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1245v3 with Intel HD Graphics P4600 (3.4 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1241v3 (3.5 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1240v3 (3.4 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1231v3 (3.4 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1226v3 with Intel HD Graphics P4600 (3.3 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1225v3 with Intel HD Graphics P4600 (3.2 GHz, 8 MB cache, 4 cores); Intel® Core™ i7-4790 with Intel HD Graphics 4600 (3.6 GHz, 8 MB cache, 4 cores); Intel® Core™ i5-4690 with Intel HD Graphics 4600 (3.5 GHz, 6 MB cache, 4 cores); Intel® Core™ i5-4590 with Intel HD Graphics 4600 (3.3 GHz, 6 MB cache, 2 cores); Intel® Core™ i3-4350 with Intel HD Graphics 4600 (3.6 GHz, 4 MB cache, 2 cores); Intel® Core™ i3-4160 with Intel HD Graphics 4400 (3.6 GHz, 3 MB cache, 2 cores); Intel® Core™ i3-4150 with Intel HD Graphics 4400 (3.5 GHz, 3 MB cache, 2 cores); Intel® Pentium® G3240 with Intel HD Graphics (3.1 GHz, 3 MB cache, 2 cores)
Chipset	Intel® PCH C226
Maximum Memory	Up to 32 GB 1600 MHz DDR3 Unbuffered SDRAM Standard memory note: Up to 32 GB ECC/non-ECC. ECC/non-ECC choice and actual memory speed dependent on processor capability.
Memory Slots	4 DIMM
Drive Controllers	Integrated SATA (5 ports 6 Gb/s) with RAID 0, 1 supported. Requires identical hard drives (speeds, capacity, interface).
Internal Storage	250 GB up to 1 TB SATA (10000 rpm) 500 GB up to 3 TB SATA (7200 rpm) up to 500 GB SATA SED 128 GB up to 256 GB SATA SSD up to 256 GB SATA SE SSD 256 GB up to 512 GB HP Z Turbo Drive (PCIe SSD)
Optical Storage	SATA Blu-ray writer; SATA SuperMulti DVD writer; SATA DVD-ROM
Additional Storage	15-in-1 media card reader (optional)
Drive Bays (Internal)	Two 8,9 cm (3.5"); One 6,3 cm (2.5")
Drive Bays (External)	Two 13,3 cm (5.25"); 1 slim optical drive bay
Available Graphics	Integrated: Intel® HD Graphics P4600; Intel® HD Graphics 4600; Intel® HD Graphics 4400; Intel® HD Graphics Professional 2D: NVIDIA® NVS™ 310 (512 MB); NVIDIA® NVS™ 315 (1 GB); NVIDIA® NVS™ 510 (2 GB) Entry 3D: AMD FirePro™ W2100 (2 GB); AMD FirePro™ V3900 (1 GB); NVIDIA® Quadro® K420 (1 GB); NVIDIA® Quadro® K620 (2 GB); NVIDIA® Quadro® K600 (1 GB) Mid-range 3D: NVIDIA® Quadro® K2000 (2 GB) High-end 3D: AMD FirePro™ W7000 (4 GB); NVIDIA® Quadro® K4000 (3 GB) All discrete graphics cards are PCIe.
Expansion Slots	1 PCIe Gen3 x16; 1 PCIe Gen2 x4 (x16 connector); 1 PCIe Gen2 x1 (x4 connector); 1 PCIe Gen2 x1; 1 PCI
Ports and Connectors	Front: 2 USB 3.0; 1 USB 2.0; 1 USB 2.0 (charging); 1 headphone; 1 microphone Back: 2 USB 3.0; 4 USB 2.0; 1 serial (optional); 1 parallel (optional); 2 PS/2; 1 RJ-45; 1 audio line in; 1 audio line out; 2 DisplayPort 1.2 (select models); 2 IEEE 1394b (optional) Internal: 3 USB 2.0 HP Thunderbolt 2 PCIe 1-port I/O card (optional); 1 USB 3.0 and 3 USB 2.0 internal ports available as 2 separate 2x10(3.0x1, 2.0x1) and 2x5(2.0x2) headers; 2 DisplayPort 1.2 outputs from Intel HD graphics (select processors only); 2 IEEE 1394b (via optional PCIe card)
Communications	Integrated Intel I217LM PCIe Gigabit controller; Intel Ethernet I210-T1 PCIe NIC (optional); HP X520 10 Gigabit Ethernet Dual-Port Adapter (optional); HP 10 GbE SFP+ SR Transceiver (optional); Intel 6205 802.11 a/b/g/n PCIe x1 WLAN card (optional)
Audio	Integrated High Definition Realtek ALC221 Audio; HP Thin USB Powered Speakers (optional)
Power	400W 92% efficient, wide-ranging, Active Power Factor Correction
Input Device	USB Standard Keyboard. Optional for some localizations
Security	HP Solenoid Lock and Hood (TWR) Sensor (optional); HP Business PC Security Lock kit (optional); HP UltraSlim Cable Lock Kit (optional)
Software	HP Performance Advisor; HP Remote Graphics Software (RGS) 6.0; PDF Complete Corporate Edition; CyberLink Power2Go/Power2Go; HP PC Hardware Diagnostics UEFI; Buy Office
Dimensions	17 x 44.2 x 39.9 cm Standard minitower orientation
Weight	Starting at 8.8 kg Exact weight depends upon configuration
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available
Environmental Certification	Low halogen
Warranty	3-year limited warranty including 3 years of parts, labour, and next-business-day onsite service. Terms and conditions vary by country. Certain restrictions and exclusions apply.

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Accessories and services (not included)

HP 8GB (1x8GB) DDR3-1600
Non-ECC RAM



HP 8GB (1x8GB) DDR3-1600 Non-ECC RAM DIMMs. Boost the capabilities of your HP Workstation and keep it performing reliably with HP memory. Upgrading your memory is a cost-effective way to improve system performance when insufficient memory and hard drive paging is slowing your applications down.

Product number: B1S54AA

HP Blu-Ray BDXL SATA Drive



Get exceptional backup ability, and create and edit HD videos with the HP Blu-ray BDXL SATA Drive. Maintain efficient transfer rates and conformance to worldwide DVD standards with a high-quality, cost-effective storage solution.

Product number: B4F70AA

HP DX115 Removable Hard
Drive (Frame and Carrier)
Enclosure



The HP DX115 Removable Enclosure is a rugged drive carrier and receiving frame for internally mounting a SATA or SAS hard drive into a 5.25 inch optical drive bay in an HP Workstation.

Product number: FZ576AA

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: U7944E

Learn more at
www.hp.eu/hpoptions

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Messaging Footnotes:

¹ When comparing previous generations of HP Workstations.

² Requires a compatible Intel® Core processor, enabled chipset, Intel® Rapid Storage technology software and non-SED HDD + optional 6,3 cm (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.

³ Requires Windows 7 or Windows 8.

⁴ 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.

⁵ Requires both NVIDIA NVS 510 and NVS 310 graphics cards to be installed.

⁶ Optional feature sold separately or as an add on feature.

⁷ PCIe Gen 3 is a new technology; card availability may be limited.

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