

# HP Z238 Workstation



Affordable price, great workstation.



HP recommends Windows.

- Windows 10<sup>1</sup>
- Intel® Xeon® processors<sup>2</sup>

## **Great workstation that fits your need and budget**

- Ideal for the creative professionals who demand reliability and performance on a budget. Designed for heavy workloads, the HP Z238 delivers current-generation processor and graphics technologies in a microtower form factor that is impressively expandable.

## **Increased productivity at an affordable price**

- With the HP Z238 Workstation, you will gain peace of mind from our extreme test and validation processes designed for mission-critical environments. Work smart with software tools designed to enhance performance.

## **Latest and greatest in technology**

- Enjoy the latest in performance and energy efficiency from the latest Intel® Xeon® processor family<sup>2</sup> designed to keep up with your workload. You can choose between cost-effective integrated graphics or powerful 2D or 3D discrete graphics from NVIDIA® and AMD. 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 time.

## **Current technology in a cost effective package**

- Engineered to impress, the redesigned HP Z238 Workstation provides the capability and flexibility you require for your demanding workloads.
- You can realize impressive performance, unbelievable storage capacity, a wide variety of I/O slots and ports, and amazing flexibility all at an affordable price.
- The HP Z238 Workstation features complete computing power. It can scale up to 64GB memory to ensure you'll always have all the computing power you need for an entry level workstation.
- Boost your storage performance with the HP Z Turbo Drive G2 (NVMe-based PCIe SSD) and added flexibility with RAID options and solid state drives. Optimize these workstations for peak performance with HP Performance Advisor that easily configures your system with the best settings designed for specific applications.<sup>3</sup>

# HP Z238 Workstation Specifications Table



<b>Form Factor</b>	Microtower
<b>Operating System</b>	Windows 10 64 <sup>1</sup> Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro) <sup>2</sup> Windows 10 Home 64 High-end <sup>1</sup> Windows 10 Home 64 Chinese Market CPMP <sup>1</sup> Windows 7 Professional 64 <sup>3</sup> HP Linux-ready
<b>Processor Family</b>	Intel® Xeon® E3 processor; Intel® Core™ i7 processor; Intel® Core™ i5 processor; Intel® Core™ i3 processor; Intel® Pentium® Dual-Core processor
<b>Processors<sup>3,4</sup></b>	Intel® Xeon® E3-1240v5 (3.5 GHz, up to 3.9 GHz with Intel Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Xeon® E3-1230v5 (3.4 GHz, up to 3.8 GHz with Intel Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Xeon® E3-1225v5 with Intel HD Graphics P530 (3.3 GHz, up to 3.7 GHz with Intel Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Core™ i7-6700 with Intel HD Graphics 530 (3.4 GHz, up to 4.0 GHz with Intel Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Core™ i5-6600 with Intel HD Graphics 530 (3.3 GHz, up to 3.9 GHz with Intel Turbo Boost Technology, 6 MB cache, 4 cores) Intel® Core™ i3-6100 with Intel HD Graphics 530 (3.7 GHz, 3 MB cache, 2 cores) Intel® Pentium® G4400 with Intel HD Graphics 510 (3.3 GHz, 3 MB cache, 2 cores)
<b>Chipset</b>	Intel® C236
<b>Maximum Memory</b>	64 GB DDR4-2133 SDRAM Up to 64 GB ECC/non-ECC. ECC/non-ECC choice and actual memory speed dependent on processor capability.
<b>Memory Slots</b>	4 DIMM
<b>Drive Controllers</b>	Integrated SATA (4 ports 6 Gb/s) with RAID 0, 1 supported. Requires identical hard drives (speeds, capacity, interface)
<b>Internal Storage</b>	500 GB up to 4 TB SATA (7200 rpm) <sup>6</sup> up to 256 GB SATA SSD <sup>4</sup> up to 512 GB HP Z Turbo Drive (NVMe PCIe SSD)
<b>Optical Storage</b>	Slim SATA DVD-ROM; Slim SATA SuperMulti DVD+/-RW <sup>7</sup>
<b>Available Graphics</b>	Integrated: Intel® HD Graphics P530; Intel® HD Graphics 530; Intel® HD Graphics 510 Professional 2D: NVIDIA® NVS™ 315 (1 GB) Entry 3D: AMD FirePro™ W2100 (2 GB); NVIDIA® Quadro® K420 (1 GB); NVIDIA® Quadro® K620 (2 GB); NVIDIA® Quadro® K1200 (4 GB) (All discrete graphics cards are PCIe.)
<b>Audio</b>	Integrated Realtek ALC221 HD audio
<b>Communications</b>	Integrated Intel® I219LM PCIe Gigabit Controller; Intel® Ethernet I210-T1 PCIe NIC (optional)
<b>Expansion Slots</b>	1 PCIe Gen3 x16; 1 PCIe Gen3 x4 (x16 connector); 1 PCIe Gen3 x1 (x4 connector); 1 PCIe Gen3 x1
<b>Ports and Connectors</b>	Front: 2 USB 3.0; 1 USB 2.0; 1 USB 2.0 charging port; 1 headphone; 1 microphone Back: 6 USB 3.0; 1 serial (optional); 2 PS/2; 1 RJ-45; 1 audio line in; 1 audio line out; 3 DisplayPort 1.2 (select models); 2 IEEE 1394b (optional) Internal: 2 USB 2.0 1 USB 3.0 and 2 USB 2.0 internal ports available as 2 separate 2x6(3.0x1, 2.0x1) and 1x6(2.0x1) headers supporting one HP Internal USB 2.0 Port Kit and one USB 3.0 Media Card Reader
<b>Drive Bays (Internal)</b>	Two 3.5"
<b>Drive Bays (External)</b>	One 9.5mm slim ODD
<b>Input Device</b>	HP USB Business Slim Keyboard; HP PS/2 Business Slim Keyboard <sup>8</sup> ; HP USB 1000 dpi Laser Mouse; HP USB Optical 3-Button Mouse; HP USB Optical Mouse; HP PS/2 Mouse <sup>8</sup>
<b>Software</b>	HP Performance Advisor; HP Remote Graphics Software (RGS) 7.1; PDF Complete Corporate Edition; HP PC Hardware Diagnostics UEFI; Buy Office
<b>Security</b>	HP Business PC Security Lock kit (optional)
<b>Power</b>	280 W 85% efficient, wide-ranging, active PFC
<b>Dimensions</b>	17 x 35.8 x 35.5 cm (Standard microtower orientation)
<b>Weight</b>	Starting at 6.8 kg
<b>Warranty</b>	Protected by HP Services, including a standard limited 3 years parts, 3 years labor, and 3 years onsite service (3/3/3) limited warranty. Certain restrictions and exclusions apply.

## HP Z238 Workstation

### Recommended Accessories and Services

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#### HP SpaceMouse Pro USB 3D Input Device



SpaceMouse Pro is the latest addition to 3Dconnexion's line of professional 3D mice. With an advanced ergonomic design and innovative On-Screen Display, it delivers superior comfort and a simpler, more productive workflow.

**Product number: B4A20AA**

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#### HP Z Display Z24n 24-inch Narrow Bezel IPS Display



Create a seamless 16:10 multi-display<sup>1</sup> setup with the HP Z24n Narrow Bezel IPS Display, which has a virtually borderless screen for maximum impact imagery, factory color calibration to ensure optimal color accuracy, and flexible connectivity for all of your devices.

**Product number: K7B99A8**

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#### HP Z Display Z22n 21.5- inch IPS Display



Create a captivating view with minimal visual disruptions with the HP Z22n Narrow Bezel IPS Display. Nearly borderless on three sides, it also includes factory color calibration for consistent color between projects and displays and flexible device connectivity.

**Product number: M2J71A8**

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## Messaging Footnotes

<sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>.

<sup>2</sup> Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

<sup>3</sup> Requires Windows 7 or Windows 8.

## Technical Specifications Footnotes

<sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See <http://www.microsoft.com>.

<sup>2</sup> This system is preinstalled with Windows® 7 Pro software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

<sup>3</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. See <http://www.microsoft.com>.

<sup>4</sup> Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

<sup>5</sup> Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost> for more information.

<sup>6</sup> For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 20 GB of system disk is reserved for Windows 7, Up to 30 GB of system disk is reserved for Windows 8 and higher system recovery software.

<sup>7</sup> Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write to 2.6GB Single Sided/5.2 Double Sided-Version 1.0 Media.

<sup>8</sup> Optional or add-on feature

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