

# HP Z240 Small Form Factor Workstation



## Power, price, and size

HP's entry level workstations just got better. The HP Z240 with two amazingly versatile form factors, packs the performance, features, and reliability of a workstation into the price point of a desktop PC.



## HP recommends Windows 10 Pro.

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

### Powered to manage your challenges

- Powerful processors, graphics, memory, and two optional ultra-fast HP Z Turbo Drives<sup>3</sup> make the HP Z240 a true workstation-class solution. Handle your growing and complex workloads with performance for any stage in your work process.

### The workstation that fits your workspace

- Take back your workspace. At 57 percent smaller than the tower, the HP Z240 SFF conserves space and maintains workstation performance. And with HP's no compromise reliability, your HP Z240 is designed to work today and well into the future.

### Priced for your budget

- HP's most affordable workstation allows you to customize your experience while still balancing your IT budget. HP reliability, thorough testing, and ISV certification means your HP Z240 is designed as a long-term budget friendly solution.

### Featuring

- Support your unique user needs with a choice of Windows 10 Pro<sup>1</sup> or Linux® operating systems.
- Get more performance, expandability and flexibility than our previous generations.
- Achieve the performance you need with your choice of next generation Intel® Xeon® processors or Intel® Core™ processors.<sup>2</sup>
- Handle large files, reduce work time and increase performance with the optional HP Z Turbo Drive.<sup>3</sup>
- Up to 64 GB DDR4 ECC memory helps provide no compromise capacity, performance, and reliability.
- Ignite productivity with NVIDIA® professional graphics cards in 2D or 3D.<sup>3</sup>
- Help internal components stay clean and cool with a removable and cleanable dust filter.
- Charge your device using the fast charging front USB port.
- Choose the power supply that fits your needs with up to 92% efficiency.<sup>3</sup>

# HP Z240 Small Form Factor Workstation Specifications Table

HP recommends Windows 10 Pro.



<b>Form Factor</b>	Small Form Factor
<b>Operating System</b>	Windows 10 Pro 64 – HP recommends Windows 10 Pro. <sup>1</sup> Windows 10 Home 64 <sup>1</sup> Windows 7 Professional 64 <sup>2</sup> Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro 64) <sup>3</sup> HP Linux®-ready
<b>Processor Family</b>	7th Generation Intel® Xeon® processor (E3-1270 v6, E3-1245 v6, E3-1240 v6, E3-1230 v6, E3-1225 v6, E3-1205 v6 models); 7th Generation Intel® Core™ i7 processor (i7-7700K, i7-7700 models); 7th Generation Intel® Core™ i5 processor (i5-7600, i5-7500 models); 7th Generation Intel® Core™ i3 processor (i3-7100 model); 6th Generation Intel® Xeon® processor; 6th Generation Intel® Core™ i7 processor; 6th Generation Intel® Core™ i5 processor; 6th Generation Intel® Core™ i3 processor; Intel® Pentium® processor <sup>4</sup>
<b>Processors<sup>4,5</sup></b>	Intel® Xeon® E3-1270 v6 with Intel® HD Graphics P630 (3.8 GHz, up to 4.2 GHz with Intel® Turbo Boost Technology 2.0, 8 MB cache, 4 cores); Intel® Xeon® E3-1245 v6 with Intel® HD Graphics P630 (3.7 GHz, up to 4.1 GHz with Intel® Turbo Boost Technology 2.0, 8 MB cache, 4 cores); Intel® Xeon® E3-1230 v6 with Intel® HD Graphics P630 (3.5 GHz, up to 3.9 GHz with Intel® Turbo Boost Technology 2.0, 8 MB cache, 4 cores); Intel® Xeon® E3-1225 v6 with Intel® HD Graphics P630 (3.3 GHz, up to 3.7 GHz with Intel® Turbo Boost Technology 2.0, 8 MB cache, 4 cores)(Performance model only); Intel® Xeon® E3-1205 v6 with Intel® HD Graphics P630 (3 GHz, 8 MB cache, 4 cores); Intel® Xeon® E3-1270 v5 (3.6 GHz, up to 4 GHz with Intel Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Xeon® E3-1245 v5 with Intel HD Graphics P530 (3.5 GHz, up to 3.9 GHz with Intel Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Xeon® E3-1230 v5 (3.4 GHz, up to 3.8 GHz with Intel Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Xeon® E3-1225 v5 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™ i7-7700K with Intel® HD Graphics 630 (4.2 GHz, up to 4.5 GHz with Intel® Turbo Boost Technology 2.0, 8 MB cache, 4 cores); Intel® Core™ i7-7700 with Intel® HD Graphics 630 (3.6 GHz, up to 4.2 GHz with Intel® Turbo Boost Technology 2.0, 8 MB cache, 4 cores); Intel® Core™ i7-6700 with Intel® HD Graphics 530 (3.4 GHz, up to 4 GHz with Intel Turbo Boost, 8 MB cache, 4 cores); Intel® Core™ i7-6700K with Intel HD Graphics 530 (4 GHz, up to 4.2 GHz with Intel Turbo Boost, 8 MB cache, 4 cores); Intel® Core™ i5-7600 with Intel® HD Graphics 630 (3.5 GHz, up to 4.1 GHz with Intel® Turbo Boost Technology 2.0, 6 MB cache, 4 cores); Intel® Core™ i5-7500 with Intel® HD Graphics 630 (3.4 GHz, up to 3.8 GHz with Intel® Turbo Boost Technology 2.0, 6 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, 6 MB cache, 4 cores); Intel® Core™ i5-6500 with Intel HD Graphics 530 (3.2 GHz, up to 3.6 GHz with Intel Turbo Boost, 6 MB cache, 4 cores); Intel® Core™ i3-7100 with Intel® HD Graphics 630 (3.9 GHz, 3 MB cache, 2 cores); Intel® Core™ i3-6300 with Intel HD Graphics 530 (3.8 GHz, 4 MB cache, 2 cores); Intel® Pentium® G4560 with Intel® HD Graphics 610 (3.5 GHz, 3 MB cache, 2 cores)
<b>Chipset</b>	Intel® C236
<b>Maximum Memory</b>	Up to 64 GB DDR4-2400 ECC or non-ECC SDRAM Standard memory note: Transfer rates up to 2400 MT/s
<b>Memory Slots</b>	4 DIMM
<b>Drive Controllers</b>	Integrated SATA (4 ports 6 Gb/s) with RAID 0 (striped array) and RAID 1 (mirrored array) supported on Windows operating system only. Requires identical hard drives (speeds, capacity, interface). Integrated RAID 0, 1 (data configuration) for PCIe SSDs.
<b>Internal Storage</b>	500 GB up to 3 TB SATA (7200 rpm) <sup>6</sup> up to 500 GB SATA SED <sup>6</sup> 128 GB up to 2 TB SATA SSD <sup>6</sup> up to 256 GB SATA SED SSD <sup>6</sup> up to 1 TB (8 GB cache) SATA SSHD (7200 rpm) <sup>6</sup> 256 GB up to 1 TB HP Z Turbo Drive G2 (NVMe PCIe SSD) <sup>6</sup> 256 GB up to 1 TB HP Z Turbo Drive G2 (NVMe™ TLC PCIe® SSD) <sup>6</sup>
<b>Optical Storage</b>	HP Slim DVD-ROM Drive; HP Slim Blu-ray Writer; HP Slim DVD-Writer DVD-RW Drive <sup>7,8</sup>
<b>Additional Storage</b>	SD media card reader (optional)
<b>Drive Bays (Internal)</b>	One 8,9 cm (3.5"); One 6,3 cm (2.5"); One shared 8,9 cm (3.5") shared with external 8,9 cm (3.5") bay
<b>Drive Bays (External)</b>	One shared 8,9 cm (3.5") shared with internal 8,9 cm (3.5") bay; One slim ODD
<b>Available Graphics</b>	Integrated: Intel® HD Graphics 530; Intel® HD Graphics P530 <sup>9</sup> Professional 2D: NVIDIA® NVS™ 310 (1 GB); NVIDIA® NVS™ 315 (1 GB); NVIDIA® NVS™ 510 (2 GB) Entry 3D: NVIDIA® Quadro® P2000 (5 GB); AMD FirePro™ W2100 (2 GB); NVIDIA® Quadro® K420 (2 GB); NVIDIA® Quadro® K620 (2 GB) Mid-range 3D: NVIDIA® Quadro® K1200 (4 GB); AMD FirePro™ W4300 (4 GB)
<b>Expansion Slots</b>	1 PCIe Gen3 x16; 2 PCIe Gen3 x1 (x1 connector); 1 PCIe Gen3 x4 (x16 connector); 1 M.2 PCIe Gen3 x4 All slots are low profile
<b>Ports and Connectors</b>	Front: 2 USB 3.0; 2 USB 2.0 (1 charging); 1 headphone; 1 microphone/headphone Back: 6 USB 3.0; 3 DisplayPort 1.2; 1 serial; 2 PS/2; 1 RJ-45; 1 audio line-in; 1 audio line-out Internal: 1 USB 3.0; 2 USB 2.0 1 USB 3.0 and 2 USB 2.0 ports available as 2 separate 2x10(3.0 x1, 2.0 x1) and 1x6(2.0 x1) header. Supports one HP Internal USB 2.0 Port Kit and one USB 3.0 media card reader.
<b>Communications</b>	LAN: Integrated Intel® i219LM PCIe GbE; Intel® Ethernet I210-T1 PCIe NIC (optional) WLAN: Intel® 8260 802.11 a/b/g/n/ac PCIe wireless NIC (optional); HP X530 10 GbE Dual-Port Adapter (optional); HP 10 GbE SFP+ SR Transceiver <sup>10</sup>
<b>Power</b>	240 W 92% efficient, wide-ranging, active PFC
<b>Input Device</b>	HP Wireless Business Slim Keyboard; HP USB CCID SmartCard Keyboard; HP USB Business Slim Keyboard; HP PS/2 Business Slim Keyboard <sup>11</sup> HP USB 1000 dpi Laser Mouse; HP USB Optical 3-Button Mouse; HP USB Optical Mouse; HP PS/2 Mouse; 3Dconnexion CADMouse; HP USB Hardened Mouse <sup>11</sup>
<b>Security</b>	HP Solenoid Lock and Hood Sensor (optional); HP Business PC Security Lock kit (optional); HP UltraSlim Cable Lock Kit (optional); HP Keyed Cable Lock (optional)
<b>Software</b>	HP Performance Advisor; HP Remote Graphics Software (RGS) 7.1; PDF Complete - Corporate Edition; Cyberlink Power DVD and Power2Go; HP PC Hardware Diagnostics UEFI; HP Client Security Software; Buy Office <sup>14</sup>
<b>Dimensions</b>	3.95 x 13.3 x 15.1 in 338 x 381 x 100 mm Standard desktop orientation
<b>Weight</b>	13.23 lb Starting at 5.7 kg Exact weight depends upon configuration
<b>Energy Efficiency Compliance</b>	ENERGY STAR® certified and EPEAT® registered configurations available <sup>12</sup>
<b>Environmental Certification</b>	Low halogen <sup>13</sup>
<b>Compatible Displays</b>	HP Z27s 68,6 cm (27") IPS UHD Display; HP Z27q 68,6 cm (27") IPS 5K Display; HP Z24s 60,45 cm (23.8") IPS UHD Display; HP Z Display Z30i 76,2 cm (30") IPS LED Backlit Monitor; HP Z27n 68,6 cm (27") Narrow Bezel IPS Display; HP Z24n 61 cm (24") Narrow Bezel IPS Display; HP Z23n 58,4 cm (23") IPS Display; HP Z22n 54,6 cm (21.5") IPS Display; HP DreamColor Z24x Professional Display; HP DreamColor Z27x Professional Display
<b>Warranty</b>	3-year (3-3-3) limited warranty and service offering includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

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## Accessories and services (not included)

**NVIDIA NVS 510 2GB Graphics Card**



The NVIDIA® NVS 510 business graphics solution delivers a reliable hardware and software platform for a stable environment and robust IT management tools for seamless enterprise deployment.

**Product number: C2J98AA**

**HP Z Display Z24i 24-inch IPS LED Backlit Monitor**



Get outstanding image accuracy, exceptional adjustability, and mission-critical reliability optimized for commercial environments. Built with IPS Gen 2 panels, the HP Z24i 61 cm (24") IPS Display delivers power savings over first-generation IPS technology and extra-wide viewing angles that foster collaboration.

**Product number: D7P53A4**

**HP Z Turbo Drive G2 256GB PCIe Solid State Drive**



Super charge your productivity and creativity and deliver optimized HP Workstation workflows with the HP Z Turbo Drive G2 PCIe SSD, which delivers four times the read performance of traditional SSDs at a cost that's remarkably similar.

**Product number: M1F73AA**

**HP Z240 SFF Dust Filter**



Maintain optimal performance and help reduce the risk of dust ingress that can cause system failures with the reusable HP Z240 TWR Dust Filter.

**Product number: M6W76AA**

**HP 8GB (1x8GB) DDR4-2133 non-ECC RAM**



Boost the capabilities of your HP Workstation and improve system performance and application responsiveness with low-power, high-speed DDR4 memory from HP.

**Product number: TOE51AA**

**NVIDIA Quadro K1200 4GB TWR/SFF Kit**



Deliver outstanding professional 3D application performance for product development challenges and media and entertainment creation with the NVIDIA® Quadro® K1200 low profile plug-in graphics card designed for small form factor HP Z Workstations.

**Product number: T7T59AA**

**HP 5 year Next Business Day Onsite Hardware Support for Workstations**

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

**Product number: U7944E**



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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 and/or software 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> Sold separately or as alternate features.

## 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, 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> 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>3</sup> This system is preinstalled with Windows 7 Professional 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>4</sup> 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. 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 and solid state drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB of system disk is reserved for 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> With Blu-Ray, 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 Desktop PC.

<sup>9</sup> HD content required to view HD images.

<sup>10</sup> Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited.

<sup>11</sup> Optional or add-on feature.

<sup>12</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.

<sup>13</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.

<sup>14</sup> HP Performance Advisor and HP Remote Graphics Software requires Windows and an internet connection.

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