

HP Z6 G5 Tower Workstation (81N37UT)



Overview

Unleash extreme graphics performance

Accelerate your most graphics-intensive projects—from machine learning and simulation to advanced visual effects. The Z6 desktop workstation is redesigned with new, powerful single socket technology and now fits up to 3x more GPUs than the previous gen while also providing plenty of room to expand.

Remarkable performance. Whisper-quiet acoustics

Speed up graphics-intensive workflows with high-end GPUs, an Intel® Xeon® W CPU, and loads of DDR5 memory.

Comprehensive security. Reliability you can trust

Trust the 360K hours of testing, certifications for pro apps, and world-class HP Wolf Security for Business[7]

Upgrade and expand with ease

Evolve your PC with space for high-end GPUs, loads of memory and storage, plus front-accessible NVMe drives.

Maximize your IT lifecycle

Designed for simpler IT management, the Z6 is built for longevity with a 3 year lifecycle—longer than entry workstations. Plan for the future and avoid re-qualifying devices every year, saving you serious time and money.

Features

Windows 11

Work anywhere without compromising on performance or security with Windows 11 powered by HP's collaboration and connectivity technology.

Intel® Xeon® W processor

Get optimized performance whether your professional application utilizes high core count or high frequency with the Intel® Xeon® W processor.^[2]

Security is your top priority

The HP Wolf Pro Security Edition provides preconfigured enterprise-level PC protection for small and medium sized businesses.

[7] HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite and Workstation products. See product details for included security features and OS requirement.

[2] 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, branding and/or naming is not a measurement of higher performance.

Specifications

| | |
|--|--|
| Form factor | Tower |
| Operating system | Windows 11 Pro |
| Processor family | Intel® Xeon® W processor |
| Processor | Intel® Xeon® W5-3423 (up to 4.2 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 12 cores, 24 threads) ^[6,7] |
| Chipset | Intel® W790 |
| Memory | 16 GB DDR5-4800 MHz RAM (1 x 16 GB) |
| Internal Storage | 512 GB HP Z Turbo Drive PCIe® NVMe™ TLC M.2 SSD |
| Internal drive bays | Four PCIe® M.2 SSD; Four 3.5" HDD |
| External drive bays | Four NVMe™ M.2 SSD; Two 3.5" HDD; Two 9.5 mm ODD |
| Compatible displays | All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays |
| Audio | Realtek ALC3205-CG |
| Minimum dimensions (W x D x H) | 16.89 x 46.48 x 44.45 cm |
| Minimum dimensions (W x D x H) | 6.65 x 18.30 x 17.50 in |
| Weight | Starting at 12.8 kg <i>(Exact weights depend upon configuration (System weight only))</i> |
| Weight | Starting at 28.2 lb <i>(Exact weights depend upon configuration (System weight only))</i> |
| Keyboard | HP USB 320K Keyboard |
| Pointing device | HP Wired 320M Mouse |
| Ports | 2 SuperSpeed USB Type-C® 20Gbps signaling rate (USB Power Delivery); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo ^[29] |
| Expansion slots | 2 PCIe 4 x4; 2 PCIe 4 x16; 1 PCIe 3 x16; 1 PCIe 5 x16 <i>(Rear bulkhead access can be achieved through all slots but 2 PCIe 4 x8 are internal access only for M.2.)</i> |
| Ports | 4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo |
| Package dimensions (W x D x H) | 31.3 x 61.0 x 59.3 cm |
| Package weight | Starting at 17.25 kg |
| Management features | HP Driver Packs; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Smart Support |
| Sustainable impact specifications | Low Halogen; 40% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; External power supply 90% efficiency; Plastic cushion inserts contain 80% recycled content; Ocean-bound plastic in system fan; 10% post-industrial recycled metal; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable |

Security management

Full volume encryption; HP Secure Erase; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP BIOSphere; HP Sure Run; HP Sure Click; HP Sure Sense; HP Sure Admin; HP Platform Certificate; HP Sure Start; HP Sure Recover; Self-Encrypted Drives^[20,21,22,23,24,25,26,27]

Software included

HP PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics Windows; HP Image Assistant; HP Manageability Integration Kit; HP Anyware; HP Data Science Stack Manager^[17,18,19]

UPC number

(ABA) 197497248852; (ABC) 197497248869

Additional specifications

| | |
|-----------------------------------|---|
| Available software | HP Smart Support |
| ECC memory | non-ECC |
| Graphics | Discrete |
| Graphics (discrete) | NVIDIA® T400 (4 GB GDDR6 dedicated) |
| Graphics card brand | NVIDIA® |
| Graphics card memory size | 4 |
| Graphics card memory size uom | GB |
| Graphics card memory type | GDDR6 |
| I/O Port location | Front (Entry version) |
| I/O Port location | Front (Premium version) |
| Keyboard interface | USB |
| Legal tagline | HP recommends Windows 11 Pro for business |
| Memory and storage | 16 GB memory; 512 GB SSD storage |
| Memory layout (slots & size) | 1 x 16 GB |
| Memory module type | DIMM |
| Memory size | 16 |
| Memory size uom | GB |
| Memory speed | 4800 |
| Memory speed uom | MHz |
| Memory type | DDR5 |
| Model Number | T400 |
| Number of memory slots | 1 |
| Package dimensions (W x D x H) | 12.32 x 24.02 x 23.35 in |
| Package weight | Starting at 38.03 lb |
| Playbook TS icon OS | http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png |
| Playbook TS icon battery life | http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png |
| Playbook TS icon connectivity | http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png |
| Playbook TS icon dimensions tower | https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201997.png |
| Playbook TS icon graphics | https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png |
| Playbook TS icon memory | https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png |
| Playbook TS icon processor | https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png |
| Playbook TS icon storage | http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png |

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| Playbook TS icon weight imperial | http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png |
| Playbook TS icon weight metric | https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png |
| Processor Brand | Intel® |
| Processor cache | 30 MB L3 |
| Processor core | 12 |
| Processor family | Xeon® W |
| Processor frequency technology | Intel® Turbo Boost Technology |
| Processor maximum frequency | 4.2 |
| Processor maximum frequency uom | GHz |
| Processor model | 3423 |
| Processor threads | 24 |
| Product long name specifications | HP Z6 G5 Tower Workstation, Windows 11 Pro, Intel® Xeon® W, 16GB RAM, 512GB SSD, NVIDIA® T400 |
| Product short name specifications | HP Z6 G5 Tower Workstation, Intel® Xeon® W, 16GB RAM, 512GB SSD |
| Security Software Licenses | HP Wolf Pro Security Edition (1 year) |
| Standard memory note | Transfer rates up to 4800 MT/s. |
| Storage brand 01 | HP Z Turbo Drive |
| Storage capacity | 512 |
| Storage capacity uom 01 | GB |
| Storage controller | Integrated SATA 6.0 Gb/s; Integrated RAID 0, 1 available for SATA drives |
| Storage form factor 01 | M.2 |
| Storage interface 01 | PCIe® |
| Storage interface protocol 01 | NVMe™ |
| Storage memory technology 01 | TLC |
| Storage type | SSD |
| Storage type 01 | SSD |
| UNSPSC code | 43211515 |

[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. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

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

[17] HP Performance Advisor Software - HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: <https://www8.hp.com/us/en/workstations/performance-advisor.html>.

[18] HP Support Assistant requires Windows and Internet access.

[19] HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html> .

[20] HP Sure Click requires Windows 11 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

[21] HP Sure Start Gen7 is available on select HP PCs and Workstations. See product specifications for availability.

[22] HP Sure Recover Gen4 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

[23] HP Sure Sense requires Windows 11 Pro or Enterprise and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.

[24] HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.

[25] HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

[26] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.

[27] HP BIOSphere Gen6 features may vary depending on the platform and configurations.

[29] Front entry contain: 1 headset connector; 4 SuperSpeed USB Type-A 5Gbps signaling rate. Front Entry and Front Premium offer Battery Charging 1.2 through one of the USB Type-A ports.

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