



# HP Z6 G5 A Workstation (9J2K7UT)



## Overview

### Maximized Cores. Astounding Graphics. Unbound Potential

The Z6 G5 A is a powerhouse for virtual production, 3D rendering, AI and machine learning. Its innovative system design, with a next-gen AMD Ryzen™ Threadripper™ PRO CPU,[1] combines an astounding number of cores in a single CPU with multiple GPUs.[2] Create and render at once on intensive projects.

### Create, render, process—all at once

Tear through virtual production, 3D modeling, AI and machine learning. The system design packs a staggering number of cores into a single workstation CPU[1] so there's room for multiple high-end GPUs.[2] And do it all with efficient performance per watt.

### Comprehensive security. Trusted reliability

Get peace of mind with a workstation that's built to endure. The Z6 G5 A undergoes 360K hours of rigorous testing, MIL-STD testing, [3] and is certified for pro apps. And with HP Wolf Security for Business, it's protected below, in, and above the OS.[4]

### Expandable. Flexible. Whisper Quiet

Designed to pack all the power and components you need now with room to grow. Get maximum expandability with large storage and memory configurations. Conquer intense projects with a device designed to run quiet and cool.

### Part of the world's most sustainable PC portfolio[5]

At HP, we care about the impact our products have on our people, communities, and the planet. Z products are designed with sustainability at the forefront. So, you can take pride in choosing Z, knowing that you are helping protect our shared future.

# Features

## Windows 11

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

## AMD® Ryzen™ processor

Bring your ideas to life quickly and effectively with the latest AMD® Ryzen™ processors.

## Security is your top priority

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

## HP Anyware

Access the power of your Z from any device with HP Anyware—remote access software delivering fast responsiveness and image quality, even in film editing and data visualizations.<sup>[6]</sup>

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*[1] 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. AMD's numbering is not a measurement of clock speed.*

*[2] Graphics are sold separately or as an optional feature.*

*[3] Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.*

*[4] HP Wolf Security for Business requires Windows 10 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.*

*[5] Applies to HP PCs, Workstations and Displays manufactured after January 2019. Based on most Gold and Silver EPEAT® registrations by meeting all required criteria and achieving 50-74% of the optional points for EPEAT® Silver and 75-100% of the optional points for EPEAT® Gold according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.*

*[6] Network access required. HP Anyware software and licensing are available through a 1- or 3-year subscription. Renewal is required after the subscription term. HP Anyware subscriptions are based on the number of concurrent PCoIP connections used (pay for the number of host connections, not the software) with a minimum order quantity of 5. For a limited time, an HP Anyware Professional subscription also includes access and support for ZCentral Remote Boost and ZCentral Connect and is available for purchase through an HP reseller or contact sales at [hp.com/Anyware](http://hp.com/Anyware). ZCentral Remote Boost Sender requires Windows 10 and 11, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. ZCentral Connect requires Windows (10 or 11) or Windows Server (2016 or 2019) operating system, Microsoft Active Directory and Intel Active Management Technology for select features. For system requirements and to install HP Anyware and Anyware Manager, refer to the Admin Guides at: <https://docs.teradici.com/find/product/hp-anyware>.*

## Specifications

|                                          |                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form factor</b>                       | Tower                                                                                                                                                                                                                                                                                                                                                          |
| <b>Operating system</b>                  | Windows 11 Pro <sup>[1]</sup>                                                                                                                                                                                                                                                                                                                                  |
| <b>Processor family</b>                  | AMD Ryzen™ Threadripper™ PRO processor                                                                                                                                                                                                                                                                                                                         |
| <b>Processor</b>                         | AMD Ryzen™ Threadripper™ Pro 7975WX (up to 5.3 GHz max boost clock, 128 MB L3 cache, 32 cores, 64 threads) <sup>[6,7]</sup>                                                                                                                                                                                                                                    |
| <b>Memory</b>                            | 32 GB DDR5-5600 MHz ECC RAM (2 x 16 GB)                                                                                                                                                                                                                                                                                                                        |
| <b>Internal Storage</b>                  | 1 TB HP Z Turbo Drive PCIe® Gen4 TLC M.2 SSD                                                                                                                                                                                                                                                                                                                   |
| <b>Internal drive bays</b>               | Two 3.5" HDD; Four PCIe® M.2 SSD                                                                                                                                                                                                                                                                                                                               |
| <b>External drive bays</b>               | Four NVMe™ M.2 SSD; One 9.5 mm ODD                                                                                                                                                                                                                                                                                                                             |
| <b>Audio</b>                             | Realtek ALC3205-CG                                                                                                                                                                                                                                                                                                                                             |
| <b>Minimum dimensions (W x D x H)</b>    | 16.9 x 46.5 x 44.5 cm                                                                                                                                                                                                                                                                                                                                          |
| <b>Minimum dimensions (W x D x H)</b>    | 6.65 x 18.3 x 17.5 in                                                                                                                                                                                                                                                                                                                                          |
| <b>Weight</b>                            | Starting at 13.2 kg<br>(Exact weight depends on configuration.)                                                                                                                                                                                                                                                                                                |
| <b>Weight</b>                            | Starting at 29.1 lb<br>(Exact weight depends on configuration.)                                                                                                                                                                                                                                                                                                |
| <b>Keyboard</b>                          | HP USB 320K Keyboard                                                                                                                                                                                                                                                                                                                                           |
| <b>Pointing device</b>                   | HP Wired Desktop 320M mouse                                                                                                                                                                                                                                                                                                                                    |
| <b>Ports</b>                             | 1 USB Type-C® 20Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo                                                                                                                                                                                                                                                           |
| <b>Expansion slots</b>                   | 4 PCIe 5 x16; 2 PCIe 5 x4; 1 PCIe 4 x16; 3 PCIe 4 x4<br>(Rear bulkhead access can be achieved through all slots, but 2 PCIe 5 x4 and 2 PCIe 4 x4 are internal access only for M.2.)                                                                                                                                                                            |
| <b>Ports</b>                             | 4 USB Type-A 5Gbps signaling rate (1 charging); 1 headphone/microphone combo                                                                                                                                                                                                                                                                                   |
| <b>Ports</b>                             | 1 audio-in/out; 6 USB Type-A 5Gbps signaling rate; 1 RJ-45 (1 GbE)                                                                                                                                                                                                                                                                                             |
| <b>Ports</b>                             | 4 USB Type-A 5Gbps signaling rate (1 charging)                                                                                                                                                                                                                                                                                                                 |
| <b>Power</b>                             | 1125 W internal power supply, up to 90% efficiency, active PFC                                                                                                                                                                                                                                                                                                 |
| <b>Management features</b>               | HP Driver Packs; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Smart Support                                                                                                                                                                                                                                             |
| <b>Sustainable impact specifications</b> | 40% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; Plastic cushion inserts contain 80% recycled content; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; 10% post-consumer recycled plastic; Internal power supply 90% efficiency; Ocean-bound plastic in system and CPU fans |
| <b>Security management</b>               | 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 <sup>[21,22,23,24,25,26,27,28]</sup>                                                           |

**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 Services Scan; HP Data Science Stack Manager<sup>[18,19,20,31]</sup>

**UPC number**

(ABA) 197961633108; (ABC) 197961633092

## Additional specifications

|                                   |                                                                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available software                | HP Smart Support                                                                                                                                      |
| ECC memory                        | ECC                                                                                                                                                   |
| Graphic card footnote number      | [40]                                                                                                                                                  |
| I/O Port location                 | Front (Entry version)                                                                                                                                 |
| I/O Port location                 | Rear                                                                                                                                                  |
| I/O Port location                 | Front                                                                                                                                                 |
| I/O Port location                 | Front (Premium version)                                                                                                                               |
| Keyboard interface                | USB                                                                                                                                                   |
| Legal tagline                     | HP recommends Windows 11 Pro for business                                                                                                             |
| Memory and storage                | 32 GB memory; 1 TB SSD storage                                                                                                                        |
| Memory layout (slots & size)      | 2 x 16 GB                                                                                                                                             |
| Memory module type                | DIMM                                                                                                                                                  |
| Memory size                       | 32                                                                                                                                                    |
| Memory size uom                   | GB                                                                                                                                                    |
| Memory speed                      | 5600                                                                                                                                                  |
| Memory speed uom                  | MHz                                                                                                                                                   |
| Memory type                       | DDR5                                                                                                                                                  |
| Number of memory slots            | 2                                                                                                                                                     |
| Playbook TS icon OS               | <a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png</a>   |
| Playbook TS icon battery life     | <a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png</a>   |
| Playbook TS icon connectivity     | <a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png</a>   |
| Playbook TS icon dimensions tower | <a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201997.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201997.png</a> |
| Playbook TS icon graphics         | <a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png</a> |
| Playbook TS icon memory           | <a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png</a> |
| Playbook TS icon processor        | <a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png</a> |
| Playbook TS icon storage          | <a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png</a>   |
| Playbook TS icon weight imperial  | <a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png</a>   |
| Playbook TS icon weight metric    | <a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png</a> |
| Processor Brand                   | AMD                                                                                                                                                   |
| Processor cache                   | 128 MB L3                                                                                                                                             |
| Processor core                    | 32                                                                                                                                                    |
| Processor family                  | Ryzen™                                                                                                                                                |

|                                   |                                                                          |
|-----------------------------------|--------------------------------------------------------------------------|
| Processor maximum frequency       | 5.3                                                                      |
| Processor maximum frequency uom   | GHz                                                                      |
| Processor threads                 | 64                                                                       |
| Product long name specifications  | HP Z6 G5 A Workstation, Windows 11 Pro, AMD Ryzen™, 32GB RAM, 1TB SSD    |
| Product short name specifications | HP Z6 G5 A Workstation, AMD Ryzen™, 32GB RAM, 1TB SSD                    |
| Security Software Licenses        | HP Wolf Pro Security Edition (1 year)                                    |
| Standard memory note              | Transfer rates up to 5600 MT/s.                                          |
| Storage brand 01                  | HP Z Turbo Drive                                                         |
| Storage capacity                  | 1                                                                        |
| Storage capacity uom 01           | TB                                                                       |
| 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® Gen 4                                                              |
| Storage memory technology 01      | TLC                                                                      |
| Storage type                      | SSD                                                                      |
| Storage type 01                   | SSD                                                                      |
| UNSPSC code                       | 43211515                                                                 |

[1] 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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

[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. AMD's numbering is not a measurement of clock speed.

[7] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.

[18] 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> .

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

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

[21] HP Sure Click requires Windows 11 Pro or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.

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

[23] 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.

[24] 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.

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

[26] 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.

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

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

[31] HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications. For full system requirements or to disable this feature, please visit <http://www.hpdaas.com/requirements>. Not applicable in China.

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