ProductSheet

# HP Z4 G5 Workstation PC (B31MMUA)

## Power-up to next level pro performance

This high performance desktop workstation does it all. Tackle advanced workflows—from rendering and simulation to advanced video editing and massive dataset preparation. The Z4 AI workstation accelerates workflows across a wide range of professional apps and provides room to expand as work evolves.

HP recommends Windows 11 Pro for business

**Professional performance. Extraordinary expandability.**
Master intense workflows with up to 2 high-end professional GPUs, 26 cores[1] in a next-gen Intel® Xeon® W processor, and 512 GB of memoryq[2]. Easily expand as work evolves with tool-less access, 5 PCIe slots, and 2 front accessible NVMe bays.[3]

**Engineered to stay cool and quiet.**
Push your desktop workstation without disruptive noise. Smart fan control keeps the system whisper-quiet by tuning fan speeds in real-time using over 20 temperature sensors. Precisely placed vents and ducts streamline airflow and heat removal.

**Ignite AI innovation**
Accelerate AI development and inferencing with the Z4 AI workstation, with up to 2 NVIDIA RTX™ 6000 Ada Generation GPUs[4] delivering up to 2,914 AI TOPS for advanced AI. Process proprietary data securely on a local workstation to gain insights faster.

### Featuring

**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. [1]

**Professional Grade Graphics**
Tackle advanced video editing, machine learning and simulation projects

**Ultra Fast Memory Configurations**
Accelerate your workflow. Power through memory-intensive workloads with fast rendering, simulation, machine learning and video editing performance.

## Specifications

| | |
|---|---|
| **Form factor** | Tower |
| **Operating system** | Windows 11 Pro |
| **Processor family** | Intel® Xeon® W processor |
| **Processor** | Intel® Xeon® W5-2465X (up to 4.5 GHz with Intel® Turbo Boost Technology, 33.75 MB L3 cache, 16 cores, 32 threads)[6,7] |
| **Chipset** | Intel® W790 |
| **Memory** | 128 GB DDR5-4800 MT/s (4 x 32 GB) |
| **Memory Slots** | 8 DIMM |
| **Internal Storage** | 512 GB HP Z Turbo Drive PCIe® Gen4 TLC M.2 SSD |
| **Internal drive bays** | One 3.5"; Four PCIe® M.2 SSD; Three 3.5" HDD |
| **External drive bays** | Two NVMe™ M.2 SSD; Two 3.5" HDD; Two 9.5 mm ODD |
| **Graphics** | Discrete |
| **Graphics (discrete)** | NVIDIA RTX™ 5000 Ada Generation (32 GB GDDR6 dedicated) |
| **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 44.45 x 38.61 cm |
| **Minimum dimensions (W x D x H)** | 6.65 x 17.50 x 15.20 in |
| **Weight** | Starting at 10.5 kg<br>*(Exact weights depend upon configuration (System weight only))* |
| **Weight** | Starting at 23.2 lb<br>*(Exact weights depend upon configuration (System weight only))* |
| **Keyboard** | HP USB 320K Keyboard |
| **Pointing device** | HP Wired 320M Mouse |
| **Ports** | 4 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo[29] |
| **Expansion slots** | 1 PCIe 5 x16; 2 PCIe 4 x16; 2 PCIe 4 x4<br>*(Rear bulkhead access can be achieved through all slots but 2 PCIe 4 x8 are internal access only for M.2.)* |
| **Ports** | 1 RJ-45; 1 audio-in/out |
| **Package dimensions (W x D x H)** | 31.4 x 57.2 x 56.3 cm |
| **Package weight** | Starting at 14.35 kg |
| **Power** | 1125 W internal power supply, up to 90% efficiency, active PFC |
| **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; HP Services Scan[11,17,18,19] |
| **UPC number** | 198828586612 |

## Top Recommended Displays, Accessories and Services

| | |
|---|---|
| **Speakerphones** | |
| Poly Sync 20+ USB-C Speakerphone | 772D0AA |
| Poly Sync 20 USB-C Speakerphone | 7F0J7AA |
| Poly Sync 10 USB-A USB-C Speakerphone | 772C3AA |
| **Wireless Headset** | |
| Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter | 8G7T9AA |
| Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter | 9T9J3AA |
| **Wired Headset** | |
| Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter | 8X223AA |

## Messaging Footnotes

[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. Intel's numbering, branding and/or naming is not a measurement of higher performance.

[2] Optional, configurable features.

[3] Two front accessible NVMe bays require a 5.25 bay carrier.

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

## Technical Specifications Footnotes

[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.

[11] 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.

[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 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

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

[29] Front Entry version contains: 1 headset/microphone combo; 4 SuperSpeed USB Type-A 5Gbps signaling rate.

© Copyright 2024 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel, Core are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. AMD and Radeon are trademarks of Advanced Micro Devices, Inc. Bluetooth is a trademark owned by its proprietor and used by HP Inc. under license. NVIDIA is trademark and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. USB Type-C® is registered trademarks of USB Implementers Forum. ENERGY STAR is a registered trademark of the U.S. Environmental Protection Agency. All other trademarks are the property of their respective owners.