HP Z2 Mini G5 Workstation



Our most powerful mini workstation. Now even mightier.

Get even more high-end performance packed into an insanely small device. Take on 3D design projects and work in multiple pro apps easily. Widely versatile, it's the obvious choice for the modern workplace.



*Product image may differ from actual product

HP recommends Windows 11 Pro for business

Be uncompromising about performance

With the new Intel® 10-core processor¹ and NVIDIA® Quadro RTX™ 3000² that
offers more graphics power over last gen, you get reliable performance in multithreaded apps. Don't worry about overheating—our advanced thermals keep things
cool and quiet.

The perfect fit, anywhere

Create the ideal setup—from the office to the shop floor to the data center. Mount
under a desk or behind a display³, then connect to multiple screens and other
hardware. Or centrally manage your fleet of mini's with versatile rack mounting
options.

We test it so you can trust it. 24/7.

You need performance you can rely on. That's why our products endure over 360K hours of rigorous testing, MIL-STD testing⁴ and software certifications. Paired with an Intel[®] Xeon[®] processor¹ and ECC memory, our mini is built for tough workloads.

HP's most secure workstation.

- Advanced security features come standard on every Z2 Mini. System safeguards like the industry's first self-healing BIOS help lock your device, data and identity down tight.
- Support your unique user needs with a choice of Windows 10 Pro 64 or Linux® operating systems.⁵
- Get great 3D performance with support for NVIDIA® and AMD professional graphics.⁶
- Get powerful performance on single and multi-threaded applications with the latest generation 10-core Intel® Xeon® and Intel® Core™ processors.¹
- Drive up to six displays—four native and two additional with daisy chaining.⁷
- With the HP ZCentral solution you can maximize density with support for 7 Mini's in 5U, for a total of 56 HP Mini's in a standard 42U rack.
- Get up to 4 TB dual M.2 storage and RAID for added reliability. 9
- Secure your hardware with a built-in Kensington lock and a VESA sleeve that has port blocks.¹⁰
- Get multiple high-speed network connections including a second LAN option.¹¹
- Optimize your configuration with an optional 280W power supply.¹²
- With optional self-encryption drives, you have confidence knowing that if your storage device falls into the wrong hands, your valuable IP has enhanced protection.¹¹
- Stay informed with hardware status alerts via ZCentral Connect remote management software

HP Z2 Mini G5 Workstation Specifications Table







| *Product image may differ from actual produc | t |
|--|--|
| Available Operating Systems | Windows 11 Pro ¹ Windows 11 Pro for Workstations ¹ Windows 11 Home – HP recommends Windows 11 Pro for business ¹ Windows 10 Pro ¹ Windows 10 Pro ¹ Windows 10 Pro for Workstations ¹ Windows 10 Pro for Workstations ¹ Windows 10 Home — HP recommends Windows 11 Pro for business ¹ Linux ⁴ Ready Ubuntu 20.04 USP |
| Processor family | 10th Generation Intel® Core™ i3 processor; 10th Generation Intel® Core™ i5 processor; 10th Generation Intel® Core™ i7 processor; 10th Generation Intel® Core™ i9 processor; 10th Generation Intel® Core™ i9 processor; 10th Generation Intel® Xeon® processor |
| Available Processors ^{3,4,5,6,25,3,4} | Intel® Core® 13-10100 with Intel® LHD Graphics 530 (1.5 GHz base frequency, up to 4.3 GHz with Intel® "LHD Graphics 540 (1.6 GHz base frequency, up to 4.5 GHz with Intel® "LHD Graphics 530 (1.5 GHz base frequency, up to 4.5 GHz with Intel® "LHD Graphics 530 (1.5 GHz base frequency, up to 4.5 GHz with Intel® "LHD Graphics 530 (3.1 GHz base frequency, up to 4.5 GHz with Intel® "LHD Graphics 530 (3.1 GHz base frequency, up to 4.5 GHz with Intel® "LHD Graphics 530 (3.1 GHz base frequency, up to 4.5 GHz with Intel® "LHD Graphics 530 (3.1 GHz base frequency, up to 4.5 GHz with Intel® "LHD Graphics 530 (3.1 GHz base frequency, up to 4.5 GHz with Intel® "LHD Graphics 530 (3.1 GHz base frequency, up to 4.8 GHz with Intel® "LHD Graphics 540 (4.1 GHz base frequency, up to 4.8 GHz with Intel® "LHD Graphics 640 (4.1 GHz base frequency, up to 4.8 GHz with Intel® "LHD Graphics 640 (4.1 GHz base frequency, up to 4.8 GHz with Intel® "LHD Graphics 640 (4.1 GHz base frequency, up to 4.8 GHz with Intel® "LHD Graphics 650 (4.2 GHz base frequency, up to 4.8 GHz with Intel® "LHD Graphics 630 (4.2 GHz base frequency, up to 4.8 GHz with Intel® "LHD Graphics 630 (4.2 GHz base frequency, up to 5.2 GHz with Intel® "LHD Graphics 630 (4.2 GHz base frequency, up to 5.2 GHz with Intel® "LHD Graphics 630 (4.2 GHz base frequency, up to 5.2 GHz with Intel® "LHD Graphics 630 (4.3 GHz base frequency, up to 5.2 GHz with Intel® "LHD Graphics 630 (4.3 GHz base frequency, up to 5.2 GHz with Intel® "LHD Graphics 630 (4.3 GHz base frequency, up to 5.3 G |
| Chipset | Intel® W480 |
| Form factor | Mini |
| Maximum memory | 64 GB DDR4-3200 ECC SDRAM; 64 GB DDR4-3200 non-ECC SDRAM ¹⁸ Transfer rates up to 2933MT/s. |
| Memory slots | 2 SODIMM |
| Internal storage | up to 256 GB SATA SSD 500 GB up to 1 TB 7200 rpm SATA HDD ⁸ up to 500 GB 7200 rpm Opal 2 SATA HDD ⁸ up to 500 GB 7200 rpm Opal 2 SATA HDD ⁸ 256 GB up to 2 TB HD 2 Turbo Drive PCle* NVMe ³⁶ SSD M.2 ^{48, 35} up to 256 GB up to 2 TB HP 2 Turbo Drive PCle* NVMe ³⁶ SSD M.2 ^{48, 35} up to 256 GB HP 2 Turbo Drive PCle* NVMe ³⁶ CSD ⁸ up to 512 GB HP 2 Turbo Drive PCle* NVMe ³⁶ SED Opal 2 M.2 SSD ⁸ 256 GB up to 1 TB PCle* NVMe ³⁶ M.2 SSD ⁷ up to 512 GB SATA SED Opal 2 SSD ⁷ up to 256 GB SATA SED Opal 2 SSD ⁸ Up to 256 GB SATA SED Opal 2 SSD ⁸ |
| Optical drive | Ultra-slim external DVD-Writer ⁹ |
| Available Graphics | Discrete: NVIDIA® Quadro® P620 (4 GB GDDR5 dedicated); AMD Radeon™ Pro WX 3200 (4 GB GDDR5 dedicated); NVIDIA® Quadro RTX™ 3000 (6 GB GDDR6 dedicated); NVIDIA® Quadro® T1000 (4 GB GDDR6 dedicated)³ (N101A® Quadro® T2000 (4 GB GDDR6 dedicated)³ (N101A® |
| Audio | Realtek ALC3205-VA2-CG, 2.0W internal mono speaker |
| Expansion slots | 1 PCIe® 3 x16 (MXM connector) |
| Ports and Connectors | Side: 1 headphone/microphone combo; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-C® 10Gbps signaling rate; R4-65; 3 DisplayPort® 14; 2 SuperSpeed USB Type-A 10Gbps signaling rate (USB Type-C® 10Gbps signaling rate) signaling rate (SuperSpeed USB Type-C® 10Gbps signaling rate) signaling rate; 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 1 Serial, Fiex (I lower – choose one of the following options: 1 DisplayPort™ 1.4, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate, 1 Serial, Fiex (I lower – choose one of the following options: 1 DisplayPort™ 1.4, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate, 2 |
| Input devices | HP USB Business Slim Keyboard; HP Wireless Business Slim Keyboard; USB Smart Card (CCID) keyboard; HP USB Premium keyboard; HP Premium Wireless keyboard; HP Wireless Business Slim Keyboard and mouse combo ⁹ ; HP Wireless Business Mouse; HP USB Black Wired Mouse; HP Wireless Premium Mouse; HP USB Premium Wired Mouse ⁹ ; |
| Communications | LAN: Integrated Intel® I219-LM PCle® GbE; WLAN: Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo; |
| Drive Bays | One 2.5"; Two M.2 NVME 2280 SSD |
| Software | HP PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit; 11,16,27,39 |
| Security management | HP Secure Erase; HP Sure Click; HP Sure Sense; HP Sure Start Gen6; HP Sure Run Gen3; HP Sure Recover Gen3; HP BIOSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; 15.223.26.23.03.13.24.04.1.42 |
| Power | 180 W external power adapter, up to 89% average efficiency, active PFC; 280 W external power adapter, up to 89% average efficiency, active PFC |
| Dimensions | 21.6 x 21.6 x 5.8 cm (Standard desktop orientation.) |
| Weight | Starting at 2.1 kg (Exact weight depends on configuration.) |
| Ecolabels | EPEAT® registered configurations available; TCO Certified configurations available ¹⁷ |
| Energy star certified (series fixed) | ENERGY STAR® certified |
| Sustainable impact specifications | Low halogen ³³ |
| Compatible displays | All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays |
| Warranty | 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)

HP Z2 Mini G5 Workstation 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

- 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.

 NUDIA® Quadro RTX™ 3000 graphics are an add-on feature that must be configured at the time of purchase. Planned to be available in 1H 2021.
- Rack mounting hardware sold separately.
- 4 Undergoes MIL-STD testing, MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage **Undergoes MIL-SI D testing, MIL-SI D testings in oft intended to demonstrate intriess for U.S. Department of Defense contract requirements or for military use. lest results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Service.

 **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.windows.com.

 Sold separately or as an optional feature.

 **Gold separately or as an option of intel® HD graphics and NVIDIA Quadro® graphics and SOLIVIA Gold separately or an option of intel® HD graphics and NVIDIA Quadro® gol

- B HZ Central Connect Software requires purchase of a perpetual floating license per simultaneous connection and purchase of 1 year ZCentral Connect Software Support Service and requires download at hp.com/ZCentral. Requires HP ZCentral Remote Boost Software which can be downloaded at hp.com/ZCentralRemoteBoost, a Windows 10, Windows Server 2016 or newer operating system, Microsoft Active Directory and Intel Active Management Technology for select features.

 Por storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of disk is reserved for system recovery software.

- To storage times, ob = 1 billion bytes, 18 = 1 thillion bytes. Actual formatied capact ¹⁰ Lock sold separately or as an optional feature. Mounting hardware sold separately. ¹² Optional feature that must be configured at purchase.

Technical Specifications Footnotes

- 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.

 3 Not all features are available in all editions or versions of Ubuntu. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS to take full advantage of Ubuntu functionality. Ubuntu may be automatically updated. ISP fees may apply and additional requirements may apply over time for updates.

 4 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.

 5 For full Intel® vPro™ functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See
- http://intel.com/vpro
- http://intel.com/vpro
 filed Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.
 7 256 GB up to 1TB PCIe NVMe SSD not available until November 2020 and require configuration at the factory.
 8 For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.
 9 Keyboard and Mouse are optional or add on features. The HP Antimicrobial Keyboard and HP Antimicrobial Mouse are only available in China.
 10 NVIDIA® Quadro RTX™ 3000 is available in Q1, 2021, and only available factory integrated.
 11 HP Support Assistant requires Windows and Internet access.

- Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information
- 18 Non-ECC memory is supported on all processors. ECC is only enabled on Xeon.
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- 33 External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

 34 Configurations with the Intel Xeon W-1 250 W, P-1270 W, P-1720 W are offered on the 125W motherboard only.

 35 HP Z2 Mini G5 Workstation can only support one storage device for system boot: either one SATA or one NVMe, not both.

 36 NVIDIA® Quadro® P620 (4 GB GDDR5 dedicated); AND Radeon™ Pro WX 3200 (4 GB GDDR5 dedicated); NVIDIA® Quadro® T2000 (4 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (4 GB GDDR5 dedicated); Dedicated); NVIDIA® Quadro® P620 (4 GB GDDR5 dedicated); Dedicated); NVIDIA® Quadro® T2000 (4 GB GDDR5 dedicated); NVIDIA® Quadro® T2000 (4 GB
- Microsoft Office or Adobe Acrobat are installed.
- 42 HP Sure Admin requires Windows 11, Windows 10, 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

Sign up for updates hp.com/go/getupdated

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