



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 multi-threaded 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.⁸
- 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 product

Available Operating Systems	Windows 11 Pro – HP recommends Windows 11 Pro ¹ Windows 11 Pro for Workstations ¹ Windows 10 Home ^{1,2} Windows 10 Pro for Workstations ¹ Windows 10 Home ^{1,2} Linux® Ready Ubuntu 20.04 LTS ³
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® Xeon® processor
Available Processors ^{3,4,5,6,25,34}	Intel® Core™ i3-10100 with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores) Intel® Core™ i3-10320 with Intel® UHD Graphics 630 (3.8 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) Intel® Core™ i5-10400F (2.9 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) Intel® Core™ i5-10500 with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Core™ i5-10600 with Intel® UHD Graphics 630 (3.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Core™ i5-10600K with Intel® UHD Graphics 630 (4.1 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Core™ i7-10700 with Intel® UHD Graphics 630 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® vPro® Technology Intel® Core™ i7-10700K with Intel® UHD Graphics 630 (3.8 GHz base frequency, up to 5.1 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® vPro® Technology Intel® Core™ i9-10900 with Intel® UHD Graphics 630 (2.8 GHz base frequency, up to 5.2 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores) Intel® Core™ i9-10900F (2.8 GHz base frequency, up to 5.2 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores) Intel® Core™ i9-10900K with Intel® UHD Graphics 630 (3.7 GHz base frequency, up to 5.3 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores), supports Intel® vPro® Technology Intel® Xeon® W-1290P with Intel® UHD Graphics P630 (3.7 GHz base frequency, up to 5.3 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores), supports Intel® vPro® Technology Intel® Xeon® W-1270 with Intel® UHD Graphics P630 (3.4 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® vPro® Technology Intel® Xeon® W-1250P with Intel® UHD Graphics P630 (4.1 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Xeon® W-1270P with Intel® UHD Graphics P630 (3.8 GHz base frequency, up to 5.1 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® vPro® Technology Intel® Xeon® W-1250 with Intel® UHD Graphics P630 (3.3 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Core™ i9-10850K with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 5.2 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores)
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	256 GB SATA SSD 500 GB up to 1 TB 7200 rpm SATA HDD ⁹ 500 GB 7200 rpm Opal 2 SATA HDD 2 TB 5400 rpm SATA HDD ⁹ 256 GB up to 2 TB HP Z Turbo Drive PCIe® NVMe™ SSD M.2 ^{8,35} 256 GB HP Z Turbo Drive PCIe® NVMe™ Opal 2 M.2 SSD ⁹ 512 GB HP Z Turbo Drive PCIe® NVMe™ SED Opal 2 M.2 SSD ⁹ 256 GB up to 1 TB PCIe® NVMe™ M.2 SSD ¹ 256 GB SATA SED Opal 2 SSD ⁹ 512 GB SATA SED Opal 2 SSD ⁹
Optical drive ⁹	Ultra-slim external DVD-Writer
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® T2000 (4 GB GDDR6 dedicated); NVIDIA® Quadro® T1000 (4 GB GDDR6 dedicated) ^{10,11,21,36}
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 Rear: 1 RJ-45; 3 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-C® 10Gbps signaling rate (charge support up to 5W/3A) ¹⁴
Optional Ports	Flex IO upper – choose one of the following options: 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate, 1 serial; Flex IO lower – choose one of the following options: 1 DisplayPort™ 1.4, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort™), 1 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN ^{24,28}
Available Keyboards ⁹	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
Available Pointing Devices ⁹	HP Wireless Business Mouse; HP USB Black Wired Mouse; HP Wireless Premium Mouse; HP USB Premium Wired Mouse
Communications	Integrated Intel® I219-LM PCIe® GbE Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo
Drive Bays	One 2.5"; Two M.2 NVMe 2280 SSD
Software ^{11,16,27,39}	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
Security management ^{15,22,23,26,29,30,31,32,40,41,42}	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
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	8.5 x 8.5 x 2.28 in; 21.6 x 21.6 x 5.8 cm (Standard desktop orientation.)
Weight	Starting at 4.6 lb; Starting at 2.1 kg (Exact weight depends on configuration.)
Energy efficiency compliance	ENERGY STAR® certified and EPEAT® registered configurations available ¹⁷
Sustainable impact specifications ³³	Low halogen
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays
Warranty	Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc

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Accessories and services (not included)

32GB (1x32GB) 3200 DDR4 NECC
SODIMM

Product number: 141H8AT

HP ZTurbo 2TB TLC Z2 G5 Mini
SSDKit

Product number: 141M0AA

HP EliteDisplay E273m 27-inch
Monitor



Connect and collaborate in complete comfort on the HP EliteDisplay E273m 27-inch Monitor, which is Skype for Business® certified for optimal video and audio experiences between displays and has a 3-sided micro-edge bezel for seamless multi-display¹ tiling and 4-way adjustable ergonomics.
Product number: 1FH51AA

HP DisplayPort to HDMI True 4K
Adapter



Make the most of the available ports on your HP Business Desktop or HP Workstation with the HP DisplayPort to HDMI True 4K Adapter, which converts your DisplayPort™ output to HDMI for quick and easy connection to a range of multimedia devices that can support 4K resolution and 60hz refresh.
Product number: 2JA63AA

HP Wired Desktop 320MK Mouse
and Keyboard



Work efficiently and enhance your everyday productivity with the reliable HP Wired Desktop 320MK Mouse and Keyboard.
Product number: 9SR36AA

HP External USB DVDRW Drive



Connect the HP External USB DVD/RW to any available USB port on your PC¹ to get immediate read/write access to your optical media.
Product number: F2B56AA

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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.
- ² NVIDIA® 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.
- ³ 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 requires an optional HP Accidental Damage Protection Care Service.
- ⁵ 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>.
- ⁶ Sold separately or as an optional feature.
- ⁷ Display solution is achieved using a combination of Intel® HD graphics and NVIDIA Quadro® graphics and is ONLY supported on Windows 10.
- ⁸ HP ZCentral 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.
- ⁹ For 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.
- ¹⁰ Lock sold separately or as an optional feature. Mounting hardware sold separately.
- ¹¹ Sold separately or as an optional feature.
- ¹² Optional feature that must be configured at purchase.

Technical Specifications Footnotes

- 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>.
- ² This PC comes with Windows 10 and a free Windows 11 upgrade. The Windows 11 upgrade will be delivered late 2021 into 2022. Timing varies by device. Certain features require specific hardware. See aka.ms/windows11-spec
- 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>
- ⁶ Intel 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.
- ¹² NVIDIA® Quadro® P620, available in Oct, 2020 and requires factory configuration.
- ¹³ 3 DisplayPort 1.2 in Performance model with discrete graphics.
- ¹⁴ HP Client Security Manager Gen6 requires Windows and is available on the select HP PCs.
- ¹⁵ 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>
- ¹⁶ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
- ¹⁷ Non-ECC memory is supported on all processors. ECC is only enabled on Xeon.
- ¹⁸ Discrete graphics must be purchased with Intel Core i9-10900F processor and Intel Core i5-10400F processor.
- ¹⁹ HP Pro Security Edition is available preloaded on select HP PCs and includes HP Sure Click Pro and HP Sure Sense Pro. 3-year license required. The HP Pro Security Edition software is licensed under the license terms of the HP End User License Agreement (EULA) that can be found at https://h30670.www3.hp.com/e-commerce/common/disclaimer.do#EN_US as modified by the following: 7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for thirty-six (36) months thereafter ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support.
- ²⁰ Actual flex I/O choice depends on configuration selected.
- ²¹ Configurations with Intel® on i9-10900F and i5-10400F CPUs; Discrete graphics card must be configured when configuring CPUs without Intel UHD graphics.
- ²² HP BIOSphere Gen6 features may vary depending on the platform and configurations.
- ²³ HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>
- ²⁴ Thunderbolt™ 3 supported on Mini Performance version only.
- ²⁵ HP Sure Click requires Windows 11 Pro, Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- ²⁶ HP Sure Start Gen 6 is available on select HP PCs and workstations. See product specifications for availability.
- ²⁷ HP Sure Run Gen3 is available on select Windows 11, Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors
- ²⁸ HP Sure Recover Gen3 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.
- ²⁹ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- ³⁰ Configurations with the Intel Xeon W-1250P, W-1270P, W-1290P are offered on the 125W motherboard only.
- ³¹ HP Z2 Mini G5 Workstation can only support one storage device for system boot: either one SATA or one NVMe, not both.
- ³² NVIDIA® Quadro® P620 (4 GB GDDR5 dedicated); AMD Radeon™ Pro WX 3200 (4 GB GDDR5 dedicated); NVIDIA® Quadro® T2000 (4 GB GDDR6 dedicated); NVIDIA® Quadro® T1000 (4 GB GDDR6 dedicated) Only available factory integrated.
- ³³ HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7 operating systems. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.
- ³⁴ 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
- ³⁵ HP Sure Sense requires Windows 11, Windows 10 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.
- ³⁶ 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.

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