ProductSheet HP Z2 G9 TWR i712700K 32GB/1TB PC Intel i7-12700K, 1TB SSD, 32GB DDR5, NVD Quadro RTX 2000, W11 Pro (6H910UT)

Pro-power. Today and tomorrow

Experience a whole new level of performance for your professional workflow. The Z2 Tower is engineered to seamlessly run multi-threaded apps for fast rendering, simulation, and now realtime ray tracing. And when your demands change, you have impressive expandability to upgrade.



HP recommends Windows 11 Pro for business Your new benchmark for entry workstation power

Designed for zero throttling so you can render, simulate, and real-time ray trace without overheating or lags.

Built to expand. Power to grow

With room to expand and tool-less access, you can easily upgrade and add components as your needs evolve.

ISV Certified

Work with confidence knowing your PC is certified with leading software applications to ensure peak performance[3]

Featuring

Intel[®] Core™ i7 processor

Run several CPU-heavy programs simultaneously without sacrificing performance with an Intel® Core[™] i7 processor. ^[3]

Security is your top priority

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



ProductSheet | HP Z2 G9 TWR i712700K 32GB/1TB PC Intel i7-12700K, 1TB SSD, 32GB DDR5, NVD Quadro RTX 2000, W11 Pro (6H910UT) Specifications

Processor family 12th Generation Intel® Core® 17 processor Intel® Core® 17-12700K Up to 5.0 GHz with Intel® Turbo Boost Technology, 25 MB L3 cache, 12 cores, 20 threads) (6.7) Memory 32 GB DDBS-4800 MHz RAM (2 x 16 GB) Memory Slots 4 DIMM Internal Storage 11 RH P 2 Turbo Drive PCLe® NVME® M.2 SSD Internal drive bays One 2.5* HDD; Two 3.5* HDD; Three M.2 NVME 2280 SSD External drive bays One 5.25* 0DB Graphics Discrete Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete)	Operating system	Windows 10 Pro (available through downgrade rights from Windows 11 Pro) ^[1,2]
Processor [6,7] Memory 32 6B DDR 4800 MHz RAM (2 x 16 6B) Memory Slots 4 DIMM Internal Storage 1 TB HP Z Turbo Drive PCIe* NVMe* M 2 2SD External drive bays One .51m ODD; One 5.25* ODD Graphics Discrete Graphics (discrete) NVIDL RT** A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDL RT** A2000 (12 GB GDDR6 dedicated) Graphics (discrete) Integrated Integrated Integrated Graphics (discrete) NVIDL RT*** A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDL RT*** A2000 (12 GB GDDR6 dedicated) Graphics (discrete) Integrated Graphics (discrete) NVIDL RT*** A2000 (12 GB GDDR6 dedicated) Graphics (discrete) Integrated Minimum dimensions (W x D xH) 35.6 x 16 9 x 38.5 cm (Standard tower orientation.) Minimum dimensions (W x D xH) 35.6 x 16 9 x 38.5 cm (Standard tower orientation.) (Standard tower orientation.) (Standard tower orientation.) (Exact weight depends on configuration.) (Exact weight depends on configuration.) (Keyboard HP Wired Desktop 320K Keyboad	Processor family	
Memory Slots 4 DIMM Internal drive bays One 2.5" HDD; Two 3.5" HDD; Three M.2 NVME" M.2 SSD External drive bays One 3.5" HDD; Two 3.5" HDD; Three M.2 NVME 2280 SSD Graphics Discrete Graphics (discrete) NVIDLA RX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDLA RX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDLA RX™ A2000 (12 GB GDDR6 dedicated) Graphics (integrated) Inte® UHD Graphics 770 Compatible displays All HP 2 Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays Audio Reattek ALC 305-VA2-CG. 2.0W Internal mono speaker Minimum dimensions (W x D x H) 35.6 x 16.9 x 38.5 cm (Standard tower orientation.) Minimum dimensions (W x D x H) (Standard tower orientation.) Weight Startling at 7.2 kg (Exact weight depends on configuration.) Weight Startling at 7.2 kg (Exact weight depends on configuration.) Keyboard Ports 4 Super Speed USB Type-A 100bps signaling rate (1 charging); 1 universal audio jack 1 PCle 3 ak (Act connector); 1 PCle 3 xt (k connector); 1 PCle 5 xt 6 (xt 6 connector); 1 MCle 4 ax 6 (xt 0 connector); 1 PCle 5 xt 6 (xt 6 connector); 1 MCle 4 ax 2230 Of 05 for Storage) Ports 1 audio-in; 1	Processor	
Internal Storage 1 TB HP Z Turbo Drive PCIe [®] WVMe [™] M. 2 SSD Internal drive bays One 2.5 [®] HDD; Three M. 2 NVME 2280 SSD External drive bays One 3.5 [®] HDD; Three M. 2 NVME 2280 SSD External drive bays One Sim ODD; One 5.25 [®] ODD Graphics Discrete NVIDIA RTX [™] A2000 (12 GB GDDR6 dedicated) Graphics (discrete) NVIDIA RTX [™] A2000 (12 GB GDDR6 dedicated) Graphics Integrated Intel [®] UHD Craphics 770 Compatible displays All HP 2 Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays Audio Realtek ALC3205-VA2-CG, 2.0W Internal mono speaker Minimum dimensions (W x D x H) 35 & 51 G 9 x 38 S CM (Standard tower orientation.) Minimum dimensions (W x D x H) (Excact weight degends on configuration.) Weight (Excact weight degends on configuration.) Weight (Excact weight degends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Portis 4 SuperSpeed USB Type-A TOBOPs rist, 1 Clobps signaling rate (1 charging); 1 universal audio jack 1 PCIe 3 x4 (16 connector); 1 PCIe 3 x4 (x4 connector); 1 PCIe 3 x1 (x4 connector); 1 PCIe 5 x16 [x16 connector); 1 M. 2 2230 CIe 3 x1 for WLAW (1 A2 22230 SI for WLAW (2 A2 22230 SI for WLAW (2 A2 2220 SI SI for WLAW (2 A2 2220 SI SI for WLAW (2 A2 22230 SI for WLAW (2 A2 22230 SI SI for WLAW (2 A2 22230 SI SI Fype-A 500ps signaling rate; 1 SUPErS Set WEAS SI Fype-A 500ps signaling rate; 1 SUPErS Set WEAS SI Fype-A 500ps signaling rate; 1 SUPErS Set WEAS SI Fype-A 500ps signaling rate; 1 SUPEr	Memory	32 GB DDR5-4800 MHz RAM (2 x 16 GB)
Internal drive bays One 2.5° HDD; Two 3.5° HDD; Three M.2 NVME 2280 SSD External drive bays One 3.100 DD; One 5.25° ODD Graphics Graphics Discrete Graphics Integrated Integrate	Memory Slots	4 DIMM
External drive bays One slim ODD; One 5.25° ODD Graphics Discrete Graphics (discrete) NVIDIA RTX ^m A2000 (1 2 GB GDDR6 dedicated) Graphics (integrated) Intel® UHD Graphics 770 Compatible displays ALIEP 2 Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays Audio Reattek ALC 2005-VA2-CG. 2.0W internal mono speaker Minimum dimensions (W x D x H) 35.6 x 16.3 x 38.5 cm (Standard tower orientation.) Weight Starting a1.7 x 16 (Exact weight depends on configuration.) Weight Starting a1.7 x 16 (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Pointing device HP Wired 200K Keyboard Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots NL 2220 PCL x X for WLAN and 3 M.2 2200 Stors for storage) Ports 1 audio-uri; 1 R 16.3 ; 2 UB japper-1 14; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 10Gkps signaling rate; 1 SuperSpeed USB Type-A 200 Storage Storage) Dorts Ports 1 audio-uri; 1 R 16.3 ; 2 UB japper/1 14; 2 SuperSpeed USB Type-A 10Gkps signaling rate; 1 SuperSpeed USB Type-A 3 Gbps signaling rate; 4 Super Speased U	Internal Storage	1 TB HP Z Turbo Drive PCIe [®] NVMe [™] M.2 SSD
Graphics Discrete Graphics (discrete) NVIDLA RTX™ A2000 (12 GB GDDR6 dedicated) Graphics (discrete) Integrated Graphics (discrete) Integrated Graphics (discrete) Integrated Compatible displays All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays Audio Reatter ALC 3205-VA2-CG. 2.0W internal mono speaker 35.6 x 16.9 x 38.5 cm (Standard ower orientation.) Minimum dimensions (W x D x H) 14.6 x 15.2 in (Standard ower orientation.) (Standard ower orientation.) Weight (Starting at 7.2 kg (Exact weight depends on configuration.) (Exact weight depends on configuration.) Weight (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCI as X4 (bit Connector); 1 PCI as X4 (bit Connector); 1 PCI as X1 (bit Connector); 1 PCI as X1 (bit Connector); 1 Ports 1 audio-out; 1 RU-43; 2 DisplayPort*** 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 10Gbps s	Internal drive bays	One 2.5" HDD; Two 3.5" HDD; Three M.2 NVME 2280 SSD
Graphics (discrete) NVIDIA RTX** A2000 (12 GB GDDRG dedicated) Graphics (integrated) Integrated Compatible displays All HP 2 Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays Audio Reattek ALC3205 -VA2 - CG, 2.0W internal mono speaker Minimum dimensions (W x D x H) 35.6 x 16.9 x 38.5 cm (Standard tower orientation.) Minimum dimensions (W x D x H) 35.6 x 15.9 x 38.5 cm (Standard tower orientation.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Ponting device HP Wired Desktop 320K Keyboard Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack 1 PCL8 3 xd (x16 connector); 1 PCL8 3 x4 (x4 connector); 1 PCL8 5 x16 (x16 connector); 1 M. 2 2230 PCL8 3 X1 for WLAN Ports 1 audio-in; 1 audio-ou; 1 RL-45; 2 UsplayPort*** 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 500 psi signaling rate; 305 Type-A 400Mps signaling rate; 1 SuperSpeed USB Type-A 500 psi signaling rate; 305 Type-A 400Mps signaling rate; 1 SuperSpeed USB Type-A 500 psi signaling rate; 305 Type-A 400Mps signaling rate; 1 SuperSpeed USB Type-A 500 psi signaling rate; 305 Type-A 400Mps signaling rate	External drive bays	One slim ODD; One 5.25" ODD
Graphics Integrated Graphics (integrated) Intel® UHD Graphics 770 Compatible displays All HP 2 Displays and HP Dream Color Displays are supported. For more information see www.hp.com/go/zdisplays Audio Reattek ALC 3205-VA2-CQ. 2.0W internal mono speaker Minimum dimensions (W x D x H) 35.6 x 16.9 x 38.5 cm 35.6 x 15.9 x 38.5 cm (Standard tower orientation.) Weight 14 x 6.7 x 15.2 in (Exact weight depends on configuration.) (Standard tower orientation.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCIe 3 x4 k16 connector); 1 PCIe 3 x4 k4 connector); 1 PCIe 3 x1 k4 connector); 1 PCIe 5 x16 k/16 connector); 1 Muido-In; 1 audio-out; 1 R-45; 2 BiplayPort**** 14, 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 50bps signaling rate; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 Power 450 W 90% efficient, wide-ranging, active PPC Ecolabels EPEAT* registered Energy star certified HP Driver Packs; HP Management Integratio	Graphics	Discrete
Graphics (Integrated) Intel® UHD Graphics 770 Compatible displays All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/Zdisplays Audio Reattek ALC 3205-VA2-CG, 2.0W internal mono speaker 35,6 x 16,5 x 8,5,5 m. (Standard tower orientation.) Minimum dimensions (W x D x H) 14 x 6.7 x 15,2 in (Standard tower orientation.) Weight Starting at 7,2 kg (Exact weight depends on configuration.) Weight Starting at 7,2 kg (Exact weight depends on configuration.) Weight Starting at 16 lb (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Ports 1 audio-ou; 1 RU-43; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 200 slots for storage) Ports 1 audio-ou; 1 RU-43; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 200 slots for storage) Ports 1 audio-ou; 1 RU-43; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 200 slots for storage) Power 450 W 90% efficient, wide-ranging, active PFC Ecolabels EPEAT® registered Energy star certified HP Driver Packs; HP Management Integration Kit for Microso	Graphics (discrete)	NVIDIA RTX™ A2000 (12 GB GDDR6 dedicated)
Compatible displays All HP Z Displays and HP DreamCotor Displays are supported. For more information see www.hp.com/go/zdisplays Audio Realtek ALC3205-VA2-C6, 2.0W internal mono speaker Minimum dimensions (W x D x H) 35.6 x 16.9 x 38.5 cm (Standard tower orientation.) Minimum dimensions (W x D x H) 14 x 6.7 x 15.2 in (Standard tower orientation.) Weight Starting at 10 lb (Exact weight depends on configuration.) Weight Starting at 10 lb (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Pointing device HP Wired Desktop 320K Keyboard Ports 4 Super Speed USB Type-A 106bps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 PCIe 5 x16 (x16 connector); 1 M. 2 2230 PCIe 3X1 for WLAN Ports 1 audio-in; 1 audio-ou; 1 RJ-45; 2 DisplayPort TM 1.4; 2 Super Speed USB Type-A 106bps signaling rate; 1 Super Speed USB Type-A 56bps signaling rate; 3 USB Type-A 400Mbps signaling rate; 1 Super Speed USB Type-A 56bps signaling rate; 3 USB Type-A 400Mbps signaling rate Power 450 W 90% efficient, wide-ranging, active PFC Ecolabels EPEAT* registered Energy star certified HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP	Graphics	Integrated
Audio Reattek ALC3205-VA2-C G, 2.0W internal mono speaker Minimum dimensions (W × D × H) S1.6 x 16.9 × 38.5 cm (Standard tower orientation.) Minimum dimensions (W × D × H) 14 x 6.7 x 15.2 in (Standard tower orientation.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Pointing device HP Wired 320M Mouse Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCIe 3 x4 k(ris connector); 1 PCIe 3 x4 (x4 connector); 1 PCIe 5 x16 (x16 connector); 1 M.2 2230 slot for WLAN (1 M.2 2230 slot for WLAN (1 M.2 2230 slot for WLAN and 3 M.2 2280 slots for storage) Ports 1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort™ 1, 4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A Stops signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A Stops signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A Stops signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A Stops signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A Stops signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB T	Graphics (integrated)	Intel® UHD Graphics 770
Minimum dimensions (W x D x H) 35.6 x 16.9 x 38.5 cm (Standard tower orientation.) Minimum dimensions (W x D x H) 14 x 6.7 x 15.2 in (Standard tower orientation.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K keyboard Pointing device HP Wired 20M Mouse Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Pycle 3 x4 (x16 connector); 1 PCle 3 x4 (x4 connector); 1 PCle 3 x1 (x4 connector); 1 PCle 5 x16 (x16 connector); 1 M 22230 PCle 3 X1 for WLAN (1 M.2 2230 slot for WLAN (1	Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays
Minimum dimensions (W x D x H) (Standard tower orientation.) Minimum dimensions (W x D x H) 14 x 6.7 x 15.2 in (Standard tower orientation.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Pointing device HP Wired 320M Nouse Ports 4 SuperSpeed USB Type-A 106bps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCle 3 x4 (xl 6 connector); 1 PCle 3 x4 (x4 connector); 1 PCle 3 x1 (x4 connector); 1 PCle 5 x16 (x16 connector); 1 M. 2 2230 of to row UAAN and 3 M.2 2280 slots for storage) Ports 1 audio-in; 1 audio-in; 1 audio-in; 1 4udio-audi; 1 HP4; 2 DisplayPort ¹⁺¹ 1.4; 2 SuperSpeed USB Type-A 106bps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate; 45 wperSpeed USB Type-A 106bps signaling rate; 1 SuperSpeed Speed Speed Waster extreme Configuration Management Gen4; HP Sytem Software Ranager (download); HP BIOS Configuration	Audio	Realtek ALC3205-VA2-CG, 2.0W internal mono speaker
Minimum dimensions (W × D × N) (Standard tower orientation.) Weight Starting at 7.2 kg (Exact weight depends on configuration.) Weight Starting at 16 lb (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Pointing device HP Wired 320M Mouse Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCle 3 x4 (x16 connector); 1 PCle 3 x4 (x4 connector); 1 PCle 5 x16 (x16 connector); 1 M. 2 2230 pCle 3 X1 for WLAN M. 2 2230 pCle 3 X1 for WLAN (1 M. 2 2230 sch for Storage) Ports 1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate Power 450 W 90% efficient, wide-ranging, active PFC Ecolabels EPEAT* registered Energy star certified HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) ^[18] Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop Plastic; Buk packaging available; 60 Pluse* Gold power supplies available; Molded pape rup to custoin niside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in spe	Minimum dimensions (W x D x H)	
Weight (Exact weight depends on configuration.) Weight Starting at 16 lb (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Pointing device HP Wired 320M Mouse Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 PCIe 3 x1 (x4 connector); 1 PCIe 5 x16 (x16 connector); 1 M. 2 2230 PCIe 3 x1 for WLAN (1 M. 2 2230 slot for WLAN and 3 M.2 2280 slots for storage) Ports 1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort [™] 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate Power 450 W 90% efficient, wide-ranging, active PFC Ecolabels EPEAT® registered Energy star certified ENERGY STAR® certified Management features System Software Manager (download); HP BIOS configuration Utility (download) ^{11B1} Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop Sustainable impact specifications PGarce Erase; HP Sure Click; HP BIOSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; HP Sure Start Gen7; HP Sure Recover Gen4; HP Sure Sense Gen2; HP Sure Run Gen5 ^[113,021,122,23,24,25,28,33] Software Included<	Minimum dimensions (W x D x H)	
Weight (Exact weight depends on configuration.) Keyboard HP Wired Desktop 320K Keyboard Pointing device HP Wired 320M Mouse Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 PCIe 3 x1 (x4 connector); 1 PCIe 5 x16 (x16 connector); 1 M. 2 2230 PCIe 3 X1 for WLAN Ports 1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort* 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate; 1 Power 450 W 90% efficient, wide-ranging, active PFC Ecolabels EPEAT* registered Energy star certified ENERGY STAR* certified Management features UP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) ^[18] Sustainable impact specification platic; Bulk packaging available; 80 Plus* Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure and system fan; Contains recycled metal Security management HP Secure Erase; HP Sure Click; HP BloSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; HP Sure Start Gen7; HP Sure Recover Gen4; HP Sure Radmin; Hood Sensor Optional Kit; HP Client Security Ma	Weight	
Pointing device HP Wired 320M Mouse Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 PCIe 3 x1 (x4 connector); 1 PCIe 5 x16 (x16 connector); 1 M. 2 230 pCIe 3 X1 for WLAN (1 M. 2 2230 pCIe 3 X1 for WLAN (1 M. 2 2230 slot for WLAN and 3 M.2 2280 slots for storage) Ports 1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 560bps signaling rate; 3 USB Type-A 480Mbps signaling rate Power 450 W 90% efficient, wide-ranging, active PFC Ecolabels EPEAT® registered Energy star certified ENERGY STAR® certified Management features WP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) ^[18] Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure and system fan; Contains recycled metal Security management HP Secure Erase; HP Sure Click; HP BIOSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; HP Sure Start Gen7; HP Sure Radow re Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit; Performance Advisor 3.0 ^[15,16,17]	Weight	
Ports 4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack Expansion slots 1 PCle 3 x4 (x16 connector); 1 PCle 3 x4 (x4 connector); 1 PCle 3 x1 (x4 connector); 1 PCle 5 x16 (x16 connector); 1 M.2 2230 PCle 3 X1 for WLAN (1 M.2 2230 Solt for VULAN and 3 M.2 2280 slots for storage) Ports 1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort [™] 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 56bps signaling rate; 3 USB Type-A 480Mbps signaling rate Power 450 W 90% efficient, wide-ranging, active PFC Ecolabels EPEAT® registered Energy star certified ENERGY STAR® certified Management features HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) ^[18] Sustainable impact specifications 0cean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure and system fan; Contains recycled metal Security management HP Secure Erase; HP Sure Click; HP BIOSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; HP Sure Start Gen7; HP Sure Recover Gen4; HP Sure Sense Gen2; HP Sure Run Gen5 ^[19,20,21,22,32,42,52,6,3] Software included HP PC Hardware Diagnostics UEFI; HP Support Assistant; HP PC Hardware Dia	Keyboard	HP Wired Desktop 320K Keyboard
Expansion slots 1 PCIe 3 × 4 (x16 connector); 1 PCIe 3 × 4 (x4 connector); 1 PCIe 3 × 1 (x4 connector); 1 PCIe 5 × 16 (x16 connector); 1 M.2 2230 PCIe 3 X1 for WLAN and 3 M.2 2280 slots for storage) Ports 1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate Power 450 W 90% efficient, wide-ranging, active PFC Ecolabels EPEAT® registered Energy star certified ENERGY STAR® certified Management features Ysystem Software Manager (download); HP BIOS Configuration Utility (download) ^[18] Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure and system fan; Contains recycled metal Security management HP Secure Erase; HP Sure Click; HP BIOSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; HP Sure Start Gen7; HP Sure Recover Gen4; HP Sure Sense Gen2; HP Sure Run Gen5 ^[19,20,21,22,23,24,25,26,33] Software included HP PC Hardware Diagnostics UEFI; HP Support Assistant; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assis	Pointing device	HP Wired 320M Mouse
Expansion slotsM.2 2230 PCIe 3 X1 for WLAN (1 M.2 2230 slot for WLAN and 3 M.2 2280 slots for storage)Ports1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort [™] 1.4; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling ratePower450 W 90% efficient, wide-ranging, active PFCEcolabelsEPEAT® registeredEnergy star certifiedENERGY STAR® certifiedManagement featuresOcean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure; afs% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure and system fan; Contains recycled metalSecurity managementHP Secure Erase; HP Sure Click; HP BIOSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; HP Sure Start Gen7; HP Sure Recover Gen4; HP Sure Sense Gen2; HP Sure Run Gen5 ^[19,20,21,22,23,24,25,26,33] OPC numberHP PC Hardware Diagnostics UEFI; HP Support Assistant; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit; Performance Advisor 3.0 ^[15,16,17] UPC number196548995592Manufacturer Warranty3 year (3/3/3) limited warranty includes 3 years of parts, labor and on-site repair. Terms and conditions vary by	Ports	4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack
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ProductSheet | HP Z2 G9 TWR i712700K 32GB/1TB PC Intel i7-12700K, 1TB SSD, 32GB DDR5, NVD Quadro RTX 2000, W11 Pro (6H910UT) Top Recommended Displays, Accessories and Services

Z Displays HP Z34c G3 WQHD Curved Display 30A19AA HP Z27k G3 4K USB-C Display **1B9T0AA** HP Z24m G3 QHD Conferencing Display 4Q8N9AA **Keyboard and Mouse Kits** HP Wired Desktop 320MK Mouse and Keyboard 9SR36AA **Audio and Video Cables** HP DisplayPort To VGA Adapter AS615AA **PC Solid State Drives** HP Z Turbo Drive 2TB TLC Z8 G4 SSD Kit 201F8AA Personal Systems Hardware Support Onsite Service HP 4 year Next Business Day Response Onsite Workstation Hardware Support U1G37E Personal Systems Commercial Care Pack Services HP 4 year Active Care Next Business Day Response Onsite WorkstationHardware Support U22KBE HP 5 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp U22KGE

Messaging Footnotes

[3] Third party software sold separately.

[3] 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.

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 system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

[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.

[15] 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. ZCentral Remote Boost 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.

[16] 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

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

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

[19] HP Client Security Manager Gen7 requires Windows and is available on the select HP PCs.

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

[21] HP Sure Click requires Windows 11 Pro or Enterprise. See 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 Run Gen5 is available on select HP PCs and requires Windows 10 and higher.

[24] 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.

[25] 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[™].

[26] 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.

[33] 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.

Learn more at

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