



# HP Z2 Tower G9 Workstation (87D61UT)



## Overview

### 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 real-time ray tracing. And when your demands change, you have impressive expandability to upgrade.

### 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.

### ISV Certified

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

### 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.

# Features

## Windows 11

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

## Intel® Core™ i5 processor

Experience powerful performance and seamless computing for your everyday tasks and higher performance needs with the Intel® Core™ i5 processor.<sup>[4]</sup>

## Security is your top priority

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

## Smaller, Functional Design

The stunning new design features front and rear ledges, so you can easily move your system from location to location.

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*[3] Third party software sold separately.*

*[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.*

## Specifications

<b>Operating system</b>	Windows 11 Pro <sup>[1]</sup>
<b>Processor family</b>	13th Generation Intel® Core™ i5 processor
<b>Processor</b>	Intel® Core™ i5-13500 (up to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads) <sup>[6,7]</sup>
<b>Memory</b>	16 GB DDR5-4800 MHz RAM (1 x 16 GB)
<b>Memory Slots</b>	4 DIMM
<b>Internal Storage</b>	512 GB HP Z Turbo Drive PCIe® NVMe™ TLC M.2 SSD
<b>Internal drive bays</b>	One 2.5" HDD; Two 3.5" HDD; Three M.2 NVME 2280 SSD
<b>External drive bays</b>	One slim ODD; One 5.25" ODD
<b>Graphics</b>	Integrated
<b>Graphics (integrated)</b>	Intel® UHD Graphics 770
<b>Compatible displays</b>	All HP Z Displays and HP DreamColor Displays are supported. For more information see <a href="http://www.hp.com/go/zdisplays">www.hp.com/go/zdisplays</a>
<b>Audio</b>	Realtek ALC3205-VA2-CG, 2.0W internal mono speaker
<b>Minimum dimensions (W x D x H)</b>	35.6 x 16.9 x 38.5 cm <i>(Standard tower orientation.)</i>
<b>Minimum dimensions (W x D x H)</b>	14 x 6.7 x 15.2 in <i>(Standard tower orientation.)</i>
<b>Weight</b>	Starting at 7.2 kg <i>(Exact weight depends on configuration.)</i>
<b>Weight</b>	Starting at 16 lb <i>(Exact weight depends on configuration.)</i>
<b>Keyboard</b>	HP Wired Desktop 320K Keyboard
<b>Pointing device</b>	HP Wired 320M Mouse
<b>Ports</b>	4 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 1 universal audio jack
<b>Expansion slots</b>	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 <i>(1 M.2 2230 slot for WLAN and 3 M.2 2280 slots for storage)</i>
<b>Ports</b>	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
<b>Power</b>	700 W 92% efficient, wide-ranging, active PFC
<b>Ecolabels</b>	EPEAT® registered
<b>Energy star certified</b>	ENERGY STAR® certified
<b>Management features</b>	HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP BIOS Configuration Utility (download) <sup>[18]</sup>

**Sustainable impact specifications**

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<sup>[19,20,21,22,23,24,25,26,33]</sup>

**Software included**

HP 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<sup>[15,16,17]</sup>

**UPC number**

(ABA) 197497708578; (ABC) 197497708561

## Additional specifications

<b>ECC memory</b>	non-ECC
<b>Graphic card footnote number</b>	[32]
<b>I/O Port location</b>	Rear
<b>I/O Port location</b>	Front
<b>Keyboard connectivity</b>	wired
<b>Legal tagline</b>	HP recommends Windows 11 Pro for business
<b>Memory and storage</b>	16 GB memory; 512 GB SSD storage
<b>Memory layout (slots &amp; size)</b>	1 x 16 GB
<b>Memory module type</b>	UDIMM
<b>Memory size</b>	16
<b>Memory size uom</b>	GB
<b>Memory speed</b>	4800
<b>Memory speed uom</b>	MHz
<b>Memory type</b>	DDR5
<b>Number of memory slots</b>	1
<b>Playbook TS icon OS</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png</a>
<b>Playbook TS icon battery life</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png</a>
<b>Playbook TS icon connectivity</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png</a>
<b>Playbook TS icon dimensions tower</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201997.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201997.png</a>
<b>Playbook TS icon graphics</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png</a>
<b>Playbook TS icon memory</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png</a>
<b>Playbook TS icon processor</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png</a>
<b>Playbook TS icon storage</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png</a>
<b>Playbook TS icon weight imperial</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png</a>
<b>Playbook TS icon weight metric</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png</a>
<b>Processor Brand</b>	Intel®
<b>Processor cache</b>	24 MB L3
<b>Processor core</b>	14
<b>Processor family</b>	Core™ i5
<b>Processor frequency technology</b>	Intel® Turbo Boost Technology
<b>Processor generation</b>	13th Generation
<b>Processor maximum frequency</b>	4.8

<b>Processor maximum frequency uom</b>	GHz
<b>Processor model</b>	13500
<b>Processor threads</b>	20
<b>Product long name specifications</b>	HP Z2 Tower G9 Workstation, Windows 11 Pro, Intel® Core™ i5, 16GB RAM, 512GB SSD
<b>Product short name specifications</b>	HP Z2 Tower G9 Workstation, Intel® Core™ i5, 16GB RAM, 512GB SSD
<b>Security Software Licenses</b>	HP Wolf Pro Security Edition (1 year)
<b>Standard memory note</b>	Transfer rates up to 4800 MT/s.
<b>Storage brand 01</b>	HP Z Turbo Drive
<b>Storage capacity</b>	512
<b>Storage capacity uom 01</b>	GB
<b>Storage controller</b>	Integrated SATA (4 ports 6 Gb/s) with integrated RAID 0, 1, for PCIe SSDs supported. Requires identical hard drives (speeds, capacity, interface).
<b>Storage form factor 01</b>	M.2
<b>Storage interface 01</b>	PCIe®
<b>Storage interface protocol 01</b>	NVMe™
<b>Storage memory technology 01</b>	TLC
<b>Storage type</b>	SSD
<b>Storage type 01</b>	SSD
<b>UNSPSC code</b>	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. 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 7operating 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](http.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](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.

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# Monitors

## Business Monitors

★ : Recommended

### Z Displays

HP Z34c G3 WQHD Curved Display	30A19AA ★
HP Z27k G3 4K USB-C Display	1B9T0AA ★
HP Z24m G3 QHD Conferencing Display	4Q8N9AA ★
HP Z24f G3 FHD Display	3G828A7
HP Z24f G3 FHD Display	3G828AA
HP Z24f G3 FHD Display	3G828AT
HP Z24m G3 QHD Conferencing Display	4Q8N9A7
HP Z24m G3 QHD Conferencing Display	4Q8N9AT
HP Z24m G3 QHD Conferencing Display	4Q8N9E9
HP Z24n G3 WUXGA Display	1C4Z5A7
HP Z24n G3 WUXGA Display	1C4Z5AA
HP Z24n G3 WUXGA Display	1C4Z5AT
HP Z24q G3 QHD Display	4Q8N4A7
HP Z24q G3 QHD Display	4Q8N4AA
HP Z24q G3 QHD Display	4Q8N4AT
HP Z24q G3 QHD Display	4Q8N4E9
HP Z24u G3 WUXGA USB-C Display	1C4Z6A7
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
HP Z24u G3 WUXGA USB-C Display	1C4Z6AT
HP Z24u G3 WUXGA USB-C Display	1C4Z6E9
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9A7
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AT
HP Z27k G3 4K USB-C Display	1B9T0A7
HP Z27k G3 4K USB-C Display	1B9T0AT
HP Z27q G3 QHD Display	1C4Z7A7
HP Z27q G3 QHD Display	1C4Z7AA
HP Z27q G3 QHD Display	1C4Z7AT
HP Z27u G3 QHD Display	1B9X2A7
HP Z27u G3 QHD Display	1B9X2AA



HP Z27u G3 QHD Display	1B9X2AT
HP Z27xs G3 4K USB-C DreamColor Display	1A9M8A7
HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AA
HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AT
HP Z34c G3 WQHD Curved Display	30A19A7
HP Z34c G3 WQHD Curved Display	30A19AT
HP Z34c G3 WQHD Curved Display	30A19E9
HP Z40c G3 WUHD Curved Display	3A6F7AA
HP Z40c G3 WUHD Curved Display	3A6F7AT
HP Z40c G3 WUHD Curved Display	3A6F7E9
HP Z43 42.5-inch 4K UHD Display	1AA85A4
HP Z43 42.5-inch 4K UHD Display	1AA85A8

## E-Series

HP E22 G4 FHD Monitor	9VH72AA
HP E22 G4 FHD Monitor	9VH72AS
HP E22 G4 FHD Monitor	9VH72AT
HP E22 G5 FHD Monitor	6N4E8AA
HP E22 G5 FHD Monitor	6N4E8AS
HP E22 G5 FHD Monitor	6N4E8AT
HP E22 G5 FHD Monitor	6N4E8E9
HP E23 G4 FHD Monitor	9VF96A7
HP E23 G4 FHD Monitor	9VF96A8
HP E23 G4 FHD Monitor	9VF96AA
HP E23 G4 FHD Monitor	9VF96AS
HP E23 G4 FHD Monitor	9VF96AT
HP E23 G4 Without Video Cable FHD Monitor	9VF96A3
HP E24 G4 FHD Monitor	9VF99A7
HP E24 G4 FHD Monitor	9VF99AA
HP E24 G4 FHD Monitor	9VF99AS
HP E24 G4 FHD Monitor	9VF99AT
HP E24 G4 Without Video Cable FHD Monitor	9VF99A3
HP E24 G5 FHD Monitor	6N6E9AA
HP E24 G5 FHD Monitor	6N6E9AS
HP E24 G5 FHD Monitor	6N6E9AT
HP E24 G5 FHD Monitor	6N6E9E9

HP E24 G5 FHD PVC Free Monitor	6N6E9A5
HP E24i G4 WUXGA Monitor	9VJ40A7
HP E24i G4 WUXGA Monitor	9VJ40AA
HP E24i G4 WUXGA Monitor	9VJ40AS
HP E24i G4 WUXGA Monitor	9VJ40AT
HP E24i G4 Without Video Cable WUXGA Monitor	9VJ40A3
HP E24mv G4 FHD Conferencing Monitor	169L0AA
HP E24mv G4 FHD Conferencing Monitor	169L0AS
HP E24mv G4 FHD Conferencing Monitor	169L0AT
HP E24mv G4 FHD Conferencing Monitor	169L0E9
HP E24q G4 QHD Monitor	9VG12A7
HP E24q G4 QHD Monitor	9VG12AA
HP E24q G4 QHD Monitor	9VG12AT
HP E24q G5 QHD Monitor	6N4F1AA
HP E24q G5 QHD Monitor	6N4F1AS
HP E24q G5 QHD Monitor	6N4F1AT
HP E24q G5 QHD Monitor	6N4F1E9
HP E24q G5 QHD PVC Free Monitor	6N4F1A5
HP E24t G4 FHD Touch Monitor	9VH85A7
HP E24t G4 FHD Touch Monitor	9VH85A8
HP E24t G4 FHD Touch Monitor	9VH85AA
HP E24t G4 FHD Touch Monitor	9VH85AS
HP E24t G4 FHD Touch Monitor	9VH85AT
HP E24t G5 FHD Touch Monitor	6N6E6AA
HP E24t G5 FHD Touch Monitor	6N6E6AS
HP E24t G5 FHD Touch Monitor	6N6E6AT
HP E24t G5 FHD Touch Monitor	6N6E6E9
HP E27 G4 FHD Monitor	9VG71A7
HP E27 G4 FHD Monitor	9VG71AA
HP E27 G4 FHD Monitor	9VG71AS
HP E27 G4 FHD Monitor	9VG71AT
HP E27 G4 Without Video Cable FHD Monitor	9VG71A3
HP E27 G5 FHD Monitor	6N4E2AA
HP E27 G5 FHD Monitor	6N4E2AS
HP E27 G5 FHD Monitor	6N4E2AT
HP E27 G5 FHD Monitor	6N4E2E9

HP E27 G5 FHD PVC Free Monitor	6N4E2A5
HP E27q G4 QHD Monitor	9VG82A7
HP E27q G4 QHD Monitor	9VG82AA
HP E27q G4 QHD Monitor	9VG82AT
HP E27q G4 Without Video Cable QHD Monitor	9VG82A3
HP E27q G5 QHD Monitor	6N6F2AA
HP E27q G5 QHD Monitor	6N6F2AS
HP E27q G5 QHD Monitor	6N6F2AT
HP E27q G5 QHD Monitor	6N6F2E9
HP E27q G5 QHD PVC Free Monitor	6N6F2A5

## P-Series

HP P22 G4 22 FHD Monitor	1A7E4AA
HP P22 G4 22 FHD Monitor	1A7E4AS
HP P22 G4 22 FHD Monitor	1A7E4AT
HP P22 G5 FHD Monitor	64X86A7
HP P22 G5 FHD Monitor	64X86AA
HP P22 G5 FHD Monitor	64X86AS
HP P22 G5 FHD Monitor	64X86AT
HP P22h G4 FHD Monitor	7UZ36AA
HP P22h G4 FHD Monitor	7UZ36AS
HP P22h G4 FHD Monitor	7UZ36AT
HP P22h G4 FHD Monitor	9UJ12A8
HP P22h G5 FHD Monitor	64W30A7
HP P22h G5 FHD Monitor	64W30AA
HP P22h G5 FHD Monitor	64W30AS
HP P22h G5 FHD Monitor	64W30AT
HP P24 G4 24 FHD Monitor	1A7E5AA
HP P24 G4 24 FHD Monitor	1A7E5AS
HP P24 G4 24 FHD Monitor	1A7E5AT
HP P24 G5 FHD Monitor	64X66A7
HP P24 G5 FHD Monitor	64X66AA
HP P24 G5 FHD Monitor	64X66AS
HP P24 G5 FHD Monitor	64X66AT
HP P24h G4 FHD Monitor	7VH44AA
HP P24h G4 FHD Monitor	7VH44AS

HP P24h G4 FHD Monitor	7VH44AT	
HP P24h G4 FHD Monitor	9UJ13A8	
HP P24h G4 FHD Monitor	9UJ13AA	
HP P24h G5 FHD Monitor	64W34A7	
HP P24h G5 FHD Monitor	64W34AA	
HP P24h G5 FHD Monitor	64W34AS	
HP P24h G5 FHD Monitor	64W34AT	
HP P27 G5 FHD Monitor	64X69A7	
HP P27 G5 FHD Monitor	64X69AA	
HP P27 G5 FHD Monitor	64X69AS	
HP P27 G5 FHD Monitor	64X69AT	
HP P27h G4 FHD Monitor	9UJ14A8	obsolete
HP P27h G4 FHD Monitor	9UJ14AA	obsolete
HP P27h G5 FHD Monitor	64W41A7	
HP P27h G5 FHD Monitor	64W41AA	
HP P27h G5 FHD Monitor	64W41AS	
HP P27h G5 FHD Monitor	64W41AT	

### Value Displays

HP ZHAN D 24 Display	7MQ70AA	
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## Accessories

### PC Drives and Storage

★ : Recommended

#### PC SATA Hard Drives

12TB 7200 RPM SATA-6G 3.5in Enterprise HDD	5S461AA
2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
8TB 7200RPM SATA 3.5in Enterprise	2Z273AA
HP 1TB Enterprise SATA 7200 HDD	WOR10AA
HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AA
HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AT
HP 2TB SATA 6Gb/s 7200 Hard Drive	QB576AA
HP 4TB SATA 7200 Hard Drive	K4T76AA
HP 4TB SATA 7200 Hard Drive	K4T76AT
HP 500GB 7200rpm SATA SFF SED Hard Drive	D8N29AA
HP 500GB SATA 6Gb/s 7200 Hard Drive	LQ036AA
HP 500GB SATA 6Gb/s 7200 Hard Drive	LQ036AT

#### PC Solid State Drives

1TB 2280 PCIe-4x4 NVMe Value M.2 Z2 Kit SSD	4M9Z3AA
256GB 2280 PCIe-4x4 NVMe Value M.2 Z2 Kit SSD	4M9Z1AA
512GB 2280 PCIe-4x4 NVMe Value M.2 Z2 Kit SSD	4M9Z2AA
HP CRU SHIPS M.2 1TB Storage Module	56Q88AA
HP CRU SHIPS M.2 2TB Storage Module	56Q87AA
HP CRU SHIPS M.2 512GB Storage Module	56Q89AA
HP Z Turbo Drive 2TB TLC Z8 G4 SSD Kit	201F8AA
HP ZTurbo 1TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A3AA
HP ZTurbo 1TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A3AT
HP ZTurbo 1TB PCIe-Gen 4x4 TLC Z2 SSDKit	201F5AA
HP ZTurbo 1TB PCIe-Gen 4x4 TLC Z2 SSDKit	201F5AT
HP ZTurbo 2TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A4AA
HP ZTurbo 2TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A4AT
HP ZTurbo 512GB PCIe-Gen 4x4 SED Z2 SSDKit	201F9AA
HP ZTurbo 512GB PCIe-Gen 4x4 TLC Z2 SSDKit	201G0AA
HP ZTurbo 512GB PCIe-Gen 4x4 TLC Z2 SSDKit	201G0AT
Z Turbo 1TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	38T76AA

Z Turbo 1TB PCIe-4x4 TLC SSD Module	38T77AA
Z Turbo 2TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	38T79AA
Z Turbo 2TB PCIe-4x4 TLC SSD Module	38T75AA
Z Turbo 4TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	5S497AA
Z Turbo 4TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	5S497AT
Z Turbo 4TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 Z2 SSD Kit	5S498AA
Z Turbo 4TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 Z2 SSD Kit	5S498AT
Z Turbo 4TB 2280 PCIe-4x4 TLC M.2 Z2 SSD Kit	5S492AA
Z Turbo 4TB 2280 PCIe-4x4 TLC M.2 Z2 SSD Kit	5S492AT
Z Turbo 4TB 2280 PCIe-4x4 TLC SSD Module	5S496AA
Z Turbo 4TB 2280 PCIe-4x4 TLC SSD Module	5S496AT
Z Turbo 512GB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	38T81AA
Z Turbo 512GB PCIe-4x4 TLC SSD Module	38T80AA

## Removable Hard Drive Enclosure

HP CRU QX328 5.25 in Front Removable Frame	4N011AA
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## PC DVD-ROM Drives

HP Z2 TWR DVD-ROM 9.5mm Slim ODD	4L5K1AA
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## PC DVD Drives

HP Z2 TWR DVD-Writer 9.5mm Slim ODD	4L5K0AA
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## Memory

### DDR5 Memory

16GB DDR5 (1x16GB) 4800 UDIMM ECC Memory	4M9Y1AA
16GB DDR5 (1x16GB) 4800 UDIMM ECC Memory	4M9Y1AT
16GB DDR5 (1x16GB) 4800 UDIMM NECC Memory	4M9Y0AA
16GB DDR5 (1x16GB) 4800 UDIMM NECC Memory	4M9Y0AT
32GB DDR5 (1x32GB) 4800 UDIMM ECC Memory	4M9Y3AA
32GB DDR5 (1x32GB) 4800 UDIMM ECC Memory	4M9Y3AT
32GB DDR5 (1x32GB) 4800 UDIMM NECC Memory	4M9Y2AA
32GB DDR5 (1x32GB) 4800 UDIMM NECC Memory	4M9Y2AT
8GB DDR5 (1x8GB) 4800 UDIMM NECC Memory	4M9X9AA
8GB DDR5 (1x8GB) 4800 UDIMM NECC Memory	4M9X9AT

## Graphics Cards

### Graphics Cards

AMD Radeon RX 6400 4GB DP+HDMI Graphics	6Q3U4AA
NVIDIA Quadro T1000 4GB 4mDP Graphics	20X22AA
NVIDIA Quadro T1000 4GB 4mDP Graphics	20X22AT
NVIDIA RTX A2000 12 GB 4mDP Graphics	5Z7D9AA
NVIDIA RTX A2000 12 GB 4mDP Graphics	5Z7D9AT
NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AA
NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AT
NVIDIA RTX A4000E 16GB 4DP Graphics	6H7J7AA
NVIDIA RTX A4500 20 GB 4DP Graphics	5S458AA
NVIDIA RTX A4500 20 GB 4DP Graphics	5S458AT
NVIDIA T1000 8 GB 4mDP Graphics	5Z7D8AA
NVIDIA T1000 8 GB 4mDP Graphics	5Z7D8AT

## PC Controller/Controller Options

### PC Processor Cards

Allied Telesis AT-2911T/2-901 Dual Port 1GbE NIC	6E3Y9AA
Intel Ethernet I350-T2 2-Port 1Gb NIC	V4A91AA
Intel Ethernet I350-T4 4-Port 1Gb NIC	W8X25AA
Intel I225V Single Port 2.5GbE PCIe NIC	406L9AA
NVIDIA Mellanox ConnectX-6 LX Dual Port 25GbE SFP28 NIC	436M8AA

## Keyboards/Mice and Input Devices

### Keyboards

HP 125 Wired Keyboard	266C9AA
HP 125 Wired Keyboard	266C9ET
HP 125 Wired Keyboard	266C9UT
HP 455 Programmable Wireless Keyboard	4R177A6
HP 455 Programmable Wireless Keyboard	4R177AA
HP 455 Programmable Wireless Keyboard	4R177ET
HP 975 Dual-Mode Wireless Keyboard	3Z726AA
HP 975 Dual-Mode Wireless Keyboard	3Z726UT
HP Business Slim Smartcard Keyboard	Z9H48AA

HP Business Slim Smartcard Keyboard	Z9H48AT
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HP Wired Desktop 320K Keyboard	9SR37AA
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HP Wired Desktop 320K Keyboard	9SR37ET
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HP Wired Desktop 320K Keyboard	9SR37UT
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## Mice

HP 125 Wired Mouse	265A9AA
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HP 125 Wired Mouse	265A9ET
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HP 125 Wired Mouse	265A9UT
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HP 128 Laser Wired Mouse	265D9AA
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HP 128 Laser Wired Mouse	265D9ET
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HP 128 Laser Wired Mouse	265D9UT
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HP 935 Creator Wireless Mouse	1D0K8AA
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HP 935 Creator Wireless Mouse	1D0K8UT
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HP Wired Desktop 320M Mouse	9VA80AA
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HP Wired Desktop 320M Mouse	9VA80ET
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HP Wired Desktop 320M Mouse	9VA80UT
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## Keyboard and Mouse Kits

HP 655 Wireless Keyboard and Mouse Combo	4R009AA
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HP 655 Wireless Keyboard and Mouse Combo (Black 10)	4R009A6
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HP 655 Wireless Keyboard and Mouse Combo (Black 10)	4R009ET
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HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
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HP Wired Desktop 320MK Mouse and Keyboard	9SR36ET
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HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT
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## Expansion Solution and Controller Cards

### Port Adapters

HP 1GbE LAN Flex Port 2020	141J6AA
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HP DP Flex Port 2020	141J7AA
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HP Dual USB-A 3.2 Gen1 Flex 2020	141J8AA
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HP Flex 1GbE Fiber LC Single Port	20J15AA
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HP HDMI Flex Port	69D47AA
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HP HDMI Flex Port	69D47AT
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HP PCIe x1 Parallel Port Card	N1M40AA
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HP PCIe x1 Parallel Port Card	N1M40AT
HP USB-C 3.2 Gen2 Alt Flex Port 2020	141K6AA
HP VGA Flex Port 2020	141K7AA
HP Z2 G5 2nd serial port adapter	141K8AA
HP Z2 G5 Internal Serial and PS/2 Port	141K9AA
HP Z2 G9 Single Type-C SuperSpeed USB 20Gbps Front Port	4M9X8AA
HP Z2 G9 Single Type-C SuperSpeed USB 20Gbps Front Port	4M9X8AT

## Remote Interfaces

HP Anyware Integrated Remote System Controller	7K6D9AA
HP Anyware Remote System Controller	7K6D7AA
HP Anyware Remote System Controller Main Board Adapter	7K6D8AA

## Cables/Cable Kits/Cable Adapters

### PC Cable Options

HP 2.5-in to 3.5-in HDD Adapter Kit	J5T63AA
HP 2.5-inch to 3.5-inch HDD Adapter Bulk Kit (30 pack)	J5T63A6

### Audio and Video Cables

HP DisplayPort To VGA Adapter	AS615A6
HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort To VGA Adapter	AS615AT
HP DisplayPort To VGA Adapter	F7W97AA
HP DisplayPort to DVI-D Adapter	FH973AA
HP DisplayPort to DVI-D Adapter	FH973AT
HP DisplayPort to DVI-D Adapter (Bulk 90)	FH973A6
HP DisplayPort to HDMI True 4K Adapter	2JA63AA

### Cable Adapters

HP Single miniDP-to-DP Adapter Cable	2MY05AA
HP USB-C to DP Adapter	4SH08AA
HP USB-C to HDMI Adapter	4SH07AA
HP USB-C to VGA Adapter	4SH06AA

### Drive Cables and Cable Adapters

HP Z2 Tower HDD Cable Kit	6Z9U6AA
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## Chassis and Chassis Accessories

### Brackets/Bezels/Panels

HP 2.5in HDD/SSD 2-in-1 Optical Bay Bracket	K4T74AA
HP Dust Filter Z2 G5 Tower	141L2AA
HP Dust Filter bezel Z2 G5 Tower	141L3AA
HP Optical Bay HDD Mounting Bracket	NQ099AA
HP Z2 TWR Dual Front Fan Kit	4N007AA

## Security and Protection

### PC Locks

HP Business PC Security Lock v3 Kit	3XJ17AA
HP Business PC Security Lock v3 Kit	3XJ17AT
HP Keyed Cable Lock 10 mm	T1A62AA
HP Keyed Cable Lock 10 mm	T1A62UT
HP Master Keyed Cable Lock 10mm	T1A63AA

## Audio/Multimedia and Communication Devices

### Headsets

HP Reverb G2 Virtual Reality Headset	1N0T4AA
HP Reverb Virtual Reality Headset G2 (359V7AV)	428Z7AA

## Rack Brackets/Bezels/ Panels/Rails/ Trays/Mounting

### Rack Kits

HP Z2 Mini/Z2 Tower/Z4/Z6 Depth Adjustable Fixed Rail Rack Kit	2A8Y5AA
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## Batteries/Chargers/Adapters

### Power Cords

HP Z2 Power Cord Kit M	1N1D5AA
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## Network Adapters

### Adapter Cards

Intel X550 10GBASE-T Dual Port NIC	1QL46AA
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# HyperX Gaming Peripherals

## HyperX Gaming Headsets

★ : Recommended

### HyperX Cloud Headsets SC

HyperX Cloud Core Gaming Headset (Black)

4P4F2AA

### HyperX Cloud Flight Headsets SC

HyperX Cloud Flight - Wireless Gaming Headset (Black-Red)

4P5L4AA

### HyperX Cloud MIX Headsets SC

HyperX Cloud MIX - Gaming Headset (Black-Gunmetal)

4P5K9AA

### HyperX Cloud Stinger Headsets SC

HyperX Cloud Stinger Core - Gaming Headset (Black)

4P4F4AA

## HyperX Microphones

### HyperX SoloCast Microphones SC

HyperX SoloCast - USB Microphone (Black)

4P5P8AA

# Hybrid Work Solutions

## Audio

★ : Recommended

### Wired Headset

Poly Blackwire 3210 Monaural USB-A Headset	80S01AA
Poly Blackwire 3210 Monaural USB-C Headset	80S09AA
Poly Blackwire 3215 Monaural USB-A Headset	80S06AA
Poly Blackwire 3220 Stereo USB-A Headset	80S02AA
Poly Blackwire 3225 Stereo USB-A Headset	80S11AA
Poly Blackwire 5210 Monaural USB-A Headset	80R98AA
Poly Blackwire 5220 Stereo USB-A Headset	80R97AA
Poly Blackwire 7225 USB-A Headset	7S4M8AA
Poly Blackwire 7225 USB-A White Headset	7W077AA
Poly Blackwire 7225 USB-C Headset	7W076AA
Poly Blackwire 7225 USB-C White Headset	7W078AA
Poly Blackwire C3215 Monaural Headset +Carry Case	80S05AA
Poly Blackwire C3220 Stereo USB-C Black Headset +Carry Case (Bulk Qty.50)	80S08A6
Poly Blackwire C3220 Stereo USB-C Headset +Carry Case	80S07AA
Poly Blackwire C3220 UC USB-A Headset	7S4L0AA
Poly Blackwire C3225 Headset	7S4M7AA
Poly Blackwire C3225 Stereo USB-C Headset	80S04AA
Poly Blackwire C5210 USB-C Headset +Inline Cable	80S4AA
Poly Blackwire C5220 USB-A Headset	7S4L8AA
Poly Blackwire C5220 USB-C Headset +Inline Cable	80S4H3AA
Poly EncorePro 310 Stereo USB-A Headset	767G1AA
Poly EncorePro 320 Monaural USB-C Headset	767F9AA
Poly EncorePro 320 Stereo USB-A Headset	767G0AA
Poly EncorePro HW710 Single Ear (Monaural) Headset +Carry Case	80S4H7AA
Poly EncorePro HW720 Binaural Headset +Carry Case	80S4H6AA
Poly SupraPlus H251 Speakerphone +Pouch	7S442AA
Poly SupraPlus H251N Single Ear (Monaural) Headset +Pouch	7S443AA
Poly SupraPlus H261N Binaural Headset +Pouch	7S444AA
Poly SupraPlus HW261N Binaural Dual Headset +Pouch	7W074AA

### Wireless Headset

Poly Savi 7210 Office DECT Single Ear (Monaural) Headset	7W6D4AA
Poly Savi 7220 Office Binaural DECT Headset	7W6D5AA
Poly Savi 7310 Office DECT Single Ear (Monaural) Headset	7S430AA
Poly Savi 7310-M Office DECT Single Ear (Monaural) Headset	7S439AA
Poly Savi 7320 Microsoft Teams Certified DECT Headset	77T39AA
Poly Savi 7320 Office Stereo DECT Headset	7S429AA
Poly Savi 7320-M Office Stereo DECT Headset	7S435AA
Poly Savi 8210 Office DECT Single Ear (Monaural) Headset	7S445AA
Poly Savi 8210-M Office DECT Single Ear (Monaural) Headset	7S447AA
Poly Savi 8220 Office Stereo DECT Headset	7S4B5AA
Poly Savi 8220-M Office Stereo DECT Headset	7S4B6AA
Poly Savi 8245 Headset +USB-A to USB-C Cable +D400	7W6B6AA
Poly Voyager 4245-M Office Headset +USB-A to Micro USB Cable	7S3Y5AA
Poly Voyager 4310 Microsoft Teams Certified USB-A Headset +BT700 dongle	77Y91AA
Poly Voyager 4310 Microsoft Teams Certified USB-C Headset +BT700 dongle	77Y95AA
Poly Voyager 4310 USB-A Headset +BT700 dongle	76U48AA
Poly Voyager 4310 USB-C Headset +BT700 dongle	77Y94AA
Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging Stand	77Y96AA
Poly Voyager 4310-M Microsoft Teams Certified USB-C Headset +BT700 dongle +Charging Stand	77Y97AA
Poly Voyager 4320 Microsoft Teams Certified USB-A Headset +BT700 dongle	77Y98AA
Poly Voyager 4320 Microsoft Teams Certified USB-C Headset +BT700 dongle	77Z30AA
Poly Voyager 4320 USB-A Headset +BT700 dongle	76U49AA
Poly Voyager 4320 USB-C Headset +BT700 dongle	76U50AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand	77Z31AA
Poly Voyager 4320-M Microsoft Teams Certified Headset +BT700 dongle +Charging Stand	77Z32AA
Poly Voyager 5200 Office Headset +USB-A to Micro USB Cable	7W6D2AA
Poly Voyager 5200 Office Headset +USB-C to Micro USB Cable	7S3Y1AA
Poly Voyager 5200 UC Headset +USB-A to Micro USB Cable +BT700 dongle	7Y209AA
Poly Voyager 5200 UC USB-A Headset +BT600 Dongle	7K2E1AA
Poly Voyager 5200 USB-A Bluetooth Headset +BT700 dongle	7K2F3AA
Poly Voyager 5200-M Office Headset +USB-A to Micro USB Cable	7W6D3AA
Poly Voyager 5200-M Office Headset +USB-C to Micro USB Cable	7S3Y4AA
Poly Voyager Focus 2 UC Headset +USB-A to USB-C Cable +Charging Stand	7S4L6AA
Poly Voyager Focus B825 UC +USB-A to Micro USB Cable +BT700 dongle	7S4K7AA

Poly Voyager Focus B825 UC USB-C Headset +Charging Stand	7F0J3AA
Poly Voyager Focus B825 USB-C Headset	7F0J4AA
Poly Voyager Legend B235-M +USB-A to Micro USB Cable +Charging Case and Charge stand +Pin Adapter	7Y6G0AA
Poly Voyager Legend Headset +Integrated Charge Cable +Pin Adapter	7W6B8AA
Poly Voyager Legend Headset +USB-A to Micro USB Cable +Charging Stand with no Wall Plug	7W6B7AA

## Speakerphones

Poly Sync 10 Speakerphone +USB-A to USB-C Cable	7S4M6AA
Poly Sync 20+M Speakerphone +USB-A to USB-C Cable +BT700 dongle +Pouch	7Y215AA
Poly Sync 20-M Speakerphone +USB-A to USB-C Cable	7S4M1AA

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