



# HP Sales Central

## HP Z2 G8 Tower Workstation Desktop PC - Data Science (54U75PA)

Active as of 18-08-2021



### Overview

#### Engineered to evolve.

We've engineered a whole new level of performance for entry workstations, so you can cut through rendering, visualization, BIM projects without missing a beat. And when your demands change, you have impressive expandability to upgrade.

#### Your new benchmark for entry workstation power.

Unleash the full power of professional graphics and an Intel® processor on compute-heavy projects. Designed for unthrottled performance so you can render and visualize projects faster.

#### Built to expand. Power to grow.

Need to upgrade graphics? Increase memory or storage? Add specialized PCIe cards? Go for it. With room to expand and tool-less access, you can easily upgrade and add components as your needs evolve. This is an investment that will last for years.

#### Industry-leading security. Durability you can trust.

Backed by 360K hours of rigorous testing, military-standard testing,<sup>2</sup> and software certs, every component is put to the test. And with hardened security features, your Z2 Tower is protected from the BIOS to the browser, above and below the OS.

#### Access your Z2 Tower from anywhere.

Tap into the power of your Z2 Tower from anywhere and on almost any device with HP ZCentral Remote Boost.<sup>3</sup> Get fast responsiveness and exceptional image quality on demanding projects. Seamlessly collaborate with dispersed teams, even on 3D models.

## Specifications

#### Operating system

Windows 10 Pro

#### Processor family

Intel® Xeon® W processor

#### Processor

Intel® Xeon® W-1350 (3.3 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores)<sup>6,71</sup>

#### Number of processors

1

#### Chipset

Intel® W580

#### Form factor

Tower

#### 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)

### **Sustainable impact specifications**

Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 20% 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

### **Security management**

HP Secure Erase; HP Power On Authentication; HP Sure Click; Windows Defender; HP Sure Sense; HP BIOSphere Gen6; HP Client Security Manager Gen7; HP Sure Start Gen7; HP Sure Run Gen4; HP Sure Recover Gen4

### **Memory**

32 GB DDR4-3200 MHz RAM (1 x 32 GB)

### **Memory layout (slots & size)**

1 x 32 GB

### **Memory Slots**

4 DIMM

### **Internal drive bays**

One 3.5" HDD

### **External drive bays**

One 5.25"

### **Internal Storage**

512 GB PCIe® NVMe™ M.2 SSD

### **Hard drive (2nd)**

1 TB 7200 rpm SATA HDD

### **Storage controller**

Integrated SATA (4 ports 6 Gb/s) with integrated RAID 0, 1, for PCIe SSDs supported. Requires identical hard drives (speeds, capacity, interface).

### **Optical drive**

HP 9.5 mm Slim DVD-Writer

### **Compatible displays**

All HP Z Displays and HP DreamColor Displays are supported. For more information see [www.hp.com/go/zdisplays](http://www.hp.com/go/zdisplays)

### **I/O Port location**

Front

### **Ports**

2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 universal audio jack; 2 SuperSpeed Type-A USB 5Gbps signaling rate (1 charging)

### **I/O Port location**

Rear

### **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

### **Expansion slots**

1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 M.2 2230 PCIe 3 x1; 1 M.2 2280 PCIe 4 x4; 1 M.2 2280 PCIe 3 x4; 1 PCIe 3 x1 (x4 connector); 1 PCIe 4 x16 (x16 connector)

### **Network interface type**

LAN

### **Audio**

Realtek 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.)

3

### **Weight**

Starting at 7 kg

**UPC number**

196337072237

**Keyboard**

HP USB wired keyboard

**Manufacturer Warranty**

3 year (3/3/3) limited warranty 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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**Overview**

- 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 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.
- 3 HP ZCentral Remote Boost Sender does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase through 2022. 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 Sender for non-Z Hardware requires a license and Windows 10, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. Requires network access. The software is available for download at [hp.com/ZCentralRemoteBoost](http://hp.com/ZCentralRemoteBoost).

**Specifications**

- 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.

## Assets

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### Brochure (7)

#### **Are You Ready for VR?**

Get VR Ready with the world's most comprehensive virtual reality portfolio from HP. This comprehensive brochure outlines HP's VR strategy and delivers platform recommendations for HMDs, the VR backpack, mobiles, and desktop configurations.

#### **How Z by HP Data Science Stack Manager helps data scientists and IT alike**

One-page pdf providing overview of Z by HP Data Science Stack Manager which offers fast, convenient access to software and open-source tools for data science.

#### **HP VR - Helping you adapt**

Virtual reality is a powerful tool that can help you collaborate, create and learn. HP VR hardware specifications and recommended tools from industry-leading ISV partners.

#### **HP VR Family Brochure**

Get VR Ready with the world's most comprehensive virtual reality portfolio from HP. This comprehensive brochure outlines HP's VR strategy and delivers platform recommendations for HMDs, the VR backpack, mobiles, and desktop configurations.

#### **Powering a New Era of Collaboration and Simulation**

Brochure describing the details and benefits of the Z by HP exclusive trial offer of Teradici CAS and NVIDIA Omniverse Enterprise

#### **Z by HP Portfolio Brochure**

Z by HP Brochure - Discover the latest generation of professional Z by HP products

#### **Z by HP Reliability Brochure**

This document is intended to showcase our Z reliability benefits.

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### Customer presentation (6)

#### **Business of Selling Z Desktops**

##### **Partner and Channel**

Not all remote work is mobile, some users need to use a desktop workstation rather than a mobile workstation. This deck will highlight the reasons why, the key differentiators, the benefits of using, and recommending a desktop workstation to your customers.

#### **HP Engage + Z OEM Customer Presentation**

##### **Partner and Channel**

This presentation provides an overview of HP Engage and Z solutions for OEM applications.

#### **Reinvent Your 3D Workflows: Z by HP + NVIDIA Omniverse + Teradici CAS Trial Offer CDA**

##### **Partner and Channel**

Customer CDA presentation for the Z by HP + NVIDIA Omniverse Enterprise + Teradici CAS exclusive trial offer.

#### **Z1 Entry Tower G8 Customer Presentation**

##### **Partner and Channel**

Overview of Z1 Entry Tower G8 Desktop workstation. HP sales and partner use only under CDA.

#### **Z2 G5 Customer Presentation**

##### **Partner and Channel**

Overview of Z2 G5 desktop workstation. HP sales and partner use only under CDA.

#### **Z2 G8 Customer Deck**

##### **Partner and Channel**

Overview of Z2 G5 desktop workstation. HP sales and partner use only under CDA.

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### Data sheet (1)

#### **HP Z2 G8 Tower Workstation Desktop PC**

HP Z2 G8 Tower Workstation Desktop PC Data sheet

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### Marketing material (1)

## Z by HP Playbook for Microsoft WSL 2

### Partner and Channel

Training playbook to help sales teams understand the Z by HP offering of Microsoft's Windows Subsystem for Linux 2 (WSL 2).

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## Quick specs (1)

### HP Z2 Tower G8 Workstation

Research or buy HP printers, desktops, laptops, and more at the Official HP Inc. Website.

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## Reference guide (1)

### Z By Hp Family Quick Reference Guide

Seven-page document with comparative technical specifications for the HP Z Workstations and HP ZBook Mobile Workstations.

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## Sales guide (3)

### HP NVIDIA Omniverse Sales Training

#### Partner and Channel

NVIDIA Omniverse Enterprise – Sales Guidance

### The Elite to Z Positioning Narrative

#### Partner and Channel

This presentation demonstrates the product positioning and key differences between premium business products and the Z by HP products.

### Z by HP Discrete Graphics Quick Reference Guide

Tabloid spread document that highlights all of the available NVIDIA and AMD graphics cards for the HP Z Workstations.

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## Success story (2)

### Universidad Andrés Bello, Chile

Improving IT service response time and customer satisfaction with HP Device as a Service (DaaS)

### Z by HP ZCentral Success Story: Capgemini

HP Z workstations—ZBook, Z2, Z4, Z6, Z8—help Capgemini efficiently maximize software performance for each user, support seamless remote usage, and centralize the workstation environment.

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## Technical specifications (1)

### Z2 G8 Technical Appendix

#### Partner and Channel

The purpose of this document is to give sales a deeper technical dive on the Z2 G8 technical aspects of the products.

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## Technical white paper (6)

### An Hp Position Paper On Memory

The purpose of this document is to help HP workstation customers decide whether to populate their HP products with HP memory or with 3rd party memory. 3rd party memory is often less expensive than HP memory. Should customers pay extra for HP memory and if so what are the benefits? It is HP's desire that our customers understand some facts of memory technology and make the most informed decision possible based on their business needs.

### Intel® virtual raidon CPU (vroc)

The purpose of this whitepaper is to explain Virtual RAID on CPU (VROC), it's prerequisites, enablement options, and configuration.

### MIL-STD-810 Testing for HP Business PCs: August 2022 update

August 2022 update version of the whitepaper; most HP Business Notebook & Desktop PCs, Z/Workstations and Retail Systems undergo MIL-STD-810 test procedures as a way to demonstrate product quality & reliability. Conditions/specs outlined in the MIL-STD-810 test methods are not covered under the HP Limited Warranty.

### Rack Mounting and the HP Workstation

Whether it is an IT technician servicing a single rack, or a team of professionals managing multiple data centers - with HP Rack

Mounting Solutions, everyday tasks are made easy. HP rack mounting kits are engineered with the same customer-centric design philosophies that have made the Workstation product line a continuing success.

### **Understanding Multi-Frame Rendering in Adobe After Effects and Choosing the Right Z Platform**

You've been pushing through projects on an underperforming computer, hiding and/or soloing layers, reducing the complexity of effects and/or turning effects off entirely, just so you can have responsive interactivity while previewing your adjustments. You finally get your project looking the way you want it and kick off the export.

### **Z by HP installation guide for Microsoft Windows Subsystem for Linux (WSL 2)**

Technical white paper that provides instructions for existing Z workstation users who wish to install Microsoft WSL 2.

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## **Training materials (1)**


### **Intel AI Kit Playbook**

#### **Partner and Channel**

Playbook for the Intel® AI Analytics Toolkit (AI Kit), powered by one API. Discover how the AI Kit can optimize data science workflows on select Z by HP workstations


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Images - Annotated (5)




**HP Z2 Tower Annotated Dimension Image CM ?**  
primary file is JPG  
supporting file is the PSD file (Left Facing)

99 x 74 (png)    320 x 240 (png)  
573 x 430 (png)    2000 x 2000 (jpg)




**HP Z2 Tower Annotated Dimension Image Inches ?**  
primary file is JPG  
supporting file is the PSD file (Left Facing)

99 x 74 (png)    320 x 240 (png)  
573 x 430 (png)    2000 x 2000 (jpg)




**HP Z2 Tower Annotated Dimension Image Inches ?**  
primary file is JPG  
supporting file is the PSD file (Left Facing)

99 x 74 (png)    320 x 240 (png)  
573 x 430 (png)    2000 x 2000 (jpg)



**HP Z2 Tower Annotated Walkaround Back ?**  
primary file is JPG  
supporting file is the PSD file (Rear Facing)


99 x 74 (png)    320 x 240 (png)  
573 x 430 (png)    2000 x 2000 (jpg)



**HP Z2 Tower Annotated Walkaround Front ?**  
primary file is JPG  
supporting file is the PSD file (Front Facing)


99 x 74 (png)    320 x 240 (png)  
573 x 430 (png)    2000 x 2000 (jpg)

Images - Product (6)




**Center facing**

54x 41 (jpg)    54x 41 (png)  
 96x 72 (jpg)    96x 72 (png)  
 99x 74 (png)    153x 115 (png)  
 180x 135 (png)    240x 180 (jpg)  
 240x 180 (png)    247x 185 (png)  
 257x 193 (png)    320x 240 (jpg)  
 320x 240 (png)    474x 356 (png)  
 513x 385 (png)    573x 430 (png)  
 1659x 1246 (png)    1158x 2443 (png)




**Center facing**

100x 70 (jpg)    170x 190 (jpg)  
 400x 400 (jpg)    400x 400 (png)  
 800x 600 (png)    1252x 2522 (jpg)  
 1500x 3361 (jpg)




**Left facing**

54x 41 (jpg)    54x 41 (png)  
 96x 72 (jpg)    96x 72 (png)  
 99x 74 (png)    153x 115 (png)  
 180x 135 (png)    240x 180 (jpg)  
 240x 180 (png)    247x 185 (png)  
 257x 193 (png)    320x 240 (jpg)  
 320x 240 (png)    474x 356 (png)  
 513x 385 (png)    573x 430 (png)  
 1659x 1246 (png)    1729x 2442 (png)




**Left facing**

100x 70 (jpg)    170x 190 (jpg)  
 400x 400 (jpg)    400x 400 (png)  
 800x 600 (png)    1500x 2369 (jpg)  
 1776x 2528 (jpg)



**Right facing**

54x 41 (jpg)    54x 41 (png)  
 96x 72 (jpg)    96x 72 (png)  
 99x 74 (png)    153x 115 (png)  
 180x 135 (png)    240x 180 (jpg)  
 240x 180 (png)    247x 185 (png)  
 257x 193 (png)    320x 240 (jpg)  
 320x 240 (png)    474x 356 (png)  
 513x 385 (png)    573x 430 (png)  
 1659x 1246 (png)    1727x 2444 (png)



**Right facing**

100x 70 (jpg)    170x 190 (jpg)  
 400x 400 (jpg)    400x 400 (png)  
 800x 600 (png)    1500x 2372 (jpg)  
 1774x 2528 (jpg)



## Images - Product in use (8)



HP Z2 G8 Tower Workstation  
Desktop PC Desk1 A 3895



HP Z2 G8 Tower Workstation  
Desktop PC Desk1 A 3895



HP Z2 Tower G8 Desktop  
Workstation, HP 27k G3 4K  
USB-C Display front



HP Z2 Tower G8 Desktop  
Workstation, HP 27k G3 4K  
USB-C Display front



HP Z2 Tower G8 Desktop  
Workstation, HP 27k G3 4K  
USB-C Display Front Left



HP Z2 Tower G8 Desktop  
Workstation, HP 27k G3 4K  
USB-C Display Front Left



HP Z2 Tower G8 Desktop  
Workstation, HP 27k G3 4K  
USB-C Display Front Left  
Low



HP Z2 Tower G8 Desktop  
Workstation, HP 27k G3 4K  
USB-C Display Front Left  
Low

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## Videos (14)

Configuration and Deployment Services Video.

Local Motors & HP Workstations

Factory Five Racing.

Hillsborough County Public Schools and HP Z Workstations

HP and Bandito Brothers

HP and Rakuno Gakuen University.

HP DreamColor Technology for Media and Entertainment.

HP OSF and Jump Trading: Enabling better patient outcomes - Shorter Version

HP ZCentral Video update showing HP ZCentral 4R 1U Desktop

Morgan Motors Company

Sage Cheshire takes off with SolidWorks HP and NVIDIA

Tech of DreamWorks Rise of the Guardians

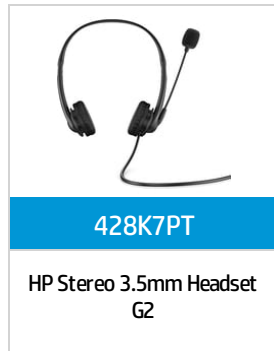
Viral Videos powered by HP Z Workstations



## Accessories

### HP Top Recommended Accessories

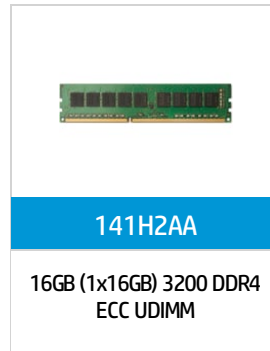
#### Audio/Multimedia and Communication Devices



#### Graphics Cards



#### Memory



#### PC Drives and Storage



### Audio/Multimedia and Communication Devices

#### HP Recommends

Active	Best	HP Stereo 3.5mm Headset G2	428K7PT
Active		HP Stereo 3.5mm Headset G2	428K7PT

### Cables/Cable Kits/Cable Adapters

#### Audio and Video Cables

Active	HP DisplayPort to DVI-D Adapter	FH973AA
Active	HP DisplayPort to HDMI True 4K Adapter	2JA63AA
Active	HP DisplayPort To VGA Adapter	AS615AA
Active	HP DisplayPort To VGA Adapter	F7W97AA

#### Cable Adapters

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

#### PC Cable Options

Active	HP 2.5-in to 3.5-in HDD Adapter Kit	J5T63AA
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### Chassis and Chassis Accessories

#### Brackets/Bezels/Panels

Active	HP Dust Filter bezel Z2 G5 Tower	141L3AA
Active	HP Dust Filter Z2 G5 Tower	141L2AA
Active	HP Optical Bay HDD Mounting Bracket	NQ099AA

### Expansion Solution and Controller Cards

## Expansion Packs and Solutions

Active	HP Z2 TWR Card Hldr	2B1D4AA
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### Port Adapters

Active	HP 1GbE LAN Flex Port 2020	141J6AA
Active	HP DP Flex Port 2020	141J7AA
Active	HP Front Type-C SuperSpeed USB 20Gbps port	201F4AA
Active	HP PCIe x1 Parallel Port Card	N1M40AA
Active	HP VGA Flex Port 2020	141K7AA
Active	HP Z2 G5 2nd serial port adapter	141K8AA
Active	HP Z2 G5 Internal Serial and PS/2 Port	141K9AA

## Graphics Cards

### HP Recommends

Active	Best	NVIDIA Quadro T1000 4GB 4mDP Graphics	20X22AA
Active	Better	NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AA
Active	Good	NVIDIA RTX A5000 24 GB 4DP Graphics	20X23AA

### Graphics Cards

Active	AMD Radeon Pro W5500 8GB 4DP GFX	9GC16AA
Active	AMD Radeon Pro W5700 8GB 5mDP+USBc GFX	9GC15AA
Active	NVIDIA RTX A4500 20 GB 4DP Graphics	5S458AA
Active	NVIDIA Quadro T1000 4GB 4mDP Graphics	20X22AA
Active	NVIDIA RTX A4000 16 GB 4DP Graphics	20X24AA
Active	NVIDIA RTX A5000 24 GB 4DP Graphics	20X23AA

## Keyboards/Mice and Input Devices

### Keyboard and Mouse Kits

Active	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
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### Keyboards

Active	HP Wired Desktop 320K Keyboard	9SR37AA
Active	HP Wireless Premium Keyboard	Z9N41AA

### Mice

Active	HP Wired Desktop 320M Mouse	9VA80AA
Active	HP Wireless Premium Mouse	1JR31AA

## Memory

### HP Recommends

Active	Best	16GB (1x16GB) 3200 DDR4 ECC UDIMM	141H2AA
Active	Better	16GB (1x16GB) 3200 DDR4 NECC UDIMM	141H3AA
Active	Good	32GB (1x32GB) 3200 DDR4 ECC UDIMM	141H7AA

### DDR4 Memory

Active	4GB (1x4GB) 3200 DDR4 NECC UDIMM	141J1AA
Active	8GB (1x8GB) 3200 DDR4 ECC UDIMM	141J3AA
Active	8GB (1x8GB) 3200 DDR4 NECC UDIMM	141J4AA

Active	32GB (1x32GB) 3200 DDR4 NECC UDIMM	141H9AA
Active	16GB (1x16GB) 3200 DDR4 ECC UDIMM	141H2AA
Active	16GB (1x16GB) 3200 DDR4 NECC UDIMM	141H3AA
Active	32GB (1x32GB) 3200 DDR4 ECC UDIMM	141H7AA

## Network Adapters

### Adapter Cards

Active	Intel X550 10GBASE-T Dual Port NIC	1QL46AA
Active	Intel X710-DA2 10GbE SFP+ DP NIC	1QL47AA

## PC Controller/Controller Options

### PC Processor Cards

Active	Aquantia NBASE-T 5GbE PCIe NIC	1PM63AA
Active	Intel Ethernet I350-T2 2-Port 1Gb NIC	V4A91AA
Active	Intel Ethernet I350-T4 4-Port 1Gb NIC	W8X25AA

## PC Drives and Storage

### HP Recommends

Active	<b>Best</b> 2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
Active	<b>Better</b> 8TB 7200RPM SATA 3.5in Enterprise	2Z273AA
Active	<b>Good</b> HP 4TB SATA 7200 Hard Drive	K4T76AA

### PC DVD Drives

Active	HP Z2 TWR DVD-Writer 9.5mm Slim ODD	4L5K0AA
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### PC DVD-ROM Drives

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

Active	HP 1TB Enterprise SATA 7200 HDD	W0R10AA
Active	HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AA
Active	HP 500GB 7200rpm SATA SFF SED Hard Drive	D8N29AA
Active	HP 500GB SATA 6Gb/s 7200 Hard Drive	LQ036AA
Active	2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
Active	8TB 7200RPM SATA 3.5in Enterprise	2Z273AA
Active	HP 4TB SATA 7200 Hard Drive	K4T76AA

### PC Solid State Drives

Active	HP Z Turbo Drive 2TB TLC Z8 G4 SSD Kit	201F8AA
Active	HP Z Turbo 1TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A3AA
Active	HP Z Turbo 1TB PCIe-Gen 4x4 TLC Z2 SSDKit	201F5AA
Active	HP Z Turbo 2TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A4AA
Active	HP Z Turbo 256GB PCIe-Gen 4x4 SED Z2 SSDKit	201F6AA
Active	HP Z Turbo 256GB PCIe-Gen 4x4 TLC Z2 SSDKit	201F7AA

Active	HP ZTurbo 512GB PCIe-Gen 4x4 SED Z2 SSDKit	201F9AA
Active	HP ZTurbo 512GB PCIe-Gen 4x4 TLC Z2 SSDKit	201G0AA
Active	Z Turbo 1TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	38T76AA
Active	Z Turbo 1TB PCIe-4x4 TLC SSD Module	38T77AA
Active	Z Turbo 2TB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	38T79AA
Active	Z Turbo 2TB PCIe-4x4 TLC SSD Module	38T75AA
Active	Z Turbo 512GB 2280 PCIe-4x4 SED OPAL2 TLC M.2 SSD Module	38T81AA
Active	Z Turbo 512GB PCIe-4x4 TLC SSD Module	38T80AA

#### Personal Media Storage

Active	HP SD card reader Z2 G5 Twr	141K3AA
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#### Removable Hard Drive Enclosure

Active	HP 4-in-1 SFF (2.5in) HDD Carrier	B8K60AA
Active	HP QX310 5.25 in Frame/Carrier	4Y7D9AA

## Point of Sales System Options

#### POS Display Accessories

Active	HP L5015tm 15-inch Retail Touch Monitor	M1F94AA
Active	HP L7010t 10.1-inch Retail Touch Monitor	T6N30AA
Active	HP L7014 14-inch Retail Monitor	T6N31AA

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

#### Rack Kits

Active	HP Z2 Mini/Z2 Tower/Z4/Z6 Depth Adjustable Fixed Rail Rack Kit	2A8Y5AA
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# Monitors

## Business Monitors

### Business LCD Monitors

Active	HP P174 17-inch Monitor	5RD64AA
Active	HP P204v 49.53 cm(19.5) Monitor	5RD66AA

### EliteDisplays

Active	HP EliteDisplay E243m 60.45 cm(23.8) Monitor	1FH48AA
Active	HP EliteDisplay E273m 68.58 cm (27) Monitor	1FH51AA

### E-Series

Active	HP E24 G4 FHD No Stand Monitors	9VF99A9
Active	HP E22 G4 FHD Monitor	9VH72A9
Active	HP E22 G4 FHD Monitor	9VH72AA
Active	HP E23 G4 FHD Monitor	9VF96AA
Active	HP E24 G4 FHD Monitor	9VF99AA
Active	HP E24d G4 FHD USB-C Conferencing Monitor	2S1M0AA
Active	HP E24d G4 FHD USB-C Docking Monitor	6PA50A4
Active	HP E24d G4 FHD USB-C Docking Monitor	6PA50A9
Active	HP E24i G4 WUXGA Monitor	9VJ40AA
Active	HP E24mv G4 FHD Conferencing Monitor	169L0AA
Active	HP E24q G4 QHD Monitor	9VG12AA
Active	HP E24t G4 FHD Touch Monitor	9VH85AA
Active	HP E24u G4 FHD USB-C Monitor	189T0AA
Active	HP E27 G4 FHD Monitor	9VG71A9
Active	HP E27 G4 FHD Monitor	9VG71AA
Active	HP E27d G4 QHD USB-C Conferencing Monitor	2S1M3AA
Active	HP E27d G4 QHD USB-C Docking Monitor	6PA56A4
Active	HP E27q G4 QHD Monitor	9VG82A9
Active	HP E27q G4 QHD Monitor	9VG82AA
Active	HP E27u G4 QHD USB-C Monitor	189T3AA

### ProDisplays

Active	HP Mini-in-One 24 Display	7AX23AA
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### P-Series

Active	HP P19b G4 Monitor	9TY83AA
Active	HP P19v G4 Monitor	9TY84AA
Active	HP P21v G4 Monitor	9TY72AA
Active	HP P22 G4 22 FHD Monitor	1A7E4AA
Active	HP P22h G4 FHD Monitor	7UZ36AA
Active	HP P22va G4 FHD Monitor	453D2AA
Active	HP P24 G4 24 FHD Monitor	1A7E5AA
Active	HP P24h G4 FHD Monitor	7VH44AA
Active	HP P24v G4 Monitor	9TT78AA
Active	HP P27h G4 FHD Monitor	7VH95AA

Active	HP P27v G4 Monitor	9TT20AA
Active	HP P34hc G4 WQHD USB-C Curved Monitor	21Y56AA
Z Displays		
Active	HP Z24f G3 FHD Display	3G828AA
Active	HP Z24n G3 WUXGA Display	1C4Z5AA
Active	HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
Active	HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
Active	HP Z27k G3 4K USB-C Display	1B9T0AA
Active	HP Z27q G3 QHD Display	1C4Z7AA
Active	HP Z27u G3 QHD Display	1B9X2AA
Active	HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AA
Active	HP Z32 31.5-inch 4K UHD Display	1AA81A4
Active	HP Z38c 37.5-inch Curved Display	Z4W65A4
Active	HP Z43 42.5-inch 4K UHD Display	1AA85A4



## Services

### HP Care Pack Services

#### HP Recommends

Active	HP 5 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22KCE
Active	HP 5 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KGE
Active	HP 5 year Next Business Day Response Onsite Workstation Hardware Support	U1G39E

#### Personal Systems Commercial Care Pack Services

Active	HP 1y Helpdesk Hardware Support	U09X7E
Active	HP 2y Helpdesk Hardware Support	U09X8E
Active	HP 3 year 24x7 Coverage User Assistance Hardware Support	UM253E
Active	HP 3 year 9x7 Coverage Priority Account (1 unit exclude ASM) Hardware Support	U9AH2E
Active	HP 3 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KDE
Active	HP 3 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22K9E
Active	HP 3y Helpdesk Hardware Support	U09X9E
Active	HP 3y Priority Account 1 unit exclude ASM Hardware Support	UQ812E
Active	HP 4 year 9x7 Coverage Priority Account (1 unit exclude ASM) Hardware Support	U9AH3E
Active	HP 4 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KFE
Active	HP 4 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22KBE
Active	HP 4y Helpdesk Hardware Support	U09XBE
Active	HP 5 year 9x7 Coverage Priority Account (1 unit exclude ASM) Hardware Support	U9AH4E
Active	HP 5y Helpdesk Hardware Support	U09XCE
Active	HP 5 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22KCE
Active	HP 5 year Active Care Next Business Day Response Onsite WorkstationHardware Support	U22KCE
Active	HP 5 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KGE
Active	HP 5 year Active Care Next Business Day Resp Onsite w/Defective MediaRetention WS HW Supp	U22KGE

#### Personal Systems Hardware Support Onsite Service

Active	HP 1 year Post Warranty 24x7 Coverage 4hr Response Onsite WorkstationHardware Support	U1G32PE
Active	HP 1 year PW Next business day Response onsite WS HW Supp	U1G24PE
Active	HP 3 year 24x7 Coverage 4hr Response Onsite Workstation Hardware Support	U1G28E
Active	HP 3 year 4hr Response Onsite w/Defective Media Retention WorkstationHardware Support	U1G79E

Active	HP 3 year Next Business Day Onsite Optional CSR Workstations HardwareSupport	U1G59E
Active	HP 3 year Next Business Day Response Onsite w/Accidental DamageProtection WS Supp	U0A88E
Active	HP 3 year Next Business Day Response Onsite w/Defective Media RetentionWS HW Supp	U1G55E
Active	HP 3y NBD ONS w/Accidental Damage Protection/Defective Media RetentionWS (Low End) HW Supp	U9WU5E
Active	HP 4 year 24x7 Coverage 4hr Response Onsite w/Defective Media RetentionWS HW Supp	U1G89E
Active	HP 4 year 4hr Response Onsite w/Defective Media Retention WorkstationHardware Support	U1G80E
Active	HP 4 year Next Business Day Response Onsite w/Accidental DamageProtection WS HW Supp	U0A89E
Active	HP 4 year Next Business Day Response Onsite w/Defective Media RetentionWS HW Supp	U1G56E
Active	HP 4 year Next Business Day Response Onsite Workstation Hardware Support	U1G37E
Active	HP 5 year 24x7 Coverage 4hr Response Onsite w/Defective Media RetentionWS HW Supp	U1G90E
Active	HP 5 year 24x7 Coverage 4hr Response Onsite Workstation Hardware Support	U1G47E
Active	HP 5 year 4hr Response Onsite w/Defective Media Retention WorkstationHardware Support	U1G81E
Active	HP 5 year Next Business Day Response Onsite w/Accidental DamageProtection Workstation HW Supp	U1G62E
Active	HP 5 year Next Business Day Response Onsite w/Defective Media Retention WS HW Supp	U1G57E
Active	HP 5 year Next Business Day Response Onsite Workstation Hardware Support	U1G39E

## Detailed Specifications

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### Additional information on the product category

For the latest information, please visit our Web site at <http://www.hp.com/workstations>

### Aggregation group name

BV\_FE\_FAMILY:rockettitan\_Group\_194

### Aggregation UPC group

196337072237 196337078055 196337656468 196337202696

### Audio

Realtek ALC3205-VA2-CG, 2.0W internal mono speaker

### Chipset

Intel® W580

### Code name

RocketTitan

### Compatible displays

All HP Z Displays and HP DreamColor Displays are supported. For more information see [www.hp.com/go/zdisplays](http://www.hp.com/go/zdisplays)

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### Datasheet photo 1

AHID/b066925aeae813bae12ed5b71ca4429c039712b3

### Datasheet photo 2

Publication logos/HP\_Care\_Pack\_RGB\_blue\_icon.jpg

### Datasheet photo 3

AHID/ae64329b210009f14eb2a52ed95af99ca0dead5

### Datasheet photo 4

AHID/94900aef0976fd4fad239f12c8042d9c626e4808

### Datasheet photo 5

AHID/a64cb5cef76c244d5664082e41e29f4bb76a878b

### Dimensions (W x D x H) Note

Standard tower orientation.

### ECC memory

non-ECC

### Expansion slots

1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 M.2 2230 PCIe 3 x1; 1 M.2 2280 PCIe 4 x4; 1 M.2 2280 PCIe 3 x4; 1 PCIe 3 x1 (x4 connector); 1 PCIe 4 x16 (x16 connector)

### Expansion slots note

1 M.2 2230 slot for WLAN and 2 M.2 2280 slots for storage

### External drive bays

One 5.25"

### Form factor

Tower

### Graphics

Discrete

### Graphics (discrete)

NVIDIA RTX™ A4000 (16 GB GDDR6 dedicated)

### Graphics card brand

NVIDIA®

### Graphics card memory size

**Graphics card memory size uom**

GB

**Graphics card memory type**

GDDR6

**Hard drive (2nd)**

1 TB 7200 rpm SATA HDD

**I/O Port location**

Front

**I/O Port location**

Rear

**Image legal disclaimer**

Product image may differ from actual product

**Internal drive bays**

One 3.5" HDD

**Internal Storage**

512 GB PCIe® NVMe™ M.2 SSD

**Keyboard**

HP USB wired keyboard

**Keyboard connectivity**

wired

**Keyboard interface**

USB

**Legal tagline**

HP recommends Windows 11 Pro for business

**Manageability features footnote number**

[18]

**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)

**Manufacturer Warranty**

3 year (3/3/3) limited warranty includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

**Memory**

32 GB DDR4-3200 MHz RAM (1 x 32 GB)

**Memory and storage**

32 GB memory; 1 TB HDD storage; 512 GB SSD storage

**Memory layout (slots & size)**

1 x 32 GB

**Memory module type**

DIMM

**Memory size**

32

**Memory size uom**

GB

**Memory Slots**

4 DIMM

**Memory speed**

3200

**Memory speed uom**

MHz

**Memory type**

DDR4

**Minimum dimensions (W x D x H)**

35.6 x 16.9 x 38.5 cm

**Network interface type**

LAN

**Number of memory slots**

1

**Number of processors**

1

**Operating system**

Windows 10 Pro

**Optical drive**

HP 9.5 mm Slim DVD-Writer

**Playbook TS icon battery life**

<http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png>

**Playbook TS icon connectivity**

<http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png>

**Playbook TS icon dimensions tower**

<https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201997.png>

**Playbook TS icon graphics**

<https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png>

**Playbook TS icon memory**

<https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png>

**Playbook TS icon OS**

<http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png>

**Playbook TS icon processor**

<https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png>

**Playbook TS icon storage**

<http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png>

**Playbook TS icon weight imperial**

<http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png>

**Playbook TS icon weight metric**

<https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png>

**Pointing device**

HP Wired 320M Mouse

**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

**Ports**

2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 universal audio jack; 2 SuperSpeed Type-A USB 5Gbps signaling rate (1 charging)

**Processor**

Intel® Xeon® W-1350 (3.3 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores)

**Processor base frequency**

5.0

**Processor Brand**

Intel®

**Processor cache**

12 MB L3

**Processor core**

6

**Processor family**

Intel® Xeon® W processor

**Processor family**

Xeon® W

**Processor frequency technology**

Intel® Turbo Boost Technology

**Processor frequency UOM**

GHz

**Processor maximum frequency**

3.3

**Processor maximum frequency uom**

GHz

**Processor model**

1350

**Processor name footnote number**

[6,7]

**Processor threads**

12

**Product long name specifications**

HP Z2 G8 Tower Workstation Desktop PC - Data Science, Windows 10 Pro, Intel® Xeon® W, 32GB RAM, 512GB SSD, 1TB HDD, NVIDIA®

**Product short name specifications**

HP Z2 G8 Tower Workstation Desktop PC - Data Science, Intel® Xeon® W, 32GB RAM, 512GB SSD, 1TB HDD

**Sales office and telephone number**

Albania: +49 89 9396 1803; Algeria: +213 (0) 61 68 23 00; Austria: +43 (0) 810 00 60 80; Bahrain: 800 171; Belgium: +32 (02) 729 71 11; Bulgaria: +359 2 969 87; Bosnia-Herzegovina: +49 89 9396 1803; Commonwealth of Independent States (CIS): +(095) 923 50 01; Croatia: +385 1 606 02 00; Czech Republic: +420 261 108 108; Denmark: +45 48 12 10 00; HP East Africa, Authorized Consultant: +254 20 27 16 111 ; Egypt: HP +202 792 5070 ; Estonia: +372 6 813 820; Finland: HP Myyntipalvelu 010 217 2700; France: +33 (0) 826 800 400; Germany: +49 (0) 180 532 62 22; Greece: +30 801 11 22 55 47; Hungary: +36 (1) 382 11 11; Iceland: +354 (1) 67 10 00; Ireland: +353 1 615 82 00; Israel: +972 9 830 48 48; Italy: Prodotti +39 02 92607 330, Servizio HP Care Pack: +39 02 9212 2040; Kazakhstan & Kyrgyzstan: +7 327 2 58 43 43; Latvia: +371 703 07 00; Lithuania: +370 5 2103 300; Luxembourg : (+352) 263 160 34 Macedonia: +49 89 9396 1803; Malta: +49 89 9396 1803; Middle East (Within UAE Toll Free): 800 45 20; Moldova: +49 89 9396 1803; Morocco (African Region): Call Centre +212 22 40 47 47, HP Sale Office +212 22 97 37 37/+212 22 43 64 00; Netherlands: 0800 266 7272; Nigeria: + 234 13 205 241/3; Norway: +47 24 09 70 00; Poland: 0 801 522 622 and/or 00 48 22 565 77 00 (calls are charged at national rates); Portugal: +351 808 200 808 (end user welcome desk for commercial products) ; Romania: +40 (21) 303 83 00; Saudi Arabia: (Toll free) 800 897 14 33, Office Number: +96612731200; Serbia and Montenegro: +381 11 201 99 00; Slovakia: 0800 147 147; Slovenia: +386 1 230 74 20; Spain: +34 (91) 631 16 00; Sweden: +46 200 27 00 00; Switzerland: Pre-sales/product information +41 (0) 848 88 44 66, Spare parts, manuals +41 (0) 848 84 74 64; Tunisia: +216 1 89 12 22; Turkey: +90 (212) 444 79 79; UAE (Toll Free): 800 45 20; UAE (Toll Free): 800 45 20 or 800 49 10; Ukraine: +380 44 490 61 20 ; United Kingdom: HP Teleweb Glasgow +44 (0) 845 270 40 00

**Security management**

HP Secure Erase; HP Power On Authentication; HP Sure Click; Windows Defender; HP Sure Sense; HP BIOSphere Gen6; HP Client Security Manager Gen7; HP Sure Start Gen7; HP Sure Run Gen4; HP Sure Recover Gen4

**Security management footnote number**

[19,20,21,22,23,24,25,26]

**Software included footnote number**

[15,16,17]

**Standard memory note**

Transfer rates up to 3200 MT/s.

**Storage capacity**

512

**Storage capacity 02**

**Storage capacity uom 01**

GB

**Storage capacity uom 02**

TB

**Storage controller**

Integrated SATA (4 ports 6 Gb/s) with integrated RAID 0, 1, for PCIe SSDs supported. Requires identical hard drives (speeds, capacity, interface).

**Storage form factor 01**

M.2

**Storage interface 01**

PCIe®

**Storage interface 02**

SATA

**Storage interface protocol 01**

NVMe™

**Storage speed 02**

7200

**Storage speed uom 02**

rpm

**Storage type**

HDD; SSD

**Storage type 01**

SSD

**Storage type 02**

HDD

**Sustainable impact specifications**

Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 20% 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

**Sustainable impact specifications footnote number**

[14]

**Tech spec footnote**

[10] Intel I350-T4 4-port GbE NIC is an AMO only.

**Tech spec footnote**

[11] Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write to 2.6GB Single Sided/5.2 Double Sided-Version 1.0 Media.

**Tech spec footnote**

[12] With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this Desktop PC.

**Tech spec footnote**

[13] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.

**Tech spec footnote**

[14] External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

**Tech spec footnote**

[15] HP ZCentral Remote Boost Sender does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase through 2022. 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 Sender for non-Z Hardware requires a license and Windows 10, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS

operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. Requires network access. The software is available for download at [hp.com/ZCentralRemoteBoost](http://hp.com/ZCentralRemoteBoost).

**Tech spec footnote**

[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>

**Tech spec footnote**

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

**Tech spec footnote**

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

**Tech spec footnote**

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

**Tech spec footnote**

[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](https://aka.ms/windows11-spec)

**Tech spec footnote**

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

**Tech spec footnote**

[21] HP Sure Click requires Windows 11 Pro, Windows 10 Pro or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.

**Tech spec footnote**

[22] HP Sure Start Gen7 is available on select HP PCs and workstations. See product specifications for availability.

**Tech spec footnote**

[23] HP Sure Run Gen4 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors

**Tech spec footnote**

[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.

**Tech spec footnote**

[25] 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

**Tech spec footnote**

[26] HP Sure Sense requires Windows 11 Pro 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.

**Tech spec footnote**

[27] A certified preloaded version of Ubuntu® 20.04 LTS is available from HP for this platform.

**Tech spec footnote**

[28] Intel® I225 and Intel® X710 will be available in Q3, 2021.

**Tech spec footnote**

[29] TCO Certified configurations available when ENERGY STAR configurations are selected with a USB Type-C® connector. ENERGY STAR available with a combination of high-performance CPU's, high-performance GPU's and select memory configurations.

**Tech spec footnote**

[3] For detailed OS/hardware support information for Linux, see: [http://www.hp.com/support/linux\\_hardware\\_matrix](http://www.hp.com/support/linux_hardware_matrix)

**Tech spec footnote**

[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.



**Tech spec footnote**

[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>

**Tech spec footnote**

[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.

**Tech spec footnote**

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

**Tech spec footnote**

[8] Flex IO port and one PCIe slot will be occupied when Thunderbolt is installed. Thunderbolt will be available in Q3, 2021.

**Tech spec footnote**

[9] Keyboard and Mouse are optional or add on features. The HP Antimicrobial Keyboard and HP Antimicrobial Mouse are only available in China.

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**UNSPSC code**

43211515

**UPC number**

196337072237

**Weight**

Starting at 7 kg

**Weight note (metric)**

Exact weight depends on configuration.

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