



# HP Sales Central

## HP Z4 G4 Workstation (3M154PA)

Discontinued as of 30-09-2020



### Overview

#### HP's best-selling performance workstation

Perfect for engineering, visualization and Machine Learning, HP's most popular workstation delivers disruptive performance for a wide spectrum of applications. With a choice of Intel® Xeon® or Core™ X processors, and support for dual extreme graphics, you get all you need, nothing more.

#### Feature-rich functionality

The Z4 is ahead of its time with more standard features than any other single processor HP workstation. With multiple configuration options, you can choose the perfect blend of components that meet your performance requirements.

#### HP's most secure workstations

Advanced security features come standard on every Z4. Rest assured your device, identity and data are safe with security software like HP Client Security Suite Gen3<sup>2</sup> and HP Sure Start Gen3<sup>10</sup> featuring a self-healing BIOS.

#### Visualization powerhouse

Visualize your project anytime with the power to move seamlessly between 3D CAD, rendering and simulation applications. The Z4 can easily handle tasks that require high frequency processing, multiple cores and high-powered GPUs for an optimized design process.

## Specifications

#### Operating system

Linux® Ready

#### Processor family

Intel® Xeon® W processor

#### Processor

Intel® Xeon® W2135 (3.7 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 6 cores)<sup>6,7 1</sup>

#### Number of processors

1

#### Chipset

Intel® C422; Intel® X299

#### Sustainable impact specifications

Low halogen

#### Security management

Full volume encryption; HP Keyed Cable Lock Kit; HP Secure Erase; HP Sure Start Gen3; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP Device Access Manager; HP Sure Click; HP BIOSphere Gen3; HP Client Security Manager Gen3; HP MIK/SCCM Gen2; Self Encrypting Drive (SED)

**Memory**

64 GB DDR4-2933 MHz RAM (4 x 16 GB)

**Memory layout (slots & size)**

4 x 16 GB

**Memory Slots**

8 DIMM

**Internal drive bays**

Two 2.5" or 3.5"

**External drive bays**

Two 5.25"

**Internal Storage**

4 TB 7200 rpm SATA HDD

**Hard drive (2nd)**

##BLANK##

**Hard drive (3rd)**

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**Additional storage**

HP SD 4 Media Card Reader (optional)

**Storage controller**

Integrated SATA 6.0 Gb/s supporting RAID 0, 1, 5, 10; Optional SAS controller supporting RAID, 0, 1, 10 for SAS drives

**Optical drive**

9.5 mm Slim DVD-Writer

**Compatible displays**

All HP Z Displays and HP DreamColor Displays are supported.

**I/O Port location**

Front (Premium version)

**Ports**

1 headset connector; 4 USB 3.1 (1 charging)

*(The Intel® Core™ X-Series processor configurations only have one RJ45 port and 5 Rear USB 3.1 Gen 1 ports available. The serial port is optional.)*

3

**Expansion slots**

1 PCIe 3 x16; 2 M.2 PCIe 3 x4

**Network interface type**

LAN

**Network interface**

Integrated Intel® I219-LM PCIe® GbE

**Audio**

Realtek HD ALC221

**Power**

1000 W internal power supply, up to 90% efficiency, active PFC

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

38.6 x 16.9 x 44.5 cm

**Weight**

Starting at 10.2 kg

**UPC number**

194850762161

**Software**

HP ZCentral Remote Boost 2020<sup>13,31</sup> 1

**Software included**

HP ProtectTools Security; ZCentral Remote Boost

**Keyboard**

HP USB Slim Business Keyboard

## Manufacturer Warranty

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

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### Overview

- 2 HP Client Security Suite Gen3 requires Windows and Intel® or AMD 7th Gen processors.
- 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.

### 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 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.
- 13 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.com/ZCentralRemoteBoost).
- 31 HP Performance Advisor – Internet access required.

## Assets

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### Brochure (14)

#### **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.

#### **Powerful Z Workstations Brochure (Meet Fast Analytics Platform)**

Powerful Z Workstations Meet Fast Analytics Platform Brochure

#### **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

#### **Workstations for Creative Professionals in Media and Entertainment**

A brochure featuring creative compute power for users in the media and entertainment industry.

#### **Z by HP and Adobe**

HP offers an expansive portfolio of integrated workstation hardware and software solutions designed to maximize the creative capabilities of Adobe software. Together, Z and Adobe help you create stunning digital media.

#### **Z by HP and Autodesk**

Brochure about Z by HP and Autodesk. Accelerate Autodesk workflows with certified HP Z Workstations that help you deliver your BIM, Digital Prototyping, and 3D CAD projects in less time.

#### **Z by HP and SolidWorks**

Accelerate SolidWorks workflows with certified Z by HP workstations - designed to handle large and complex datasets, dispersed teams and tight deadlines - helping you deliver your 2D and 3D CAD projects in less time.

#### **Z by HP Data Science Brochure**

Z by HP Data Science one-pager listing out our partnership with NVIDIA, how we create our Data Science Solution, and configurations for the Z4, Z8 & ZBook 17. Utilize this for customer visits and initiating conversations about data science opportunities.

#### **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.

#### **Z by HP ZCentral One-Pager Brochure**

Z by HP ZCentral one-pager describes what the ZCentral solution is. Utilize this for customer visits and initiating conversations about ZCentral opportunities.

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### Certification (10)

#### **India BIS Registration Workstation Z4-G4 FCLSA-1701A -1701B -1701C**

Workstation Z4-G4

#### **India BIS Registration Workstation Z4-G4 FCLSA-1701A -1701B -1701C**

Workstation Z4-G4

#### **India BIS Registration Workstation Z4-G4 FCLSA-1701A Foxconn**

Workstation Z4-G4

#### **India BIS Registration Workstation Z4-G4 FCLSA-1701A Q-Edge**

Workstation Z4-G4

### **India BIS Registration Workstation Z4-G4 FCLSA-1701B Foxconn**

Workstation Z4-G4

### **India BIS Registration Workstation Z4-G4 FCLSA-1701B Hongfujin**

Workstation Z4-G4

### **India BIS Registration Workstation Z4-G4 FCLSA-1701B Q-Edge**

Workstation Z4-G4

### **India BIS Registration Workstation Z4-G4 FCLSA-1701C**

Workstation Z4-G4

### **India BIS Registration Workstation Z4-G4 FCLSA-1701C Foxconn**

Workstation Z4-G4

### **India BIS Registration Workstation Z4-G4 FCLSA-1701C Hongfujin**

Workstation Z4-G4

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## Competitive information (1)

### **Lenovo P620 vs. Z Performance Desktops**

#### **Partner and Channel**

This document provides resources and competitive analysis on the Lenovo P620 and the Z High Performance Desktops

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## Customer presentation (11)

### **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.

### **HP Performance Desktop Workstations Customer Deck (Z4 G4, Z6 G4, Z8 G4)**

#### **Partner and Channel**

Overview of the HP Z G4 Desktop Workstations featuring the HP Z4 G4, Z6, G4, Z8 G4. Covers positioning and specifications

### **HP Z Sustainability Presentation**

#### **Partner and Channel**

This customer deck goes through the overall HP goal of focusing on sustainability before diving into how Z designs with sustainability in mind.

### **HP Z Workstation OEM Program Customer Presentation (short version)**

#### **Partner and Channel**

This short presentation covers the HP Original Equipment Manufacturers program available to HP Z Workstation Customers. It discusses the benefits and services included, and the unique advantages it provides. Recommended to use this when promoting OEM but not having a large amount of time allotted to present.

### **OEM Extended Life Program & Life Cycle Extension Presentation**

#### **Partner and Channel**

This presentation covers the OEM ELP and LCE programs for Z workstations. Contracted OEM partners can extend the lifecycle of selected platforms to maximize their business solutions.

### **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.

### **Z by HP Data Science Workstation Customer Presentation**

#### **Partner and Channel**

This sales deck provides an overview of our Z by HP Data Science workstation. Use this deck to understand what data science is, why GPU-acceleration is important, our configurations, partners and how customers can apply for our data science pilot program

and receive a custom quote.

## **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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## FAQ/Q&A (2)

### **Z by HP for Data Science FAQ**

#### **Partner and Channel**

High-level overview of Data Science, who Data Scientists are, and the partnerships and configurations that Z by HP has currently.

### **Z BY HP UBUNTU 20.04**

This document is intended to answer all potential questions about Ubuntu 20.04 compatability and availability with Z products.

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## Marketing material (2)

### **BEYOND FORM AND STRUCTURE: Generative Design and AI in AEC**

Industry article written by AEC magazine focused on generative design and AI

### **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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## Multimedia - Web Page (11)

### **HP Z G4 Workstation - Microsoft eDM - Z8**

Forests Microsoft eDM: HP Z Workstation

### **HP Z G4 Workstation - Performance 1200x627 Banner OPEX - Z8**

Forests Performance 1200x627: HP Z8 G4 Workstation

### **HP Z G4 Workstation - Performance 160x600 banner OPEX - Z8**

Forests Performance 160x600: HP Z8 Workstation

### **HP Z G4 Workstation - Performance 300x250 Banner OPEX - Z8**

Forests Performance 300x250: HP Z8 G4 Workstation

### **HP Z G4 Workstation - Performance 300x600 Banner OPEX - Z8**

Forests Performance 300x600: HP Z8 G4 Workstation

### **HP Z G4 Workstation - Performance 728x90 Banner OPEX - Z8**

Forests Performance 728x90: HP Z8 G4 Workstation

### **HP Z G4 Workstation - Security 1200x627 Banner OPEX - Z8**

Forests Security 1200x627: HP Z8 G4 Workstation

### **HP Z G4 Workstation - Security 160x600 Banner OPEX - Z8**

Forests Security 160x600: HP Z8 G4 Workstation

### **HP Z G4 Workstation - Security 300x250 Banner OPEX - Z8**

Forests 300x250 Security: HP Z8 G4 Workstation

### **HP Z G4 Workstation - Security 300x600 Banner OPEX - Z8**

Forests Security 300x600: HP Z8 G4 Workstation

### **HP Z G4 Workstation - Security 728x90 Banner OPEX - Z8**

Forests Security 728x90: HP Z8 G4 Workstation

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## Play book (1)

### **Z by HP OEM Program Sales Playbook**

#### **Partner and Channel**

This training playbook is your go-to location for all things OEM for salespeople. Learn to look for business, approach OEM customers, and how to pitch elements of the HP OEM Program.

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## Quick specs (1)

### **HP Z4 G4 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)

### **High Performance Desktop Workstation Objections**

#### **Partner and Channel**

This presentation is to help sales answer objections from customers regarding our high end desktop workstations (Z4, Z6, & Z8). It also includes links to additional resources to help sales including datasheets, quickspecs, and upsell guides.

### **HP NVIDIA Omniverse Sales Training**

#### **Partner and Channel**

NVIDIA Omniverse Enterprise –Sales Guidance

### **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 (6)

### **Universidad Andrés Bello, Chile**

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

### **Z by HP Ambassador Program: Chanram Kim**

Chanram Kim: HP Z Global Ambassador uses Z by HP to discover and disseminate data science insights faster, to help tackle wide-ranging challenges.

### **Z by HP Ambassador Program: Ken Jee**

Ken Jee: HP Z Global Ambassador uses Z by HP to amplify data science work, learning, and content creation efforts.

### **Z by HP Ambassador Program: Yuanhao Wu**

Yuanhao Wu: HP Z Global Ambassador is inspired by Z by HP to contribute to a medical research program and explore the potential of AI.

### **Z by HP Success Story: Araya**

English translation of HP case study (original in Japanese language) that describes how Araya eases the process of deploying visual inspection through artificial intelligence, using the HP Z4 G4 Workstation.

### **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 white paper (12)

### **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.

## **Bentley**

Application white paper(s) that leverage HP Z Workstation Finder tool recommendations. There are several applications for each ISV and these recommendations provide detail configuration recommendation for specific work flows / personas.

### **HP Z4 G4 Workstation Whitepaper**

The HP Z4 G4 Workstation features a perfect mix of HP Z DNA in a performance workstation package with up to 18 discrete processor cores, up to 256 GB of RAM, and multiple storage and PCIe configuration options.

### **HP ZCentral NAS Workstation Solution**

This paper is meant to outline how Z Desktop Workstations can be, and are in many cases well suited to be, Network Attached Storage (NAS) devices.

### **HP ZCentral Overview Planning Guide**

This paper will share the pain points of local workstation compute, how they are relieved with HP ZCentral centralized workstations, and the architectural considerations for a successful ZCentral deployment.

### **Installing Windows 7 on HP Z4 G4, HP Z6 G4, and HP Z8 G4 Workstations with Intel® Skylake Processors**

This whitepaper provides guidance with understanding how to install Windows 7 on HP performance workstations with Intel® Skylake processors.

### **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.

### **Linux Hardware Matrix for HP Workstations**

The HP Workstation Linux Hardware Matrix provides per-platform advisory information about the functionality of HP Workstation desktops, mobile workstations and the hardware components applicable to them, under several enterprise Linux distributions such as Red Hat Enterprise Linux(RHEL), SUSE Linux Enterprise Desktop(SLED), and Ubuntu LTS.

### **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 - Product (14)




**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)    1518x 3575 (png)




**Center facing**

100x 70 (jpg)    170x 190 (jpg)  
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**Left facing**

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**Left facing**

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**Right facing**

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**Right facing**

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Close up of ports

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Close up of ports

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Close up of ports

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Close up of ports

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Hero

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Hero

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Rear facing

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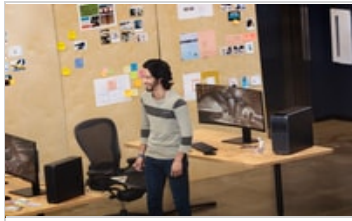


Rear facing

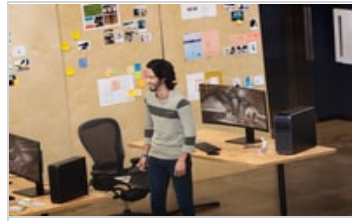
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800x 600 (png)    1500x 2709 (jpg)  
3183x 4185 (jpg)

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HP Z27 27-inch 4K UHD Display, HP Z38c 37.5-inch Curved Display, HP Z4 G4 Workstation, HP Z2 Small F



HP Z27 27-inch 4K UHD Display, HP Z38c 37.5-inch Curved Display, HP Z4 G4 Workstation, HP Z2 Small F



HP Z27 27-inch 4K UHD Display, HP Z4 G4 Workstation



HP Z27 27-inch 4K UHD Display, HP Z4 G4 Workstation



HP Z4 G4 Desktop Workstation, HP DreamColor Z27x G2 Studio Display



HP Z4 G4 Desktop Workstation, HP DreamColor Z27x G2 Studio Display



HP Z4 G4 Desktop Workstation, HP Z27 27-inch 4K UHD Display



HP Z4 G4 Desktop Workstation, HP Z27 27-inch 4K UHD Display



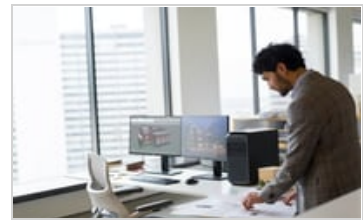
HP Z4 G4 Desktop Workstation, HP Z27 27-inch 4K UHD Display



HP Z4 G4 Desktop Workstation, HP Z27 27-inch 4K UHD Display



HP Z4 G4 Desktop Workstation, HP Z27 27-inch 4K UHD Display



HP Z4 G4 Desktop Workstation, HP Z27 27-inch 4K UHD Display



HP Z4 G4 Desktop Workstation, HP Z27 27-inch 4K UHD Display



HP Z4 G4 Desktop Workstation, HP Z27 27-inch 4K UHD Display

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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

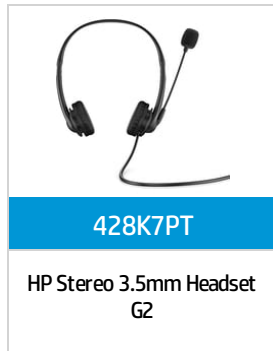
Viral Videos powered by HP Z Workstations

Why HP Workstations

## Accessories

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### HP Top Recommended Accessories



### Audio/Multimedia and Communication Devices

HP Recommends

Active	Best	HP Stereo 3.5mm Headset G2	428K7PT
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Headsets

Active	HP Stereo 3.5mm Headset G2	428K7PT
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### Cables/Cable Kits/Cable Adapters

Audio and Video Cables

Active	HP DisplayPort to DVI-D Adapter	FH973AA
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

PC Cable Options

Active	HP 2.5-in to 3.5-in HDD Adapter Kit	J5T63AA
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Port Cables and Cable Adapters

Active	HP Internal USB Port Kit	EM165AA
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### Chassis and Chassis Accessories

Brackets/Bezels/Panels

Active	HP 2.5in HDD/SSD 2-in-1 Optical Bay Bracket	K4T74AA
Active	HP Optical Bay HDD Mounting Bracket	NQ099AA
Active	HP Z4 G4 Dust Filter	3DY47AA
Active	HP Z4 G4 Dust Filter and Bezel	3DY48AA
Active	HP Z4 G4 Fan and Front Card Guide Kit	1XM33AA
Active	HP Z4 G4 Memory Cooling Solution	1XM34AA

### Expansion Solution and Controller Cards

## Port Adapters

Active	HP USB to Serial Port Adapter	J7B60AA
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## RAID Controller Cards

Active	MicroSemi 2100-4i4e SAS RAID Controller	1FV90AA
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## Graphics Cards

### Graphics Cards

Active	AMD Radeon Pro W5500 8GB 4DP GFX	9GC16AA
Active	AMD Radeon Pro W5700 8GB 5mDP+USBc GFX	9GC15AA
Active	AMD Radeon Pro W6800 32GB GDDR6 6mDP Graphics	340K7AA
Active	NVIDIA Quadro GV100 32GB Graphics Card	3ME26AA
Active	NVIDIA Quadro RTX 4000 8GB (3)DP+USBc	5JV89AA
Active	NVIDIA Quadro RTX 5000	5JH81AA
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
Active	NVIDIA RTX A6000 48 GB 4DP Graphics	2S6U3AA
Active	NVIDIA T400 2 GB GDDR6 LP Blower Fan 3mDP PCIe x16 Graphics	340K8AA

### Graphics Connectors/Adapters

Active	HP 6pin to 8pin Power Supply Adapter	N1G35AA
Active	HP NVIDIA GV100 NVLINK Bridge Kit (Pair)	3NZ66AA
Active	HP NVIDIA SLI 2-Slot Graphics Connector	2YY84AA
Active	NVIDIA NVLink 2-Slot Bridge	340L2AA

## Heat Sinks

### Heat Sinks

Active	HP Z4 G4 Memory Cooler Xeon W-21/W-22 & CoreX	8TC68AA
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## Keyboards/Mice and Input Devices

### Keyboards

Active	HP Wireless Premium Keyboard	Z9N41AA
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### Mice

Active	HP Wired Desktop 320M Mouse	9VA80AA
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## Memory

### DDR4 Memory

Active	16GB (1x16GB) DDR4-2666 ECC Reg RAM	1XD85AA
Active	32GB (1x32GB) DDR4-2666 (1x32GB) ECC Reg RAM	1XD86AA
Active	HP 8GB (1x8GB) DDR4-2666 ECC Reg RAM	1XD84AA
Active	HP 8GB (1x8GB) DDR4-2933 ECC RegRAM	5YZ56AA
Active	HP 16GB (1x16GB) DDR4 2933 UDIMM NECC Memory	7ZZ65AA
Active	HP 16GB (1x16GB) DDR4-2933 ECC RegRAM	5YZ54AA
Active	HP 32GB (1x32GB) DDR4 2933 UDIMM NECC Memory	7ZZ66AA



Active	HP 32GB (1x32GB) DDR4-2933 ECC RegRAM	5YZ55AA
Active	HP 64GB (1x64GB) DDR4-2933 ECC RegRAM	5YZ57AA

## Network Adapters

### Adapter Cards

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

## PC Accelerators

### PC IO Accelerators

Active	HP Thunderbolt 3 PCIe 2-port I/O Card	3UU05AA
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## PC Controller/Controller Options

### PC Processor Cards

Active	Aquantia NBASE-T 5GbE PCIe NIC	1PM63AA
Active	Intel Ethernet I210-T1 GbE NIC	E0X95AA
Active	Intel Ethernet I350-T2 2-Port 1Gb NIC	V4A91AA
Active	Intel Ethernet I350-T4 4-Port 1Gb NIC	W8X25AA

## PC Drives and Storage

### Blu-ray Drives

Active	HP 9.5mm Slim BDXL Blu-Ray Writer Drive	K3R65AA
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### PC DVD+RW Drives

Active	HP 9.5mm Slim SuperMulti DVD Writer Drive	K3R64AA
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### PC DVD-ROM Drives

Active	HP 9.5mm Slim DVD-ROM Optical Drive	K3R63AA
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### PC SAS Hard Drives

Active	HP 300GB SAS 15K SFF Hard Drive	L5B74AA
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### PC SATA Hard Drives

Active	2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
Active	8TB 7200RPM SATA 3.5in Enterprise	2Z273AA
Active	HP 1TB Enterprise SATA 7200 HDD	W0R10AA
Active	HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AA
Active	HP 2TB SATA 6Gb/s 7200 Hard Drive	QB576AA
Active	HP 4TB SATA 7200 Hard Drive	K4T76AA
Active	HP 6TB Enterprise SATA 7200 HDD	3DH90AA
Active	HP 500GB SATA 6Gb/s 7200 Hard Drive	LQ036AA

### PC Solid State Drives

Active	960 GB 2.5 in Enterprise SATA3 SSD	1W6P8AA
Active	HP 1TB M.2 2280 PCIe TLC SSD Z2/4/6 Kit	8PE70AA
Active	HP 2TB PCIe NVME TLC M.2 Z4/Z6 G4 SSD	35F74AA
Active	HP 256GB M.2 2280 PCIe TLC SSD Z2/4/6 Kit	8PE68AA
Active	HP 512GB M.2 2280 PCIe TLC SSD Module	8PE63AA

Active	HP 512GB M.2 2280 PCIe TLC SSD Z2/4/6 Kit	8PE69AA
Active	HP Enterprise Class 240GB SATA SSD	T3U07AA
Active	HP Enterprise Class 480GB SATA SSD	T3U08AA
Active	HP Z Turbo Drive 1TB TLC (Z4/Z6 G4) SSD Kit	1PD61AA
Active	HP Z Turbo Drive 2TB TLC Z4/6 SSD Kit	3KP39AA
Active	HP Z Turbo Drive 2TB TLC Z8 G4 SSD Kit	2Y7W6AA
Active	HP Z Turbo Drive 512GB SED (Z4/6 G4) TLC SSD Kit	4YZ44AA
Active	HP Z Turbo Drive 512GB TLC (Z4/Z6 G4) SSD Kit	1PD60AA
Active	HP Z Turbo Drive Dual Pro 2TB SSD	4YF63AA
Active	HP Z Turbo Drive Dual Pro 512GB SSD	4YF61AA
Active	HP Z Turbo Drive Quad Pro 2TB SSD Module	3KP43AA
Active	HP Z Turbo Drive Quad Pro 2x2TB PCIe SSD	3KP42AA
Active	HP Z Turbo Drive Quad Pro 256GB TLC SSD Module	4YZ35AA
Active	Intel VROC NVMe SSD Premium Ctlr Module	3FJ81AA
Active	Intel VROC NVMe SSD Standard Ctlr Module	3FJ80AA

#### Personal Media Storage

Active	HP SD 4 Card Reader Zx G4	2VK54AA
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#### Removable Hard Drive Enclosure

Active	HP 4-in-1 SFF (2.5in) HDD Carrier	B8K60AA
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## PC Networking Adapters

#### PC Fast Ethernet Adapters

Active	Allied Telesis AT-2914SX/LC-901 1GB LC Fiber NIC	1C7Q2AA
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#### PC Wireless Adapters

Active	Intel 8265 802.11 a/b/g/n/ac&BT PCIe	1QL48AA
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## Point of Sales System Options

#### POS Display Accessories

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

#### Mounting Kits

Active	NVIDIA 3D Stereo Bracket	K0A25AA
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#### Rack Kits

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

#### PC Locks

Active	HP Keyed Cable Lock 10 mm	T1A62AA
Active	HP Master Keyed Cable Lock 10mm	T1A63AA

## Industries

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### Architecture/Engineering and Construction

Architecture/Engineering and Construction

[Active](#) [Architecture/Engineering and Construction Overview](#)

### Communications/Media and Entertainment

Communications/Media and Entertainment

[Active](#) [Communications/Media and Entertainment Overview](#)

### Education

Education

[Active](#) [Higher Education](#)

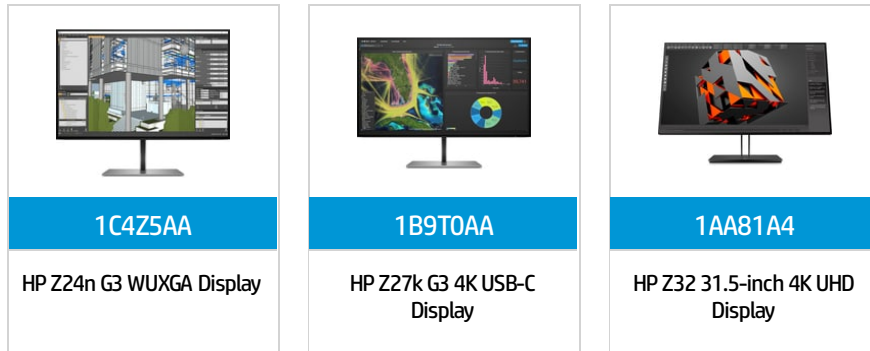
### Healthcare

Healthcare

[Active](#) [Healthcare Overview](#)

# Monitors

## HP Top Recommended Monitors



## Business Monitors

### HP Recommends

Active	Best	HP Z24n G3 WUXGA Display	1C4Z5AA
Active	Better	HP Z27k G3 4K USB-C Display	1B9T0AA
Active	Good	HP Z32 31.5-inch 4K UHD Display	1AA81A4

### 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 E22 G4 FHD Monitor	9VH72AA
Active	HP E23 G4 FHD Monitor	9VF96AA
Active	HP E24 G4 FHD Monitor	9VF99AA
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 E24 G4 FHD No Stand(Bulk2) Monitor	3R473AA
Active	HP E27 G4 FHD Monitor	9VG71AA
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 P22 G4 22 FHD Monitor	1A7E4AA
Active	HP P22h G4 FHD Monitor	7UZ36A7
Active	HP P22h G4 FHD Monitor	7UZ36AA
Active	HP P24 G4 24 FHD Monitor	1A7E5AA

Active	HP P24h G4 FHD Monitor	7VH44AA
Active	HP P27h G4 FHD Monitor	7VH95AA
Z Displays		
Active	HP DreamColor Z31x Studio Display	Z4Y82A4
Active	HP Z24f G3 FHD Display	3G828AA
Active	HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
Active	HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
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 Z38c 37.5-inch Curved Display	Z4W65A4
Active	HP Z43 42.5-inch 4K UHD Display	1AA85A4
Active	HP Z24n G3 WUXGA Display	1C4Z5AA
Active	HP Z27k G3 4K USB-C Display	1B9T0AA
Active	HP Z32 31.5-inch 4K UHD Display	1AA81A4

## 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

# Solutions

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## Virtual Reality Solutions

Virtual Reality Solutions

**Active** Virtual Reality Solutions Overview

## Workstation Solutions

Workstation Solutions

**Active** Data Science Workstation Solution



## Detailed Specifications

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### Accessories

NVIDIA® Quadro® P5000 Z0B13AT, AMD Radeon™ Pro WX 7100 Z0B14AT, HP Z Turbo Drive Quad Pro 2x512 GB N2M99AA, HP Z27n 27-inch Narrow Bezel IPS Display: K7C09A8, HP 5 year Next Business Day Onsite with Defective Media Retention U1G57E

### Additional information on the product category

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

### Additional storage

HP SD 4 Media Card Reader (optional)

### Audio

Realtek HD ALC221

### Chipset

Intel® C422; Intel® X299

### Chipset footnote number

[26,27]

### Code name

PikeWKS

### Compatible displays

All HP Z Displays and HP DreamColor Displays are supported.

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### Datasheet photo 1

AHID/dd32a90e45ba3467153d19c03cc135a4f0c36f94

### Datasheet photo 2

Publication photos/pc-carepack.jpg

### Datasheet photo 3

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### Datasheet photo 4

AHID/04d2a12e906dd21320f2dc14264f94004d780848

### Datasheet photo 5

AHID/11209ae303564aae52186948389a699b1ff31caa

### Datasheet publication number

4AA7-1580EEAP

### Drive bays footnote number

[16]

### ECC memory

ECC

### Expansion slots

1 PCIe 3 x16; 2 M.2 PCIe 3 x4

### External drive bays

Two 5.25"

### Graphic card footnote number

[19]

### Graphics

Discrete

### Graphics (discrete)

NVIDIA® GeForce RTX™ 2080Ti (11 GB GDDR6 dedicated)

### Graphics card brand

NVIDIA®

**Graphics card family**

GeForce

**Graphics card form factor**

PCIe x16

**Graphics card memory size**

11

**Graphics card memory size uom**

GB

**Graphics card memory type**

GDDR6

**Hard drive (2nd)**

##BLANK##

**Hard drive (3rd)**

##BLANK##

**I/O Port location**

Front (Premium version)

**I/O Port location**

Rear

**Image legal disclaimer**

Product image may differ from actual product

**Internal drive bays**

Two 2.5" or 3.5"

**Internal Storage**

4 TB 7200 rpm SATA HDD

**Keyboard**

HP USB Slim Business Keyboard

**Keyboard interface**

USB

**Legal tagline**

HP recommends Windows 11 Pro for business

**Manufacturer Warranty**

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

**Memory**

64 GB DDR4-2933 MHz RAM (4 x 16 GB)

**Memory and storage**

Two 4 TB HDD storage; 64 GB memory

**Memory layout (slots & size)**

4 x 16 GB

**Memory module type**

DIMM

**Memory size**

64

**Memory size uom**

GB

**Memory Slots**

8 DIMM

**Memory speed**

2933

**Memory speed uom**

MHz

**Memory type**

DDR4

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

15.2 x 6.65 x 17.5 in

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

38.6 x 16.9 x 44.5 cm

**Model Number**

RTX™ 2080 Ti

**Network interface**

Integrated Intel® I219-LM PCIe® GbE

**Network interface type**

LAN

**Number of memory slots**

4

**Number of processors**

1

**Operating system**

Linux® Ready

**Optical drive**

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 USB optical mouse

**Ports**

1 audio-in; 1 audio-out; 1 PS/2 keyboard port; 1 PS/2 mouse port; 1 serial; 2 RJ-45 (1 GbE); 6 USB 3.1 Gen 1

**Ports**

1 headset connector; 4 USB 3.1 (1 charging)

**Ports note**

The Intel® Core™ X-Series processor configurations only have one RJ45 port and 5 Rear USB 3.1 Gen 1 ports available. The serial port is optional.

**Power**

1000 W internal power supply, up to 90% efficiency, active PFC

**Power supply required footnote number**

[22]

**Processor**

Intel® Xeon® W2135 (3.7 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 6 cores)

**Processor base frequency**

3.7

**Processor Brand**

Intel®

**Processor cache**

8.25 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**

4.5

**Processor maximum frequency uom**

GHz

**Processor model**

2135

**Processor name footnote number**

[6,7]

**Processor note**

Configurations with the Intel® Core™ X processors support only a subset of the full features of the Z4 G4 system, including, but not limited to: memory type and maximum memory, PCIe slot configurations, M.2 storage capacity, GbE interface and manageability features. Please refer to the product QuickSpecs for complete details.

**Processor threads**

12

**Product long name specifications**

HP Z4 G4 Workstation with Linux® Ready; Intel® Xeon® W2135 (3.7 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 6 cores); 64 GB DDR4-2933 SDRAM (4 x 16 GB); 4 TB 7200 rpm SATA, 4 TB 7200 rpm SATA

**Quickspec**

<http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05527757>

**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**

Full volume encryption; HP Keyed Cable Lock Kit; HP Secure Erase; HP Sure Start Gen3; Kensington lock slot; Secure authentication; TPM 2.0 certified; HP Device Access Manager; HP Sure Click; HP BIOSphere Gen3; HP Client Security Manager Gen3; HP MIK/SCCM Gen2; Self Encrypting Drive (SED)

**Security management footnote number**

[7,14,15,17,18,28]

**Software**

HP ZCentral Remote Boost 2020

**Software footnote number**

[13,31]

**Software included**

HP ProtectTools Security; ZCentral Remote Boost

**Standard memory note**

Transfer rates up to 2933 MT/s.

**Storage capacity**

4

**Storage capacity 02**

4

**Storage capacity uom 01**

TB

**Storage capacity uom 02**

TB

**Storage controller**

Integrated SATA 6.0 Gb/s supporting RAID 0, 1, 5, 10; Optional SAS controller supporting RAID, 0, 1, 10 for SAS drives

**Storage interface 01**

SATA

**Storage interface 02**

SATA

**Storage speed 01**

7200

**Storage speed 02**

7200

**Storage speed uom 01**

rpm

**Storage speed uom 02**

rpm

**Storage type**

HDD

**Storage type 01**

HDD

**Storage type 02**

HDD

**Sustainable impact specifications**

Low halogen

**Sustainable impact specifications footnote number**

[12]

**Tech spec footnote**

[10] Optional or add-on feature.

**Tech spec footnote**

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

**Tech spec footnote**

[12] External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen. (Note: optional low-halogen power cables are available for some countries in Europe)

**Tech spec footnote**

[13] 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**

[14] HP BIOSphere G3 requires Intel® 7th generation processors.

**Tech spec footnote**

[15] HP Secure Erase: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.

**Tech spec footnote**

[16] Each bay is configurable to 2.5" or 3.5".

**Tech spec footnote**

[17] HP MIK/SCCM - HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.

**Tech spec footnote**

[18] HP Keyed Cable Lock Kit is available only as an aftermarket option.

**Tech spec footnote**

[19] NVIDIA® Quadro® SYNC II sold separately

**Tech spec footnote**

[20] I210-AT, I219-V are available in Intel® Xeon® configurations only.

**Tech spec footnote**

[21] In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.

**Tech spec footnote**

[22] 465W and 750W power supply options are only available for Intel® Xeon® configurations.

**Tech spec footnote**

[23] Supported only on Intel® Xeon® configurations: Not supported with Intel® Core X™ processor configurations.

**Tech spec footnote**

[24] Available on Intel® Xeon® W processor configurations only.

**Tech spec footnote**

[25] Available on Intel® Core™ i7X-Series processor configurations only.

**Tech spec footnote**

[26] Choice of Intel Core X processor family will affect other configuration choices and system feature set availability; refer to the product Quickspecs for details.

**Tech spec footnote**

[27] Intel® C422 for Intel® Xeon® configurations, Intel® X299 for Intel® Core™ X configurations.

**Tech spec footnote**

[28] HP Sure Click is available on most HP PCs 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**

[29] Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See [www.intel.com/technology/turboboost](http://www.intel.com/technology/turboboost) for more information.

**Tech spec footnote**

[3] Some Intel® vPro™ functionality of this technology, such as Intel® Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Microsoft Windows required. Intel vPro is supported only with Intel® Xeon™ configurations.

**Tech spec footnote**

[30] Your product does not support Windows 8 or Windows 7. In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel® and AMD 7th generation and forward processors or provide any Windows® 8 or Windows 7 drivers on <http://www.support.hp.com>

**Tech spec footnote**

[31] HP Performance Advisor – Internet access required.

**Tech spec footnote**

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

**Tech spec footnote**

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

**Tech spec footnote**

[34] 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**

[35] 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**

[36] Front entry contain: 1 headset connector; 4 USB 3.1 (1 charging).

**Tech spec footnote**

[4] For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.

**Tech spec footnote**

[5] 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. No support for DVD RAM.

**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 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] For systems installed with Microsoft Windows 7 (Ultimate, Enterprise or Professional), the maximum accessible system memory is 192 GB. Windows 7 is not supported on the Intel® Core XTM - Series processor configurations. Windows 7 is not supported on the Intel® Core XTM - Series processor configurations. For systems installed with Microsoft Windows 8.x (Enterprise or Pro), the maximum accessible system memory is 512 GB.

**Tech spec footnote**

[9] Wireless access point and Internet access required. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ

from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.

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**UNSPSC code**

43211515

**UPC number**

194850762161

**Weight**

Starting at 10.2 kg

**Weight**

Starting at 22.4 lb

**Weight note (metric)**

Exact weight depends on configuration.

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