

#### **Overview**

#### Small size. Endless options.



Get high-end performance in a compact device. Designed to pack more graphics and processing power into less space, you can easily take on 2D and 3D CAD projects. And with near endless configuration options, it's the ideal hardware option for custom solutions.[1]

# Performance that defies space constraints.

Seamlessly render, design and run multiple apps with professional graphics and an Intel<sup>®</sup> processor. Designed for unthrottled performance, you can render and visualize projects faster.

# Industry-leading security. Durability you can trust.

Backed by 360K hours of rigorous testing, military-standard testing,[3] and software certifications, every component is put to the test. And with hardened security features, your Z2 SFF is protected from the BIOS to the browser, above and below the OS.

#### Highly customizable to fit your needs.

Build a system matched exactly to your needs with over a million possible configurations. And with customizable I/O ports, you can support new and legacy technologies, dynamic displays and even a second LAN—without messy dongles or adapters.

#### Access your Z2 SFF from anywhere.

Tap into the power of your Z2 SFF from anywhere and on almost any device with HP ZCentral Remote Boost.[4] Get fast responsiveness and exceptional image quality on demanding projects. Seamlessly collaborate with dispersed teams, even on 3D models.

#### **Features**

#### Windows 10 Pro 64

Work without compromising on performance or security with Windows 10 Pro, powered by HP's collaboration and connectivity technology.

#### Intel<sup>®</sup> Core<sup>™</sup> i7 processor

Run several CPU–heavy programs simultaneously without sacrificing performance with an Intel<sup>®</sup> Core<sup>™</sup> i7 processor.<sup>[2]</sup>

#### **Smaller, Functional Design**

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

[1] Based on HP's internal analysis of non-gaming small form factor desktop workstations with a minimum 3 ISV certs, configurable professional graphics, and a dedicated workstation brand as of April 2021. Power based on processor, graphics, memory, and power supply.

[3] 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.

[4] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without an additional license purchase. When you purchase a Z device, you get an embedded license. With non-Z sender devices, it is a perpetual or floating license. ZCentral Remote Boost requires a Windows (10 or 7 SP2), RHEL (6, 7 or 8), UBUNTU 18.04 LTS, or HP ThinPro operating system. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

[2] 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

Form factor	Small form factor
Operating system	Windows 10 Pro 64
Processor family	11th Generation Intel <sup>®</sup> Core™ i7 processor
Processor	Intel® Core™ i7-11700 (2.5 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores) <sup>[6,7]</sup>
Memory	16 GB DDR4-3200 MHz RAM (1 x 16 GB)
Memory Slots	4 DIMM
Internal Storage	512 GB PCIe <sup>®</sup> NVMe™ M.2 SSD
Internal drive bays	Two M.2 NVME 2280 SSD; One 2.5" HDD; One 3.5" HDD
External drive bays	One 3.5" HDD; One slim ODD
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 750
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays
Audio features	Realtek ALC3205-VA2-CG, 2.0W internal mono speaker
Minimum dimensions (W x D x H)	33.8 x 30.8 x 10 cm (Standard desktop orientation.)
Minimum dimensions (W x D x H)	13.3 x 12.1 x 3.95 in (Standard desktop orientation.)
Weight	Starting at 5.4 kg (Exact weight depends on configuration.)
Weight	Starting at 11.9 lb (Exact weight depends on configuration.)
Keyboard	HP USB wired keyboard
Pointing device	HP Wired 320M Mouse
Ports	2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 universal audio jack; 2 SuperSpeed Type-A USB 5Gbps signaling rate (1 charging); 1 Type-C SuperSpeed® USB 20Gbps signaling rate (1 charging)
Expansion slots	1 PCIe 3 x4 (x16 connector); 1 PCIe 3 x4 (x4 connector); 1 M.2 2230 PCIe 3 x1; 1 PCIe 4 x16; 1 M.2 2280 PCIe 4 x4; 1 M.2 2280 PCIe 3 x4; 1 PCIe 3 x1 (x1 connector) (1 M.2 2230 slot for WLAN and 2 M.2 2280 slots for storage)
Ports	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
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) <sup>[18]</sup>

Sustainable impact specifications	Ocean-bound plastic in speaker enclosure; 45% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; 80 Plus® Gold power supplies available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable
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 <sup>[19,20,21,22,23,24,25,26]</sup>
Software included	HP PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Desktop Support Utilities; HP Image Assistant; HP Notifications; My HP; HP QuickDrop <sup>[15,16,17]</sup>

# Additional specifications

ECC memory	non-ECC
Graphic card footnote number	[32]
I/O Port location	Rear
I/O Port location	Front
Legal tagline	HP recommends Windows 10 Pro for business
MDA key selling point	Windows 10 Pro or other operating systems available
Memory and storage	16 GB memory; 512 GB SSD storage
Memory layout (slots & size)	1 x 16 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	3200
Memory speed uom	MHz
Memory type	DDR4
Number of memory slots	1
Processor Brand	Intel®
Processor base frequency	2.5
Processor base frequency uom	GHz
Processor cache	16 MB L3
Processor core	8
Processor family	Core™i7
Processor frequency technology	Intel <sup>®</sup> Turbo Boost Technology
Processor generation	11th Generation
Processor maximum frequency	4.9
Processor maximum frequency uom	GHz
Processor model	11700
Processor threads	16
Standard memory note	Transfer rates up to 3200 MT/s.
Storage capacity 01	512
Storage capacity uom 01	GB
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 protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD

[6] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

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

[15] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7operating systems. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

[16] HP Performance Advisor Software - HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: https://www8.hp.com/us/en/workstations/performance-advisor.html

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

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

[19] HP Client Security Manager Gen7requires Windows and is available on the select HP PCs.

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

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

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

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

[24] HP Sure Recover Gen4 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

[25] Secure Erase - For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane.

[26] HP Sure Sense requires Windows 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.

#### Accessories

## Memory

#### **DDR4 Memory**

8GB (1x8GB) 3200 DDR4 ECC UDIMM

## PC Drives and Storage

#### **PC SATA Hard Drives**

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

#### **PC Solid State Drives**

HP ZTurbo 1TB PCIe-Gen 4x4 TLC Z2 SSDKit	201F5AA ★
HP ZTurbo 2TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A4AA ★
HP Z Turbo Drive 2TB TLC Z8 G4 SSD Kit	201F8AA
HP ZTurbo 1TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A3AA
HP ZTurbo 1TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A3AT
HP ZTurbo 1TB PCIe-Gen 4x4 TLC Z2 SSDKit	201F5AT
HP ZTurbo 256GB PCIe-Gen 4x4 SED Z2 SSDKit	201F6AA
HP ZTurbo 256GB PCIe-Gen 4x4 TLC Z2 SSDKit	201F7AA
HP ZTurbo 256GB PCIe-Gen 4x4 TLC Z2 SSDKit	201F7AT
HP ZTurbo 2TB 2280 PCIe-Gen4x4 Self Encrypted OPAL2 TLC M.2 Z2 SSD	223A4AT
HP ZTurbo 512GB PCIe-Gen 4x4 SED Z2 SSDKit	201F9AA
HP ZTurbo 512GB PCIe-Gen 4x4 TLC Z2 SSDKit	201G0AA
HP ZTurbo 512GB PCIe-Gen 4x4 TLC Z2 SSDKit	201G0AT

#### **Removable Hard Drive Enclosure**

 $\star$  : Recommended

141J3AA ★

HP DP25 Removable 2.5in HDD Frame Carrier	W3J84AA
HP DP25 Removable 2.5in HDD Spare Carrier	W3J85AA
Personal Media Storage	
HP SD card reader Z2 G5 SFF	16U37AA
Cables/Cable Kits/Cable Adapters Audio and Video Cables	
•	2JA63AA ★
Audio and Video Cables	<b>2JA63AA ★</b> AS615AA
Audio and Video Cables HP DisplayPort to HDMI True 4K Adapter	

# HP DisplayPort to DVI-D Adapter Cable Adapters

HP DisplayPort to DVI-D Adapter

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

#### **Data Transfer Cables**

Intel 10GbE SFP+ SR Tranceiver

#### C3N53AA

FH973AA

FH973AT

## Keyboards/Mice and Input Devices

#### Keyboards

HP Wireless Premium Keyboard	Z9N41AA ★
HP USB Premium Keyboard	Z9N40AA ★
HP PS/2 Slim Business Keyboard	N3R86AA ★
HP PS/2 Slim Business Keyboard	N3R86AT
HP USB Premium Keyboard	Z9N40AT
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320K Keyboard	9SR37ET
HP Wired Desktop 320K Keyboard	9SR37UT
HP Wireless Premium Keyboard	Z9N41AT

#### Mice

HP Wireless Premium Mouse

HP USB Premium Mouse	1JR32AA ★
HP Wired Desktop 320M Mouse	9VA80AA ★
HP 930 Creator Wireless Mouse	1D0K8UT
HP 935 Creator Wireless Mouse	1D0K8AA
HP PS/2 Mouse	QY775AA
HP USB Premium Mouse	1JR32UT
HP Wired Desktop 320M Mouse	9VA80ET
HP Wired Desktop 320M Mouse	9VA80UT
HP Wireless Premium Mouse	1JR31UT

#### **Keyboard and Mouse Kits**

HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36ET
HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT

## **Graphics Cards**

#### **Graphics Cards**

NVIDIA Quadro P400 2GB Graphics	1ME43AA ★
AMD Radeon Pro WX 3200 4GB (4)mDP GFX	6YT68AA ★
AMD Radeon Pro WX 3200 4GB (4)mDP GFX	6YT68AT
NVIDIA Quadro P400 2GB Graphics	1ME43AT

# PC Controller/Controller Options

#### **PC Processor Cards**

Aquantia NBASE-T 5GbE PCIe NIC	1PM63AA
Intel Ethernet I350-T2 2-Port 1Gb NIC	V4A91AA
Intel Ethernet 1350-T4 4-Port 1Gb NIC	W8X25AA

# **Expansion Solution and Controller Cards**

#### **Port Adapters**

HP 1GbE LAN Flex Port 2020	141J6AA
HP DP Flex Port 2020	141J7AA
HP Dual USB-A 3.2 Gen1 Flex 2020	141J8AA
HP HDMI Flex Port 2020	141K1AA

HP PCIe x1 Parallel Port Card	N1M40AA
HP PCIe x1 Parallel Port Card	N1M40AT
HP USB-C 3.2 Gen2 Alt Flex Port 2020	141K6AA
HP VGA Flex Port 2020	141K7AA
HP Z2 G5 2nd serial port adapter	141K8AA
HP Z2 G5 Internal Serial and PS/2 Port	141K9AA

## **Chassis and Chassis Accessories**

#### Brackets/Bezels/Panels

HP Dust Filter Z2 G5 SFF	141L0AA
HP Dust Filter bezel Z2 G5 SFF	141L1AA

## **Point of Sales System Options**

#### **POS Display Accessories**

HP Engage One 10.1-inch Display	1XD80AA
HP Engage One 10.1-inch Touch Display	1XD81AA
HP Engage One W 10.1-inch Display	3FH66AA
HP Engage One W 10.1-inch Touch Display	3FH67AA
HP L5010ta	2KY27AA
HP L5015ta	2KY28AA
HP L5015tm 15-inch Retail Touch Monitor	M1F94AA
HP L7010t 10.1-inch Retail Touch Monitor	T6N30AA
HP L7014 14-inch Retail Monitor	T6N31AA
HP L7014t 14-inch Retail Touch Monitor	T6N32AA
HP L7016t 15.6-inch Retail Touch Monitor	V1X13AA

## **Batteries/Chargers/Adapters**

#### **Power Cords**

HP Z2 Power Cord Kit M

## **Network Adapters**

#### **Adapter Cards**

Intel X550 10GBASE-T Dual Port NIC

1N1D5AA

## Monitors

## **Business Monitors**

## Z Displays

HP DreamColor Z24x G2 Display	1JR59A4
HP DreamColor Z27x G2 Studio Display	2NJ08A4
HP DreamColor Z31x Studio Display	Z4Y82A4
HP Z22n G2 21.5-inch Display	1JS05A4
HP Z23n G2 23-inch Display	1JS06A4
HP Z24f G3 FHD Display	3G828AA
HP Z24i G2 24-inch Display	1JS08A4
HP Z24n G2 24-inch Display	1JS09A4
HP Z24n G3 WUXGA Display	1C4Z5AA
HP Z24nf G2 23.8-inch Display	1JS07A4
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
HP Z27 27-inch 4K UHD Display	2TB68A4
HP Z27k G3 4K USB-C Display	1B9T0AA
HP Z27n G2 27-inch Display	1JS10A4
HP Z27q G3 QHD Display	1C4Z7AA
HP Z27u G3 QHD Display	1B9X2AA
HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AA
HP Z32 31.5-inch 4K UHD Display	1AA81A4
HP Z38c 37.5-inch Curved Display	Z4W65A4
HP Z43 42.5-inch 4K UHD Display	1AA85A4

#### **E-Series**

HP E14 G4 Portable Monitor	1B065AA
HP E22 G4 FHD Monitor	9VH72AA
HP E23 G4 FHD Monitor	9VF96AA
HP E24 G4 FHD Monitor	9VF99AA
HP E24d G4 FHD Advanced Docking Monitor	6PA50AA
HP E24i G4 WUXGA Monitor	9VJ40AA
HP E24q G4 QHD Monitor	9VG12AA
HP E24t G4 FHD Touch Monitor	9VH85AA

★ : Recommended

HP E24u G4 FHD USB-C Monitor	189T0AA
HP E27 G4 FHD Monitor	9VG71AA
HP E27d G4 QHD Advanced Docking Monitor	6PA56AA
HP E27q G4 QHD Monitor	9VG82AA
HP E27u G4 QHD USB-C Monitor	189T3AA

## EliteDisplays

HP E344c 34-inch Curved Monitor	6GJ95AA	
HP EliteDisplay E190i 18.9-inch LED Backlit IPS Monitor	E4U30AA	
HP EliteDisplay E202 20-inch Monitor	M1F41AA	
HP EliteDisplay E223 21.5-inch Monitor	1FH45AA	
HP EliteDisplay E230t 23-inch Touch Monitor	W2Z50AA	
HP EliteDisplay E233 23-inch Monitor	1FH46AA	
HP EliteDisplay E233 23-inch Monitor	7MQ32AA	
HP EliteDisplay E233 23-inch Monitor Head Only	2PD30AA	
HP EliteDisplay E243 23.8-inch Monitor	1FH47AA	
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76AA	
HP EliteDisplay E243d 23.8-inch Docking Monitor	7MP20AA	
HP EliteDisplay E243i 24-inch Monitor	1FH49AA	
HP EliteDisplay E243i 24-inch Monitor	7MQ83AA	
HP EliteDisplay E243m 23.8-inch Monitor	1FH48AA	
HP EliteDisplay E243p 23.8-inch Sure View Monitor	5FT13AA	
HP EliteDisplay E273 27-inch Monitor	1FH50AA	
HP EliteDisplay E273 27-inch Monitor	7MQ84AA	obsolete
HP EliteDisplay E273d 27-inch Docking Monitor	5WN63AA	
HP EliteDisplay E273m 27-inch Monitor	1FH51AA	
HP EliteDisplay E273q 27-inch Monitor	1FH52AA	
HP EliteDisplay E273q 27-inch Monitor	7MQ85AA	
HP EliteDisplay E324q 31.5-inch QHD Monitor	5DP31AA	

## Healthcare Edition Displays

HP Healthcare Edition HC241 Clinical Review Monitor	3ME68AA
HP Healthcare Edition HC241p Clinical Review Monitor	3ME69AA

## ProDisplays

#### **Business LCD Monitors**

5RD64AA
5RD66AA
9TY83AA
9TY84AA
9TY24AA
9TY72AA
1A7E4AA
7UZ36AA
7UZ36AT
9TT53AA
1A7E5AA
7VH44AA
8MB10AA
9TT78AA
7VH95AA
8MB11AA
9TT20AA

#### **S-Series**

HP S430c 43.4-inch Curved Ultrawide Monitor

#### **Value Displays**

HP V194 18.5-inch Monitor	V5E94AA	
HP V19b Monitor	2XM32AA	
HP V214b 20.7-inch Monitor	3FU54AA	obsolete
HP V22b Monitor	2XM33AA	
HP V24b Monitor	2XM34AA	

5FW74AA

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