



HP Z2 Small Form Factor G5 Workstation (523X7EA)

Overview

HP's most powerful small form factor, reimagined.



Get high-end performance in a compact device. Completely redesigned to pack more graphics and processing into less space, you can easily take on complex 3D design projects. And with near endless configuration options, it's the ideal hardware when you need a custom solution.

Performance that defies space constraints.

Get high-end professional graphics and an Intel® processor in a small form factor. Re-engineered from the ground up, you get full, unthrottled performance for real-time rendering and faster visualizations.

Make it your own with our most customizable small form factor.

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.

We test it so you can trust it. 24/7.

We know you need performance you can rely on. That's why our products endure over 360K hours of rigorous testing, MIL-STD testing[3] and software certifications.

HP's most secure workstation.

Advanced security features come standard on every Z2 Small Form Factor. System safeguards like the industry's first self-healing BIOS help lock your device, data and identity down tight.

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® Core™ i5 processor

Experience powerful performance and seamless computing for your everyday tasks and higher performance needs with the Intel® Core™ i5 processor.^[1]

Smaller, Functional Design

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

[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.

[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.

Specifications

Form factor	Small form factor
Operating system	Windows 10 Pro 64
Processor family	10th Generation Intel® Core™ i5 processor
Processor	Intel® Core™ i5-10500 (3.1 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) ^[6,7]
Number of processors	1
Chipset	Intel® W480
Memory	8 GB DDR4-3200 MHz RAM (1 x 8 GB)
Memory Slots	4 DIMM
Internal Storage	256 GB PCIe® NVMe™ TLC M.2 SSD
Internal drive bays	One 2.5"; One 3.5"; Two M.2 NVME 2280 SSD
External drive bays	One 3.5" HDD
Optical drive	9.5 mm Slim DVD-Writer
Graphics	Integrated
Graphics (integrated)	Intel® HD Graphics 630
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported.
Audio	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.)
Weight	Starting at 5.4 kg (Exact weight depends on configuration.)
Keyboard	HP Wired Desktop 320K keyboard
Pointing device	HP Wired 320M Mouse
Ports	1 headphone/microphone combo; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 SuperSpeed USB Type-C® 10Gbps signaling rate
Expansion slots	1 PCIe 3 x4 (x16 connector); 2 PCIe 3 x1 (x1 connector); 1 PCIe 3 x16 (x16 connector); 1 M.2 2230 PCIe 3 x1; 2 M.2 2280 PCIe 3 x4 (1 M.2 2230 slot for WLAN and 2 M.2 2280 slots for storage)
Ports	1 audio-out; 1 RJ-45; 2 USB 2.0; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 2 SuperSpeed USB Type-A 10Gbps signaling rate
Ports	1 Media Card Reader
Sustainable impact specifications	Low halogen

Security management

HP Business PC Security Lock Kit; HP Keyed Cable Lock Kit; HP Solenoid Hood Lock and Sensor; HP UltraSlim Cable Lock Kit; HP Secure Erase; HP Sure Click; HP Sure Sense; HP Sure Start Gen6; HP Sure Run Gen3; HP Sure Recover Gen3; HP BIOSphere Gen6; HP Sure Admin; HP Client Security Manager Gen6^[15,20,21,22,24,25,26,27,28,34,35,36]

Software included

HP PC Hardware Diagnostics UEFI; HP Performance Advisor; HP Support Assistant; HP PC Hardware Diagnostics Windows; ZCentral Remote Boost; HP Image Assistant; HP Manageability Integration Kit^[11,12,16,23]

UPC number

(A2N) 196337598638; (AB6) 196337598645; (AB8) 196337598652; (AB9) 196337598669; (ABB) 196337598676; (ABD) 196337598683; (ABE) 196337598690; (ABF) 196337598706; (ABH) 196337598713; (ABN) 196337598720; (ABT) 196337598737; (ABU) 196337598744; (ABV) 196337598751; (ABY) 196337598768; (ABZ) 196337598775; (ACB) 196337598782; (ACQ) 196337598799; (AK8) 196337598805; (AKC) 196337598812; (AKD) 196337598829; (BCM) 196337598836; (UUG) 196337598850; (UUW) 196337598867; (UUZ) 196337598874

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.

Additional specifications

Additional information on the product category	For the latest information, please visit our Web site at http://www.hp.com/workstations
Datasheet photo 1	AHID/489cb676fdf008169a811de93c48913f172a9531
Datasheet photo 2	Publication logos/HP_Care_Pack_RGB_blue_NT.jpg
Datasheet photo 3	AHID/153c9f7f58c1ce771738d22364ff1573c20be7f2
Datasheet photo 4	AHID/4863e8a6f450dacbc0b843818e605a0d9fa0d00d
Datasheet photo 5	AHID/54303a8de46284584bc4bf278c35a5a866d06635
ECC memory	non-ECC
Graphic card footnote number	[32]
I/O Port location	Internal
I/O Port location	Rear
I/O Port location	Front
Keyboard connectivity	wired
Legal tagline	HP recommends Windows 10 Pro
Memory and storage	8 GB memory; 256 GB SSD storage
Memory layout (slots & size)	1 x 8 GB
Memory module type	UDIMM
Memory size	8
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	3.1
Processor base frequency uom	GHz
Processor cache	12 MB L3
Processor core	6
Processor family	Core™ i5
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	10th Generation
Processor maximum frequency	4.5
Processor maximum frequency uom	GHz

Processor model	10500
Processor threads	12
Product long name specifications	HP Z2 Small Form Factor G5 Workstation, Windows 10 Pro 64, Intel® Core™ i5, 8GB RAM, 256GB SSD
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
Standard memory note	Transfer rates up to 3200 MT/s.
Storage capacity 01	256
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 memory technology 01	TLC
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211515

[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.

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

[12] 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 7 operating systems. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost

[15] HP Client Security Manager Gen6 requires Windows and is available on the select HP PCs..

[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>

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

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

[24] HP Client Security Manager Gen6 requires Windows and is available on select HP Elite, Pro and Workstations.

[25] HP Sure Click requires Windows 11, Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

[26] HP Sure Start Gen 6 is available on select HP PCs and workstations. See product specifications for availability.

[27] HP Sure Run Gen3 is available on select Windows 11, Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors

[28] HP Sure Recover Gen3 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.

[34] 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

[35] HP Sure Sense requires Windows 11, 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.

[36] HP Sure Admin requires Windows 11, Windows 10, HP BIOS, HP Manageability Integration Kit from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

Accessories

Graphics Cards

★ : Recommended

Graphics Cards

AMD Radeon Pro WX 3200 4GB (4)mDP GFX	6YT68AA ★
NVIDIA Quadro P400 2GB Graphics	1ME43AA ★
NVIDIA Quadro P1000 4GB Graphics	1ME01AA ★
AMD Radeon Pro WX 3200 4GB (4)mDP GFX	6YT68AT
NVIDIA Quadro P1000 4GB Graphics	1ME01AT
NVIDIA Quadro P400 2GB Graphics	1ME43AT
NVIDIA Quadro P620 2GB Graphics Card	3ME25AA
NVIDIA Quadro P620 2GB Graphics Card	3ME25AT
NVIDIA Quadro T1000 4GB 4mDP Graphics	20X22AA
NVIDIA T400 2 GB GDDR6 LP Blower Fan 3mDP PCIe x16 Graphics	340K8AA
NVIDIA T600 4 GB GDDR6 LP Blower Fan 4mDP PCIe x16 Graphics	340K9AA

PC Drives and Storage

PC SATA Hard Drives

HP 1TB Enterprise SATA 7200 HDD	WOR10AA ★
HP 4TB SATA 7200 Hard Drive	K4T76AA ★
2TB 7200RPM SATA 3.5in Enterprise	2Z274AA
8TB 7200RPM SATA 3.5in Enterprise	2Z273AA
HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AA
HP 1TB SATA 6Gb/s 7200 Hard Drive	LQ037AT
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 256GB SATA Solid State Drive	A3D26AA
HP 256GB SATA Solid State Drive	A3D26AT
HP 2TB PCIe NVME TLC M.2 Z2 G5 TWR/SFF SSD	35F73AA
HP 512GB SATA Solid State Drive	D8F30AA

HP 512GB SATA Solid State Drive	D8F30AT
HP ZTurbo 1TB TLC Z2 G5 TWR/SFF SSDKit	141L5AA
HP ZTurbo 256GB SED Z2 G5 TWR/SFF SSDKit	141L8AA
HP ZTurbo 256GB TLC Z2 G5 TWR/SFF SSDKit	141L7AA
HP ZTurbo 2TB TLC Z2 G5 TWR/SFF SSDKit	141M1AA
HP ZTurbo 512GB SED Z2 G5 TWR/SFF SSDKit	141M3AA
HP ZTurbo 512GB TLC Z2 G5 TWR/SFF SSDKit	141M5AA
HP ZTurbo 512GB TLC Z2 G5 TWR/SFF SSDKit	141M5AT

PC DVD-ROM Drives

HP Z2 SFF DVD-ROM 9.5mm Slim ODD	4L5J8AA
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PC DVD Drives

HP Z2 SFF DVD-Writer 9.5mm Slim ODD	4L5J9AA
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Keyboards/Mice and Input Devices

Keyboards

HP Wireless Premium Keyboard	Z9N41AA ★
HP USB Premium Keyboard	Z9N40AA
HP USB Premium Keyboard	Z9N40AT
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320K Keyboard	9SR37ET
HP Wireless Premium Keyboard	Z9N41AT

Mice

HP Wireless Premium Mouse	1JR31AA ★
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320M Mouse	9VA80ET

Keyboard and Mouse Kits

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

Memory

DDR4 Memory

16GB (1x16GB) 3200 DDR4 ECC UDIMM	141H2AA
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16GB (1x16GB) 3200 DDR4 ECC UDIMM	141H2AT
16GB (1x16GB) 3200 DDR4 NECC UDIMM	141H3AA
16GB (1x16GB) 3200 DDR4 NECC UDIMM	141H3AT
32GB (1x32GB) 3200 DDR4 ECC UDIMM	141H7AA
32GB (1x32GB) 3200 DDR4 NECC UDIMM	141H9AA
32GB (1x32GB) 3200 DDR4 NECC UDIMM	141H9AT
4GB (1x4GB) 3200 DDR4 NECC UDIMM	141J1AA
8GB (1x8GB) 3200 DDR4 ECC UDIMM	141J3AA
8GB (1x8GB) 3200 DDR4 ECC UDIMM	141J3AT
8GB (1x8GB) 3200 DDR4 NECC UDIMM	141J4AA
8GB (1x8GB) 3200 DDR4 NECC UDIMM	141J4AT

PC Networking Adapters

PC Fast Ethernet Adapters

Allied Telesis AT-2914SX/LC-901 1GB LC Fiber NIC	1C7Q2AA
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PC Controller/Controller Options

PC Processor Cards

Aquantia NBASE-T 5GbE PCIe NIC	1PM63AA
Intel Ethernet I210-T1 GbE NIC	E0X95AA
Intel Ethernet I350-T2 2-Port 1Gb NIC	V4A91AA
Intel Ethernet I350-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 Flex 1GbE Fiber LC Single Port	20J15AA
HP HDMI Flex Port 2020	141K1AA
HP PCIe x1 Parallel Port Card	N1M40AA
HP Thunderbolt 3 Flex Port 2020 TWR	141K5AA
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
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HP Z2 G5 Internal Serial and PS/2 Port	141K9AA
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Cables/Cable Kits/Cable Adapters

Audio and Video Cables

HP DisplayPort To VGA Adapter	AS615AA
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HP DisplayPort To VGA Adapter	AS615AT
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HP DisplayPort To VGA Adapter	F7W97AA
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HP DisplayPort to DVI-D Adapter	FH973AA
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HP DisplayPort to DVI-D Adapter	FH973AT
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HP DisplayPort to HDMI True 4K Adapter	2JA63AA
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Cable Adapters

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

Brackets/Bezels/Panels

HP Dust Filter Z2 G5 SFF	141L0AA
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HP Dust Filter bezel Z2 G5 SFF	141L1AA
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Point of Sales System Options

POS Display Accessories

HP L7010t 10.1-inch Retail Touch Monitor	T6N30AA
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HP L7014 14-inch Retail Monitor	T6N31AA
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HP L7014t 14-inch Retail Touch Monitor	T6N32AA
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HP L7016t 15.6-inch Retail Touch Monitor	V1X13AA
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Batteries/Chargers/Adapters

Power Cords

HP Z2 Power Cord Kit M	1N1D5AA
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Network Adapters

Adapter Cards

Intel X550 10GBASE-T Dual Port NIC

1QL46AA

Intel X710-DA2 10GbE SFP+ DP NIC

1QL47AA

Monitors

Business Monitors

★ : Recommended

Z Displays

HP Z32 31.5-inch 4K UHD Display	1AA81A4 ★
HP DreamColor Z31x Studio Display	Z4Y82A4
HP Z24f G3 FHD Display	3G828AA
HP Z24n G3 WUXGA Display	1C4Z5AA
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
HP Z27k G3 4K USB-C Display	1B9T0AA
HP Z27q G3 QHD Display	1C4Z7AA
HP Z27u G3 QHD Display	1B9X2AA
HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AA
HP Z38c 37.5-inch Curved Display	Z4W65A4
HP Z43 42.5-inch 4K UHD Display	1AA85A4

E-Series

HP E22 G4 FHD Monitor	9VH72AA
HP E23 G4 FHD Monitor	9VF96AA
HP E24 G4 FHD Monitor	9VF99AA
HP E24i G4 WUXGA Monitor	9VJ40AA
HP E24mv G4 FHD Conferencing Monitor	169L0AA
HP E24q G4 QHD Monitor	9VG12AA
HP E24t G4 FHD Touch Monitor	9VH85AA
HP E24u G4 FHD USB-C Monitor	189T0AA
HP E27 G4 FHD Monitor	9VG71AA
HP E27q G4 QHD Monitor	9VG82AA
HP E27u G4 QHD USB-C Monitor	189T3AA

EliteDisplays

HP EliteDisplay E190i 48 cm (18.9") 5:4 LED Backlit IPS Monitor (ENERGY STAR)	E4U30AA
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76AA
HP EliteDisplay E243m 60.45 cm (23.8") Monitor	1FH48AA
HP EliteDisplay E273m 68.58 cm (27") Monitor	1FH51AA

Healthcare Edition Displays

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

ProDisplays

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

HP P22 G4 22 FHD Monitor	1A7E4AA
HP P22h G4 FHD Monitor	7UZ36AA
HP P22h G4 FHD Monitor	7UZ36AT
HP P24 G4 24 FHD Monitor	1A7E5AA
HP P24h G4 FHD Monitor	7VH44AA
HP P27h G4 FHD Monitor	7VH95AA

Remote Connectivity Software

★ : Recommended

Workstation Remote Connectivity Software

HP ZCentral Connect 2020 E-LTU	9TS59AAE
HP ZCentral Remote Boost 2020 Floating E-LTU	9TS61AAE
HP ZCentral Remote Boost 2020 Standard E-LTU	9TS60AAE

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