

Overview

Engineered to evolve.

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

Your new benchmark for entry workstation power.

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

Built to expand. Power to grow.

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

Industry-leading security. Durability you can trust.

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

Access your Z2 Tower from anywhere.

Tap into the power of your Z2 Tower from anywhere and on almost any device with HP ZCentral Remote Boost.[3] 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® Core™ i9 processor

Get high-end performance for intensive tasks like rendering and video editing with the Intel® Core™ i9 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.

[2] Undergoes MIL-STD testing. MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Service.

[3] HP ZCentral Remote Boost 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.

[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 froton	Tarrian
Form factor	Tower
Operating system	Windows 10 Pro 64 High End
Processor family	11th Generation Intel® Core™ i9 processor
Processor	Intel® Core™ i9-11900K (3.5 GHz base frequency, up to 5.3 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores) ^[6,7]
Chipset	Intel® W580
Memory	32 GB DDR4-3200 MHz RAM (2 x 16 GB)
Memory Slots	4 DIMM
Internal Storage	512 GB PCle [®] NVMe™ M.2 SSD
Internal drive bays	Two M.2 NVME 2280 SSD; One 2.5" HDD; Two 3.5" HDD
External drive bays	One slim ODD; One 5.25" ODD
Optical drive	9.5 mm Slim DVD-Writer
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)	35.6 x 16.9 x 38.5 cm (Standard tower orientation.)
Weight	Starting at 7 kg (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)
Expansion slots	1 PCle 3 x4 (x16 connector); 1 PCle 3 x4 (x4 connector); 1 M.2 2230 PCle 3 x1; 1 M.2 2280 PCle 4 x4; 1 M.2 2280 PCle 3 x4; 1 PCle 3 x1 (x4 connector); 1 PCle 4 x16 (x16 connector) (1 M.2 2230 slot for WLAN and 2 M.2 2280 slots for storage)
	1 audio-in; 1 audio-out; 1 RJ-45; 2 DisplayPort™ 1.4; 2 SuperSpeed USB
Ports	Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 3 USB Type-A 480Mbps signaling rate
Ports Management features	Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling

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 ^[19,20,21,22,23,24,25,26]
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 ^[15,16,17]
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/b066925aeae813bae12ed5b71ca4429c039712b3
Datasheet photo 2	Publication logos/HP_Care_Pack_RGB_blue_NT.jpg
Datasheet photo 3	AHID/aee64329b210009f14eb2a52ed95af99ca0dead5
Datasheet photo 4	AHID/94900aef0976fd4fad239f12c8042d9c626e4808
Datasheet photo 5	AHID/d798e5b443cf241ad94eda8d523599fd97bda812
ECC memory	non-ECC
I/O Port location	Front
I/O Port location	Rear
Legal tagline	HP recommends Windows 10 Pro for business
MDA key selling point	Windows 10 Pro or other operating systems available
Memory and storage	32 GB memory; 512 GB SSD storage
Memory layout (slots & size)	2 x 16 GB
Memory module type	DIMM
Memory size	32
Memory size uom	GB
Memory speed	3200
Memory speed uom	MHz
Memory type	DDR4
Number of memory slots	2
Processor Brand	Intel®
Processor base frequency	3.5
Processor base frequency uom	GHz
Processor cache	16 MB L3
Processor core	8
Processor family	Core™ i9
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	11th Generation
Processor maximum frequency	5.3
Processor maximum frequency uom	GHz
Processor threads	16

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 HP 5 year Next Business Day Onsite Hardware Support for Workstations Receive 5 years of next business day onsite HW Support from an HPqualified technician for your computing device, if the issue cannot be solved remotely. Transfer rates up to 3200 MT/s. 512 GB Integrated SATA (4 ports 6 Gb/s) with integrated RAID 0, 1, for PCIe SSDs supported. Requires identical hard drives (speeds, capacity, interface). M.2 PCIe® NVMe™ 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.

SSD

Sales office and telephone number

Service description

Services (Care Pack)

Standard memory note

Storage capacity uom 01

Storage form factor 01

Storage interface protocol 01

Storage interface 01

Storage type

Storage type 01

Storage capacity 01

Storage controller

[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 ★: Recommended

DDR4 Memory

8GB (1x8GB) 3200 DDR4 ECC UDIMM	141J3AA ★
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Graphics Cards

Graphics Cards

AMD Radeon Pro W5500 8GB 4DP GFX	9GC16AA ★
NVIDIA Quadro P400 2GB Graphics	1ME43AA ★
AMD Radeon Pro WX 3200 4GB (4)mDP GFX	6YT68AA ★
AMD Radeon Pro W5700 8GB 5mDP+USBc GFX	9GC15AA
AMD Radeon Pro WX 3200 4GB (4)mDP GFX	6YT68AT
NVIDIA Quadro P2200 5GB (4)DP GFX	6YT67AA
NVIDIA Quadro P2200 5GB (4)DP GFX	6YT67AT
NVIDIA Quadro P400 2GB Graphics	1ME43AT
NVIDIA RTX A5000 24 GB 4DP Graphics	20X23AA

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 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

HP 4-in-1 SFF (2.5in) HDD Carrier	B8K60AA
HP DX175 Removable HDD Frame/Carrier	1ZX71AA
HP DX175 Removable HDD Spare Carrier	1ZX72AA

Personal Media Storage

HP SD card reader Z2 G5 Twr	141K3AA
in 35 cara reduct 22 d3 rwi	11113741

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	Z9N4OAT
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320K Keyboard	9SR37ET
HP Wireless Premium Keyboard	Z9N41AT

Mice

HP Wireless Premium Mouse	1JR31AA ★
HP USB Premium Mouse	1JR32AA ★
HP Wired Desktop 320M Mouse	9VA80AA ★
HP 935 Creator Wireless Mouse	1D0K8AA
HP PS/2 Mouse	QY775AA

Keyboard and Mouse Kits

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

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 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 HDMI Flex Port 2020	141K1AA
HP PCIe x1 Parallel Port Card	N1M40AA
HP QX310 Removable Carrier only	8GQ91AA
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

Expansion Packs and Solutions

HP Z2 TWR Card Hldr 2B1D4AA

Cables/Cable Kits/Cable Adapters

Audio and Video Cables

HP DisplayPort To VGA Adapter	AS615AA
HP DisplayPort To VGA Adapter	AS615AT
HP DisplayPort To VGA Adapter	F7W97AA
HP DisplayPort to DVI-D Adapter	FH973AA
HP DisplayPort to DVI-D Adapter	FH973AT

Cable Adapters

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

Data Transfer Cables

Intel 10GbE SFP+ SR Tranceiver	C3N53AA

Chassis and Chassis Accessories

Brackets/Bezels/Panels

HP Dust Filter Z2 G5 Tower	141L2AA
HP Dust Filter bezel Z2 G5 Tower	141L3AA

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

Rack Kits

HP Z2 Mini/Z2 Tower/Z4/Z6 Depth Adjustable Fixed Rail Rack Kit	2A8Y5AA
Rail Kits	
HP Z4/Z6 G4 Depth Adj Fxd Rail Rack Kit	2HW42AA

Network Adapters

Adapter Cards

Intel X550 10GBASE-T Dual Port NIC	1QL46AA

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