



HP Z4 G4 Workstation

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.



HP recommends Windows 10 Pro for business

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.

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.

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 Gen3² and HP Sure Start Gen3¹⁰ featuring a self-healing BIOS.

Featuring

- Support your unique user needs with a choice of Windows 10 Pro for Workstations 64 or Linux® operating systems.¹
- Run demanding professional apps with the newest generation Intel® Xeon® processors available with up to 18 cores for powerful performance and productivity.
- Experience disruptive price-performance on multi-threaded applications, or combined workflows such as simulation based design, with Intel® Core™ X-Series processors: the high-performance single-socket processors from Intel®.⁸
- Get serious about graphics and reach peak productivity with access to a breadth of NVIDIA® and AMD professional graphics from entry to high-end 3D.⁴
- Install pro-grade storage hardware and elevate your storage-bound apps without sacrificing standard PCIe slots.
- The simply stunning design features front and rear handles, so you can easily relocate your system.
- Save space within your office layout with a chassis that is 10% smaller than the previous generation.
- Multiple high-speed network connections are easy and speedy with dual embedded 1GbE LAN ports with Thunderbolt™ 3 technology for fast data transfers.
- The optional dual front I/O USB 3.1 G2 Type C™ module lets you transfer data to devices using modern connection technology at higher data rates.
- Optional self-encryption drives thwart outside access so your valuable IP won't fall into the wrong hands.

HP Z4 G4 Workstation Specifications Table



Available Operating Systems	Windows 10 Pro for Workstations 64 – HP recommends Windows 10 Pro. ^{21,24,25} Red Hat® Enterprise Linux® ²² HP Linux® Installer Kit includes drivers for 64-bit versions of Red Hat® Enterprise Linux® 7.4, SUSE Linux® Enterprise Desktop 12 and Ubuntu 16.04. Red Hat® Enterprise Linux® (1-year paper license only) is available as a second operating system.
Processor family^{26,30}	Intel® Xeon® W processor; Intel® Core™ X-Series processor
Available Processors^{2,3,29}	Intel® Xeon® W-2295 (3.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 24.75 MB cache, 18 cores) Intel® Xeon® W-2275 (3.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 19.25 MB cache, 14 cores) Intel® Xeon® W-2265 (3.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 19.25 MB cache, 14 cores) Intel® Xeon® W-2255 (3.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 19.25 MB cache, 10 cores) Intel® Xeon® W-2245 (3.9 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 16.5 MB cache, 8 cores) Intel® Xeon® W-2235 (3.8 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 6 cores) Intel® Xeon® W-2225 (3.8 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 6 cores) Intel® Xeon® W-2215 (3.3 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 4 cores) Intel® Xeon® W-2195 (2.3 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 24.75 MB cache, 18 cores) Intel® Xeon® W2175 (2.5 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 19.25 MB cache, 14 cores) Intel® Xeon® W2155 (3.3 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 13.75 MB cache, 10 cores) Intel® Xeon® W2145 (3.7 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 11 MB cache, 8 cores) Intel® Xeon® W2135 (3.7 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 6 cores) Intel® Xeon® W2133 (3.6 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 6 cores) Intel® Xeon® W2125 (4 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 4 cores) Intel® Xeon® W2123 (3.6 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 4 cores) Intel® Xeon® W2104 (3.2 GHz, 8.25 MB cache, 4 cores) Intel® Xeon® W2102 (2.9 GHz, 8.25 MB cache, 4 cores) Intel® Core™ i9-9920X (3.5 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Max Technology 3.0, 19.25 MB cache, 12 cores) Intel® Core™ i9-7980XE (2.6 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Max Technology 3.0, 24.75 MB cache, 18 cores) Intel® Core™ i9-7960X (2.8 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Max Technology 3.0, 22.0 MB cache, 16 cores) Intel® Core™ i9-7940X (3.1 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Max Technology 3.0, 19.25 MB cache, 14 cores) Intel® Core™ i9-7920X (2.9 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Max Technology 3.0, 16.5 MB cache, 12 cores) Intel® Core™ i9-7900X (3.3 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Max Technology 3.0, 13.75 MB cache, 10 cores) Intel® Core™ i9-10980XE (3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Max Technology, 24.75 MB cache, 18 cores) Intel® Core™ i9-10940X (3.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Max Technology, 19.25 MB cache, 14 cores) Intel® Core™ i9-10920X (3.5 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Max Technology, 19.25 MB cache, 12 cores) Intel® Core™ i9-10900X (3.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Max Technology, 19.25 MB cache, 10 cores) Intel® Core™ i9-9980XE (3.0 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Max Technology 3.0, 24.75 MB cache, 18 cores) Intel® Core™ i9-9960X (3.3 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Max Technology 3.0, 16.5 MB cache, 12 cores) Intel® Core™ i7-7820X (3.6 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Max Technology 3.0, 11.0 MB cache, 8 cores) Intel® Core™ i7-7800X (3.5 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 8.25 MB cache, 6 cores) Intel® Core™ i7-9800X (3.8 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Max Technology 3.0, 16.5 MB cache, 8 cores) 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.
Chipset^{26,27}	Intel® C422; Intel® X299
Maximum memory	256 GB DDR4-2666 ECC SDRAM (for Intel® Xeon® configurations); 128 GB DDR4-2666 non-ECC SDRAM (for Intel® Core™ X configurations) ⁹ Transfer rates up to 2666 MT/s.
Memory slots	8 DIMM
Internal storage	300 GB SAS (15000 rpm) ^{4,23} 500 GB up to 2 TB SATA (7200 rpm) ⁴ 500 GB SATA SED (7200 rpm) ⁴ 1 TB up to 6 TB 7200 rpm SATA Enterprise ⁴ 256 GB up to 2 TB SATA SSD ⁴ 256 GB up to 512 GB SATA SED Opal 2 SSD ⁴ 240 GB up to 480 GB SATA Enterprise SSD ⁴ 256 GB up to 2 TB HP Z Turbo Drive PCIe® NVMe™ SSD ⁴ 256 GB up to 512 GB HP Z Turbo Drive PCIe® NVMe™ SED SSD M.2 ⁴ 256 GB up to 4 TB HP Z Turbo Drive Quad Pro PCIe® SSD ^{2,4} 256 GB up to 8 TB HP Z Turbo Drive Dual Pro PCIe® SSD ^{2,4}
Additional storage	HP SD 4 Media Card Reader (optional)
Optical drive^{5,6}	HP Slim DVD-RW; HP Slim Blu-ray Writer; HP Slim DVD-Writer
Available Graphics	Entry 3D: AMD FirePro™ W2100 Graphics (2 GB GDDR3 dedicated); NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (2 GB GDDR5 dedicated) Mid-range 3D: AMD Radeon™ Pro WX 3100 Graphics (4 GB GDDR5 dedicated); NVIDIA® Quadro® P1000 (4 GB GDDR5X dedicated); NVIDIA® Quadro® P2200 (5 GB GDDR5X dedicated); AMD Radeon™ Pro WX 3200 Graphics (4 GB GDDR5 dedicated) High-end 3D: NVIDIA® Quadro® P4000 (8 GB GDDR5X dedicated); AMD Radeon™ Pro WX 7100 Graphics (8 GB GDDR5 dedicated); NVIDIA® Quadro® RTX 4000 (8 GB GDDR6 dedicated) Ultra High-end 3D: AMD Radeon™ Pro WX 9100 Graphics (16 GB HBM2 dedicated); NVIDIA® Quadro® P5000 (16 GB GDDR5X dedicated); NVIDIA® Quadro® P6000 (24 GB GDDR5X dedicated); NVIDIA® Quadro® GP100 (16 GB HBM2 dedicated); NVIDIA® Quadro® SYNC II; NVIDIA® Quadro® RTX 5000 (16 GB GDDR6 dedicated); NVIDIA® Quadro® RTX 6000 (24 GB GDDR6 dedicated); NVIDIA® Quadro® RTX 8000 (48 GB GDDR6 dedicated) ¹⁹
Audio	Integrated Realtek HD ALC221
Expansion slots	2 PCIe 3 x4, 2 M.2 PCIe 3 x4, 1 PCIe x8, 2 PCIe x16 (for Intel® Xeon® W configurations); 2 PCIe 3 x4, 1 M.2 PCIe 3 x4, 1 PCIe x8, 2 PCIe x16 (for Intel® Core™ i9-X and Core™ i7-9800X configurations); 2 PCIe 3 x4, 1 M.2 PCIe 3 x4, 1 PCIe x8 (mechanical only), 1 PCIe x16 (x8 electrical), 1 PCIe x16 (for other Intel® Core™ i7-X configurations)
Ports and Connectors	Front: 1 headset connector; 4 USB 3.1 (1 charging) Front (Premium version): 1 headset connector; 2 USB 3.1 Gen 2 Type-C™; 2 USB 3.1 Gen 1 (1 charging) Rear: 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 (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.)
Available Keyboards	HP PS/2 Business Slim Keyboard; HP USB Business Slim Keyboard; USB Premium wired keyboard; USB Smart Card (CCID) keyboard ¹⁰
Available Pointing Devices	3Dconnexion CADMouse; HP USB Optical Mouse; HP PS/2 Mouse; HP USB Hardened Mouse ¹⁰
LAN²⁰ Network Interface²⁰	Integrated Intel® I219-LM PCIe® GbE Integrated Intel® I210-AT PCIe® GbE Intel® I350-T2 dual-port GbE NIC Intel® I350-T4 dual-port GbE NIC Intel® I210-T1 PCIe® GbE Intel® X550-T2 dual-port GbE NIC Intel® X710-DA2 dual-port GbE NIC Intel® 10 GbE SFP+ SR transceiver
WLAN⁹	Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™
Drive Bays	Two 5.25"; Two 2.5" or 3.5" ¹⁶
Available Software^{13,31}	HP Remote Graphics Software (RGS); HP Performance Advisor
Security management^{7,14,15,17,18,28}	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)
Power²²	1000 W internal power supply, up to 90% efficiency, active PFC; 465 W internal power supply, up to 90% efficiency, active PFC; 750 W internal power supply, up to 90% efficiency, active PFC
Dimensions	15.2 x 6.65 x 17.5 in; 38.6 x 16.9 x 44.5 cm
Weight	Starting at 22.4 lb; Starting at 10.2 kg
Energy efficiency compliance¹¹	ENERGY STAR® certified and EPEAT® Gold registered configurations available; ENERGY STAR® certified and EPEAT® 2019 registered where applicable. EPEAT® registration varies by country. See www.epeat.net for registration status by country.
Environmental specifications¹²	Low halogen
Compatible displays	All HP Z Displays and HP DreamColor Displays are supported. For more information see www.hp.com/go/zdisplays.
Warranty	Protected by HP Services, including a 3 years parts, 3 years labor, and 3 years onsite service (3-3-3) standard limited warranty. Certain restrictions. 24/7 operation will not void the HP warranty.

HP Z4 G4 Workstation

Accessories and services (not included)

HP Z32 31.5-inch 4K UHD Display



Experience extraordinary, precise color and see more of your projects at one time on a display with stunning 4K¹ resolution.

Product number: 1AA81A8

HP Z24nf G2 23.8-inch Display



Be a productive powerhouse with the sleek HP Z24nf G2 23.8-inch Display. This virtually seamless Full HD display is factory-tested for reliability and longevity with integrated color calibration, uninterrupted multi-screen¹ tiling, and expansive device connections.

Product number: 1JS07A8

HP Z27n G2 27-inch Display



Be a productive powerhouse with the sleek QHD HP Z27n G2 27-inch Display. This virtually seamless display is factory-tested for reliability and longevity with integrated color calibration, uninterrupted multi-screen¹ tiling, and expansive device connections, including USB-C™.

Product number: 1JS10A8

HP Z Premium Front I/O 2xUSB-A 2xUSB-C



Use the HP Z Premium Front I/O 2xUSB-A 2xUSB-C to quickly and easily upgrade your HP Z4, Z6 or Z8 G4 Workstation standard front I/O ports from 4x USB 3.1 Gen 1 Type A ports to 2x higher-bandwidth USB 3.1 Gen 2 Type-C™ ports for modern peripheral compatibility and 2x USB 3.1 Gen 1 Type A ports.

Product number: 1XM32AA

NVIDIA Quadro P5000 (16GB) Graphics Card



Work with large models and rendering tasks and complex simulations and add more life-like VR experiences to your workflow today while preparing for the challenges of tomorrow with the NVIDIA® Quadro® P5000 workstation graphics card, powered by NVIDIA Pascal™ GPU technology.

Product number: Z0B13AA

AMD Radeon Pro WX 7100 8GB Graphics Card



Meet your demanding Design & Manufacturing and Media & Entertainment VR and immersive computing workflows head on with the AMD Radeon™ Pro WX 7100, a single slot form factor card based on AMD's new Polaris architecture.

Product number: Z0B14AA

HP 5 year Next Business Day Onsite HW Support w/Defective Media Retention for Workstations



When hardware issues come up, the sooner you can get running again, the better. Have expertise at the ready with HP Hardware Next Business Day¹ Onsite Service with Defective Media Retention, and vastly improve your product uptime. With high-quality remote assistance or convenient onsite support available the next business day, help is there when you need it—so you can get back to work.

Product number: U1G57E

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Messaging Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows® functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
 - ² HP Client Security Suite Gen3 requires Windows and Intel® or AMD 7th Gen processors.
 - ⁴ Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
 - ⁵ Sold separately or as an optional feature.
 - ⁶ HP Z Premium Front I/O 2xUSB-A 2xUSB-C is sold separately or as an optional feature.
 - ⁸ Windows 10 Pro is preinstalled. Windows 7 is not supported on the Intel® Core™ X - Series processor configurations. 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.
 - ⁹ Dual embedded 1GbE LAN ports on Intel® Xeon® processor configurations; single embedded 1GbE LAN ports on Intel® Core™ X processor configurations.
 - ¹⁰ HP Sure Start Gen3 is available on HP EliteBook, HP ZBook, and HP Z Workstation products equipped with Intel® 7th generation processors.
- Screen image courtesy of Renault Sport Racing.
Screen image courtesy of Chris McLennan.

Technical Specifications Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
- 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.
- 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.
- ⁴ For hard drives and solid state drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB of system disk is reserved for system recovery software.
- 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.
- ⁶ With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this Desktop PC.
- ⁷ HP Client Security Manager G3 - Requires Windows and Intel® 7th or 8th generation processors.
- 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.
- 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.
- ¹⁰ Optional or add-on feature.
- ¹¹ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
- ¹² External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- ¹³ HP Remote Graphics Software requires network connection. Performance dependent on network latency and image frame content.
- ¹⁴ HP BIOSphere G3 requires Intel® 7th generation processors.
- ¹⁵ HP Secure Erase: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.
- ¹⁶ Each bay is configurable to 2.5" or 3.5".
- ¹⁷ HP MIK/SCCM - HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
- ¹⁸ HP Keyed Cable Lock Kit is available only as an aftermarket option.
- ¹⁹ NVIDIA® Quadro® SYNC II sold separately
- ²⁰ I210-AT, I219-V are available in Intel® Xeon® configurations only.
- 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>.
- ²² 465W and 750W power supply options are only available for Intel® Xeon® configurations.
- ²³ Supported only on Intel® Xeon® configurations. Not supported with Intel® Core XTM processor configurations.
- ²⁴ Available on Intel® Xeon® W processor configurations only.
- ²⁵ Available on Intel® Core™ i7X-Series processor configurations only.
- 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.
- ²⁷ Intel® C422 for Intel® Xeon® configurations, Intel® X299 for Intel® Core™ X configurations.
- 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.
- 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 for more information.
- 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>
- ³¹ HP Performance Advisor - Internet access required.
- ³² For detailed Linux® OS/hardware support information, see: http://www.hp.com/linux_hardware_matrix

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