

HP recommends Windows® 7.

HP Z620 Workstation

Product Design Highlights



Introduction

More power. More performance. More expandable. HP is excited to introduce the HP Z620 Workstation. This surprisingly small workstation has been redesigned to provide even more capability than its predecessor. The HP Z620 Workstation exudes innovations in tool-free design, amazingly quiet acoustics, and impressive expandability for its product size.

Mobility and flexibility

Our customers continue to express the need for easy system mobility. Based on this user demand, the HP Z620 Workstation has full-grip integrated carrying handles and one can easily slide the system around on a variety of surfaces. The flexible HP Z620 Workstation design allows for the system to be used in the tower orientation or rack-mounted with enterprise-class rails. To offer additional flexibility in deployment, the HP Z620 Workstation is modular by design allowing it to be configured as a single or dual processor system. The optional 2nd processor module provides the second CPU and 4 additional memory slots—that's 12 DIMM slots total for this very compact dual processor workstation. Adding or upgrading memory on the 2nd processor module is extremely easy—no tools required and it takes only seconds to remove and install, featuring intuitive touch points and handles, user-friendly positive latching, self-aligning guides, and blind-mate (no cable) interconnections.

Interior design

The streamlined interior is well organized and all user serviceable components are identified with consistent green touch points. Cables are hidden or efficiently routed, providing better component access and airflow management.



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Tool-free design

HP has always been a leader in tool-free product design and with the HP Z620 Workstation; the serviceability could not be any easier. The following components can be easily accessed or upgraded without tools: side access panel, hard drives, optical drives, memory, expansion cards, power supply, system board, and the 2nd processor module. To make accessing memory as easy as possible, the memory fans are blind-mate, requiring no manual cable connections. In addition, the hard drives are also direct-connect and can be swapped in and out without dealing with cables. Users will find the translucent (see-thru) hard drive carriers very helpful when determining which bays are populated with a drive.

Security

Due to the tool-free ease of use, HP understands system and component security may be a concern, therefore several security features have been incorporated. The side access panel key lock and a Kensington security slot are included standard. A system intrusion sensor and a remote/centrally controlled solenoid lock are optional accessories.

Quiet and reliable

Acoustic noise is very important to HP and our customers because a noisy environment increases user fatigue and reduces productivity. HP has extended its leadership in this area with the design of HP Z620 Workstation. With all its extra power and expandability, one might expect the HP Z620 Workstation to be louder than the already very quiet HP Z600 Workstation. However, with some innovative engineering using airflow guides, strategically placed fans, and active fan control, the HP Z620 Workstation is even quieter. As with all our workstations, the hard drives are mechanically isolated to reduce vibration and noise. The system is arranged so that sensitive components receive fresh cool air. With internal fans distributed throughout the system, airflow is targeted at the high power-density components. HP's advanced algorithms control fan speeds in real time based on system configuration, environment, and key component temperatures to provide users with whisper-quiet acoustics and uncompromising reliability and performance.

While low acoustics and thermal reliability are priorities, it is also important that the system can withstand difficult physical conditions. The HP Z620 Workstation is built to withstand high shock and vibration environments. Rigorous climatic and dynamic testing helps to ensure that HP workstations are highly reliable in demanding conditions.

Environmentally friendly

HP is committed to environmental sustainability and energy efficiency. To reduce energy consumption, HP workstations offer ENERGY STAR® qualified configurations and the HP Z620 Workstation features a 90 percent efficient power supply. The HP Workstation design team has taken a proactive approach (beyond just industry regulations) to recyclability and selecting materials that reduce the risk to the environment and health. HP Z620 Workstation configurations are available with non-halogenated flame retardant (BFR/PVC-free) materials.¹

Additional resources

hp.com/go/whitepapers

hp.com/support/Z620_manuals

¹ Meeting the industry definition of 'BFR/PVC-free' per the iNEMI Position Statement on "Low Halogen" Electronics. Plastic parts incorporated into the chassis generally contain < 1000 ppm (0.1%) of bromine or chlorine. Printed circuit board and substrate laminates generally contain < 1500 ppm (0.15%) of total bromine and chlorine. Service parts after purchase may not be BFR/PVC-free. External accessories, including power supplies, power cords, and peripherals as well as the following customer-configurable internal components: SAS 3½" HDD, SAS ROM Upgrade (Patsburg), SAS RAID Card, Creative Audio Card, and Broadcom NIC are not BFR/PVC-free.

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