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> HP Z840 Workstation User Manual

HP Z840

HP Z840 Workstation User Manual

Model: Z840 | Brand: HP

1. INTRODUCTION

The HP Z840 Workstation is a high-performance computing system designed for demanding professional applications such as visual effects, post-production, and CAD. This renewed product has undergone rigorous testing and certification to ensure it functions like new, offering robust capabilities with dual Intel Xeon processors, ample DDR4 memory, and fast SSD storage.

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your HP Z840 Workstation.

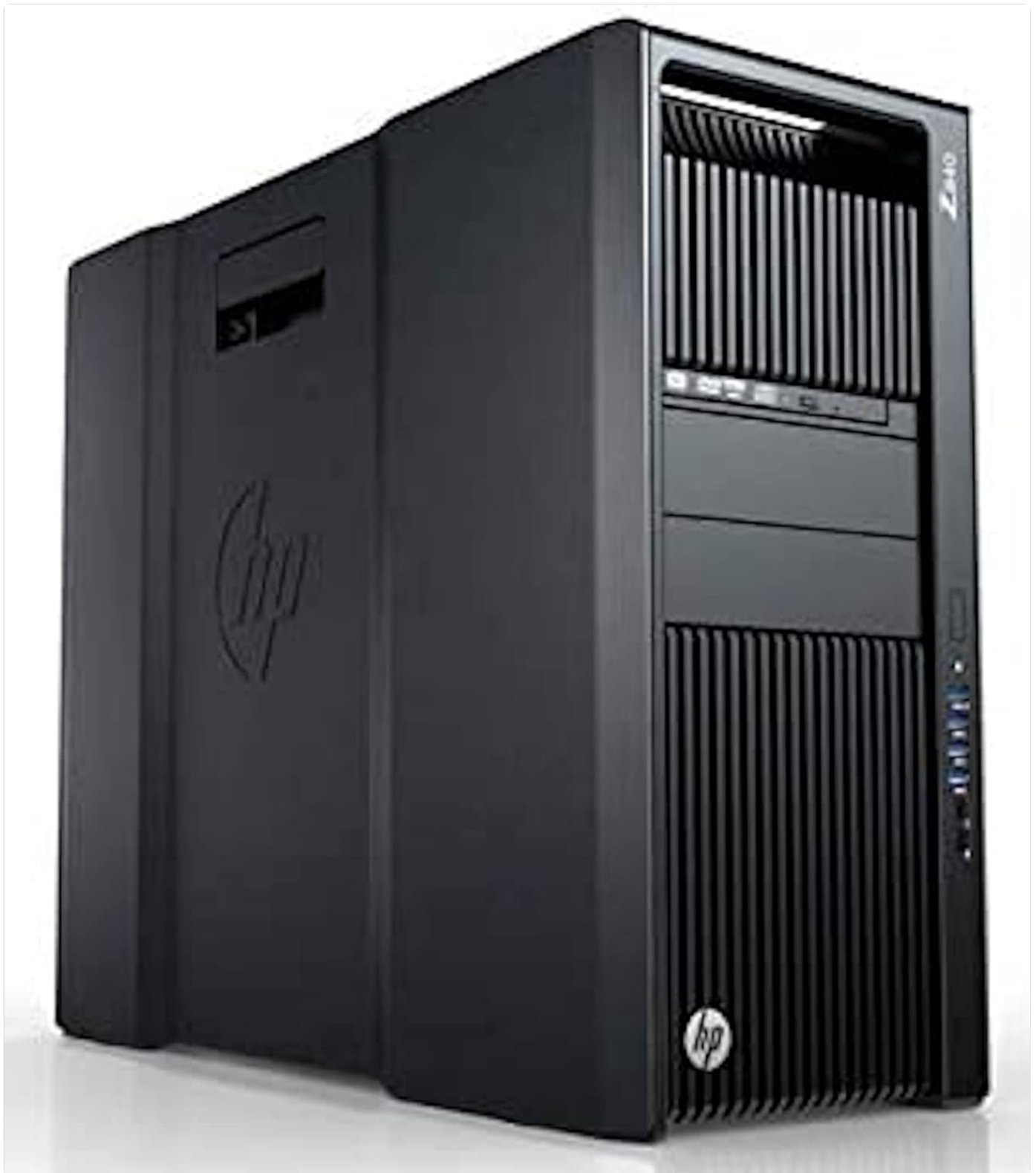


Figure 1: HP Z840 Workstation, showcasing its robust tower design.

2. SETUP

Before powering on your HP Z840 Workstation, ensure all necessary components are connected correctly.

2.1 Unpacking and Placement

- Carefully remove the workstation from its packaging.
- Place the workstation on a stable, flat surface with adequate ventilation around all sides. Avoid blocking air vents.
- Ensure the location is free from excessive dust, moisture, and direct sunlight.

2.2 Connecting Peripherals

Connect your monitor(s), keyboard, mouse, and other peripherals to the appropriate ports. The workstation features multiple USB 3.0 ports for high-speed connectivity and DisplayPorts for video output.





Figure 2: Rear I/O ports, including USB, audio, and network connections.

- **Video Output:** Connect your monitor(s) to the Nvidia Quadro M4000 graphics card's DisplayPorts. This card supports up to four displays.
- **USB Devices:** Use the USB 3.0 ports (both front and rear) for connecting keyboards, mice, external drives, and other USB devices.
- **Network:** Connect an Ethernet cable to one of the RJ-45 Gigabit LAN ports for wired network access.
- **Audio:** Use the audio line-in and line-out ports for speakers, headphones, or microphones.

2.3 Power Connection

Once all peripherals are connected, plug the power cord into the workstation's power supply unit and then into a grounded electrical outlet.

3. OPERATING INSTRUCTIONS

This section outlines the basic operation of your HP Z840 Workstation running Windows 10 Professional.

3.1 Powering On and Off

- **Power On:** Press the power button located on the front panel of the workstation. The system will boot into Windows 10 Professional.
- **Power Off:** To shut down, click the Start button in Windows, then select Power > Shut down. Avoid directly unplugging the power cord while the system is running to prevent data loss.
- **Restart:** To restart, click the Start button, then select Power > Restart.





Figure 3: Front panel of the workstation, showing the power button and front I/O ports.

3.2 Using Windows 10 Professional

Your workstation comes pre-installed with Windows 10 Professional 64-bit, providing a secure and versatile operating

environment for your professional tasks.



Figure 4: Windows 10 Professional operating system logo.

- **User Accounts:** Set up user accounts for different users to maintain personalized settings and security.
- **Software Installation:** Install necessary software applications for your specific workflows. Ensure software is compatible with Windows 10 Professional 64-bit.
- **Updates:** Regularly check for and install Windows updates to ensure system stability and security.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your HP Z840 Workstation.

4.1 Cleaning

- **Exterior:** Use a soft, damp cloth to clean the exterior surfaces. Avoid abrasive cleaners.
- **Vents:** Periodically clean dust from the air vents using compressed air to ensure proper airflow and prevent overheating.
- **Internal Components:** For advanced users, opening the case to carefully clean internal components (fans, heatsinks) with compressed air can be beneficial. Ensure the system is powered off and unplugged before opening.



Figure 5: Internal layout of the workstation, showing components and drive bays.

4.2 Software Maintenance

- **Operating System Updates:** Keep Windows 10 Professional updated to the latest version.
- **Driver Updates:** Ensure all hardware drivers, especially for the Nvidia Quadro M4000 graphics card, are up to date. Visit the HP support website for the latest drivers.
- **Antivirus/Antimalware:** Install and regularly update reputable antivirus and antimalware software.
- **Data Backup:** Regularly back up important data to an external drive or cloud storage to prevent data loss.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your workstation.

5.1 No Display Output

- Ensure the monitor is properly connected to the graphics card's DisplayPorts and is powered on.
- Verify that the graphics card (Nvidia Quadro M4000) is securely seated in its slot.
- Try connecting the monitor to a different DisplayPort on the graphics card or try a different monitor/cable if available.



Figure 6: Nvidia Quadro M4000 graphics card with DisplayPorts.

5.2 System Slowdown or Freezing

- Check Task Manager (Ctrl+Shift+Esc) for high CPU, RAM, or disk usage by specific applications.
- Ensure adequate ventilation and clean dust from vents to prevent overheating.
- Run a full system scan with your antivirus software.
- Verify that Windows and all drivers are up to date.

5.3 Peripheral Not Detected

- Try connecting the peripheral to a different USB port.
- Ensure the peripheral's drivers are installed and up to date.
- Restart the workstation.

5.4 Contacting Support

If you encounter issues that cannot be resolved using this guide, please contact the seller or HP support for further assistance. Provide your product model (Z840) and a detailed description of the problem.

6. SPECIFICATIONS

Detailed technical specifications for the HP Z840 Workstation:

Component	Specification
System	HP Z840 Workstation Tower
Processors	2x Intel Xeon E5-2678 v3 12-Core 2.5GHz (3.1GHz Turbo)
Memory (RAM)	128GB DDR4 Memory
Storage	4x 1TB SSD (4TB Total Storage)
Graphics Card	Nvidia Quadro M4000 8GB (4x Display Ports)
Optical Drive	DVD
Front I/O	4x USB 3.0, 1x Combo Headset, 1x Microphone
Rear I/O	4x USB 3.0, 2x USB 2.0, 1x Serial, PS/2 keyboard and mouse, 2x RJ-45 Gigabit LAN, 1x Audio Line-In, 1x Audio Line-Out
Power Supply	1125W PSU
Operating System	Windows 10 Professional 64-bit
Dimensions (LxWxH)	20.7 x 8 x 17.5 inches

7. WARRANTY AND SUPPORT

This HP Z840 Workstation is a renewed product. The refurbishing process includes functionality testing, basic cleaning, inspection, and repackaging to ensure it looks and works like new.

- **Warranty:** The product ships with a minimum 90-day warranty. Please refer to your purchase documentation for specific warranty terms provided by the seller.
- **Support:** For technical support or warranty claims, please contact the seller directly through the platform where the purchase was made. For general product information and drivers, you may visit the official HP support website.



