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> HP Z8 G4 Workstation User Manual

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Model: Z8 G4 Workstation

1. INTRODUCTION

This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your HP Z8 G4 Workstation. Designed for demanding professional environments, the HP Z8 G4 offers high performance for complex tasks such as 3D simulations, advanced machine learning, and 8K video editing.

Please read this manual thoroughly to ensure proper use and to maximize the longevity and performance of your workstation.

2. SETUP

2.1 Unpacking and Inspection

Carefully remove the workstation from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Ensure all included accessories, such as the power cord and any documentation, are present.



Figure 2.1: HP Z8 G4 Workstation, angled front view.

2.2 Connecting Peripherals

Connect your monitor(s), keyboard, and mouse to the appropriate ports on the rear of the workstation. The HP Z8 G4 supports multiple display outputs including DisplayPort and HDMI via the dedicated NVIDIA RTX 2080 graphics card.

- **Monitors:** Use DisplayPort or HDMI cables to connect your display(s) to the graphics card ports.
- **Keyboard/Mouse:** Connect to any available USB 3.1 Type A ports.
- **Network:** Connect an Ethernet cable to the LAN port for wired network access.
- **Audio:** Connect speakers or headphones to the audio output jacks.



Figure 2.2: Rear view of the HP Z8 G4 Workstation, highlighting connectivity ports.

2.3 Power Connection and Initial Boot

1. Connect the power cord to the workstation's power input and then to a grounded electrical outlet.
2. Press the power button located on the front of the workstation.
3. The system will begin the boot process. Follow any on-screen instructions for initial Windows 11 Pro setup, if applicable.



Figure 2.3: Front view of the HP Z8 G4 Workstation, showing the power button and front panel ports.

3. OPERATING THE WORKSTATION

3.1 Power On/Off and Restart

- **Power On:** Press the power button on the front panel.
- **Shut Down:** In Windows 11 Pro, click the Start button, then Power > Shut down.
- **Restart:** In Windows 11 Pro, click the Start button, then Power > Restart.
- **Force Shut Down:** If the system is unresponsive, press and hold the power button for 5-10 seconds until the system powers off. Use this only as a last resort.

3.2 System Components Overview

Your HP Z8 G4 Workstation is equipped with high-performance components designed for demanding applications:

- **Processors:** Dual Intel Xeon Gold 6132 (28-Cores total) for exceptional multi-threaded performance.
- **Memory:** 256GB DDR4 RAM for extensive multitasking and large datasets.
- **Storage:** A combination of 512GB SSD for the operating system and a 2TB SSD for high-speed data storage.
- **Graphics:** NVIDIA RTX 2080 8GB dedicated graphics card for advanced rendering, VR, and 4K content.
- **Operating System:** Pre-installed with Windows 11 Pro 64-bit.

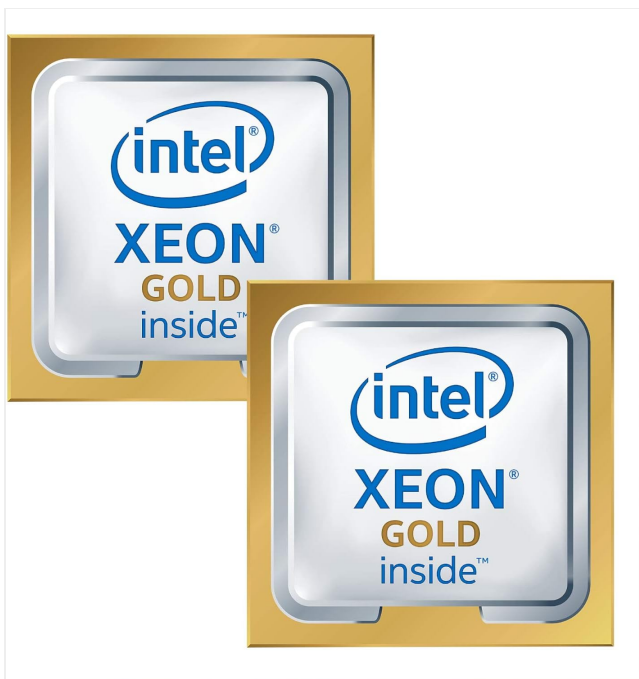


Figure 3.1: Intel Xeon Gold processors, central to the workstation's performance.

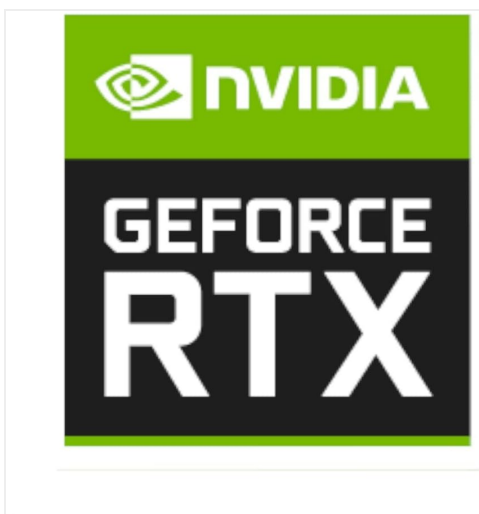


Figure 3.2: NVIDIA GeForce RTX graphics technology.

3.3 Using the Optical Drive

The workstation includes a DVD optical drive. To use it, press the eject button on the drive bay, insert your disc, and close the tray. Windows 11 Pro will typically detect the disc automatically.

4. MAINTENANCE

4.1 Cleaning the Workstation

- **Exterior:** Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to clean the exterior surfaces. Avoid harsh chemicals.
- **Vents:** Regularly check and clean the air vents to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air to gently clear dust from the vents. Ensure the workstation is powered off and unplugged before cleaning.

4.2 Software Updates

Keep your operating system and drivers updated to ensure optimal performance and security. Windows 11 Pro automatically checks for updates, but you can manually check via *Settings > Windows Update*. Regularly update your NVIDIA graphics drivers from the official NVIDIA website.

4.3 Data Backup

Regularly back up your important data to an external drive or cloud storage. This protects against data loss due to hardware failure or other unforeseen issues.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your HP Z8 G4 Workstation. For more detailed troubleshooting or issues not covered here, please refer to the official HP support resources.

- **No Power:**
 - Ensure the power cord is securely connected to both the workstation and the electrical outlet.
 - Verify the power outlet is functional by testing it with another device.
 - Check the power supply unit (PSU) switch, if present, to ensure it is in the 'on' position.
- **No Display:**
 - Confirm that the monitor is powered on and connected correctly to the graphics card ports.
 - Try a different display cable or monitor if available.
 - Ensure the correct input source is selected on your monitor.
- **System Freezes or Crashes:**
 - Perform a system restart.
 - Ensure all drivers, especially graphics drivers, are up to date.
 - Check for sufficient ventilation to prevent overheating.
 - Run a diagnostic tool if available through the operating system or BIOS.
- **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.

6. SPECIFICATIONS

Below are the key technical specifications for the HP Z8 G4 Workstation:

Feature	Detail
Brand	HP
Model	Z8 G4 Workstation
Operating System	Windows 11 Pro 64-bit
Processors	2x Intel Xeon Gold 6132 (14-Core each, 2.60GHz base, up to 3.70GHz Turbo)
Memory (RAM)	256GB DDR4
Storage	512GB SSD (boot) + 2TB SSD (storage)
Graphics Card	NVIDIA RTX 2080 8GB GDDR6
Optical Drive	DVD
Power Supply	1450W PSU (90% efficiency)
Connectivity	DisplayPort, HDMI, USB 3.1 Type A, Ethernet, Bluetooth, Wi-Fi (802.11ac)
Dimensions (H x W x D)	17.5 x 8.5 x 21.7 inches (approx.)

7. WARRANTY AND SUPPORT

This renewed product typically includes a minimum 90-day warranty. For specific warranty details, please refer to the documentation provided at the time of purchase or contact your vendor.

For technical support, driver downloads, or further assistance, please visit the official HP support website or contact HP customer service. Have your product model and serial number ready when seeking support.

- **HP Support Website:** www.hp.com/support

