

ZOTAC ZT-B50800D2-10P

ZOTAC Gaming GeForce RTX 5080 Solid Core Graphics Card User Manual

Model: ZT-B50800D2-10P

INTRODUCTION

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of your ZOTAC Gaming GeForce RTX 5080 Solid Core graphics card. Designed for high-performance gaming, this card features the NVIDIA Blackwell architecture, DLSS 4, and advanced IceStorm 3.0 cooling. Please read this manual carefully before installation and use to ensure optimal performance and longevity of your product.

SETUP AND INSTALLATION

Proper installation is crucial for the functionality and stability of your graphics card. Follow these steps carefully:

- 1. Prepare Your System:** Power off your computer and unplug all power cables from the wall outlet. Open your computer case.
- 2. Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.
- 3. Install the Graphics Card:** Carefully align the graphics card with the PCIe x16 slot. Press down firmly and evenly until the card is fully seated in the slot. Ensure the retention clip on the PCIe slot locks into place.
- 4. Secure the Card:** Use screws to secure the graphics card to the PC case's expansion slot bracket.
- 5. Connect Power Cables:** Connect the necessary PCIe power cables from your power supply unit (PSU) to the graphics card's power connectors. This model requires sufficient power input for stable operation. Ensure all connectors are securely attached.
- 6. Install GPU Support Stand:** Utilize the bundled GPU support stand to prevent sag and provide additional stability for the graphics card. Adjust its height to properly support the card.
- 7. Close Case and Connect Peripherals:** Close your computer case, reconnect all power cables, and connect your display cables (HDMI or DisplayPort) to the graphics card's output ports.
- 8. Power On and Install Drivers:** Power on your computer. Once the operating system loads, download and install the latest NVIDIA drivers for your GeForce RTX 5080 from the official NVIDIA website.



Front view of the ZOTAC Gaming GeForce RTX 5080 Solid Core graphics card, showcasing its triple-fan IceStorm 3.0 Advanced Cooling system.



Side view of the graphics card, illustrating the power connectors and the robust design.

OPERATING INSTRUCTIONS

Once installed and drivers are updated, your graphics card is ready for use. Here are some operational guidelines:

- **Driver Updates:** Regularly check for and install the latest NVIDIA GeForce drivers to ensure optimal performance, compatibility, and access to new features.
- **Display Connections:** The card supports up to four displays simultaneously via 3 x DisplayPort 2.1b and 1 x HDMI 2.1b outputs. Connect your monitors to these ports.
- **Multi-Display Setup:** Configure your display settings within your operating system or through the NVIDIA Control Panel for extended desktop, duplicate displays, or surround gaming.
- **ZOTAC FireStorm Utility:** Download and install the ZOTAC FireStorm utility from the ZOTAC website. This software allows you to monitor GPU performance, adjust fan speeds (Active Fan Control), and customize the Spectra RGB lighting.
- **Gaming and Applications:** Ensure your games and applications are configured to utilize the ZOTAC Gaming GeForce RTX 5080 for the best performance.



Back view of the graphics card, showing the metal backplate and structural reinforcement.

MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the lifespan of your graphics card:

- **Dust Removal:** Periodically clean the fans and heatsink of the graphics card using compressed air. Ensure the PC is powered off and unplugged before cleaning. Hold the fan blades gently to prevent them from spinning rapidly during cleaning.
- **Airflow:** Maintain good airflow within your PC case. Ensure case fans are properly oriented and there are no obstructions to air intake or exhaust.
- **Temperature Monitoring:** Use monitoring software (e.g., ZOTAC FireStorm) to keep an eye on GPU temperatures during heavy loads. Excessive temperatures can indicate poor airflow or dust buildup.
- **Fan Control:** The IceStorm 3.0 cooling system features Freeze Fan Stop (fans stop at low temperatures for silent operation) and Active Fan Control (individual fan speed adjustment). Ensure these features are operating correctly or adjust them as needed via the FireStorm utility.

TROUBLESHOOTING

If you encounter issues with your graphics card, consider the following troubleshooting steps:

- **No Display Output:**
 - Ensure display cables are securely connected to both the graphics card and the monitor.
 - Verify the monitor input source is set correctly.
 - Check that the graphics card is fully seated in the PCIe slot and all power connectors are firmly attached.
 - Test with a different display cable or monitor if possible.
- **Driver Issues:**
 - Perform a clean installation of the latest NVIDIA drivers. Use Display Driver Uninstaller (DDU) in Safe Mode to remove old drivers before installing new ones.
 - Ensure your operating system is up to date.
- **Overheating/Performance Drops:**
 - Check GPU temperatures using monitoring software.
 - Clean dust from the graphics card heatsink and fans.
 - Ensure adequate airflow within your PC case.
 - Verify that case fans are functioning correctly.

• **System Instability/Crashes:**

- Ensure your power supply unit (PSU) meets the recommended wattage for the graphics card and your system.
- Check for any loose connections inside the PC.
- If overclocking, revert to default settings to check for stability.

SPECIFICATIONS

Key technical specifications for the ZOTAC Gaming GeForce RTX 5080 Solid Core graphics card:

Feature	Detail
Graphics Coprocessor	NVIDIA GeForce RTX 5080
Brand	ZOTAC
Graphics RAM Size	16 GB GDDR7
Video Output Interface	3 x DisplayPort 2.1b, 1 x HDMI 2.1b
Graphics Card Interface	PCI-Express x16 (PCIe 5.0)
Memory Clock Speed	30 Gbps
GPU Series	NVIDIA RTX 50 Series
Maximum Resolution	7680x4320 (8K Ready)
Dimensions (L x W)	11.95"L x 2.19"W
Model Number	ZT-B50800D2-10P
Item Weight	1480 Grams
Cooling System	IceStorm 3.0 Advanced Cooling (3 x 90mm BladeLink Fans, Steam Chamber, Composite Heatpipes, Pass-Thru Airflow)
Features	DLSS 4, Freeze Fan Stop, Active Fan Control, Spectra RGB Lighting, Metal Backplate, Reinforced Frame Structure, Bundled GPU Support Stand



Angled view of the graphics card, highlighting the fan design and side profile.

WARRANTY INFORMATION

ZOTAC offers an extended warranty for its products. Your ZOTAC Gaming GeForce RTX 5080 Solid Core graphics card may be eligible for a **5-year extended warranty**. Registration is required to activate this extended warranty. Please visit the official ZOTAC website for detailed terms, conditions, and the registration process.



Image indicating the availability of a 5-year extended warranty from ZOTAC. Registration is required.

SUPPORT AND CONTACT

For further assistance, technical support, or warranty claims, please contact ZOTAC directly:

- **Manufacturer:** ZOTAC Technology Limited
- **Address:** 19/F, SHATIN GALLERIA, 18-24 Shan Mei St, Fo Tan, Hong Kong
- **Website:** Visit the official ZOTAC website for support resources, driver downloads, FAQs, and contact information.