

Sapphire RX 7800 XT

Sapphire Pure AMD Radeon RX 7800 XT Gaming OC Graphics Card User Manual

Model: RX 7800 XT (11330-03-20G)

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Sapphire Pure AMD Radeon RX 7800 XT Gaming OC 16GB GDDR6 graphics card. Please read this guide thoroughly before installation and use to ensure proper functionality and longevity of your product.

The Sapphire Pure AMD Radeon RX 7800 XT Gaming OC is a high-performance graphics card designed for gaming and demanding graphical applications. It features 16GB of GDDR6 memory, a 256-bit memory interface, and supports advanced display technologies.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Sapphire Pure AMD Radeon RX 7800 XT Gaming OC Graphics Card
- Support bracket (for weight distribution)
- Documentation (this user manual, safety information)

Note: Additional accessories may vary by region or retailer.

3. SETUP AND INSTALLATION

3.1 System Requirements

- PCI-Express x16 slot on motherboard
- Minimum 750W power supply unit (PSU) recommended, with appropriate 8-pin PCIe power connectors.
- Compatible operating system (e.g., Windows 10/11 64-bit)
- Sufficient case clearance for card dimensions (approximately 26.7 cm L x 13.5 cm W, occupying 2.5 PCIe slots).

3.2 Physical Installation

1. **Power Off:** Turn off your computer and disconnect the power cable from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case.
3. **Locate PCIe Slot:** Identify an available PCI-Express x16 slot on your motherboard. Remove any expansion slot covers that may obstruct the installation.
4. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press it down firmly until it is securely seated. The retention clip on the motherboard should click into place.
5. **Secure Card:** Fasten the graphics card to the case using the screw or latch mechanism provided by your case.
6. **Connect Power:** Connect the required 8-pin PCIe power cables from your power supply to the corresponding connectors on the graphics card. Ensure all connections are firm.
7. **Install Support Bracket:** If included, install the graphics card support bracket to prevent sag and provide additional stability. Follow the instructions provided with the bracket.
8. **Close Case:** Replace the computer case side panel.
9. **Reconnect Power:** Reconnect the power cable to the wall outlet.

3.3 Driver Installation

1. **Power On:** Turn on your computer.
2. **Download Drivers:** Visit the official AMD or Sapphire website to download the latest graphics drivers for your RX 7800 XT.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. It is recommended to perform a clean installation.
4. **Restart:** Restart your computer after the driver installation is complete.

3.4 Connecting Displays

Connect your monitor(s) to the graphics card using DisplayPort or HDMI cables. This card features Dual HDMI and Dual DisplayPort outputs, allowing for flexible multi-monitor setups. Ensure your display cables are securely connected to both the graphics card and your monitor.



Figure 1: Front view of the Sapphire Pure AMD Radeon RX 7800 XT Gaming OC graphics card, showing the three cooling fans.

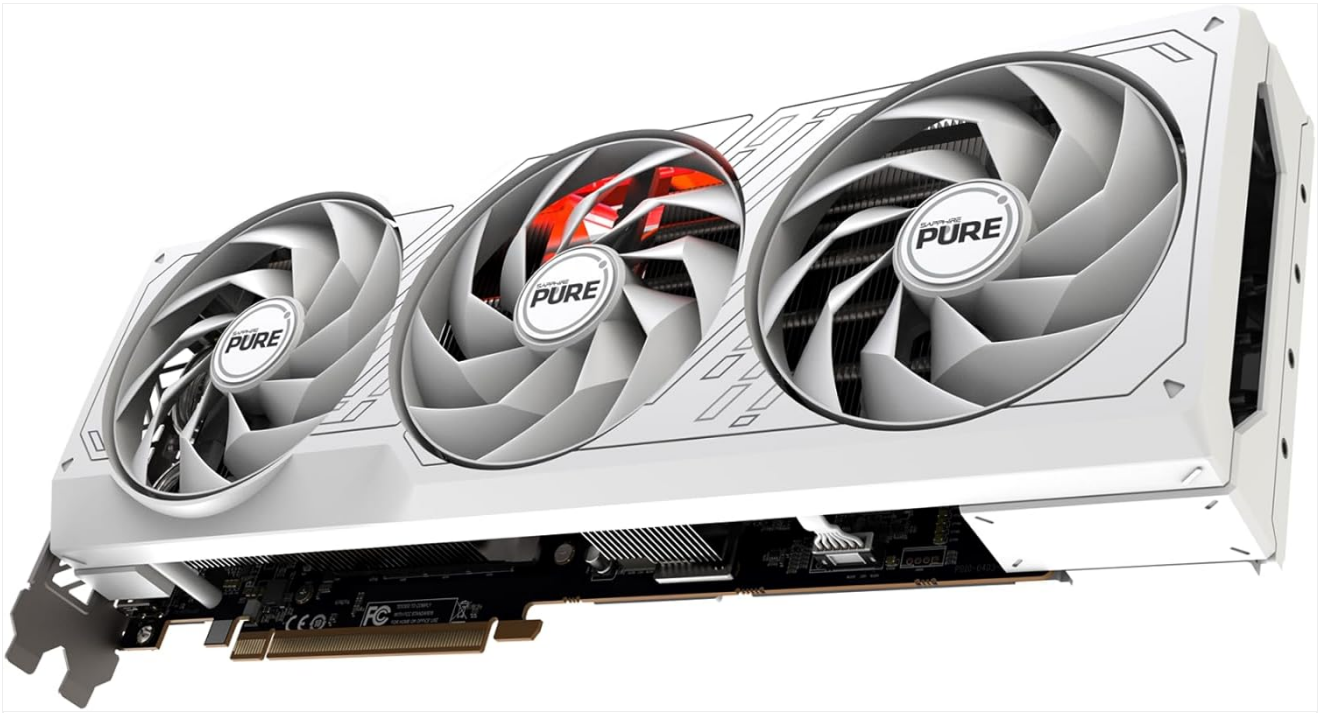


Figure 2: Side view of the Sapphire Pure AMD Radeon RX 7800 XT Gaming OC graphics card, highlighting the cooling fins and power connectors.

4. OPERATING YOUR GRAPHICS CARD

4.1 Basic Operation

Once installed and drivers are updated, your graphics card will automatically handle display output. For optimal performance in games and applications, ensure your system is configured to use the dedicated graphics card.

4.2 AMD Software: Adrenalin Edition

The AMD Software: Adrenalin Edition provides a comprehensive suite of tools for managing your graphics card. This software allows you to:

- Monitor GPU performance and temperatures.
- Adjust game settings for optimal frame rates and visual quality.
- Update drivers.
- Configure display settings, including FreeSync technology.
- Access overlocking features (use with caution).

Refer to the AMD Software: Adrenalin Edition documentation for detailed instructions on using its features.

5. MAINTENANCE

5.1 Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your graphics card. Dust accumulation can impede cooling efficiency.

- **Frequency:** Clean your graphics card every 3-6 months, or more frequently in dusty environments.
- **Procedure:**
 - a. Power off your computer and disconnect the power cable.
 - b. Carefully remove the graphics card from your system (optional, but recommended for thorough cleaning).
 - c. Use compressed air to gently blow dust out of the heatsink fins and fan blades. Hold the fans to prevent them

- from spinning rapidly during cleaning.
- d. Wipe the exterior of the card with a soft, dry, anti-static cloth.
- e. Reinstall the graphics card and reconnect all cables.

5.2 Driver Updates

Keep your graphics drivers updated to ensure compatibility with new games and applications, benefit from performance improvements, and address potential bugs. Check the AMD or Sapphire website regularly for the latest driver releases.

6. TROUBLESHOOTING

If you encounter issues with your graphics card, refer to the following common troubleshooting steps:

- **No Display Output:**

- Ensure the monitor is powered on and connected to the graphics card, not the motherboard's integrated graphics.
- Verify that the graphics card is fully seated in the PCIe slot and all power cables are securely connected.
- Test with a different display cable or monitor if possible.

- **Driver Issues / Instability:**

- Perform a clean reinstallation of the graphics drivers. Use a driver uninstaller utility (e.g., DDU - Display Driver Uninstaller) in Safe Mode to remove old drivers before installing new ones.
- Ensure your operating system is up to date.

- **Poor Performance / Overheating:**

- Check GPU temperatures using AMD Software: Adrenalin Edition. Ensure adequate airflow within your PC case.
- Verify that your power supply unit meets the recommended wattage (750W minimum).
- Clean dust from the graphics card heatsink and fans.
- Ensure your CPU and RAM are not bottlenecking the GPU.

- **Physical Fit Issues:**

- If the card does not fit, check your case dimensions against the card's dimensions (26.7 cm L x 13.5 cm W) and ensure sufficient clearance for its 2.5-slot width.

For persistent issues, consult the Sapphire support website or contact their technical support.

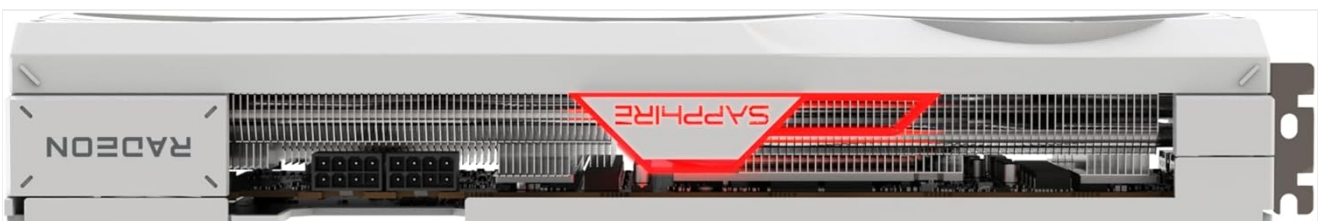


Figure 3: Back view of the Sapphire Pure AMD Radeon RX 7800 XT Gaming OC graphics card, showing the backplate and exhaust vents.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	Sapphire Pure AMD Radeon RX 7800 XT Gaming OC
Model Number	11330-03-20G

Graphics Processor	AMD Radeon RX 7800 XT
GPU Series	AMD Radeon RX 7000 Series
Game Clock	Up to 2169 MHz
Graphics RAM	16 GB GDDR6
Memory Interface	256-bit
Effective Memory Speed	19.5 Gb/s
Video Output Interface	DisplayPort, HDMI (Dual HDMI/Dual DP)
Graphics Card Interface	PCI-Express x16
Maximum Screen Resolution	7680 x 4320
Number of Fans	3
Item Dimensions (L x W)	26.7 cm x 13.5 cm
Item Weight	1400 Grams
Recommended Uses	Videogames
Compatible Devices	Desktop Computer
Manufacturer	Sapphire Technology
Country of Origin	Germany



Figure 4: Retail box of the Sapphire Pure AMD Radeon RX 7800 XT Gaming OC, highlighting key features and specifications.

8. SUPPORT AND WARRANTY

For technical assistance, driver downloads, and warranty information, please visit the official Sapphire website. You may also find additional resources and FAQs there.

Keep your proof of purchase for warranty claims. The warranty period and terms are subject to the policies of Sapphire Technology and your region of purchase.

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