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Sapphire 11309-03-20G

Sapphire Pulse AMD Radeon RX 6600 XT Graphics Card User Manual

Model: 11309-03-20G | Brand: Sapphire

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Sapphire Pulse AMD Radeon RX 6600 XT Gaming Graphics Card. Please read this manual thoroughly before installing and using your new graphics card to ensure proper functionality and to maximize its performance.

The Sapphire Pulse AMD Radeon RX 6600 XT is a high-performance gaming graphics card featuring 8GB GDDR6 memory and built on AMD RDNA 2 architecture, designed to deliver an optimal gaming experience.

2. PRODUCT FEATURES

The Sapphire Pulse AMD Radeon RX 6600 XT graphics card is engineered with advanced features for superior gaming and visual performance:

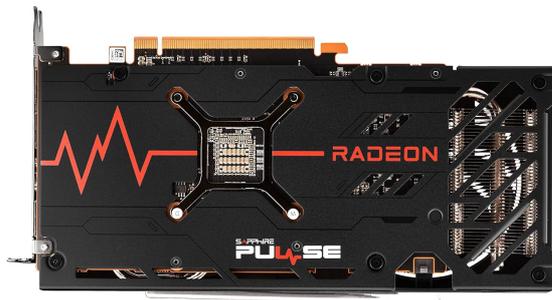
- **Game Clock:** Up to 2382 MHz
- **Boost Clock:** Up to 2593 MHz
- **Memory Interface:** 128-bit GDDR6
- **External Power:** 1 x 8 pin connector required
- **PCI-Express:** 4.0 support



Front view of the Sapphire Pulse AMD Radeon RX 6600 XT graphics card, showcasing its dual-fan cooling system.



Angled view of the graphics card, highlighting the display output ports (3x DisplayPort, 1x HDMI).



Rear view of the graphics card, showing the protective metal backplate with Radeon branding.



Diagram illustrating the Dual-X Cooling Technology and internal components for efficient heat dissipation.

3. SETUP AND INSTALLATION

Before beginning installation, ensure your computer's power supply unit (PSU) meets the recommended wattage for your system, including the new graphics card. A minimum 500W PSU is generally recommended for systems with an RX 6600 XT.

3.1. Physical Installation

1. **Power Off:** Turn off your computer and unplug all power cables.
2. **Open Case:** Open your computer's side panel to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCI-Express x16 slot on your motherboard. The RX 6600 XT supports PCIe 4.0, but is backward compatible with PCIe 3.0 slots.
4. **Remove Slot Covers:** Remove the necessary expansion slot covers from your computer case to accommodate the graphics card.
5. **Insert Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. You should hear a click from the retention clip.
6. **Secure Card:** Use screws to secure the graphics card to the computer case.

7. **Connect Power:** Connect the required 8-pin PCIe power connector from your PSU to the graphics card. Ensure the connection is firm.
8. **Close Case:** Replace the computer's side panel and reconnect all power cables.

3.2. Driver Installation

After physical installation, you must install the latest AMD Radeon drivers for optimal performance and stability:

1. **Boot System:** Power on your computer. It may boot into a lower resolution.
2. **Download Drivers:** Visit the official AMD website (amd.com/en/support) and download the latest AMD Adrenalin Edition drivers for your Radeon RX 6600 XT.
3. **Install Drivers:** Run the downloaded installer and follow the on-screen instructions. A system restart may be required.

4. OPERATING INSTRUCTIONS

4.1. Connecting Displays

Connect your monitor(s) to the graphics card's output ports. The Sapphire Pulse RX 6600 XT typically features 3x DisplayPort and 1x HDMI output. Ensure your display cables are securely connected to both the graphics card and your monitor.

4.2. Software Configuration

Utilize the AMD Adrenalin Edition software to manage your graphics card settings. This software allows you to:

- Adjust display resolution (up to 3840x2160).
- Configure game-specific profiles.
- Monitor GPU performance and temperature.
- Update drivers.

5. MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from the graphics card's fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Case Airflow:** Maintain good airflow within your computer case by keeping it clean and ensuring all case fans are functioning correctly.
- **Driver Updates:** Keep your graphics drivers updated to the latest version from the official AMD website.

6. TROUBLESHOOTING

6.1. No Display Output

- Ensure the graphics card is fully seated in the PCIe slot.
- Verify that the 8-pin external power connector is securely attached.
- Check that your display cable is correctly connected to both the graphics card and the monitor.
- Confirm your monitor is set to the correct input source.

6.2. Performance Issues / Low FPS

- Ensure you have the latest AMD Radeon drivers installed.
- Check your in-game graphics settings; try reducing them if performance is consistently low.
- Monitor GPU temperature to ensure it's not overheating, which can lead to throttling.
- Verify your system meets the recommended specifications for the games you are playing.

6.3. Audio Crackling (after AMD driver installation)

- This can sometimes occur after installing AMD drivers.
- Go to Windows Update settings and install all available optional updates. This often resolves audio-related issues by providing necessary system or driver patches.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Sapphire
Model Number	11309-03-20G
Graphics Coprocessor	AMD Radeon RX 6600 XT
Chipset Brand	AMD
Graphics Card RAM Size	8 GB GDDR6
Memory Speed	2 GHz
Max Screen Resolution	3840x2160
Video Output Interface	DisplayPort, HDMI
Item Weight	2.07 pounds
Product Dimensions (LxWxH)	11.25 x 6.5 x 3.5 inches
PCI-Express Version	4.0
External Power Connector	1 x 8 pin

8. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Sapphire Technology website or contact their customer service. Keep your proof of purchase for warranty claims.

Sapphire Official Website: www.sapphiretech.com