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› [Sapphire](#) /

› [Sapphire Radeon Pulse RX 5700 XT BE Graphics Card User Manual](#)

Sapphire 11293-09-20G

Sapphire Radeon Pulse RX 5700 XT BE Graphics Card User Manual

Model: 11293-09-20G

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Sapphire Radeon Pulse RX 5700 XT BE graphics card. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.



Image 1.1: Front view of the Sapphire Radeon Pulse RX 5700 XT BE Graphics Card, showcasing its dual-fan cooling system and black shroud design.

2. SAFETY INFORMATION

Observe the following safety precautions during installation and operation:

- Always disconnect the power supply from your computer before installing or removing any components.

- Wear an anti-static wrist strap or frequently touch a grounded metal object to prevent electrostatic discharge (ESD) damage to components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Do not attempt to modify the graphics card. Unauthorized modifications may void your warranty and cause damage.
- Keep the graphics card away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Sapphire Radeon Pulse RX 5700 XT BE Graphics Card
- User Manual (this document)



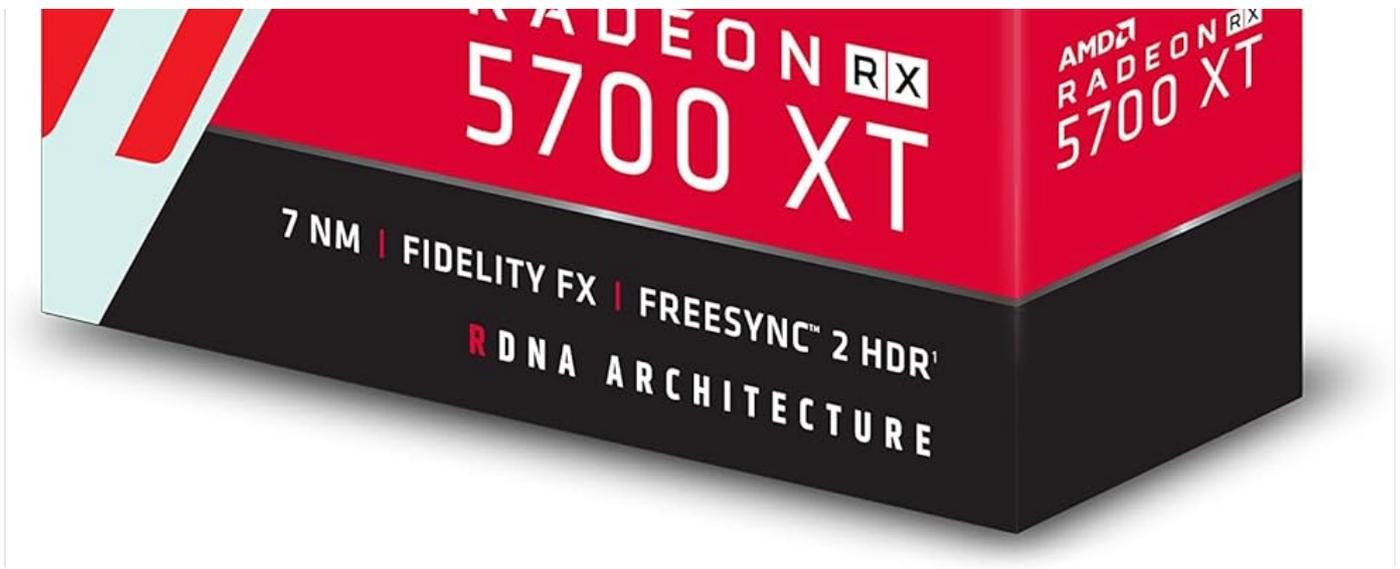


Image 3.1: Retail packaging for the Sapphire Radeon Pulse RX 5700 XT BE Graphics Card, displaying product branding and key features.

4. SETUP AND INSTALLATION

4.1 System Requirements

Before installation, ensure your system meets the following minimum requirements:

- PCI Express-enabled motherboard with one x16 graphics slot.
- Sufficient power supply unit (PSU) with appropriate PCIe power connectors.
- Minimum 8GB system memory (RAM).
- Supported operating system (e.g., Windows 10 64-bit).
- Internet connection for driver download and updates.

4.2 Physical Installation

1. **Prepare your computer:** Turn off your computer and disconnect the power cable from the wall outlet. Open the computer case.
2. **Locate the PCIe slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that may be blocking the slot.
3. **Insert the graphics card:** Carefully align the graphics card with the PCIe slot and press it firmly until it is securely seated. Ensure the retention clip on the motherboard engages.
4. **Secure the card:** Use a screw to fasten the graphics card bracket to the computer case.
5. **Connect power cables:** Connect the required PCIe power cables from your power supply to the graphics card. The Sapphire Radeon Pulse RX 5700 XT BE typically requires one 8-pin and one 6-pin PCIe power connector.



Image 4.1: Side view of the graphics card, highlighting the PCIe power input connectors (8-pin and 6-pin) required for operation.

6. **Close the case:** Once the card is securely installed and powered, close your computer case.

7. **Reconnect power:** Reconnect the power cable to your computer and turn it on.

4.3 Driver Installation

After physical installation, you must install the latest drivers for your graphics card:

1. **Download drivers:** Visit the official AMD website (www.amd.com/en/support) and download the latest Radeon Software Adrenalin Edition drivers for the RX 5700 XT.
2. **Install drivers:** Run the downloaded installer and follow the on-screen instructions. It is recommended to perform a clean installation to avoid conflicts with previous drivers.
3. **Restart computer:** After the installation is complete, restart your computer.

5. OPERATING THE GRAPHICS CARD

5.1 Connecting Displays

The Sapphire Radeon Pulse RX 5700 XT BE features multiple display outputs:

- 1 x HDMI port
- 3 x DisplayPort (DP) ports

Connect your monitor(s) to the appropriate ports on the graphics card using compatible cables. The card supports up to 4 displays simultaneously.



Image 5.1: Angled view of the graphics card, illustrating the various display output ports including HDMI and DisplayPort connectors.

5.2 AMD Radeon Software

The AMD Radeon Software provides a comprehensive interface for managing your graphics card settings, including:

- **Gaming:** Optimize game settings, monitor performance, and record gameplay.
- **Performance:** Adjust clock speeds, fan curves, and power limits.
- **Display:** Configure display settings, FreeSync, and resolution.
- **Updates:** Check for and install the latest driver updates.

Familiarize yourself with the Radeon Software to customize your experience and ensure optimal performance.

6. MAINTENANCE

6.1 Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your graphics card:

- **Dust removal:** Periodically use compressed air to remove dust from the heatsink fins and fan blades. Ensure the fans are held stationary while blowing air to prevent damage.
- **Exterior cleaning:** Wipe the exterior of the card with a soft, dry, anti-static cloth.
- **Frequency:** Clean your graphics card every 3-6 months, or more frequently if your environment is dusty.



Image 6.1: Top view of the graphics card, showing the fan assembly and heatsink, areas that require regular dust removal.

6.2 Driver Updates

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

7. TROUBLESHOOTING

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

- **No display output:**
 - Ensure the monitor is connected to the graphics card, not the motherboard's integrated graphics port.
 - Verify all power cables (PCIe and motherboard) are securely connected.
 - Reseat the graphics card in its PCIe slot.
 - Test with a different display cable or monitor.
- **Performance issues (low FPS, stuttering):**
 - Ensure you have the latest graphics drivers installed.
 - Check for background applications consuming system resources.
 - Monitor GPU temperatures to ensure it's not overheating (use AMD Radeon Software).
 - Verify your system meets the game's recommended specifications.
- **Overheating:**
 - Ensure adequate airflow in your computer case.
 - Clean dust from the graphics card fans and heatsink.
 - Adjust fan curves in AMD Radeon Software for more aggressive cooling.
- **Driver crashes or instability:**
 - Perform a clean reinstallation of the graphics drivers.
 - Ensure your operating system is up to date.
 - Check for conflicts with other software.

For further assistance, refer to the official Sapphire support website or AMD support resources.

8. SPECIFICATIONS

Feature	Specification
Model Number	11293-09-20G
Graphics Processor	AMD Radeon Navi (RX 5700 XT)
Memory	8 GB GDDR6
Memory Speed	14 GHz
Base Clock	1670 MHz
Game Clock	Up to 1815 MHz
Boost Clock	Up to 1925 MHz
Max Screen Resolution	7680x4320
Output Ports	1 x HDMI, 3 x DisplayPort
Interface	PCIe 4.0

Feature	Specification
Cooling Technology	Dual-X Cooling Technology
Dimensions (LxWxH)	12.5 x 8.5 x 2.75 inches
Item Weight	2.44 pounds

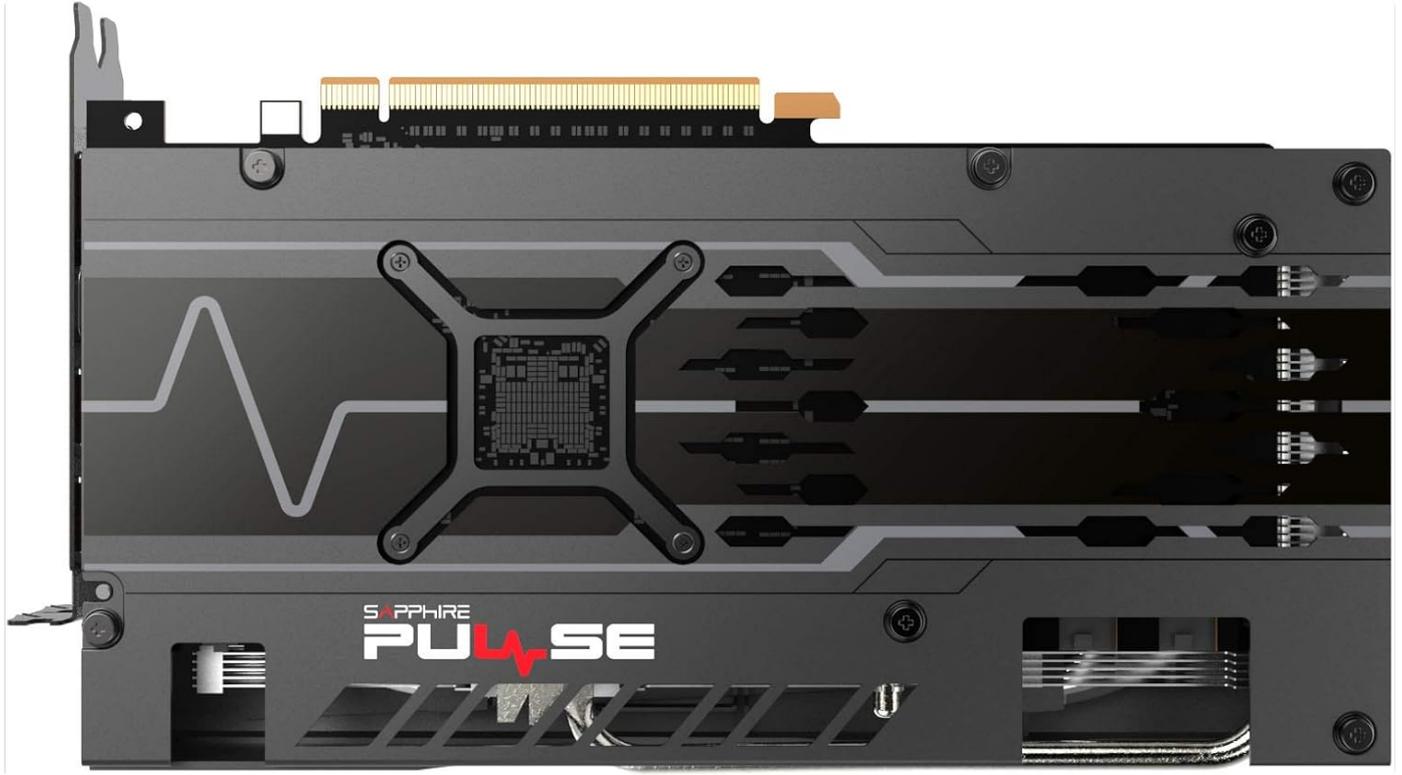


Image 8.1: Rear view of the graphics card, showing the protective backplate and overall card length.

9. WARRANTY AND SUPPORT

Sapphire Technology products are covered by a limited warranty. For detailed warranty information, terms, and conditions, please refer to the warranty card included with your product or visit the official Sapphire website.

For technical support, driver downloads, and frequently asked questions, please visit the Sapphire support portal:

www.sapphiretech.com/en/support