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› ASRock Radeon RX 7600 Steel Legend 8GO Graphics Card User Manual

## ASRock RX 7600 Steel Legend 8GO

# ASRock Radeon RX 7600 Steel Legend 8GO Graphics Card User Manual

Model: RX7600 SL 8GO

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your ASRock Radeon RX 7600 Steel Legend 8GO graphics card. Please read this manual thoroughly before installation to ensure proper setup and optimal performance. Keep this manual for future reference.

## 2. PRODUCT OVERVIEW

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The ASRock Radeon RX 7600 Steel Legend 8GO is a high-performance graphics card designed for gaming and professional applications, featuring AMD RDNA 3 architecture and advanced cooling solutions.

### Key Features:

- **GPU:** AMD Radeon RX 7600
- **Memory:** 8GB GDDR6 on 128-Bit Memory Bus
- **Boost Clock:** Up to 2725 MHz / 18 Gbps
- **Game Clock:** 2320 MHz / 18 Gbps
- **Compute Units:** 32 AMD RDNA 3 (with RT+AI Accelerators)
- **Infinity Cache:** 32MB AMD Infinity Cache technology
- **Display Outputs:** 3 x DisplayPort 2.1, 1 x HDMI 2.1
- **Interface:** PCI Express 4.0 Support
- **Power Connector:** 1 x 8-pin
- **Cooling:** Triple Fan Design with 0dB Silent Cooling
- **Aesthetics:** Polychrome SYNC RGB, Stylish Metal Backplate

### Product Images:



Figure 2.1: The ASRock Radeon RX 7600 Steel Legend 8GO graphics card shown with its retail packaging.

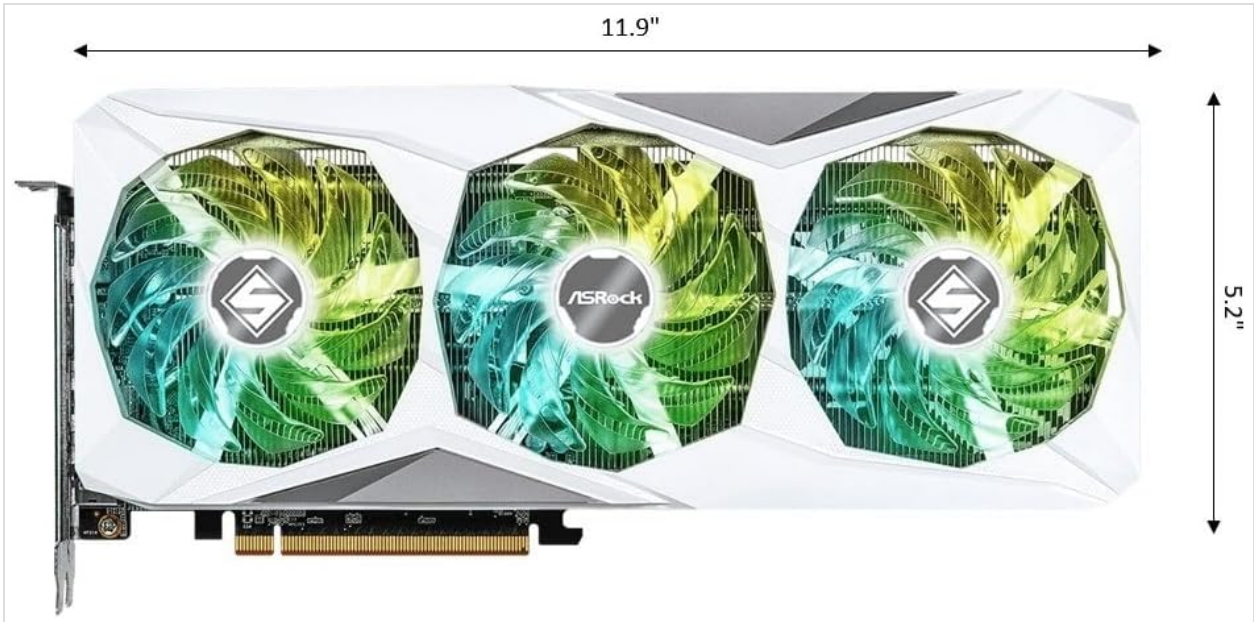


Figure 2.2: Top-down view of the graphics card illustrating its dimensions, approximately 11.9 inches in length and 5.2 inches in height.

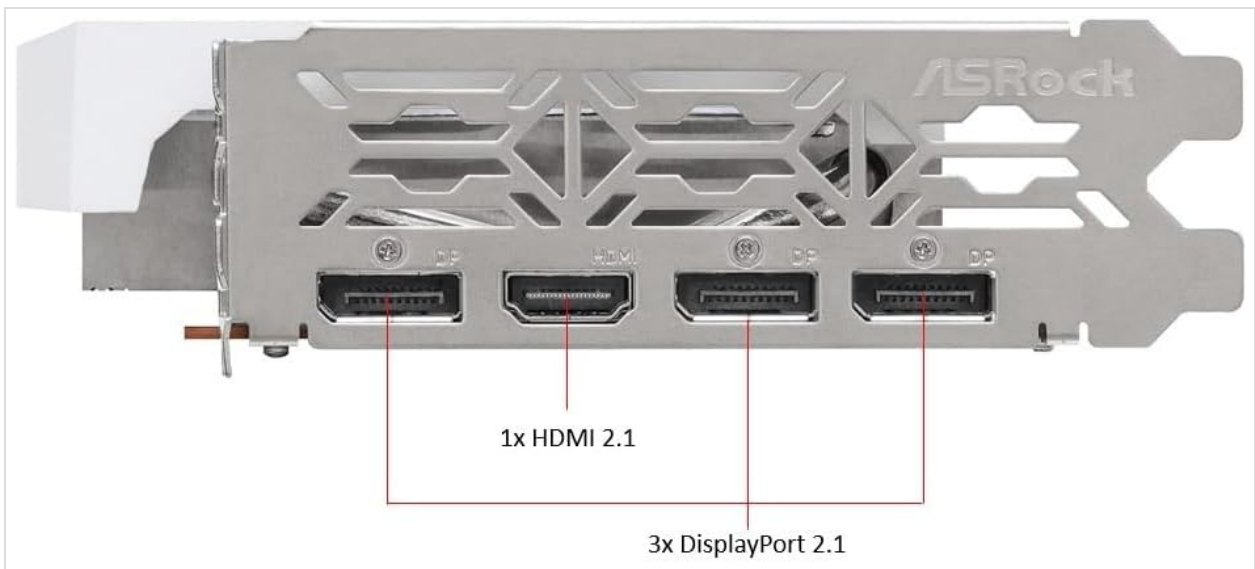


Figure 2.3: Close-up view of the graphics card's display output ports, including three DisplayPort 2.1 connectors and one HDMI 2.1 connector.

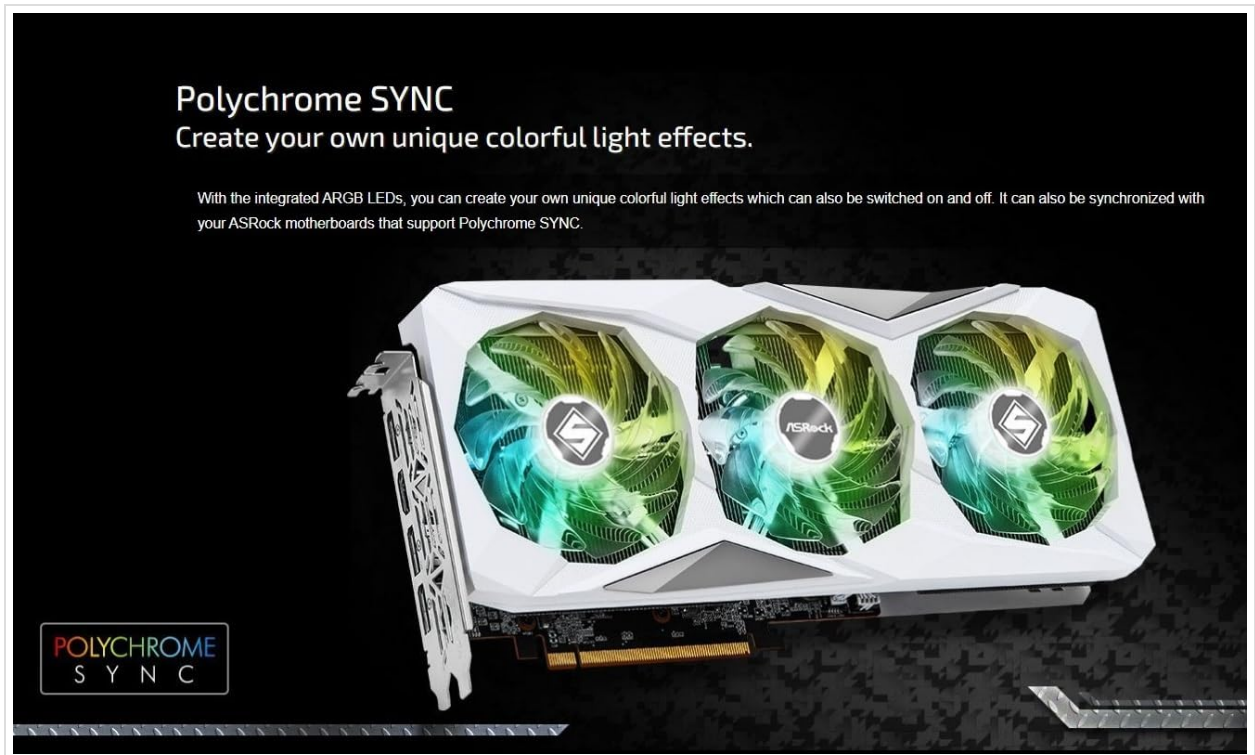


Figure 2.4: The graphics card showcasing its Polychrome SYNC RGB lighting on the fans, allowing for customizable light effects.

## Stylish Metal Backplate Solid, Fancy, Cool.

Designed to avoid PCB bending. The fancy outlook makes the graphic card more legendary in visual. It also helps to enhance cooling with the premium thermal pads equipped backside.



Figure 2.5: Rear view of the graphics card highlighting its stylish metal backplate, designed for structural integrity and enhanced cooling.

## Triple Fan Design

Triple fan design helps to optimize system cooling to reduce the operating temperature.

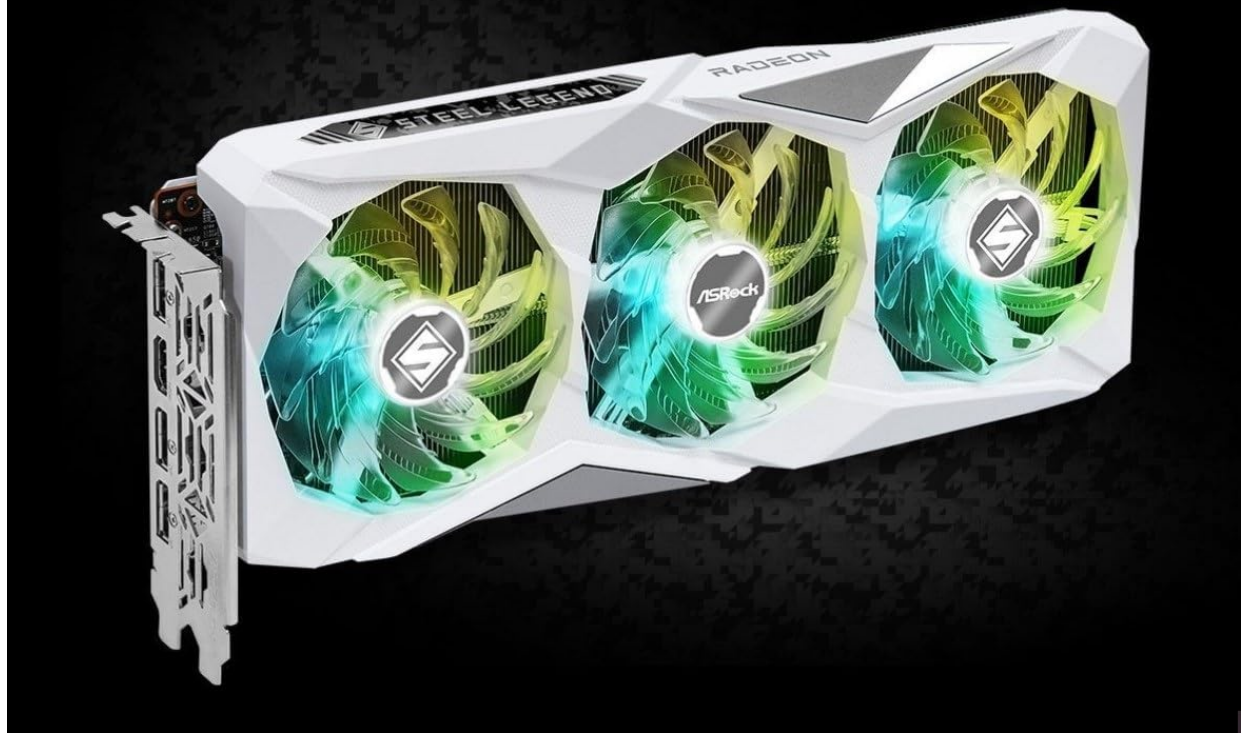


Figure 2.6: The graphics card's triple fan design, engineered to optimize system cooling and reduce operating temperatures.

## 0dB Silent Cooling

### Spin For Cooling, Stop For Silence.

The fan spins when the temperature goes high for the optimal cooling, and stops when the temperature goes low for the complete silence.

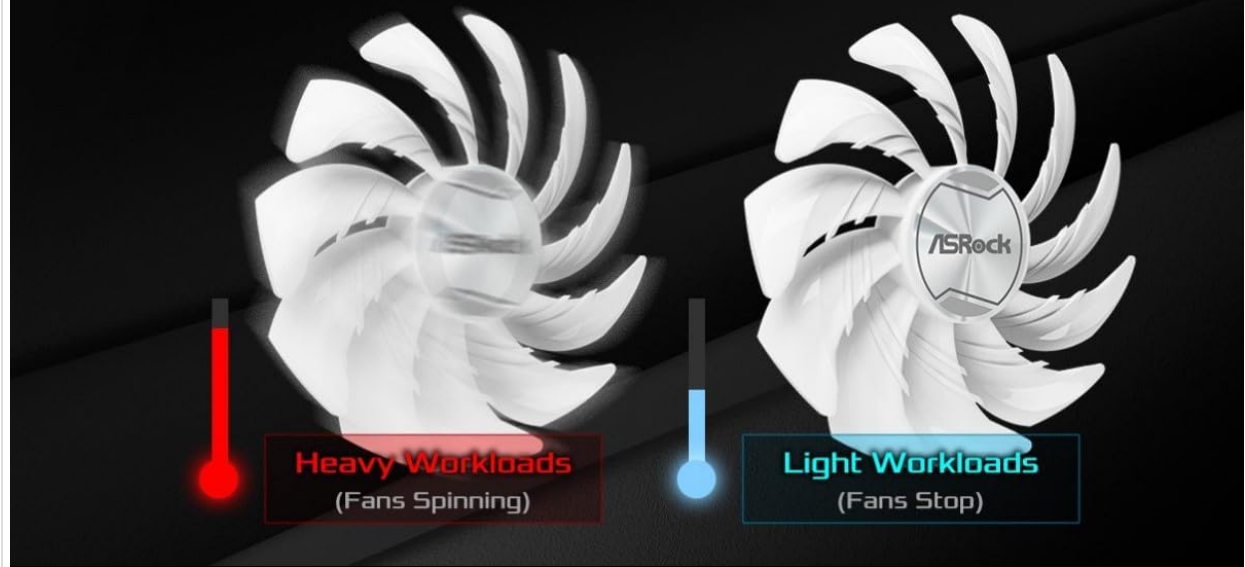


Figure 2.7: Illustration of the 0dB Silent Cooling feature, showing fans spinning under heavy workloads and stopping during light workloads for silent operation.

## 3. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and in good condition. The standard package for the ASRock Radeon RX 7600 Steel Legend 8GO includes:

- ASRock Radeon RX 7600 Steel Legend 8GO Graphics Card

## 4. SETUP

### 4.1 Physical Installation

1. **Safety First:** Before beginning installation, ensure your computer is powered off and unplugged from the wall outlet. Discharge any static electricity by touching a grounded metal object.
2. **Open PC Case:** Carefully open your computer's side panel to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCI Express 4.0 x16 slot on your motherboard. This is typically the longest slot.
4. **Remove Slot Covers:** Remove the necessary expansion slot covers from your PC case that correspond to the graphics card's bracket.
5. **Insert Graphics Card:** Align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip on the PCIe slot locks into place.
6. **Secure Card:** Fasten the graphics card to the PC case using the screws from the expansion slot covers.
7. **Connect Power:** Connect the 8-pin PCIe power connector from your power supply unit (PSU) to the corresponding port on the graphics card. Ensure a firm connection.
8. **Close PC Case:** Replace the side panel of your computer case.

## 4.2 Driver Installation

1. **Power On:** Plug in your computer and power it on. Connect your monitor to one of the graphics card's display outputs.
2. **Initial Boot:** Your operating system may boot with a basic display driver.
3. **Download Drivers:** Visit the official ASRock website or AMD's official website to download the latest drivers for the Radeon RX 7600 series.
4. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. A system restart may be required after installation.
5. **Verify Installation:** After restarting, open the AMD Adrenalin Software (or Device Manager) to confirm that the graphics card drivers are correctly installed and recognized.

## 5. OPERATING

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### 5.1 Display Connections

The ASRock Radeon RX 7600 Steel Legend 8GO supports multiple display configurations. Connect your monitors to the available ports:

- **DisplayPort 2.1:** Use for high-resolution and high-refresh-rate monitors. The card features three DisplayPort 2.1 outputs.
- **HDMI 2.1:** Use for monitors or TVs that support HDMI. The card features one HDMI 2.1 output.

The card supports resolutions up to 7680x4320 pixels.

### 5.2 Software Configuration

Utilize the AMD Adrenalin Software for comprehensive control over your graphics card settings, including:

- **Gaming Profiles:** Optimize settings for specific games.
- **Performance Monitoring:** Track GPU usage, temperature, and clock speeds.
- **Display Settings:** Adjust resolution, refresh rate, and color settings.
- **Overclocking:** Fine-tune GPU and memory clocks for enhanced performance (advanced users).

For RGB lighting customization, use the ASRock Polychrome SYNC software, which allows you to create unique colorful light effects and synchronize them with compatible ASRock motherboards.

## 6. MAINTENANCE

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### 6.1 Cooling System

The graphics card features a **Triple Fan Design** to optimize system cooling and reduce operating temperatures. It also incorporates **0dB Silent Cooling**, where the fans will stop spinning during light workloads to provide complete silence and only activate when the temperature rises under heavy loads. Ensure adequate airflow within your PC case by maintaining proper cable management and ensuring case fans are correctly oriented.

### 6.2 Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your graphics card. Periodically, with the computer powered off and unplugged:

- Use compressed air to gently remove dust from the heatsink fins and fan blades.
- Avoid touching the fan blades directly or applying excessive force.
- Do not use liquid cleaners directly on the card.

## 7. TROUBLESHOOTING

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

- **No Display Output:**
  - Ensure the monitor cable is securely connected to both the graphics card and the monitor.
  - Verify the 8-pin PCIe power connector is fully seated in the graphics card.
  - Check if your monitor is set to the correct input source.
  - Try a different display output port or cable.
- **Driver Issues:**
  - Perform a clean installation of the latest graphics drivers from the ASRock or AMD website.
  - Ensure your operating system is up to date.
- **Performance Problems:**
  - Monitor GPU temperature to ensure it is not overheating.
  - Close unnecessary background applications.
  - Verify your power supply unit (PSU) meets the recommended wattage for your system.

For further assistance, consult the ASRock support website or contact their customer service.

## 8. SPECIFICATIONS

<b>Brand</b>	ASRock
<b>Model Number</b>	RX7600 SL 8GO
<b>Series</b>	RX 7600 STEEL LEGEND White 8GB OC
<b>GPU</b>	AMD Radeon RX 7600
<b>Graphics RAM</b>	8 GB GDDR6
<b>Memory Bus</b>	128-Bit
<b>Boost Clock</b>	Up to 2725 MHz
<b>Game Clock</b>	2320 MHz
<b>Compute Units</b>	32 AMD RDNA 3 (with RT+AI Accelerators)
<b>Infinity Cache</b>	32MB
<b>Max Resolution</b>	7680x4320 Pixels
<b>Interface</b>	PCI Express 4.0 x8

<b>Power Connector</b>	1 x 8-pin
<b>Video Output</b>	3 x DisplayPort 2.1, 1 x HDMI 2.1
<b>Product Weight</b>	830 Grams
<b>Recommended Uses</b>	Desktop, Gaming, Professional

## 9. WARRANTY AND SUPPORT

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### 9.1 Manufacturer Warranty

This ASRock graphics card comes with a **2-year manufacturer warranty**. Please retain your proof of purchase for warranty claims.

### 9.2 Technical Support

For technical assistance, driver updates, or further product information, please visit the official ASRock website:

[www.asrock.com](http://www.asrock.com)

You may also find helpful resources and FAQs on the AMD support website for Radeon graphics products.