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## ASRock 90-GA2RZZ-00UANF

# ASRock RX 6600 8GB CLD Challenger D Graphics Card User Manual

Model: 90-GA2RZZ-00UANF | Brand: ASRock

## INTRODUCTION

The ASRock AMD Radeon RX 6600 Challenger D graphics card is designed to deliver robust 1080p gaming performance and high frame rates. It features PCI-e 4.0 support, a dual-fan cooling solution, a metal backplate, and 0dB silent cooling technology. This manual provides essential information for the proper installation, operation, and maintenance of your graphics card.

## WHAT'S IN THE BOX

- Graphics Card
- Manual

## FEATURES

- AMD Radeon RX 6600 GPU: Built on RDNA 2 architecture, delivering excellent 1080p gaming performance with high efficiency.
- 8GB GDDR6 Memory: Provides smooth gameplay and multitasking with fast data transfer rates.
- Challenger D Cooling: Features a dual-fan design for effective heat dissipation and quiet operation.
- PCIe 4.0 Support: Ensures high bandwidth for improved gaming and productivity performance.
- Multiple Display Outputs: Includes 1x HDMI 2.1 and 3x DisplayPort 1.4 for versatile connectivity.
- AMD FidelityFX Super Resolution (FSR): Enhances performance and image quality in supported games.
- Durable Build: High-quality components ensure reliability and longevity for gaming and creative workloads.
- Dimensions: 10.59 x 5.20 x 1.61 inches

## PRODUCT OVERVIEW





Rear view of the graphics card, showing the 1x HDMI 2.1 and 3x DisplayPort 1.4 outputs.



Physical dimensions of the graphics card: 10.59 inches (length) x 5.2 inches (width) x 1.61 inches (height).



Illustration of the 0dB Silent Cooling technology, where fans stop under light workloads for quiet operation and spin under heavy workloads for optimal cooling.

## SETUP

### 1. Pre-Installation

- Ensure your computer is powered off and unplugged from the wall outlet.
- Discharge static electricity by touching a grounded metal object before handling the graphics card.
- Open your computer case and locate an available PCI Express x16 slot.

### 2. Physical Installation

1. Carefully align the graphics card with the PCI Express x16 slot and press down firmly until it is securely seated.
2. Secure the graphics card to the computer case with the appropriate screws.
3. Connect the required power cables from your power supply unit (PSU) to the graphics card. Refer to your PSU manual for correct cable identification.
4. Close your computer case.

### 3. Driver Installation

1. Connect your display cable (HDMI or DisplayPort) from the graphics card to your monitor.
2. Power on your computer.
3. Once the operating system loads, download the latest AMD Radeon drivers from the official ASRock website or AMD's official website.

4. Follow the on-screen instructions to complete the driver installation. A system restart may be required.

## OPERATING

After successful installation, your ASRock RX 6600 graphics card is ready for use. For optimal performance, ensure your drivers are always up to date. AMD provides the Adrenalin Software, which allows you to monitor performance, adjust settings, and access features like AMD FidelityFX Super Resolution (FSR).

- **Driver Updates:** Regularly check for new driver releases from AMD to benefit from performance improvements and bug fixes.
- **Display Configuration:** Use your operating system's display settings or the AMD Adrenalin Software to configure display resolution, refresh rate, and multiple monitor setups.
- **Gaming Settings:** Adjust in-game graphics settings to balance visual quality and frame rate according to your preferences and the game's requirements.

## SPECIFICATIONS

Attribute	Value
Max Screen Resolution	7680x4320 Pixels
RAM	8 GB
Memory Speed	14000 MHz
Graphics Coprocessor	AMD Radeon RX 6600
Chipset Brand	AMD
Card Description	Dedicated
Graphics Card Ram Size	8 GB
Brand	ASRock
Series	ASRock RX 6600 8GB CLD Challenger D
Item model number	90-GA2RZZ-00UANF
Item Weight	1.1 pounds
Product Dimensions	10.59 x 5.2 x 1.61 inches
Color	Black
Manufacturer	ASROCK
Date First Available	October 20, 2021

## MAINTENANCE

Proper maintenance can extend the lifespan and ensure consistent performance of your graphics card.

- **Dust Cleaning:** Periodically clean dust from the graphics card fans and heatsink using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Airflow:** Ensure good airflow within your computer case to prevent heat buildup.
- **Driver Management:** Keep your graphics drivers updated, but avoid beta drivers unless you are troubleshooting a specific issue.

## TROUBLESHOOTING

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If you encounter issues with your graphics card, consider the following common solutions:

- **No Display:**
  - Ensure the display cable is securely connected to both the graphics card and the monitor.
  - Verify that the graphics card is fully seated in the PCIe slot and all power connectors are attached.
  - Test with a different display cable or monitor if possible.
- **Driver Issues:**
  - Perform a clean installation of the graphics drivers. Uninstall existing drivers before installing new ones.
  - Ensure you are downloading the correct drivers for your operating system and graphics card model.
- **Performance Problems (Low FPS, Stuttering):**
  - Check for overheating. Monitor GPU temperatures using software like AMD Adrenalin. Ensure proper case airflow.
  - Verify that your power supply unit (PSU) meets the minimum wattage requirements for your system, including the graphics card.
  - Close unnecessary background applications.
- **System Instability/Crashes:**
  - Ensure your system's BIOS/UEFI is up to date.
  - Check for conflicts with other hardware components or software.

## WARRANTY AND SUPPORT

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ASRock provides a standard warranty for its products. For specific warranty terms and conditions, please refer to the warranty information included with your product or visit the official ASRock website. Keep your proof of purchase for warranty claims.

### Protection Plans

- **3-Year Protection Plan:** Available for extended coverage.
- **4-Year Protection Plan:** Available for extended coverage.
- **Complete Protect:** A monthly plan covering eligible past and future purchases.

For technical support or warranty inquiries, please contact ASRock customer service through their official website or the contact information provided in your product documentation. When contacting support, have your product model number (90-GA2RZZ-00UANF) and serial number ready.

