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> [QTHREE Radeon RX 590 GME Graphics Card User Manual](#)

QTHREE RX 590 GME 8G

QTHREE Radeon RX 590 GME Graphics Card User Manual

Model: RX 590 GME 8G

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your QTHREE Radeon RX 590 GME Graphics Card. Please read this manual thoroughly before installation and retain it for future reference.



Image 1.1: QTHREE Radeon RX 590 GME Gaming Graphics Card overview.

2. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package:

- 1 x QTHREE Radeon RX 590 GME Graphics Card

3. SYSTEM REQUIREMENTS

Before installing the graphics card, ensure your system meets the following minimum requirements:

- **Motherboard:** PCI Express x16 3.0 slot available.
- **Power Supply:** Minimum 500W power supply with one 6-pin or 8-pin PCIe power connector.
- **Operating System:** Windows 7/10/11 (64-bit recommended). **Note:** Not compatible with macOS.
- **Case:** Standard ATX or larger PC case. **Note:** Not compatible with Small Form Factor (SFF) cases due to card dimensions.
- **Display:** Monitor with DisplayPort, HDMI, or DVI input.

4. INSTALLATION

Follow these steps to install your QTHREE Radeon RX 590 GME Graphics Card:

1. Prepare Your System:

- Turn off your computer and disconnect the power cable from the wall outlet.
- Open your computer case.
- Ground yourself to discharge any static electricity (e.g., by touching a metal part of the case).

2. Remove Old Graphics Card (if applicable):

- If you have an existing graphics card, carefully disconnect any power cables and display cables.
- Unscrew the retaining screw(s) holding the card to the case.
- Press the PCIe slot retention clip and gently pull the old card straight out of the slot.

3. Install the New Graphics Card:

- Locate an available PCI Express x16 slot on your motherboard.
- Remove the corresponding expansion slot cover(s) from your computer case.
- Align the graphics card with the PCIe slot and press it firmly and evenly until it is fully seated. You should hear a click from the retention clip.
- Secure the graphics card to the case with the retaining screw(s).



4. Connect Power:

- Connect the 6-pin or 8-pin PCIe power cable from your power supply to the corresponding connector on the graphics card. Ensure it is securely connected.



Image 4.2: The 8-pin power connector on the graphics card for external power.

5. Connect Display Cables:

- Connect your monitor(s) to the DisplayPort, HDMI, or DVI ports on the graphics card.



Image 4.3: The output ports (DisplayPort, HDMI, DVI) supporting multi-monitor setups.

6. Close Case and Power On:

- Close your computer case and reconnect the power cable.
- Turn on your computer.

5. DRIVER INSTALLATION

After physical installation, you must install the appropriate drivers for the graphics card to function correctly.

1. **Boot into Operating System:** Your computer should boot up, possibly with a basic display driver.
2. **Download Drivers:** Navigate to the official AMD website to download the latest drivers for the Radeon RX 590 GME. It is recommended to download the Adrenalin Edition drivers for optimal performance and features.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. A system restart may be required after installation.

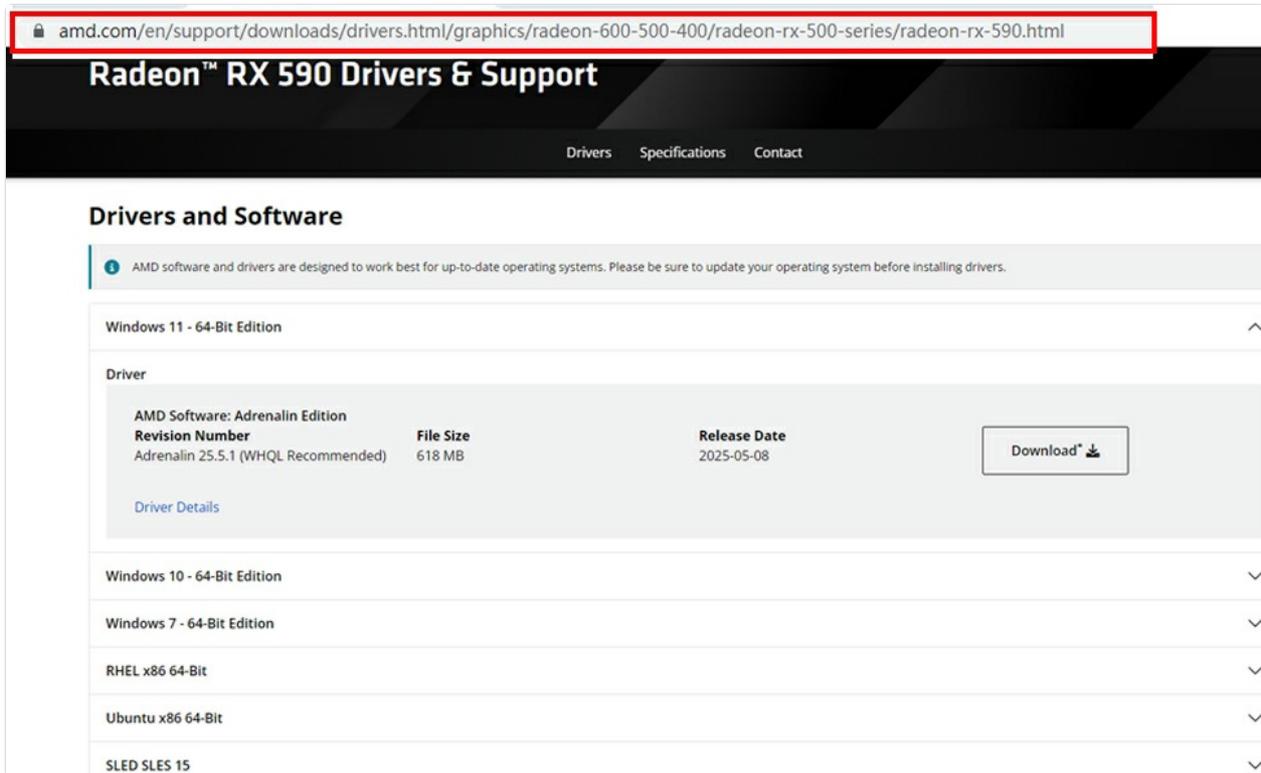


Image 5.1: Example of the AMD support page for downloading Radeon RX 590 series drivers.

6. OPERATING INSTRUCTIONS

Once drivers are installed, your graphics card is ready for use. The AMD Radeon software provides various settings for optimizing performance, display, and other features.

- **Multi-Monitor Setup:** The card supports up to three displays simultaneously. You can configure display settings through your operating system's display settings or the AMD Radeon software.
- **Gaming and Applications:** The card is designed for gaming and demanding graphical applications. Ensure your games and software are updated for best compatibility and performance.

7. MAINTENANCE

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

- **Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Airflow:** Ensure adequate airflow within your computer case to prevent overheating. Keep the area around your computer clear of obstructions.
- **Driver Updates:** Regularly check the AMD website for updated drivers to ensure optimal performance and stability.

All-aluminum Heatsink & Heat-pipe design

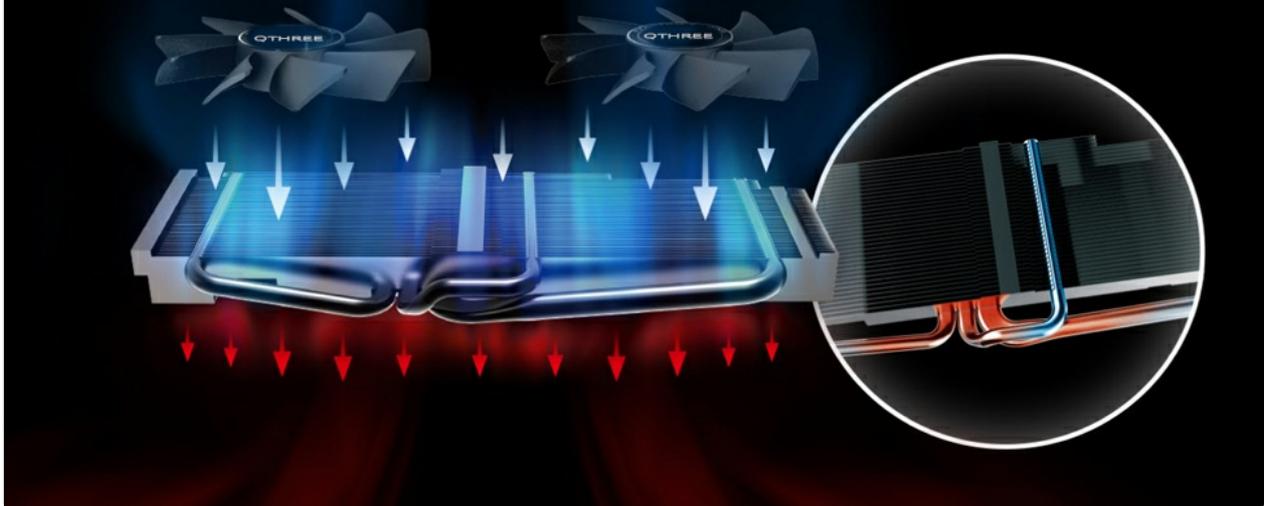


Image 7.1: Illustration of the graphics card's cooling system, featuring an all-aluminum heatsink and heat pipes.

8. TROUBLESHOOTING

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

- **No Display:**

- Ensure the monitor is connected to the graphics card, not the motherboard's integrated graphics port.
- Verify all power cables (including the PCIe power connector) are securely attached.
- Reseat the graphics card in its PCIe slot.
- Test with a different display cable or monitor.

- **Driver Issues:**

- If you experience crashes or graphical anomalies, ensure you have the latest drivers installed from the official AMD website.
- Consider using a driver uninstaller utility (e.g., DDU) to completely remove old drivers before installing new ones.

- **Overheating:**

- Check fan operation on the graphics card.
- Ensure proper case airflow and clean any dust buildup.
- Monitor temperatures using software utilities.

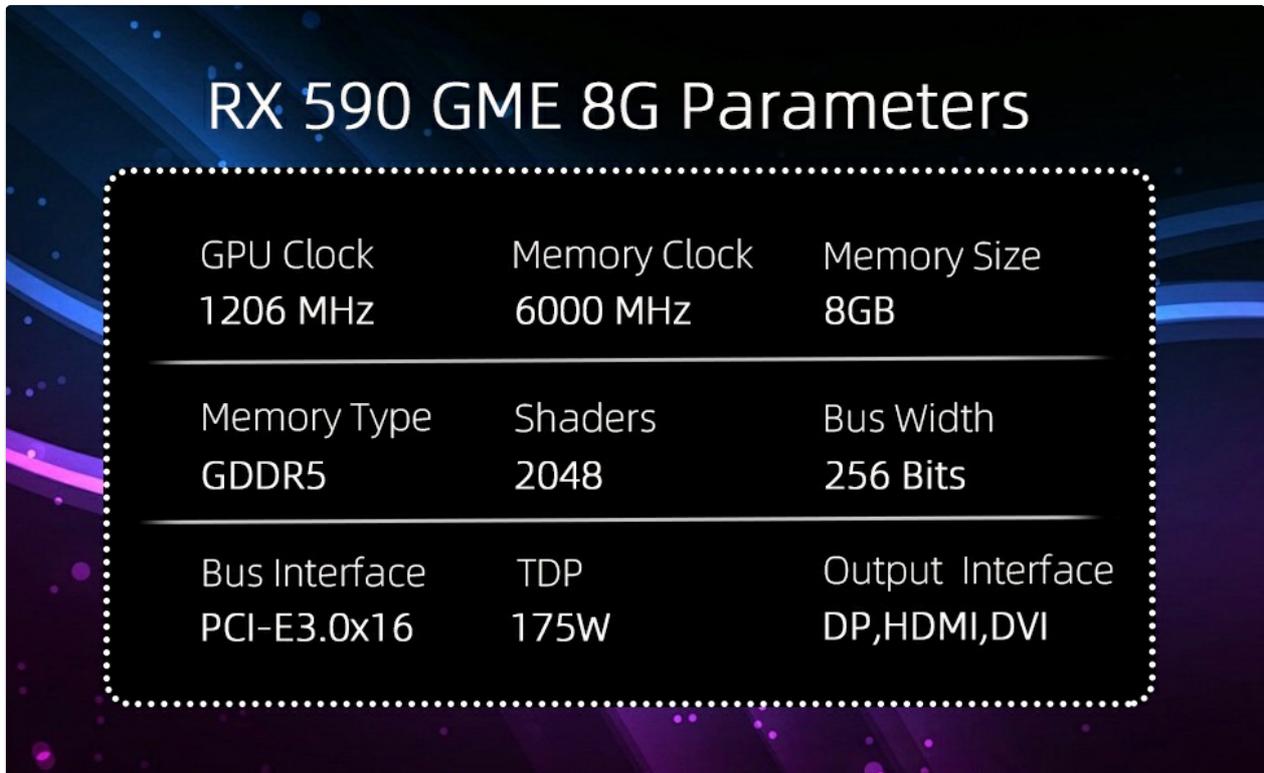
- **Performance Issues:**

- Ensure your system meets the recommended specifications for the applications or games you are running.
- Check for background applications consuming system resources.

- Verify that your power supply is sufficient.

9. SPECIFICATIONS

Detailed technical specifications for the QTHREE Radeon RX 590 GME Graphics Card:



RX 590 GME 8G Parameters		
GPU Clock 1206 MHz	Memory Clock 6000 MHz	Memory Size 8GB
Memory Type GDDR5	Shaders 2048	Bus Width 256 Bits
Bus Interface PCI-E3.0x16	TDP 175W	Output Interface DP,HDMI,DVI

Image 9.1: Key parameters of the RX 590 GME 8G graphics card.

Feature	Specification
Graphics Coprocessor	AMD Radeon RX 590 GME
GPU Clock Speed	1206 MHz
Graphics RAM Size	8 GB GDDR5
Memory Clock Speed	6000 MHz
Memory Bus Width	256-bit
Stream Processors	2048 SP
Video Output Interface	1x DisplayPort, 1x HDMI, 1x DVI
PCI Express Interface	PCI Express 3.0 x16
Power Connector	1x 6-pin/8-pin
Maximum Power Draw (TDP)	175W
DirectX Support	DirectX 12
Dimensions (Approx.)	21cm (8.26") L x 14cm (5.51") W x 4cm (1.57") H
Item Weight	1.39 pounds

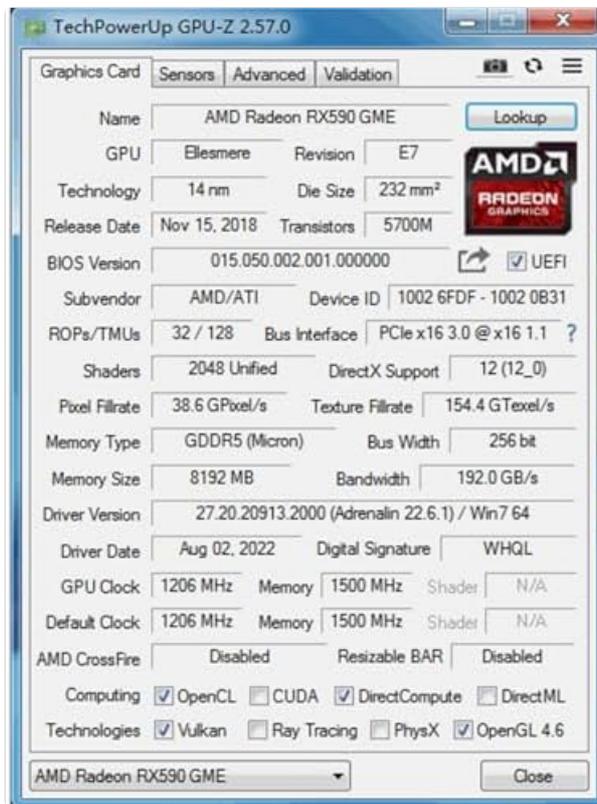


Image 9.2: Detailed GPU-Z information for the Radeon RX 590 GME.

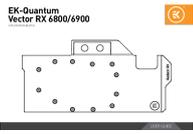
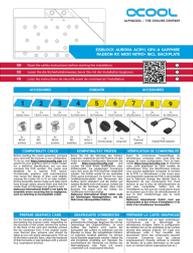
10. WARRANTY AND SUPPORT

For any questions regarding the QTHREE Radeon RX 590 GME Graphics Card, please contact seller support through your purchase platform. Keep your proof of purchase for warranty claims.

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Related Documents - RX 590 GME 8G

<p>GIGABYTE™</p> <p>Graphics Cards Quick Guide</p> <p><small>www.gigabyte.com</small></p>	<p>Gigabyte Graphics Cards Quick Guide: Hardware and Software Installation</p> <p>This Gigabyte Graphics Cards Quick Guide provides essential steps for hardware installation, including connecting the card to the motherboard and display, and software installation for drivers and utilities. It also details supported ports, restricted substances compliance, and important product notices.</p>
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	<p>PowerColor Graphics Card Quick Installation Guide</p> <p>A comprehensive guide for installing and setting up PowerColor graphics cards, including system requirements, hardware installation steps, driver installation, and additional support information.</p>
	<p>AMD Radeon RX 6000 Series Graphics Cards Quick Setup Guide</p> <p>A quick setup guide for installing AMD Radeon RX 6000 Series graphics cards, including the RX 6800 XT and RX 6800. Covers system requirements, hardware installation, and software setup.</p>
	<p>EK-Quantum Vector RX 6800/6900 GPU Water Block Installation Guide</p> <p>Comprehensive user guide for installing the EK-Quantum Vector water block on AMD Radeon RX 6800 and RX 6900 series graphics cards. Covers unboxing, preparation, installation, and testing.</p>
	<p>Alphacool Eisblock Aurora Acryl GPX-A GPU Water Cooler Installation Guide</p> <p>Step-by-step installation guide for the Alphacool Eisblock Aurora Acryl GPX-A water cooler for Sapphire Radeon RX 6800 Nitro+ graphics cards, including compatibility checks and preparation.</p>
 	<p>PowerColor Graphics Card Quick Installation Guide</p> <p>A concise guide to installing your PowerColor graphics card, including system requirements, hardware installation steps, driver installation, and software setup for AMD Radeon.</p>