

HP 3MQ82AA

HP 3MQ82AA AMD Radeon R7 430 Graphics Card User Manual

Model: **3MQ82AA**

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your HP 3MQ82AA AMD Radeon R7 430 Graphics Card. Please read this manual thoroughly before installation and use to ensure proper functionality and to prevent damage.

The HP 3MQ82AA AMD Radeon R7 430 is a low-profile graphics card designed to enhance the visual performance of compatible HP desktop systems, including the EliteDesk 800 G4, ProDesk 400 G5, and ProDesk 600 G4. It features 2 GB of GDDR5 memory and supports PCIe 3.0 x16 connectivity, offering dual DisplayPort outputs for multi-monitor setups.

PACKAGE CONTENTS

Verify that all items are present in the package:

- HP 3MQ82AA AMD Radeon R7 430 Graphics Card
- Documentation (this user manual)
- *(Optional, depending on specific SKU)* Low-profile bracket (if not pre-installed)
- *(Optional, depending on specific SKU)* Driver CD/DVD or link to driver download

SAFETY INFORMATION

- Always disconnect power from your computer before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity.

- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.
- This product is designed for use with compatible HP systems. Using it with unsupported systems may lead to compatibility issues or damage.

SETUP AND INSTALLATION

Follow these steps to install the HP 3MQ82AA AMD Radeon R7 430 Graphics Card into your compatible HP desktop computer.

1. Preparation

1. Power off your computer and disconnect the power cable from the wall outlet.
2. Disconnect all peripherals (monitor, keyboard, mouse, etc.).
3. Open the computer case according to your system's documentation.
4. Locate an available PCI Express 3.0 x16 slot on your motherboard.

2. Graphics Card Installation

5. Remove the metal bracket cover from the rear of the computer case corresponding to the chosen PCIe slot.
6. Carefully align the graphics card with the PCIe slot. Ensure the gold contacts on the card align with the slot.
7. Gently but firmly press the card straight down into the slot until it is fully seated. You may hear a click as the retention clip engages.
8. Secure the graphics card to the computer case using the screw or retention mechanism provided by your case.



Image: The HP 3MQ82AA AMD Radeon R7 430 Graphics Card. This image shows the low-profile design of the card, featuring a red fan on a black heatsink, two DisplayPort outputs, and the PCIe connector. The card is ready for installation into a compatible desktop system.

3. Reassembly and Initial Power On

9. Close the computer case.
10. Reconnect the power cable and all peripherals.
11. Connect your monitor(s) to the DisplayPort outputs on the graphics card.
12. Power on your computer.

4. Driver Installation

After the operating system loads, you will need to install the appropriate drivers for the graphics card. If the system does not automatically detect and install drivers:

- Visit the official HP support website for your specific computer model or the HP 3MQ82AA graphics card.
- Download the latest AMD Radeon R7 430 graphics drivers for your operating system.
- Follow the on-screen instructions to complete the driver installation. A system restart may be required.

OPERATING INSTRUCTIONS

Once the graphics card is installed and drivers are updated, your system will utilize the AMD Radeon R7 430 for display output and graphics processing.

Display Configuration

- **Single Monitor:** Connect your monitor to one of the DisplayPort outputs.
- **Dual Monitors:** Connect two monitors to both DisplayPort outputs. Your operating system's display settings (e.g., Windows Display Settings, AMD Radeon Software) will allow you to configure extended desktop, duplicate displays, or other multi-monitor arrangements.
- **Resolution:** The card supports a maximum resolution of 4096 x 2160 at 60 Hz. Ensure your monitor and DisplayPort cables support this resolution if desired.

AMD Radeon Software

The AMD Radeon Software (formerly Catalyst Control Center) provides advanced control over your graphics card settings. This software typically installs with the drivers. It allows you to:

- Adjust display resolution, refresh rate, and color settings.
- Configure multi-display setups.
- Optimize graphics performance for applications and games.
- Monitor GPU temperature and usage.

Refer to the AMD Radeon Software documentation for detailed usage instructions.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your graphics card.

- **Keep Drivers Updated:** Regularly check the HP support website or AMD's official website for the latest graphics drivers. Updated drivers often include performance improvements, bug fixes, and compatibility enhancements.
- **Clean Dust:** Periodically open your computer case and gently clean dust from the graphics card's heatsink and fan using compressed air. Ensure the fan blades are not obstructed. *Always disconnect power before cleaning.*
- **Ensure Airflow:** Make sure your computer case has adequate airflow. Avoid blocking ventilation openings.
- **Monitor Temperatures:** Use monitoring software (e.g., AMD Radeon Software) to keep an eye on the GPU temperature, especially during heavy load. Excessive temperatures can indicate poor airflow or a failing fan.

TROUBLESHOOTING

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

No Display Output

- **Check Cables:** Ensure the DisplayPort cables are securely connected to both the graphics card and the monitor.
- **Monitor Input:** Verify that your monitor is set to the correct input source (DisplayPort).
- **Reseat Card:** Power off the computer, disconnect power, open the case, and reseat the graphics

card firmly in its PCIe slot.

- **Power Supply:** Ensure your computer's power supply unit (PSU) meets the minimum power requirements for your system, including the graphics card.
- **Integrated Graphics:** If your CPU has integrated graphics, try connecting your monitor to the motherboard's video output to verify the system boots. If it does, the issue might be with the dedicated graphics card or its slot.

Display Artifacts or Instability

- **Driver Issues:** Uninstall current graphics drivers using a utility like Display Driver Uninstaller (DDU) in Safe Mode, then reinstall the latest drivers from the HP or AMD website.
- **Overheating:** Monitor GPU temperatures. If they are consistently high, ensure proper case ventilation and clean the card's heatsink/fan.
- **Compatibility:** Ensure your system BIOS/UEFI is updated to the latest version, especially if experiencing boot issues or instability.

Poor Performance

- **Driver Update:** Ensure you have the latest graphics drivers installed.
- **System Resources:** Close unnecessary background applications that consume CPU or RAM.
- **Game/Application Settings:** Adjust in-game or application graphics settings to match the capabilities of the Radeon R7 430.
- **Power Profile:** Ensure your operating system's power plan is set to "High Performance" when running demanding applications.

SPECIFICATIONS

Feature	Specification
Model Number	3MQ82AA
Graphics Engine	AMD Radeon R7 430
Bus Type	PCI Express 3.0 x16
Form Factor	Low Profile
Video Memory	2 GB GDDR5
Memory Bus Width	128-bit
Max Resolution	4096 x 2160 @ 60 Hz
Interfaces	2 x DisplayPort (HDCP)
API Support	OpenGL 4.4, DirectX 12
Dimensions (WxDxH)	6.2 in x 4.8 in x 0.8 in (approx. 15.75 cm x 12.19 cm x 2.03 cm)
Weight	4.83 oz (approx. 137 g)
Compatible Systems	HP EliteDesk 800 G4, HP ProDesk 400 G5, HP ProDesk 600 G4

Feature	Specification
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WARRANTY AND SUPPORT

This HP product is covered by a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your computer system or visit the official HP support website.

For technical assistance, driver downloads, or further support, please visit the official HP Support website:

www.hp.com/support

When contacting support, please have your product model number (**3MQ82AA**) and your computer's serial number readily available.