ATI 100-505746

ATI AMD FirePro W600 Graphics Card User Manual

Model: 100-505746

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your ATI AMD FirePro W600 2GB GDDR5 6Mini DisplayPort PCI-Express Video Card. The FirePro W600 is designed for professional graphics applications, offering high performance and multi-display capabilities. Please read this manual thoroughly before installing and operating the graphics card to ensure proper functionality and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent damage to the product or injury to yourself.

- Ensure your computer system is powered off and unplugged from the wall outlet before installation.
- Discharge any static electricity from your body by touching a grounded metal object (e.g., the computer chassis) before handling the graphics card.
- Handle the graphics card by its edges; avoid touching the components or gold-plated connectors.
- Do not expose the graphics card to moisture or extreme temperatures.
- Only use the card in a well-ventilated computer case to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- ATI AMD FirePro W600 Graphics Card
- Quick Start Guide (if included)
- Driver CD (if included, otherwise download from manufacturer's website)
- Mini DisplayPort to DVI adapters (quantity may vary, often sold separately)

4. SETUP AND INSTALLATION

4.1 System Requirements

- PCI-Express x16 slot available on motherboard.
- Sufficient power supply (consult your system's power supply specifications).
- Compatible operating system (e.g., Windows 7/8/10, Linux).
- Minimum 2GB system memory.

4.2 Hardware Installation

1. **Prepare your computer:** Power off your computer and unplug the power cord. Open the computer case.

2. **Locate an available PCI-Express x16 slot:** Identify an empty PCI-Express x16 slot on your motherboard. Remove the corresponding expansion slot cover from the computer case.

3. **Install the graphics card:** Carefully align the graphics card with the PCI-Express x16 slot. Press down firmly and evenly until the card is securely seated in the slot. Secure the card with the screw or latch mechanism of your computer case.

4. **Connect power (if applicable):** The FirePro W600 typically does not require additional power connectors beyond the PCIe slot, but always verify your specific model's requirements.

5. **Close the computer case:** Once the card is securely installed, close your computer case and reconnect all cables.
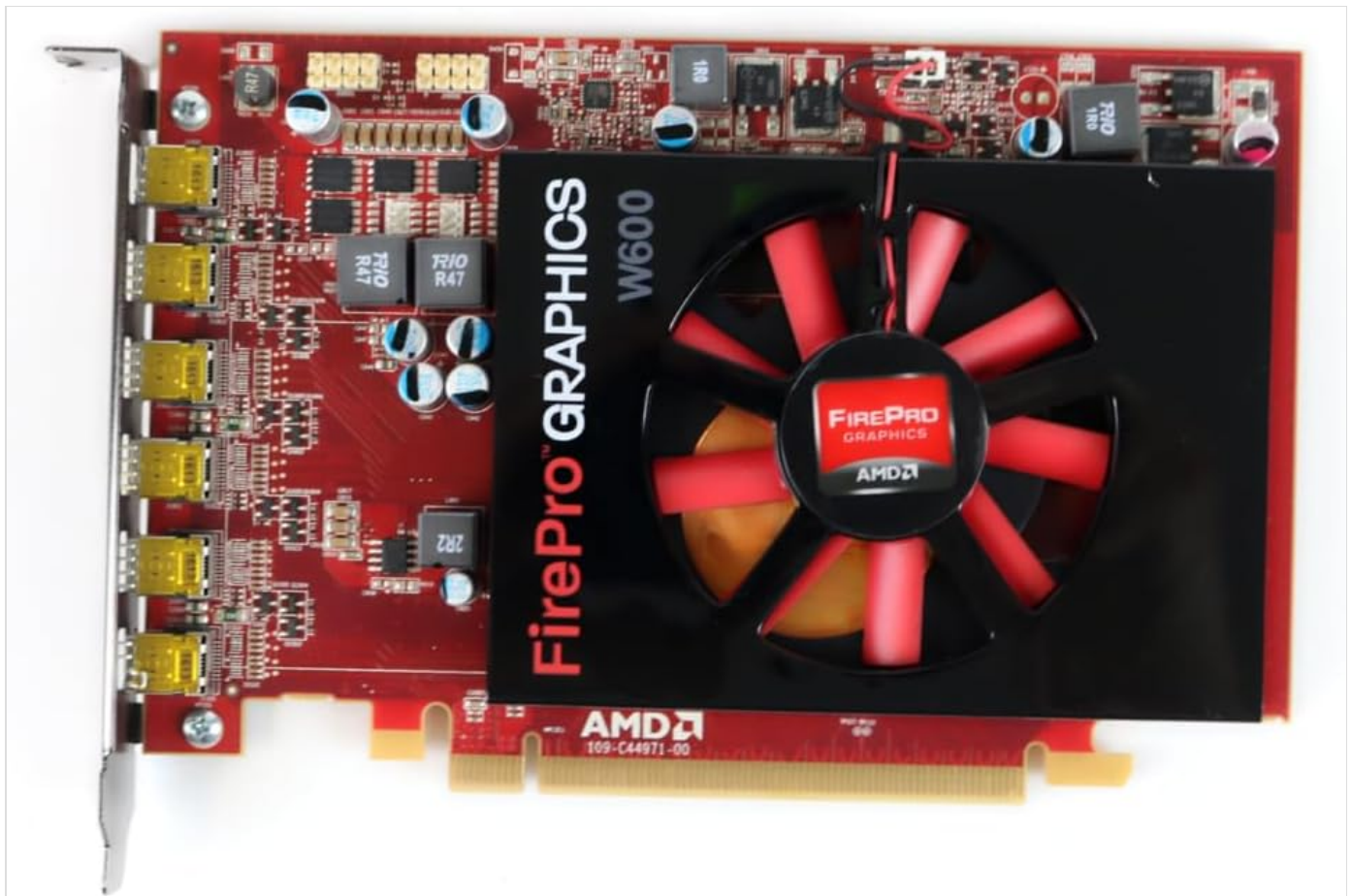

Figure 1: Front view of the ATI AMD FirePro W600 graphics card, showing the cooling fan and the FirePro Graphics branding.
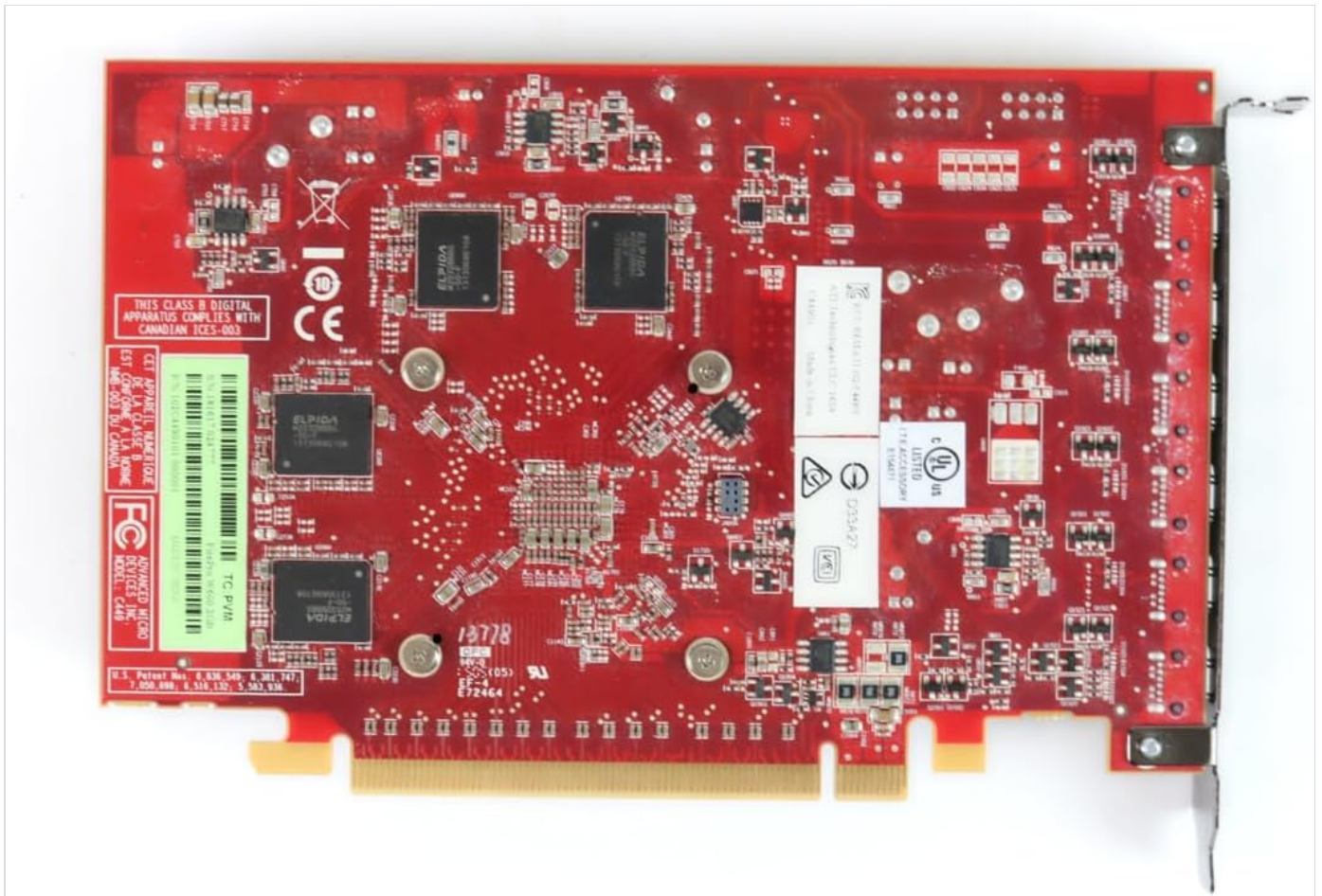
Figure 2: Rear view of the ATI AMD FirePro W600 graphics card, displaying the intricate circuitry and components on the back of the PCB.

4.3 Driver Installation

1. **Power on your computer:** Boot your computer. The operating system may automatically detect the new hardware and install a basic driver.

2. **Download the latest drivers:** For optimal performance and stability, it is highly recommended to download the latest professional drivers directly from the AMD official website. Navigate to the support section and search for "FirePro W600" drivers.

3. **Install the drivers:** Run the downloaded driver installer and follow the on-screen prompts. You may need to restart your computer after installation.

5. OPERATING THE GRAPHICS CARD

5.1 Connecting Displays

The ATI AMD FirePro W600 features six Mini DisplayPort outputs. You will need Mini DisplayPort cables or Mini DisplayPort to DVI/HDMI/VGA adapters (active adapters are recommended for multi-monitor setups, especially for AMD Eyefinity features) to connect your monitors.

1. Connect your Mini DisplayPort cables or adapters to the Mini DisplayPort outputs on the graphics card.

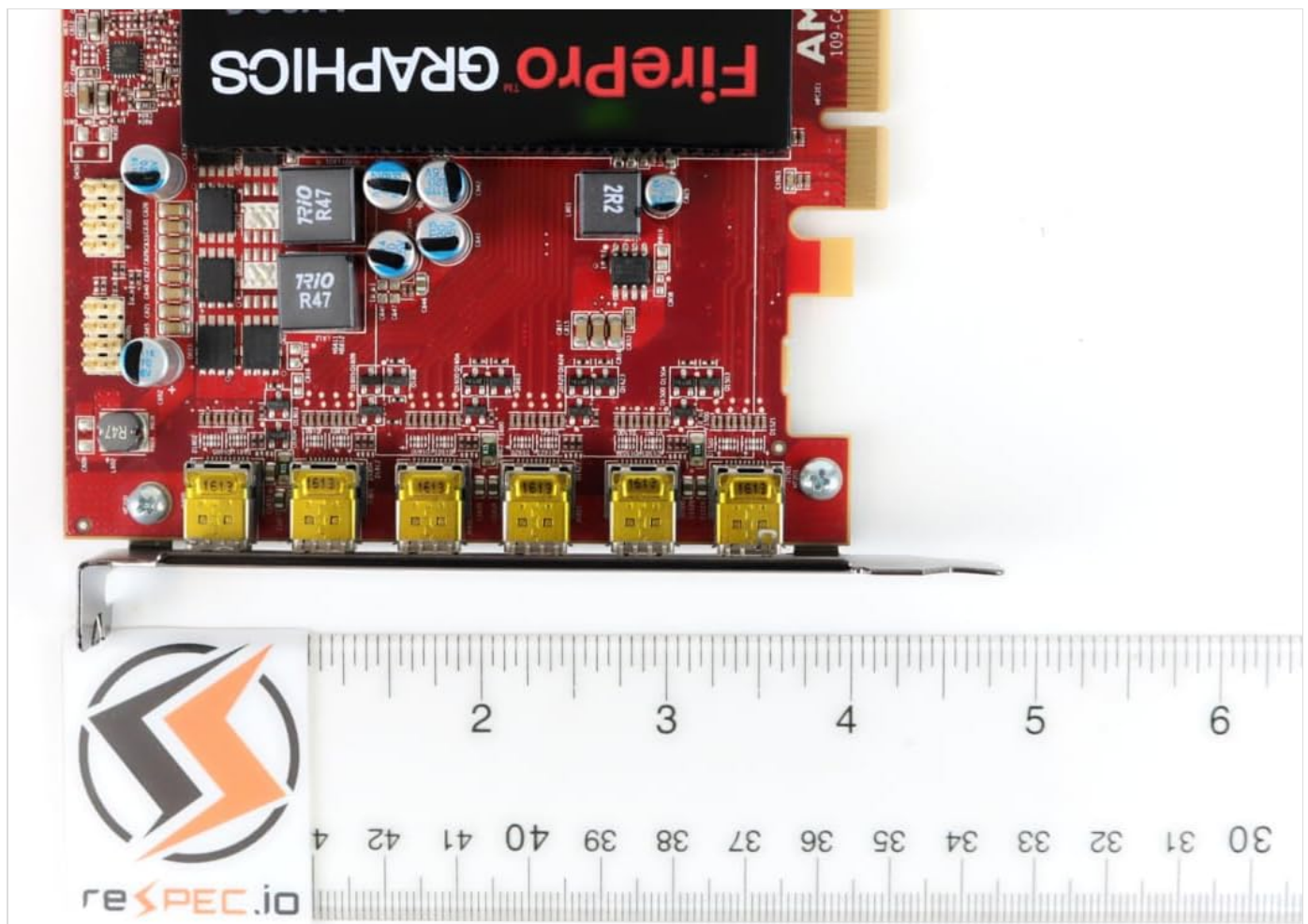2. Connect the other end of the cables to your monitors.

3. Power on your monitors.

Figure 3: Detail of the six Mini DisplayPort outputs on the FirePro W600, indicating its multi-display capability.

5.2 Configuring Multi-Monitor Setups (AMD Eyefinity)

The FirePro W600 supports AMD Eyefinity technology, allowing you to combine multiple displays into a single large desktop or create independent display groups.

1. After driver installation, right-click on your desktop and select "AMD Radeon Settings" or "AMD Catalyst Control Center" (depending on driver version).

2. Navigate to the "Display" or "Eyefinity" section.

3. Follow the on-screen instructions to detect and configure your connected displays. You can arrange displays, set resolutions, and create Eyefinity display groups for a panoramic viewing experience.

4. For optimal performance with Eyefinity, ensure you are using active Mini DisplayPort adapters for any non-DisplayPort monitors.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your graphics card.

- **Dust Removal:** Periodically clean dust from the graphics card's fan and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning. Hold the fan blades gently to prevent over-spinning during cleaning.

- **Driver Updates:** Keep your graphics drivers updated by regularly checking the AMD official website for the latest versions.

- **System Ventilation:** Ensure your computer case has adequate airflow to prevent the graphics card from overheating.

7. TROUBLESHOOTING

If you encounter issues with your graphics card, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No display output after installation.	Ensure the card is fully seated in the PCI-Express slot. Verify all power connections (if applicable). Check monitor cables and ensure they are securely connected. Try connecting to a different display output on the card. Ensure your monitor is set to the correct input source.
Driver installation failure.	Download the correct driver for your operating system and card model from the AMD website. Temporarily disable antivirus software during installation. Use a display driver uninstaller (DDU) to remove previous drivers before installing new ones.
Only some monitors are detected in a multi-monitor setup.	Ensure you are using active Mini DisplayPort adapters for non-DisplayPort monitors, especially for Eyefinity. Check cable integrity and connections for all monitors. Update graphics drivers to the latest version. Verify monitor settings in AMD Radeon Settings/Catalyst Control Center.
System crashes or freezes during graphics-intensive tasks.	Ensure adequate system cooling and ventilation. Verify your power supply unit (PSU) meets the minimum wattage requirements for your system with the new graphics card. Update graphics drivers.

8. SPECIFICATIONS

Feature	Detail
Chipset	AMD FirePro W600
Engine Clock	600 MHz
Memory	2GB GDDR5
Memory Interface	128-bit
Max. Resolution	4096 x 2304
Connectors	6x Mini DisplayPorts
Interface	PCI-Express x16
Item Weight	7 ounces
Product Dimensions (LxWxH)	1.57 x 4.21 x 6.45 inches

9. WARRANTY INFORMATION

For detailed warranty information regarding your ATI AMD FirePro W600 graphics card, please refer to the warranty card included with your product or visit the official ATI/AMD support website. Warranty terms and conditions may vary by region and retailer. Keep your proof of purchase for warranty claims.
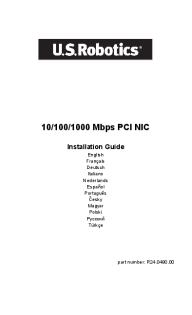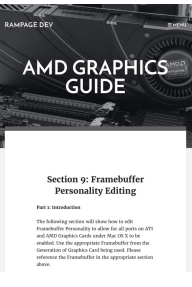
10. SUPPORT

For technical support, driver downloads, and frequently asked questions, please visit the official AMD support website: www.amd.com/en/support

You may also contact your retailer or point of purchase for assistance.

Related Documents - 100-505746

	MSI RS480M2/RX480M2 MS-7093 M-ATX Mainboard User Manual Comprehensive user manual for the MSI RS480M2/RX480M2 (MS-7093 v1.X) M-ATX Mainboard. Discover detailed hardware setup, BIOS configuration, audio features, SATA RAID capabilities, and ATI SURROUNDVIEW™ multi-monitor support for a high-performance desktop platform.
	ASUS M4A89GTD PRO/USB3 Motherboard User Manual User manual for the ASUS M4A89GTD PRO/USB3 motherboard, detailing hardware information, BIOS setup, software support, and technical specifications. Includes installation guides and safety information.
	National Instruments GPIB NI-488.2 for Windows Installation Guide Comprehensive installation guide for National Instruments GPIB NI-488.2 software and hardware for Windows operating systems, detailing setup for internal and external controllers and providing support resources.

SABERTOOTH P67 — Motherboard	[ASUS SABERTOOTH P67 Motherboard User Manual](#) Comprehensive user manual for the ASUS SABERTOOTH P67 motherboard, covering installation, hardware, BIOS, software, and multi-GPU technology. Includes safety and technical specifications.
U.S.Robotics 10/100/1000 Mbps PCI NIC Installation Guide English Français Deutsch Italiano Nederlands Español Português Česky Magyar Polski Русский Türkçe part number: R24-0490.00	[U.S. Robotics 10/100/1000 Mbps PCI NIC Installation Guide](#) Comprehensive installation guide for the U.S. Robotics 10/100/1000 Mbps PCI NIC, covering installation steps, troubleshooting, and support resources.
RAMPAGE DEV — AMD GRAPHICS GUIDE — Section 9: Framebuffer Personality Editing	[AMD Graphics Guide: Framebuffer Personality Editing for Mac OS X](#) A comprehensive technical guide from Rampage Dev detailing how to edit Framebuffer Personality on ATI and AMD Graphics Cards for Mac OS X, including ROM extraction, decoding, and kext patching.