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Sapphire 11265-01-20G

Sapphire Radeon Nitro+ RX 580 Graphics Card User Manual

Model: 11265-01-20G

PRODUCT OVERVIEW

The Sapphire Radeon Nitro+ RX 580 8GB GDDR5 PCI-E Graphics Card is designed for enhanced visual performance in computing systems. It features a robust cooling system and multiple display outputs to support various monitor configurations.

- **Memory:** 8GB GDDR5
- **Display Outputs:** 2 x HDMI, 1 x DVI-D, 2 x DisplayPort (maximum 5 outputs)
- **Cooling:** Dual fan technology for efficient heat dissipation
- **Memory Bus:** 256-Bit
- **Architecture:** UEFI PCI-E Graphics Card



Figure 1: Front view of the Sapphire Radeon Nitro+ RX 580 Graphics Card, highlighting the dual fan design.



Figure 2: Angled view of the graphics card, showing the cooling shroud and fan blades.

SYSTEM REQUIREMENTS

- **Power Supply:** 500 watt power supply (minimum suggestion)
- **Auxiliary Power Connectors:** 1 x 8-pin + 1 x 6-pin (optional)
- **Operating System:** Windows 10, Windows 7
- **Installation Media:** CD-ROM or DVD-ROM drive for installing software (drivers can also be downloaded online)

SETUP AND INSTALLATION

Follow these steps to properly install your Sapphire Radeon Nitro+ RX 580 Graphics Card into your computer system.

1. **Prepare Your System:** Power off your computer and unplug all cables. Open the computer case.
2. **Locate PCI-E Slot:** Identify an available PCI-Express x16 slot on your motherboard.
3. **Install Graphics Card:** Carefully align the graphics card with the PCI-E slot and press down firmly until it is securely seated. Secure the card with the case's retention mechanism or screws.
4. **Connect Power:** Connect the required 8-pin and optional 6-pin auxiliary power connectors from your power supply to the graphics card. Ensure connections are firm.
5. **Close Case and Connect Peripherals:** Close your computer case, reconnect all cables, and connect your display to one of the graphics card's output ports (HDMI, DVI-D, or DisplayPort).
6. **Power On and Install Drivers:** Power on your computer. Once the operating system loads, install the latest graphics drivers. Drivers can be found on the included CD-ROM or downloaded from the official Sapphire website.



Figure 3: Side view of the graphics card, illustrating the location of the 8-pin and 6-pin power connectors.



Figure 4: Rear view of the graphics card's backplate, providing structural support and heat dissipation.

OPERATING INSTRUCTIONS

After successful installation and driver setup, your graphics card is ready for use. Ensure your display is connected to one of the card's output ports.

- **Driver Updates:** Regularly check the Sapphire website for the latest driver updates to ensure optimal performance and compatibility with new applications and games.
- **Display Configuration:** Use your operating system's display settings or the AMD Radeon Software to configure display resolution, refresh rate, and multiple monitor setups.
- **Gaming and Applications:** Launch your games or graphics-intensive applications. The card will automatically utilize its processing power for rendering.

MAINTENANCE

Proper maintenance helps prolong the life and performance of your graphics card.

- **Dust Removal:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Temperature Monitoring:** Use monitoring software to keep track of the card's temperature, especially during heavy loads. Ensure adequate airflow within your computer case.
- **Fan Health:** While some software tools may report fan health, it is recommended to visually inspect fans for proper rotation and listen for unusual noises.

TROUBLESHOOTING

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

- **No Display Output:**
 - Ensure the display cable is securely connected to both the graphics card and the monitor.
 - Verify the monitor is set to the correct input source.
 - Check if the graphics card is properly seated in the PCI-E slot and auxiliary power cables are connected.
 - Try connecting to a different display output port on the card.
- **Driver Issues:**
 - Uninstall existing graphics drivers using a clean uninstallation utility (e.g., DDU).
 - Download and install the latest drivers directly from the Sapphire or AMD website.
- **Performance Problems (Low FPS, Stuttering):**
 - Ensure your system meets the minimum requirements for the application or game.
 - Check for overheating; clean dust and ensure good case airflow.
 - Update graphics drivers.
 - Verify power connections to the card.
- **Unusual Fan Noise:**
 - Inspect fans for obstructions (e.g., loose cables).
 - Clean dust from fan blades and heatsink.
 - If noise persists, contact support.

SPECIFICATIONS

Feature	Detail
Model Number	11265-01-20G
Graphics Processor	AMD Radeon RX 580
Memory Size	8 GB GDDR5
Memory Speed	1750 MHz
Memory Bus	256-Bit
Boost Clock	Up to 1411 MHz

Feature	Detail
Max Resolution	3840x2160
Output Interfaces	2 x HDMI, 1 x DVI-D, 2 x DisplayPort
Cooling System	Dual Fan
Power Connectors	1 x 8-pin, 1 x 6-pin (optional)
Dimensions (LxWxH)	10.24 x 5.31 x 1.69 inches
Weight	3.5 pounds

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Sapphire website or the documentation included with your product. Please note that the manufacturer's legal disclaimer states "No refunds."

Additional resources:

- **Online Support:** Visit the [Sapphire Support Page](#) for FAQs, driver downloads, and contact options.
- **Driver Downloads:** Always download the latest drivers from the official [AMD Driver Support](#) page for your Radeon RX 580.

PRODUCT VIDEOS

Product Overview Video

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This video provides a general overview of the product, showcasing its design and key features. It highlights the physical aspects and general appearance of the graphics card.

HYPER RENDER RX 580 8GB Graphics Card

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This video offers a detailed look at an RX 580 8GB graphics card, demonstrating its physical characteristics and potentially its operation or cooling system. Note that while this video is for an RX 580, it may not be the exact Sapphire model.