

Palit NE6306TS19P2-190AD

Palit GeForce RTX 3060 Ti Dual OC Graphics Card User Manual

Model: NE6306TS19P2-190AD

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Palit GeForce RTX 3060 Ti Dual OC graphics card. Please read this manual thoroughly before installing and using the product to ensure proper functionality and to prevent damage.

The Palit GeForce RTX 3060 Ti Dual OC is a high-performance graphics card designed for gaming and demanding graphical applications. It features 8GB of GDDR6 memory, a dual-fan cooling system, and supports PCI Express 4.0.

2. SAFETY INFORMATION

Observe the following safety guidelines to prevent injury and damage to your equipment:

- Always disconnect the power supply 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 before handling the graphics card. Static discharge can damage electronic components.
- Handle the graphics card by its edges. Avoid touching the gold-plated PCI Express connector or other components on the board.
- Ensure your computer case has adequate ventilation to prevent overheating.
- Do not expose the graphics card to moisture or extreme temperatures.
- Keep the graphics card away from children.

3. PACKAGE CONTENTS

Verify that all items are present in your product package:

- Palit GeForce RTX 3060 Ti Dual OC Graphics Card

- Quick Installation Guide (this document)
- Driver CD (or instructions for online download)



Image: The Palit GeForce RTX 3060 Ti Dual OC graphics card shown alongside its retail packaging.

4. SETUP

4.1. System Requirements

Before installation, ensure your system meets the following minimum requirements:

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 600W power supply with one 8-pin PCIe power connector.
- Microsoft Windows 10 64-bit or Linux 64-bit operating system.
- 8GB system memory (16GB recommended).
- Internet connection for driver download and updates.

4.2. Physical Installation

Follow these steps to install the graphics card into your computer:

1. Turn off your computer and disconnect the power cable from the wall outlet.
2. Open your computer case. Refer to your computer case manual for specific instructions.
3. Locate an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that block the slot.
4. Carefully align the graphics card with the PCI Express x16 slot. Press down firmly until the card is securely seated in the slot.
5. Secure the graphics card to the computer case with the screw from the expansion slot cover.

6. Connect the 8-pin PCIe power connector from your power supply to the corresponding port on the graphics card. Ensure a secure connection.
7. Close your computer case and reconnect the power cable.



Image: A top-down view of the Palit GeForce RTX 3060 Ti graphics card, highlighting its dual cooling fans and the heatsink assembly.

4.3. Driver Installation

After physical installation, you must install the graphics drivers:

1. Power on your computer.
2. If an internet connection is available, Windows may automatically install a basic display driver. For optimal performance, download the latest drivers from the official NVIDIA website (www.nvidia.com/drivers) or the Palit website (www.palit.com/download).
3. Run the downloaded driver installer and follow the on-screen instructions.
4. Restart your computer after the driver installation is complete.

5. OPERATING

5.1. Connecting Displays

The Palit GeForce RTX 3060 Ti Dual OC graphics card features multiple display outputs:

- 3x DisplayPort
- 1x HDMI

Connect your monitor(s) to the available ports on the graphics card. Ensure your display cables are securely connected to both the graphics card and your monitor.



Image: An angled view of the graphics card, highlighting the DisplayPort and HDMI output connectors on the rear I/O bracket.

5.2. Software Configuration

After driver installation, you can access the NVIDIA Control Panel or Palit ThunderMaster utility for advanced settings. These tools allow you to:

- Adjust display resolutions and refresh rates.
- Configure multi-monitor setups.
- Optimize 3D settings for games and applications.
- Monitor GPU temperature and fan speed (ThunderMaster).
- Perform overclocking (ThunderMaster, use with caution).

6. MAINTENANCE

Proper maintenance ensures the longevity 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. Hold the fan blades gently to prevent them from spinning rapidly during cleaning, which can damage the bearings.
- **Driver Updates:** Regularly check for and install the latest graphics drivers from NVIDIA to ensure optimal performance, stability, and access to new features.
- **Temperature Monitoring:** Use monitoring software (e.g., Palit ThunderMaster, MSI Afterburner) to keep an eye on GPU temperatures, especially during heavy loads. Ensure temperatures remain within safe operating limits.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Solution
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Problem	Possible Solution
No display output after installation.	<ul style="list-style-type: none"> • Ensure the graphics card is fully seated in the PCI Express slot. • Verify the 8-pin PCIe power connector is securely attached to the card. • Check that the monitor cable is connected to the graphics card, not the motherboard's integrated graphics port. • Test with a different display cable or monitor.
System crashes or freezes during use.	<ul style="list-style-type: none"> • Ensure graphics drivers are up-to-date. • Check GPU temperatures. Overheating can cause instability. • Verify your power supply meets the minimum wattage requirement and has sufficient PCIe power connectors. • Run a memory diagnostic to check for RAM issues.
Poor performance in games or applications.	<ul style="list-style-type: none"> • Ensure the latest graphics drivers are installed. • Check in-game settings; reduce resolution or graphical quality if necessary. • Monitor GPU usage and clock speeds to ensure the card is operating as expected. • Close unnecessary background applications.
Fans are not spinning.	Many modern graphics cards feature a 0dB fan mode, where fans only spin up when the GPU reaches a certain temperature (e.g., 50°C). This is normal behavior for silent operation under light loads. If fans do not spin under heavy load and temperatures are high, check power connections and driver installation.

8. TECHNICAL SPECIFICATIONS

Key specifications for the Palit GeForce RTX 3060 Ti Dual OC graphics card:

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 3060 Ti
Graphics Ram Size	8 GB GDDR6
Boost Clock	1695 MHz
Video Output Interface	3x DisplayPort, 1x HDMI
Interface	PCI Express 4.0
Product Dimensions	9.72 x 4.72 x 1.57 inches (24.7 x 12.0 x 4.0 cm)
Item Weight	7 ounces (198 grams)
Model Number	NE6306TS19P2-190AD



Image: The backplate of the Palit GeForce RTX 3060 Ti graphics card, showing its design and ventilation.

9. WARRANTY AND SUPPORT

9.1. Warranty Information

This Palit GeForce RTX 3060 Ti Dual OC graphics card is backed by Palit's 2-year manufacturer's warranty. This warranty covers defects in materials and workmanship under normal use. For full warranty terms and conditions, please refer to the official Palit website or contact Palit customer support.

9.2. Customer Support

If you require technical assistance or have questions regarding your product, please visit the official Palit website for support resources, FAQs, and contact information:

- **Palit Official Website:** www.palit.com
- **Support Page:** Look for a 'Support' or 'Contact Us' section on the website.

When contacting support, please have your product model number (NE6306TS19P2-190AD) and purchase information readily available.