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**ZOTAC**

# ZOTAC Gaming GeForce GTX 1660 Super Graphics Card Instruction Manual

Model: ZT-T16620F-10L

## 1. Introduction

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your ZOTAC Gaming GeForce GTX 1660 Super graphics card. Designed with the New Turing Architecture, this super compact, dual-slot card is 4K ready and features Ice Storm 2.0 Cooling for optimal performance. Please read this manual thoroughly before proceeding with installation.




**Image 1.1:** The ZOTAC Gaming GeForce GTX 1660 Super graphics card alongside its packaging. This image illustrates the compact design of the card and the branding.

# 2. Setup and Installation

## 2.1 Pre-Installation Checklist

- **Power Supply:** Ensure your power supply unit (PSU) has sufficient wattage and an available 8-pin PCIe power connector.
- **Motherboard:** Verify your motherboard has an available PCI Express x16 slot.
- **Case Clearance:** Confirm your PC case has adequate space for the card's dimensions (approximately 6.81 x 13.9 x 4.39 inches). The card is super compact, fitting 99% of systems.
- **Tools:** You will need a Phillips head screwdriver.
- **Static Protection:** Use an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity.

## 2.2 Physical Installation

1. **Power Off:** Shut down your computer completely and unplug the power cable from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
4. **Remove Slot Covers:** Remove the two expansion slot covers from the back of your PC case corresponding to the chosen PCIe slot.
5. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is fully seated. A click may be heard.
6. **Secure Card:** Secure the graphics card to the case using the screws from the removed slot covers.
7. **Connect Power:** Connect the 8-pin PCIe power cable from your PSU to the corresponding port on the graphics card.
8. **Close Case:** Replace the side panel of your computer case.
9. **Reconnect Power:** Plug the power cable back into the wall outlet.

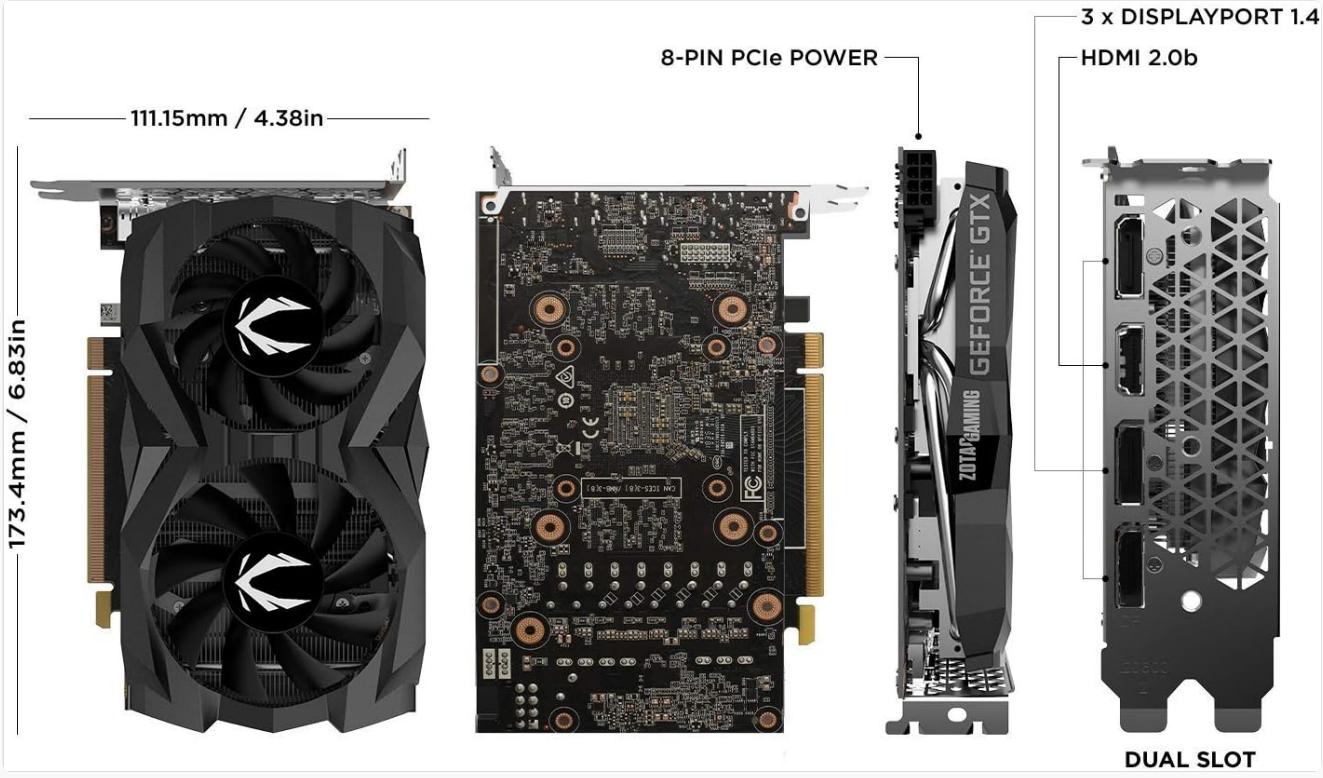



**Image 2.1:** Detailed view of the graphics card's dimensions, power input, and video output ports. This helps in verifying compatibility and connection points.




**Image 2.2:** The graphics card installed within a computer system, demonstrating its compact form factor and how it fits into a typical PC build.

## 3. Operation

### 3.1 Driver Installation

After physical installation, the next crucial step is to install the graphics drivers. Without proper drivers, the card will not function optimally.

1. **Boot Up:** Turn on your computer. Your operating system should detect new hardware.
2. **Download Drivers:** Visit the official NVIDIA website (www.nvidia.com/drivers) or the ZOTAC website (www.zotac.com/support) to download the latest drivers for the GeForce GTX 1660 Super.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen prompts. It is recommended to perform a clean installation.
4. **Restart:** Restart your computer after the driver installation is complete.

### 3.2 Connecting Displays

The ZOTAC Gaming GeForce GTX 1660 Super supports multiple display outputs:

- 3 x DisplayPort 1.4
- 1 x HDMI 2.0b

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

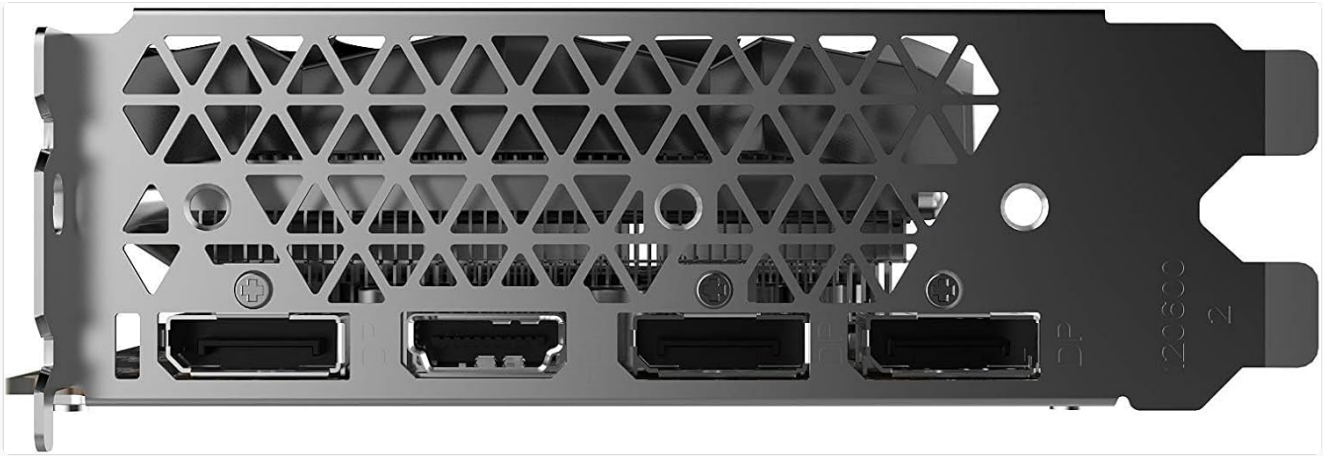


**Image 3.1:** The rear I/O panel of the graphics card, clearly showing the available DisplayPort and HDMI connections for monitors.

### 3.3 ZOTAC FireStorm Utility (Optional)

For advanced monitoring and tuning, ZOTAC provides the FireStorm utility. This software allows you to monitor GPU temperature, fan speed, and adjust clock speeds for optimal performance. Download it from the official ZOTAC website.

## 4. Maintenance

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

### 4.1 Dust Cleaning

Dust accumulation can impede cooling and lead to overheating. It is recommended to clean your graphics card periodically.

- **Frequency:** Depending on your environment, clean every 3-6 months.
- **Procedure:**
    a. Shut down your PC and unplug it from power.
    b. Carefully remove the graphics card from the PCIe slot (if comfortable doing so).
    c. Use compressed air to blow dust out of the heatsink fins and fan blades. Hold the fans gently to prevent them from spinning too fast.
    d. Wipe down the exterior of the card with a soft, dry, lint-free cloth.
    e. Reinstall the card and reconnect all cables.




**Image 4.1:** An illustration of the internal cooling components, including the copper heatpipes and aluminum heatsink, which are critical areas for dust accumulation.

### 4.2 Temperature Monitoring

Use monitoring software (like ZOTAC FireStorm or other third-party tools) to keep an eye on your GPU's temperature, especially during heavy loads. Maintain good airflow within your PC case to prevent overheating.

## 5. Troubleshooting

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

| Problem | Possible Cause | Solution |
|---|---|---|
| No display output | Loose cables, incorrect input, card not seated, power not connected. | Check monitor cables and input source. Ensure card is fully seated in PCIe slot. Verify 8-pin PCIe power connector is securely attached. |
| Driver installation failure | Corrupted download, conflicting drivers. | Redownload drivers. Use Display Driver Uninstaller (DDU) in Safe Mode to remove old drivers, then reinstall. |
| System crashes/freezes during gaming | Overheating, unstable overclock, insufficient power. | Monitor GPU temperature. Ensure adequate case airflow. Check PSU wattage. Reset any overclock settings. |
| Poor performance in games | Outdated drivers, incorrect game settings, background processes. | Update to the latest graphics drivers. Adjust in-game graphics settings. Close unnecessary background applications. |

| Problem | Possible Cause | Solution |
|---|---|---|
| Fans not spinning | Zero RPM mode (normal at low temps), fan failure, power issue. | Check if GPU temperature is low (fans may not spin below a certain threshold). If temps are high and fans are still, contact support. |

## 6. Specifications

Key technical specifications for the ZOTAC Gaming GeForce GTX 1660 Super graphics card:

| Feature | Detail |
|---|---|
| Graphics Coprocessor | NVIDIA GeForce GTX 1660 Super |
| Graphics RAM Size | 6 GB GDDR6 |
| GPU Clock Speed (Boost) | 1860 MHz |
| Video Output Interface | 3 x DisplayPort 1.4, 1 x HDMI 2.0b |
| Product Dimensions | 6.81 x 13.9 x 4.39 inches (approximate) |
| Item Weight | 0.035 ounces (approximate) |
| Architecture | New Turing Architecture |
| Cooling System | Ice Storm 2.0 Cooling (Dual Fan, Heatpipes, Heatsink) |
| Slot Size | Dual Slot |
| Power Connector | 8-pin PCIe |

## 7. Warranty and Support

This ZOTAC Gaming GeForce GTX 1660 Super graphics card is a renewed product. As such, it is covered by the **Amazon Renewed Guarantee**.

- **Amazon Renewed Guarantee:** If you are not satisfied with your purchase, renewed products are eligible for replacement or refund under the Amazon Renewed Guarantee.
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