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ZOTAC ZT-P10700G-10M

ZOTAC GeForce GTX 1070 Mini Graphics Card User Manual

Model: ZT-P10700G-10M

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your ZOTAC GeForce GTX 1070 Mini graphics card. Designed for challenging graphics-intensive games, this card leverages NVIDIA Pascal architecture, offering 8GB GDDR5 memory and VR Ready capabilities in a super compact form factor suitable for mini-ITX builds.



Figure 1: The ZOTAC GeForce GTX 1070 Mini graphics card, shown alongside its retail packaging, highlighting its compact design and key features.

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- ZOTAC GeForce GTX 1070 Mini Graphics Card
- Dual 6-pin to 8-pin PCIe adapter
- Driver Disk
- User Manual (this document)

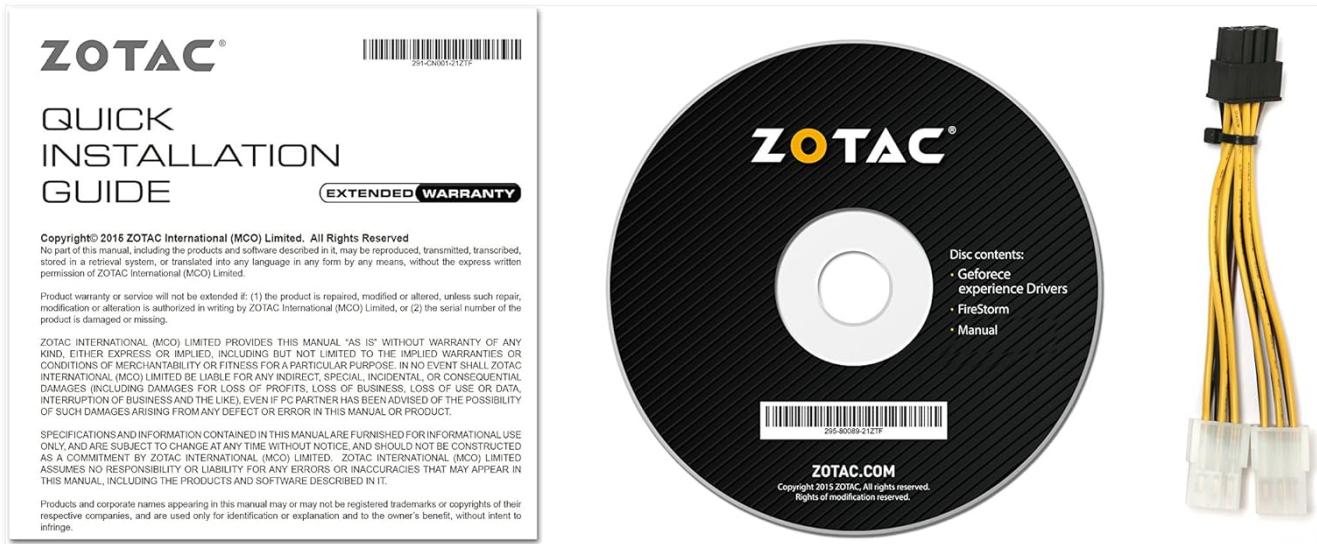


Figure 2: Included accessories: a Quick Installation Guide, a driver disk, and a dual 6-pin to 8-pin PCIe adapter for power connection.

3. SETUP

3.1 System Requirements

- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- 500-watt or greater power supply recommended
- One 8-pin PCI Express power connector
- Minimum 8GB system memory (16GB recommended)
- Microsoft Windows 10 / 8 / 7 operating system

3.2 Hardware Installation

1. Power off your computer and disconnect all cables.
2. Open your computer case.
3. Locate an available PCI Express x16 slot on your motherboard.
4. Carefully insert the ZOTAC GeForce GTX 1070 Mini graphics card into the PCI Express x16 slot until it is firmly seated.
5. Secure the graphics card to the computer case with the retaining screw.
6. Connect the 8-pin PCI Express power connector from your power supply to the graphics card. If your power supply only has 6-pin connectors, use the provided dual 6-pin to 8-pin adapter.
7. Close your computer case and reconnect all cables.



Figure 3: A direct front view of the ZOTAC GeForce GTX 1070 Mini, showcasing its dual-fan cooling system and compact form factor.

3.3 Driver Installation

1. Power on your computer.
2. Insert the included driver disk into your optical drive.
3. Follow the on-screen instructions to install the NVIDIA GeForce driver. If you do not have an optical drive, download the latest drivers from the official ZOTAC website or NVIDIA website.
4. Restart your computer after the installation is complete.

3.4 Video Overview

Video 1: An official overview of the ZOTAC GeForce GTX 1070 Mini graphics card, detailing its features and design.

4. OPERATING THE GRAPHICS CARD

4.1 Key Features

- **NVIDIA Pascal Architecture:** Delivers enhanced speed and power for gaming.
- **VR Ready:** Optimized for virtual reality experiences.
- **NVIDIA Ansel:** Capture professional-grade in-game photos.
- **NVIDIA SLI w/ HB Bridge Support:** For multi-GPU configurations.
- **NVIDIA G-SYNC:** Provides smooth, tear-free gameplay.
- **NVIDIA GameStream:** Stream PC games to NVIDIA SHIELD devices.
- **Simultaneous Multi-Projection:** Enhances VR and multi-display experiences.

4.2 Display Connections

The ZOTAC GeForce GTX 1070 Mini supports quad simultaneous displays and features the following output ports:

- 3 x DisplayPort 1.4
- 1 x HDMI 2.0b

- 1 x Dual-link DVI





Figure 4: The rear panel of the graphics card, featuring multiple display outputs including DisplayPort, HDMI, and DVI for versatile monitor connectivity.

5. MAINTENANCE

To ensure optimal performance and longevity of your graphics card, regular maintenance is recommended:

- **Keep Drivers Updated:** Regularly check the ZOTAC or NVIDIA website for the latest graphics drivers to ensure compatibility and performance improvements.
- **Clean Dust:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Monitor Temperatures:** Use monitoring software to keep an eye on the GPU temperature, especially during heavy loads. Ensure adequate airflow within your PC case.
- **Inspect Connections:** Occasionally check that all power and display cables are securely connected to the graphics card.

6. TROUBLESHOOTING

If you encounter issues with your ZOTAC GeForce GTX 1070 Mini, consider the following troubleshooting steps:

- **No Display Output:** Ensure the monitor cable is securely connected to the graphics card and the monitor. Try a different display cable or port. Verify the monitor is powered on and set to the correct input.
- **System Not Booting:** Check that the graphics card is fully seated in the PCI Express slot and that the 8-pin power connector is properly attached. Ensure your power supply meets the recommended wattage.
- **Driver Issues:** If you experience crashes or graphical anomalies, try uninstalling and reinstalling the latest graphics drivers. Perform a clean installation of the drivers.
- **Overheating:** If the GPU is running too hot, ensure your PC case has good airflow and that the graphics card fans are spinning freely and are free of dust.
- **Performance Problems:** Verify that your system meets the minimum requirements for the games or applications you are running. Ensure background applications are not consuming excessive resources.

7. SPECIFICATIONS

Feature	Specification
GPU	NVIDIA GeForce GTX 1070
CUDA Cores	1920
Video Memory	8GB GDDR5
Memory Bus	256-bit

Feature	Specification
Engine Clock (Base)	1518 MHz
Engine Clock (Boost)	1708 MHz
Memory Clock	8 GHz
PCI Express	3.0
Display Outputs	3 x DisplayPort 1.4, 1 x HDMI 2.0b, 1 x Dual-link DVI
Multi Display Support	Quad Display
Recommended Power Supply	500W
Power Consumption	150W Max
Power Input	8-pin PCI Express
Dimensions (LxWxH)	8.2 x 4.8 x 3 inches
Operating System Support	Windows 10 / 8 / 7

8. WARRANTY AND SUPPORT

An extended warranty is included with your ZOTAC graphics card purchase. User registration is required on the official ZOTAC website to activate this warranty. For further support, driver downloads, and product information, please visit the [ZOTAC Store](#) or their official support channels.