

## ZOTAC ZT-71301-20L

# ZOTAC GeForce GT 710 1GB DDR3 Graphics Card User Manual

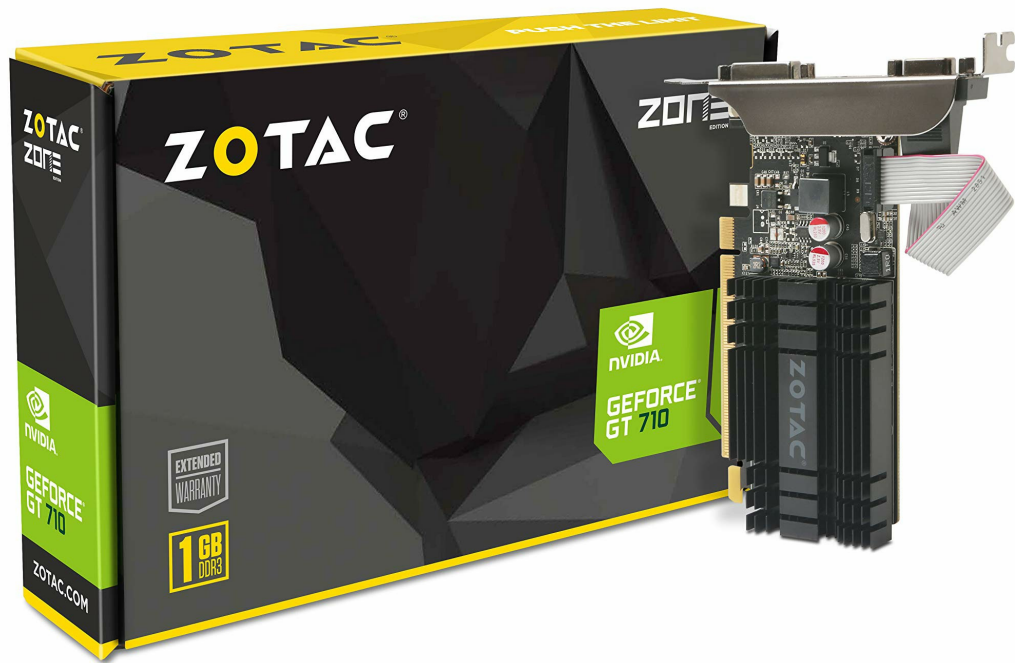
Model: ZT-71301-20L

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## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your ZOTAC GeForce GT 710 1GB DDR3 graphics card (Model ZT-71301-20L). Please read this manual thoroughly before installation to ensure proper setup and optimal performance. This graphics card is designed to enhance your PC's visual capabilities, offering superior performance over integrated graphics for tasks such as video and photo editing.



*Image 1: ZOTAC GeForce GT 710 1GB DDR3 Graphics Card. This image shows the graphics card from a top-down perspective, highlighting its passive cooling heatsink and the ZOTAC branding.*

## 2. PACKAGE CONTENTS

Verify that all items listed below are present in your product package:

- ZOTAC GeForce GT 710 1GB DDR3 Graphics Card (ZT-71301-20L)
- Low profile I/O bracket
- Driver Disk
- User Manual (this document)



Image 2: Contents of the ZOTAC GeForce GT 710 package. This image displays the graphics card, low profile brackets, and driver disk, as typically included in the retail box.

### 3. INSTALLATION

#### 3.1 System Requirements

- PCI Express 2.0 x16 slot (compatible with x1 slots)
- Minimum 300-watt power supply
- Compatible operating system: Windows 10/8/7/Vista/XP
- Monitor with DVI, HDMI, or VGA input

#### 3.2 Hardware Installation

1. **Power Off:** Turn off your computer and disconnect the power cable.
2. **Open Case:** Open your computer case.
3. **Locate PCIe Slot:** Find an available PCI Express 2.0 x16 slot (or x1 slot).
4. **Remove Slot Cover:** Remove the metal slot cover 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 securely seated. Ensure the retention clip (if present) locks into place.
6. **Secure Card:** Secure the graphics card to the chassis with a screw. If using the low profile bracket, ensure it is installed correctly before securing.

7. **Close Case:** Close your computer case and reconnect the power cable.

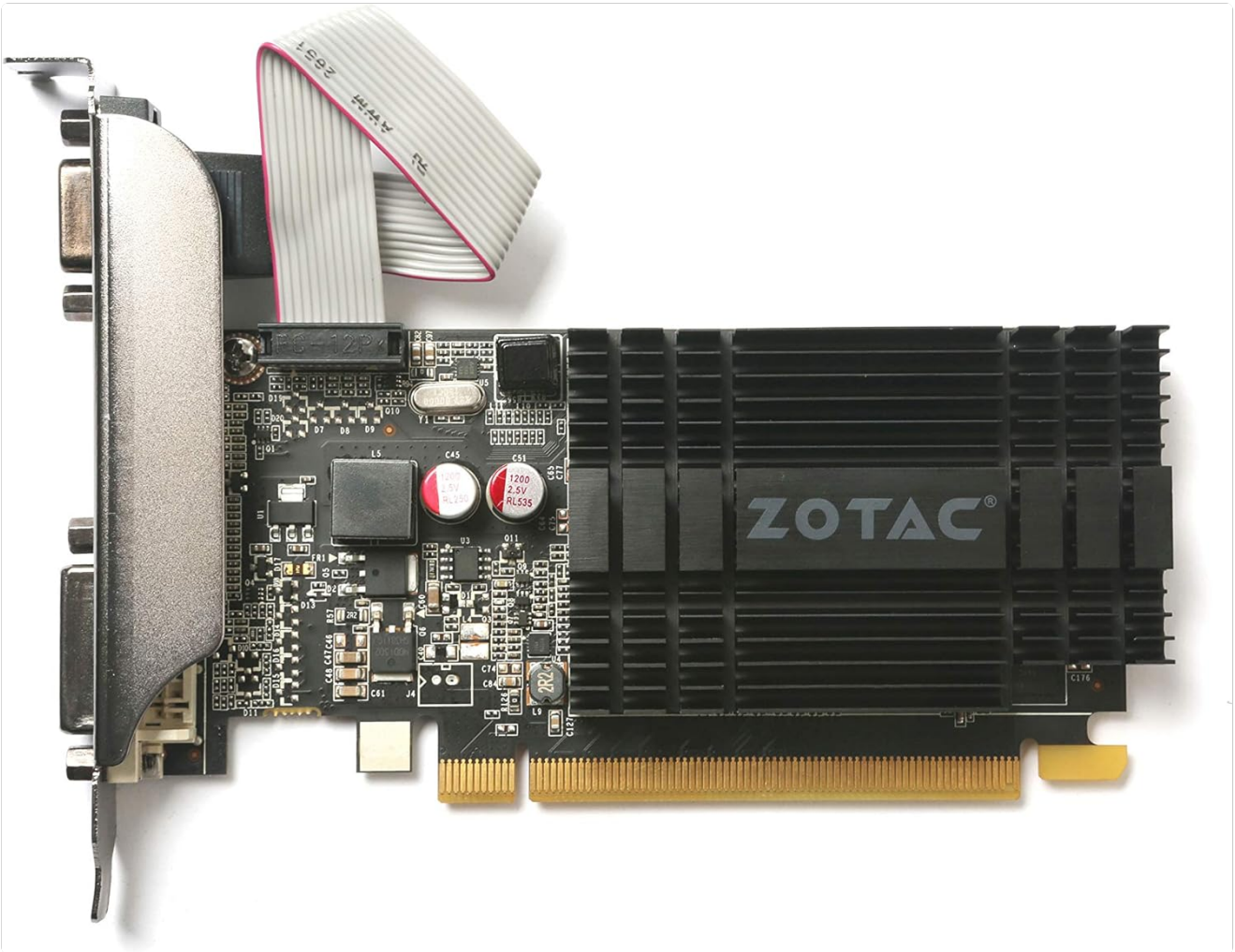


Image 3: A ZOTAC GeForce GT 710 graphics card shown from the top, illustrating its compact size and passive cooling design, ready for installation into a PCI Express slot.

### 3.3 Driver Installation

1. **Boot System:** Power on your computer.
2. **Install Drivers:** Insert the provided Driver Disk into your optical drive. Follow the on-screen instructions to install the NVIDIA GeForce drivers. Alternatively, download the latest drivers from the official ZOTAC or NVIDIA website.
3. **Restart:** Restart your computer after the driver installation is complete.

## 4. OPERATING INSTRUCTIONS

### 4.1 Connecting Displays

The ZOTAC GeForce GT 710 supports up to three displays simultaneously. Connect your monitors to the available ports:

- **DL-DVI:** Supports resolutions up to 2560x1600 at 60 Hz.
- **HDMI:** Supports resolutions up to 4K at 30 Hz.
- **VGA:** Supports resolutions up to 2048x1536 at 60 Hz.







Image 4: Close-up view of the ZOTAC GeForce GT 710's output ports, including DVI, HDMI, and VGA connectors, enabling triple display support.

## 4.2 Display Configuration

After connecting your displays, you can configure them through your operating system's display settings or the NVIDIA Control Panel. This allows you to extend your desktop, duplicate displays, or set up multiple monitors for enhanced productivity.

## 5. KEY FEATURES

- **NVIDIA GeForce GT 710:** Powered by NVIDIA's GT 710 GPU.
- **1GB DDR3 Memory:** Equipped with 1GB of DDR3 video memory.
- **192 CUDA Cores:** Features 192 CUDA cores for parallel processing.
- **64-bit Memory Bus:** Efficient 64-bit memory interface.
- **954 MHz Engine Clock:** Core clock speed of 954 MHz.
- **1600 MHz Memory Clock:** Memory clock speed of 1600 MHz.
- **Triple Display Support:** Connect up to three monitors simultaneously.
- **DirectX 12 (feature 11\_0) API:** Supports modern graphics APIs for compatibility with a wide range of applications and games.
- **OpenGL 4.5:** Supports OpenGL 4.5 for graphics rendering.
- **Passive Cooled:** Features a silent, fanless cooling solution.
- **Single Slot Low Profile:** Compact design suitable for small form factor PCs.

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Video 1: ZOTAC Graphics Card Overview. This video provides a general overview of ZOTAC's commitment to quality and innovation in graphics card design. It showcases various ZOTAC technologies, including cooling solutions and the Firestorm software interface, which is also applicable for managing ZOTAC products like the GT 710.

## 6. TECHNICAL SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce GT 710
Video Memory	1 GB DDR3
Memory Bus	64-bit
Engine Clock	954 MHz
Memory Clock	1600 MHz
CUDA Cores	192
PCI Express	2.0
Display Outputs	DL-DVI, HDMI, VGA
Max Digital Resolution	2560x1600 (DVI), 4K (HDMI)

Max VGA Resolution	2048x1536
Multi-Display Support	Triple Display Capable
Power Consumption	25-watt max
Recommended PSU	300-watt
Cooling	Passive (Fanless)
Slot Size	Single Slot
Low Profile Ready	Yes (with included bracket)
Supported APIs	DirectX 12 (feature 11_0), OpenGL 4.5
Operating Systems	Windows 10/8/7/Vista/XP

## 7. TROUBLESHOOTING

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### 7.1 No Display Output

- **Check Connections:** Ensure the monitor cable is securely connected to both the graphics card and the monitor.
- **Power Supply:** Verify that your power supply meets the minimum 300-watt requirement.
- **PCIe Seating:** Confirm the graphics card is fully seated in the PCI Express slot.
- **BIOS/UEFI Settings:** Check your motherboard's BIOS/UEFI settings to ensure the primary display output is set to the PCI Express slot.
- **Integrated Graphics:** If your CPU has integrated graphics, try booting with the integrated graphics to check if the system is otherwise functional.

### 7.2 Driver Issues

- **Reinstall Drivers:** Uninstall existing graphics drivers using a utility like Display Driver Uninstaller (DDU) in Safe Mode, then reinstall the latest drivers from the ZOTAC or NVIDIA website.
- **Driver Compatibility:** Ensure you are installing the correct drivers for your operating system and graphics card model.

### 7.3 System Instability or Crashes

- **Overheating:** Although passively cooled, ensure adequate airflow within your PC case to prevent overheating, especially under load.
- **Power Supply:** An insufficient or unstable power supply can cause system instability.
- **Memory Issues:** Run a memory diagnostic to check for RAM issues.

## 8. MAINTENANCE

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- **Keep Clean:** Regularly clean dust from your computer case and the graphics card's heatsink using compressed air. Dust buildup can hinder passive cooling efficiency.
- **Driver Updates:** Keep your graphics drivers updated to ensure optimal performance and compatibility.
- **System Airflow:** Ensure your PC case has good airflow to assist the passive cooling of the graphics card.

## 9. WARRANTY AND SUPPORT

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An extended warranty is included with every ZOTAC graphics card purchase. User registration is required on the official ZOTAC website to activate the extended warranty.

For technical support, driver downloads, and further information, please visit the official ZOTAC website:

[www.zotac.com](http://www.zotac.com)